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RCRA FACILITY GROUNDWATER, LEACHATE AND GAS REPORTING FORM

This form must be used as a cover sheet for the notices and reports, identified below as required by: (1) a facility's RCRA interim status closure plan; (2) the RCRA interim status regulations; or (3) a facility's RCRA permit. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form is for use by Hazardous Waste facilities only. Reporting for Solid Waste facilities should be submitted on a separate form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form is not to be used with permit or closure plan modification requests. The facility's approved permit or closure plan will state whether the document you are submitting is required as a report or a modification request.

Facility Name: Equilon Enterprises LLC dba Shell Oil Products US

Facility Address: 900 South Central Ave., Roxana, IL 62048

Site ID #: 1191150002 Fed ID #: ILD 080 012 305

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

☐ LPC-160 Forms

Groundwater

☐ Quarterly - Enter: 1, 2, 3, or 4

☐ Semi-Annual

☐ Annual

☐ Biennial

Leachate

☐ Quarterly - Enter: 1, 2, 3, or 4

☐ Semi-Annual

☐ Annual

☐ Biennial

☒ Groundwater Data (without LPC-160 Forms)

1 Quarterly - Enter: 1, 2, 3, or 4 ☐ Annual ☐ Semi-Annual ☐ Biennial

☐ Well Construction Information

☐ Well Construction Forms, Boring Logs and/or Abandonment Forms

☐ Well Survey Data (e.g., Stick-up Elevation Data)

☐ Notice of Statistically Significant Evidence of Groundwater Contamination
(35 Ill. Adm. Code 724.198)

☐ Notice of Exceedence of Groundwater Concentration Limit (35 Ill. Adm. Code 724.199(h))

☐ Notice of Alternate Source or Error in Sampling Analysis or Evaluation of Groundwater
(35 Ill. Adm. Code 724.199(i))

☐ Gas Monitoring Reports

☒ Other (identify)

Original copy submitted to Springfield. Electronic copies submitted separately directly to Collinsville FOS

(Ali Al-Janabi), Dana Austin, and Gary Ko.

April 30, 2025

Mr. Joshua Rhoades
Manager, Permit Section
Division of Land Pollution Control
Illinois Environmental Protection Agency
Bureau of Land
2520 West Iles Avenue
Springfield, Illinois 62704

Groundwater Monitoring Report – 1st Quarter 2025**Roxana, Illinois****1191150002 – Madison County****Equilon Enterprises LLC d/b/a Shell Oil Products US****Log No. B-43R-CA-21**

Dear Mr. Rhoades:

On behalf of Shell Oil Products US (Shell), AECOM Technical Services, Inc. (AECOM) is submitting the enclosed referenced report and RCRA Facility Groundwater, Leachate and Gas Reporting Form for your review. This sampling was required by Condition 7 of the Agency's letter dated August 5, 2010.

Electronic copies of the referenced report are being submitted separately directly to Ms. Dana Austin, Mr. Gary Ko, and IEPA Collinsville FOS (Ali Al-Janabi) with Illinois Environmental Protection Agency (IEPA).

If you have any questions during your review, please contact Leroy (Buddy) Bealer, Shell Principal Program Manager, at leroy.bealer@shell.com (484/632-7955), or Wendy Pennington at wendy.pennington@aecom.com (314/452-8929).

Yours sincerely,

AECOM, on behalf of Shell Oil Products US



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Enclosures: 1st Quarter 2025 Report, Roxana Interim Groundwater Monitoring Program
RCRA Facility Groundwater, Leachate and Gas Reporting Form

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1st Quarter 2025 Report

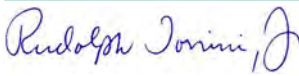
Roxana Interim Groundwater Monitoring Program

Prepared for:
Equilon Enterprises LLC dba Shell Oil Products US
Roxana, Illinois

Project number: 60738191

April 2025

Quality information

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Revision History

Revision	Revision date	Details	Authorized	Name	Position

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None	Yes	Mr. Gary Ko IEPA, Springfield
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1 Introduction

AECOM Technical Services, Inc. (AECOM) is submitting this report on behalf of Equilon Enterprises LLC d/b/a Shell Oil Products US (Shell) for the 1st Quarter 2025 (1Q25) groundwater monitoring well gauging and sampling conducted in the Village of Roxana, Illinois (**Figure 1**). The Interim Groundwater Monitoring Program (Program) was established based on direction from Illinois Environmental Protection Agency (IEPA) dated August 5, 2010 (IEPA, 2010a). The study area within the Village of Roxana (Village) is generally bounded by the alley north of First Street, Illinois Route 111, the West Fenceline of the WRB Refining, LP (WRB) Wood River Refinery (WRR), and the Roxana Public Works Yard. Some groundwater monitoring wells within the WRR were also sampled as part of this event; this was conducted in cooperation with WRB/Phillips 66 (P66). For purposes of presentation in this report only, the combined area is collectively referred to as the “Investigation Area.”

There was no groundwater-related regulatory correspondence between AECOM, on behalf of Shell, and the IEPA during this reporting period (January 2025 through March 2025); prior regulatory-related correspondences can be found in **Appendix A**.

Groundwater samples were collected and analyzed during 1Q25 to meet the requirements of the Interim Groundwater Monitoring Program, as specified in the guidance presented in **Appendix A**. **Figure 2** shows the groundwater monitoring wells that are part of the interim monitoring well network.

2 Groundwater Sampling and Analytical Procedures

The groundwater monitoring well gauging, sample collection, and analytical procedures are discussed in this section. Gauging and sampling procedures are based on the Interim Groundwater Monitoring Program, as outlined in the IEPA's letter dated August 5, 2010 (IEPA, 2010a) described in **Section 1**, and as modified based on other correspondence described in **Appendix A**. Groundwater samples and gauging data were collected using the most current AECOM standard operating procedures (SOPs) for the project.

2.1 Health & Safety

The quarterly sampling activities were performed in general accordance with the project-specific Health and Safety Plan (HASP), dated January 17, 2025 (AECOM, 2025).

2.2 Additional Activities or Modifications

The following additional work activities were conducted during 1Q25.

- Groundwater monitoring wells MW-1, MW-12, MW-16, MW-24, and P-54 were resampled for Method 8260 volatile organic compounds (VOCs) on February 13th and 14th, 2025 due to anomalous results from the initial samples. Both sets of data are included in this report.
- Depth to bottom measurements were collected from the groundwater monitoring wells in the Interim Groundwater Monitoring Program and compared to corresponding well construction information. No wells contained sediment above redevelopment criteria in the SOP (10% screen occlusion for sampled wells, and 75% screen occlusion for gauged-only wells); therefore, no redevelopment was necessary.

2.3 Groundwater Monitoring Well Gauging and Sampling

Groundwater Monitoring Well Gauging

The comprehensive quarterly groundwater monitoring well gauging event was conducted between January 13th and 15th, 2025. The gauging activities were conducted in conjunction with the 1Q25 gauging event for the WRR to evaluate groundwater flow direction and identify possible LNAPL in the Investigation Area. Depth to LNAPL (if present) and depth to water were recorded. Quarterly groundwater monitoring well gauging results can be found in **Table 1**. The groundwater gauging data table also includes well-head PID (photoionization detector) results.

Low-Flow Groundwater Purging and Sampling

Groundwater samples were collected from groundwater monitoring wells between January 16th through 20th, 2025, January 22nd through 28th, 2025, and February 13th and 14th, 2025. Groundwater samples were collected using the most current low-flow groundwater purging and sampling related SOPs, which have previously been provided to IEPA. Data are included in this report and discussed in **Section 3**.

Groundwater monitoring wells MW-1 through MW-7, MW-9 through MW-14; MW-16; MW-22 through MW-28; P-54; P-56 through P-59; P-74; P-93A, B, and C; P-114R; ROST-3-MW; ROST-4-PZ(C); ROST-4-PZ(E); ROST-4-PZ(G); and T-12 were purged and sampled using a stainless-steel submersible pump (pump), low-flow controller, and designated¹ polyethylene tubing.

Groundwater monitoring well P-93D was purged and sampled using a dedicated stainless-steel QED Environmental Systems (QED) Well Wizard® groundwater sampling pump and dedicated bonded polyethylene tubing.

¹ All designated tubing is stored in a sealed bag designated for a particular groundwater monitoring well between sampling events; designated tubing used with stainless steel submersible pumps is replaced annually prior to the first quarter sampling event.

For both sampling methods pumping was performed at a low flow rate (≤ 300 mL/minute) to minimize drawdown of the water level within the groundwater monitoring well. During groundwater purging, water quality parameters (pH, temperature, specific conductivity, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP)) were measured and recorded after every flow-through cell volume. Once stabilization was achieved or a maximum purge time of two hours was reached, groundwater samples were collected for VOCs and semi-volatile organic compound (SVOC) analysis.

Groundwater monitoring wells located inside the WRR and designated for sampling in the Interim Groundwater Monitoring Program, P-55R, P-66, and P-68, contained LNAPL when gauged and, therefore, were not sampled.

Groundwater sampling field parameters can be found in **Table 2**, and low flow groundwater sampling data sheets are included in **Appendix B**.

2.4 Decontamination and Investigation-Derived Waste

Decontamination

Field personnel and equipment underwent decontamination procedures in accordance with project SOPs previously provided to IEPA to ensure the health and safety of those present, to maintain sample integrity, and to minimize cross contamination. Reusable sampling equipment (e.g., groundwater pump) was decontaminated after each sample location using the most current decontamination SOPs.

Investigation-Derived Waste

Investigation-derived waste (IDW), such as purge water and decontamination fluid generated during groundwater sampling activities, was collected, staged, and disposed in accordance with RCRA, Illinois and United States Department of Transportation (DOT) regulations. Expendable materials (e.g., disposable sampling equipment such as gloves and tubing) were decontaminated, if necessary, collected in trash bags, and disposed as municipal waste.

Decontamination fluid and purge water from groundwater monitoring wells MW-4, MW-7, and MW-25 are managed as hazardous waste based on prior characterization in conjunction with generator knowledge, and decontamination fluid and purge water from other groundwater monitoring wells in the Village are managed as non-hazardous waste based on prior characterization in conjunction with generator knowledge; both hazardous and non-hazardous waste were disposed at the Heritage facility in Indianapolis, Indiana.

Decontamination fluid and purge water related to, or generated from, work within the WRR was collected and discharged through the WRR's National Pollutant Discharge Elimination System (NPDES)-permitted Wastewater Treatment Plant (WWTP).

2.5 Groundwater Sample Handling and Laboratory Testing

Samples were collected in pre-preserved laboratory-supplied containers and labeled in the field. Sample information was recorded on a chain of custody (COC) form at the time of collection. The sample ID format is "well ID-ROX-date". COCs are included with laboratory analytical reports in **Appendix C**.

Upon collection and labeling, sample containers were immediately placed inside an iced cooler and packed in such a way as to help prevent breakage and maintain sample temperature within 0-6°C without freezing. The samples were then delivered via overnight courier, under the proper COC documentation, to Eurofins Environment Testing America Southeast, LLC (EETA Southeast) in Pensacola, Florida for analysis.

Samples were analyzed by EETA Southeast for VOCs via USEPA Methods 8260D and 8011, for SVOCs via USEPA Method 8270E, and for Polycyclic Aromatic Hydrocarbons (PAHs) via USEPA Method 8270E Selected Ion Monitoring (SIM). USEPA Method 8011 was used for select VOCs (1,2-dibromoethane and 1,2-dibromo-3-chloropropane) in order to achieve lower reporting limits specified in the most recent version of the Permit. Per direction from IEPA, the Interim Groundwater Monitoring Program concentration limits need to be consistent with those in the Permit.

2.6 Data Quality Review and Data Management

Laboratory data were provided in electronic form and included data qualifiers on the basis of the laboratory's quality control or to indicate sample analysis information. The data were independently reviewed and qualified by AECOM. One hundred percent of the data were subjected to a data quality review. Evaluation of the data followed procedures outlined in the USEPA National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020). Data qualifiers were also added by AECOM, as appropriate, and are included on **Table 3**, and in the laboratory results in **Appendix C**. The results of the data quality review are discussed in **Section 3.2**.

Field data and documentation collected as part of this scope of work became part of the project file. AECOM maintains the files for the site and the database management system.

3 Groundwater Sampling Results

This section presents the results of the 1Q25 groundwater gauging and sampling event.

3.1 Groundwater Monitoring Well Gauging Results

The comprehensive quarterly groundwater monitoring well gauging for the 1Q25 event was conducted between January 13th and January 15th, 2025. This groundwater monitoring well gauging was conducted in accordance with the Interim Groundwater Monitoring Program, and the results can be found in **Table 1**. Groundwater levels in wells in the vicinity of the West Fenceline have fallen approximately 0.15 foot since the 4Q24 gauging event. Groundwater levels in wells in the central and eastern portions of the WRR have risen approximately 0.43 foot since the 4Q24 gauging event. Water levels are above the top of the screens in the majority of the wells gauged during the 1Q25 event. The potentiometric surface observed during the 1Q25 groundwater monitoring well gauging (**Figures 3a** and **3b**) illustrates an inward gradient with groundwater flow toward the WRR groundwater production wells.

During the 1Q25 quarterly groundwater monitoring well gauging event, LNAPL was detected in three Interim Groundwater Monitoring Program groundwater monitoring wells (P-55R, P-66, and P-68) (**Table 1**). These monitoring wells are located in the WRR. In these wells, LNAPL thicknesses ranged from 0.24 to 0.32 foot. LNAPL was not observed in groundwater monitoring wells located in the Village (**Table 1**). **Figures 4a** and **4b** illustrate the measured LNAPL thickness observed along the West Fenceline and inside the refinery, respectively, during the 1Q25 gauging event. Measured LNAPL thickness and the number of locations where it was observed during the 1Q25 quarterly gauging events was generally comparable to that observed in 4Q24.

The Illinois Emergency Management Agency (IEMA) was notified on November 22, 2020 of a release of gasoline from a Buckeye Partners (Wood River Pipeline, LLC) pipeline located to the south of well P-58 along the WRR West Fenceline, and to the north of well P-66 on WRR Main Property as indicated on **Figures 2, 3b, 4a, and 5**. The release is associated with IEPA Violation Notice L-2021-00084, LPC #1190905036 – Madison County. Groundwater monitoring wells P-58 and P-66 have yielded some anomalous observations/detections since the reported release; LNAPL has been detected in P-66 since 2Q22, however LNAPL was previously last detected in P-66 during 4Q12. These wells will be gauged, and sampled in the absence of LNAPL, during the quarterly Roxana Interim Groundwater Monitoring program.

During 1Q25, LNAPL was observed in groundwater monitoring wells P-55R, P-66, and P-68, located on WRR property, at a thickness greater than 0.10 feet and was removed using bailers². The recovered LNAPL was placed in a metal drum and will be sent for reuse of in accordance with RCRA, Illinois and United States Department of Transportation (DOT) regulations.

3.2 Data Quality Review Results

A total of 11 sample delivery groups (SDGs) were prepared and sent to EETA Southeast for the 1Q25 event. Fifty-one different groundwater sample sets were prepared and analyzed for VOCs and SVOCs (including PAHs). The 51 samples included 40 different investigative sample sets, five field duplicate sets, and three matrix spike/matrix spike duplicate (MS/MSD) sets. Additionally, wells MW-1, MW-12, MW-16, MW-24, and P-54 were resampled on February 13th and 14th for Method 8260 VOCs only due to anomalous results from the initial samples. Resample results from wells MW-1, MW-12, MW-16, MW-24, and P-54 were comparable with historical results; original results and resamples results are included in SDGs 400-269539-1, 400-269555-1 and 400-270966-1, 400-271052-1, respectively. SDGs for 1Q25 are presented in **Appendix C**.

Trip blanks (TBs), equipment blanks (EBs), and laboratory method blanks were analyzed to evaluate for the existence and magnitude of any contamination resulting from field and laboratory activities. Five different EB sets were collected for this quarter. A TB set was included in every cooler that contained samples for VOC analysis. A total of

² LNAPL > 0.10 feet is a project specific criterion for removal, based on practicality with the removal technique.

18 TB sets were analyzed for groundwater VOCs. Laboratory method blanks were analyzed with every analytical batch.

Based on laboratory control sample (LCS), MS/MSD, surrogate, holding time, and field duplicate criteria, the groundwater analytical results reported were accepted for their intended use.

Analytical results qualified by AECOM are specified in the data reviews presented in **Appendix C**.

3.3 Analytical Results and Discussion

Table 2 presents cumulative information on groundwater sampling field parameters for Main Sand aquifer wells. These results are consistent with those observed in the 4Q24 sampling event, with the exception of benzene and phenol in MW-25, discussed in further detail below. The laboratory analytical results for the groundwater samples collected during this event are presented in **Table 3**.

Analytical detections were compared to the concentration limits as provided in Condition IV(E)(1) of the Permit for the WRB Refining LP Wood River Refinery³. These concentration limits include the Groundwater Quality Standards for Class I: Potable Resource Groundwater (35 IAC 620, Subpart D, Section 410) (Part 620) (IEPA, 2012c), the IEPA Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route (35 IAC 742, Appendix B, Table E) (IEPA, 2007), and the IEPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables) (IEPA, 2023). Where screening values were available from multiple sources from the ones mentioned above, screening values from Part 620 were used preferentially over the screening values found in TACO and Chemicals not in TACO sources. All three sources are checked on a quarterly basis to ensure the most current published screening values are being used. The results of this screening comparison are presented in **Table 3**.

Samples from 13 groundwater monitoring wells in the Interim Groundwater Monitoring Program (four in the Village, nine in the WRR along the West Fenceline) exhibited exceedances of the groundwater screening criteria for one or more of the following constituents:

- Benzene
- Ethylbenzene
- Naphthalene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- 2-Methylnaphthalene
- Phenol

Figure 5 presents concentrations of analytes that exceeded the indicated screening criteria for 1Q25. These findings are generally consistent with the results from previous sampling events, with the exception of benzene and phenol in MW-25, discussed in further detail below.

Figure 6 presents a plan view depiction of benzene analytical results in groundwater across the site. **Figure 7** presents a cross-section along Chaffer Avenue with a vertical distribution of the benzene concentrations in groundwater superimposed. **Figure 8** presents a cross-section across the Roxana Public Works Yard with a vertical distribution of the benzene analytical results in groundwater superimposed.

Appendix D-1 contains benzene concentration trend plots for selected monitoring wells⁴ to represent groundwater conditions in the 4th Street area and Public Works Yard area, respectively:

- 4th Street area – MW-22, ROST-4 PZ(C), P-59, and T-12
- Public Works Yard area – MW-7, MW-8, MW-25, and P-57

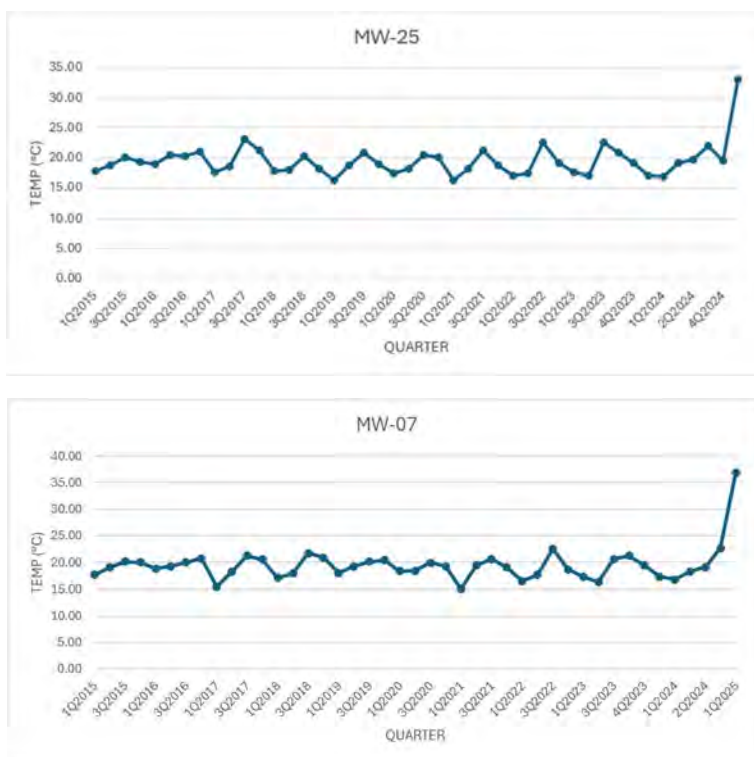
³ IEPA requested that the Interim Groundwater Monitoring Program be consistent with the RCRA Part B Permit.

⁴ In a meeting with IEPA on April 5, 2018, the AECOM presentation included benzene concentration trend plots pertinent to GMZ discussion. IEPA verbally requested that benzene concentration trend plots for selected monitoring wells be incorporated into Roxana Program quarterly reports.

Beginning in 2Q21, a Mann-Kendall analysis of the analytical benzene results from the eight sampled groundwater wells in the 4th Street and Public Works Yard areas was conducted. The Mann-Kendall analysis was performed using GWSDAT (GroundWater Spatio-Temporal Data Analysis Tool). As of 1Q25, statistically significant downward trends were displayed for seven wells, no wells displayed statistically significant increasing trends, and the remaining well displayed a trend that is not statistically significant⁵. Results from the Mann-Kendall analysis conducted via GWSDAT are presented in **Appendix D-2**.

Monitoring Well MW-25

The benzene and phenol concentrations in MW-25 during 1Q25 were outside the historical range for monitoring well MW-25. Benzene and phenol results were confirmed by the lab and in a duplicate sample. The 1Q25 sampling event was performed approximately three months after operation of the SEE system ceased (10/21/2024). Temperature readings from MW-25 during the 1Q25 sampling event were elevated. Groundwater flow direction in the vicinity of the former PWY during 1Q25 is to the northeast, towards the WRR (**Figures 3a and 3b**). This information indicates that, in the absence of SEE system operation, groundwater at the former PWY continues to be captured by the existing WRR groundwater production system. The groundwater monitoring wells surrounding MW-25 (MW-5, MW-3 and MW-4) did not indicate elevated analytical results nor elevated temperature readings. Well MW-7 which is located within the footprint of the SEE system, indicated elevated temperature readings, but the elevated benzene analytical results at this location were comparable to historic results at this location. Neither the soil vapor monitoring points (SVPs) along 8th Street nor the vapor monitoring probes (VMPs) in the vicinity of MW-25 indicate elevated analytical results after the SEE system ceased operations. To ensure that any hydrocarbon vapors present above the water table were captured in the absence of SEE system operation, the existing soil vapor extraction (SVE) wells along the northern boundary of the former PWY (SVE-20, -21, -22) were brought back online immediately following SEE shutdown.



⁵ Results are significant if p value is equal to or below 0.05.

4 Summary and Conclusions

AECOM conducted the 1Q25 Interim Groundwater Monitoring Program, and the following conclusions are based on the data and information collected as part of this program:

- During 1Q25, groundwater level data indicate groundwater flow from the Investigation Area is moving toward groundwater production wells at the WRR. Groundwater levels in most wells in the vicinity of the West Fenceline have fallen approximately 0.25 foot since the 4Q24 gauging event. Groundwater levels in most wells in the central and eastern portion of the WRR have risen approximately 0.1 foot since the 4Q24 gauging event.
- Measured LNAPL thickness and the number of locations where it was observed during the 1Q25 quarterly gauging events was generally comparable to that observed in 4Q24. LNAPL has been detected in P-66 since 2Q22, LNAPL was previously last detected in P-66 during 4Q12. WRB/P66 notified IEMA on November 22, 2020 of a release of gasoline from a Buckeye Partners (Wood River Pipeline, LLC) pipeline located to the south of well P-58 along the WRR West Fenceline, and to the north of well P-66 on WRR Main Property. Wells P-58 and P-66 will be gauged and sampled in the absence of LNAPL during the 2Q25 Roxana Interim Groundwater Monitoring program.
- The analytical results from 1Q25 are generally consistent with the results from previous sampling event, with the exception of:
 - o Benzene and phenol outside of historical range in MW-25; benzene and phenol results were confirmed by the laboratory and in a duplicate sample. Groundwater flow direction in the vicinity of the former PWY during 1Q25 is to the northeast, towards the WRR (Figures 3a and 3b). This information indicates that, in the absence of SEE system operation, groundwater at the former PWY continues to be captured by the existing WRR groundwater production system. Neither the soil vapor monitoring points (SVPs) along 8th Street nor the vapor monitoring probes (VMPs) in the vicinity of MW-25 indicate elevated analytical results after the SEE system ceased operations. Well MW-25 will be sampled during the 2Q25 Roxana Interim Groundwater Monitoring program.
- Benzene concentration plots presented in **Appendix D-1** continue to show stable or decreasing trends.
- GWSDAT charts presented in **Appendix D-2** show statistically significant downward trends displayed for seven wells, no wells displayed statistically significant increasing trends, and the remaining well displayed a trend that is not statistically significant.
- The data and observations presented in this groundwater monitoring report provide further support for the conclusions and requested course of action presented in the proposed Groundwater Management Zone (GMZ) (AECOM, 2016b).

4.1 Limitations

Shell shall have the right to make and retain copies of and use all Work Product provided. However, such use shall be limited to the particular Site and project for which the Work Product is provided. Shell and its agents may release the Work Product to third parties at its sole risk and discretion. This report is based on data, site conditions, and other information that is generally applicable as of the date of this report, and the conclusions and recommendations herein are therefore applicable only to that time frame and to the report in its entirety.

Data may have been provided to AECOM by Shell or a third party and used in preparing this report. AECOM has relied on this information as furnished, and is neither responsible for, nor has confirmed the accuracy of this information.

5 References

AECOM, 2016 (AECOM, 2016b); *Proposed Groundwater Management Zone*. Prepared for Shell Oil Products US (Shell), dated May 19, 2016.

AECOM, 2022 (AECOM, 2022a); *Public Works Yard (PWY) Steam Enhanced Extraction (SEE) Workplan*. Prepared for Shell Oil Products US (Shell), dated January 31, 2022.

AECOM, 2024 (AECOM, 2024); *Shell GESS Health and Safety Plan: Rand Avenue, Roxana / Route 111, and WRR Investigation and Remediation, and Site 15 Inspection*. Prepared for Shell Oil Products US (Shell), dated January 17, 2025.

Illinois Environmental Protection Agency, 2007 (IEPA, 2007); 35 Illinois Administrative Code 742, Tiered Approach to Corrective Action Objectives. Appendix B. *Table E – Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route*. Effective February 23, 2007; accessed on March 25, 2025.

Illinois Environmental Protection Agency, 2010 (IEPA, 2010a); *Letter providing approval with comments the SOPUS 2010 Delineation Report*. Issued to Shell Oil Products US (Shell), dated August 5, 2010.

Illinois Environmental Protection Agency, 2012 (IEPA, 2012c); 35 Illinois Administrative Code 620, Subpart D, Section 410. *Groundwater Quality Standards for Class 1: Potable Resource Groundwater (Part 620)*. Effective October 5, 2012; accessed on March 25, 2025.

Illinois Environmental Protection Agency, 2022 (IEPA, 2022); *Public Works Yard (PWY) Steam Enhanced Extraction (SEE) Workplan Approval with Conditions*. Issued to Shell Oil Products US (Shell), dated August 22, 2022.

Illinois Environmental Protection Agency Toxicity Assessment Unit; *Chemicals Not in TACO, Tier 1 Tables*, January 2023 (IEPA, 2023). <http://www.epa.state.il.us/land/taco/chemicals-not-in-taco-tier-1-tables.html>. Accessed on March 25, 2025.

U.S. Environmental Protection Agency, November 2020 (USEPA, 2020); *National Functional Guidelines for Organic Superfund Methods Data Review*.

Tables

TABLE 1
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
MW-01											
2Q24	442.83	4/1/2024	NE	42.63	NA	NA	NA	400.20	394.03 - 384.03 (48.80 - 58.80)	0.0	*
3Q24		7/1/2024	NE	43.01	NA	NA	NA	399.82		0.0	*
4Q24		10/2/2024	NE	42.80	NA	NA	NA	400.03		0.0	*
1Q25	442.84	1/17/2025	NE	42.83	NA	NA	NA	400.01	394.04 - 384.04 (48.80 - 58.80)	0.0	*
MW-02											
2Q24	443.93	4/1/2024	NE	43.83	NA	NA	NA	400.10	394.06 - 384.06 (49.87 - 59.87)	149.6	*
3Q24		7/1/2024	NE	44.44	NA	NA	NA	399.49		220.8	*
4Q24		10/1/2024	NE	44.20	NA	NA	NA	399.73		173.2	*
1Q25	443.95	1/13/2025	NE	44.35	NA	NA	NA	399.60	394.06 - 384.06 (49.87 - 59.87)	87.1	*
MW-03											
2Q24	430.23	4/1/2024	NE	29.97	NA	NA	NA	400.26	395.56 - 385.56 (34.67 - 44.67)	0.0	*
3Q24		7/1/2024	NE	29.74	NA	NA	NA	400.49		0.0	*
4Q24		10/2/2024	NE	29.68	NA	NA	NA	400.55		0.0	*
1Q25	430.25	1/14/2025	NE	30.15	NA	NA	NA	400.10	395.58 - 385.58 (34.67 - 44.67)	0.0	*
MW-04											
2Q24	441.31	4/1/2024	NE	41.08	NA	NA	NA	400.23	396.25 - 386.25 (45.06 - 55.06)	0.0	*
3Q24		7/1/2024	NE	41.26	NA	NA	NA	400.05		0.0	*
4Q24		10/2/2024	NE	41.00	NA	NA	NA	400.31		0.0	*
1Q25	441.34	1/14/2025	NE	41.33	NA	NA	NA	400.01	396.28 - 386.28 (45.06 - 55.06)	0.0	*
MW-05											
2Q24	429.98	4/1/2024	NE	29.60	NA	NA	NA	400.38	396.01 - 386.01 (33.97 - 43.97)	0.0	*
3Q24		7/1/2024	NE	29.42	NA	NA	NA	400.56		0.0	*
4Q24		10/2/2024	NE	29.28	NA	NA	NA	400.70		0.0	*
1Q25	429.99	1/14/2025	NE	29.73	NA	NA	NA	400.26	396.02 - 386.02 (33.97 - 43.97)	0.0	*
MW-06A											
2Q24	432.33	4/1/2024	NE	31.73	NA	NA	NA	400.60	398.48 - 388.48 (33.85 - 43.85)	0.0	*
3Q24		7/1/2024	NE	31.52	NA	NA	NA	400.81		0.0	*
4Q24		10/2/2024	NE	31.28	NA	NA	NA	401.05		0.0	*
1Q25	432.36	1/15/2025	NE	31.63	NA	NA	NA	400.73	398.51 - 388.51 (33.85 - 43.85)	0.0	*
MW-06B											
2Q24	432.37	4/1/2024	NE	31.76	NA	NA	NA	400.61	368.32 - 363.32 (64.05 - 69.05)	0.0	*
3Q24		7/1/2024	NE	31.58	NA	NA	NA	400.79		0.0	*
4Q24		10/2/2024	NE	31.33	NA	NA	NA	401.04		0.0	*
1Q25	432.39	1/15/2025	NE	31.67	NA	NA	NA	400.72	368.84 - 363.84 (63.55 - 68.55)	0.0	*
MW-06C											
2Q24	432.18	4/1/2024	NE	31.55	NA	NA	NA	400.63	347.23 - 342.23 (84.95 - 89.95)	0.0	*
3Q24		7/1/2024	NE	31.37	NA	NA	NA	400.81		0.0	*
4Q24		10/2/2024	NE	31.10	NA	NA	NA	401.08		0.0	*
1Q25	432.20	1/15/2025	NE	31.46	NA	NA	NA	400.74	347.93 - 342.93 (84.27 - 89.27)	0.0	*
MW-06D											
2Q24	432.06	4/1/2024	NE	31.43	NA	NA	NA	400.63	327.34 - 322.34 (104.72 - 109.72)	0.0	*
3Q24		7/1/2024	NE	31.21	NA	NA	NA	400.85		0.0	*
4Q24		10/2/2024	NE	30.95	NA	NA	NA	401.11		0.0	*
1Q25	432.07	1/15/2025	NE	31.31	NA	NA	NA	400.76	327.90 - 322.90 (104.17 - 109.17)	0.0	*
MW-07											
2Q24	443.31	4/1/2024	NE	43.03	NA	NA	NA	400.28	400.39 - 390.39 (42.92 - 52.92)	0.0	
3Q24		7/1/2024	NE	43.20	NA	NA	NA	400.11		0.0	
4Q24		10/1/2024	NE	42.90	NA	NA	NA	400.41		0.1	*
1Q25	443.36	1/13/2025	NE	43.03	NA	NA	NA	400.33	400.44 - 390.44 (42.92 - 52.92)	141.5	
MW-09											
2Q24	445.28	4/1/2024	NE	44.77	NA	NA	NA	400.51	399.24 - 389.24 (46.04 - 56.04)	0.0	*
3Q24		7/1/2024	NE	44.91	NA	NA	NA	400.37		0.0	*
4Q24		10/1/2024	NE	44.85	NA	NA	NA	400.43		0.0	*
1Q25	445.30	1/14/2025	NE	45.27	NA	NA	NA	400.03	399.26 - 389.26 (46.04 - 56.04)	0.0	*
MW-10											
2Q24	445.06	4/1/2024	NE	44.68	NA	NA	NA	400.38	400.63 - 390.63 (44.43 - 54.43)	0.0	
3Q24		7/1/2024	NE	45.08	NA	NA	NA	399.98		0.0	
4Q24		10/1/2024	NE	44.95	NA	NA	NA	400.11		0.0	
1Q25	445.07	1/13/2025	NE	45.16	NA	NA	NA	399.91	401.18 - 391.18 (43.89 - 53.89)	0.0	

TABLE 1
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WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
MW-11											
2Q24	442.38	4/2/2024	NE	42.33	NA	NA	NA	400.05	400.72 - 390.72 (41.66 - 51.66)	0.0	
3Q24		7/1/2024	NE	42.78	NA	NA	NA	399.60		0.0	
4Q24		10/1/2024	NE	42.65	NA	NA	NA	399.73		0.0	
1Q25	442.65	1/14/2025	NE	43.10	NA	NA	NA	399.55	401.15 - 391.15 (41.50 - 51.50)	0.0	
MW-12											
2Q24	442.64	4/1/2024	NE	42.41	NA	NA	NA	400.23	400.72 - 390.72 (41.92 - 51.92)	0.0	
3Q24		7/1/2024	NE	42.71	NA	NA	NA	399.93		0.0	
4Q24		10/2/2024	NE	42.58	NA	NA	NA	400.06		0.0	
1Q25		1/13/2025	NE	42.97	NA	NA	NA	399.67	401.23 - 391.23 (41.41 - 51.41)	0.0	
MW-13											
2Q24	430.30	4/2/2024	NE	29.53	NA	NA	NA	400.77	405.50 - 395.50 (24.80 - 34.80)	0.0	
3Q24		7/2/2024	NE	28.92	NA	NA	NA	401.38		0.0	
4Q24		10/2/2024	NE	28.88	NA	NA	NA	401.42		0.0	
1Q25		1/15/2025	NE	29.53	NA	NA	NA	400.77		0.0	
MW-14											
2Q24	434.61	4/3/2024	NE	33.85	NA	NA	NA	400.76	401.19 - 391.19 (33.42 - 43.42)	19.0	
3Q24		7/2/2024	NE	33.64	NA	NA	NA	400.97		14.5	
4Q24		10/3/2024	NE	33.40	NA	NA	NA	401.21		59.0	*
1Q25		1/15/2025	NE	33.73	NA	NA	NA	400.88		18.3	
MW-16											
2Q24	443.60	4/1/2024	NE	43.42	NA	NA	NA	400.18	406.10 - 396.10 (37.50 - 47.50)	0.0	
3Q24		7/1/2024	NE	44.22	NA	NA	NA	399.38		0.0	
4Q24		10/1/2024	NE	44.00	NA	NA	NA	399.60		0.0	
1Q25		443.58	1/14/2025	NE	44.27	NA	NA	NA	399.31	406.08 - 396.08 (37.50 - 47.50)	0.0
MW-17											
2Q24	441.78	4/1/2024	NE	41.65	NA	NA	NA	400.13	407.49 - 392.49 (34.29 - 49.29)	0.0	
3Q24		7/1/2024	NE	43.04	NA	NA	NA	398.74		0.0	
4Q24		10/1/2024	NE	42.98	NA	NA	NA	398.80		0.0	
1Q25	441.76	1/13/2025	NE	43.28	NA	NA	NA	398.48	407.47 - 392.47 (34.29 - 49.29)	0.0	
MW-18											
2Q24	442.24	4/1/2024	NE	42.18	NA	NA	NA	400.06	407.32 - 392.32 (34.92 - 49.92)	0.0	
3Q24		7/1/2024	NE	43.68	NA	NA	NA	398.56		0.0	
4Q24		10/1/2024	NE	43.48	NA	NA	NA	398.76		0.0	
1Q25		1/13/2025	NE	43.85	NA	NA	NA	398.39		0.0	
MW-19											
2Q24	442.98	4/1/2024	NE	42.93	NA	NA	NA	400.05	406.64 - 391.64 (36.34 - 51.34)	0.0	
3Q24		7/1/2024	NE	44.18	NA	NA	NA	398.80		0.0	
4Q24		10/1/2024	NE	44.00	NA	NA	NA	398.98		0.0	
1Q25	442.97	1/13/2025	NE	44.24	NA	NA	NA	398.73	406.63 - 391.63 (36.34 - 51.34)	0.0	
MW-20											
2Q24	443.86	4/1/2024	NE	43.83	NA	NA	NA	400.03	407.98 - 392.98 (35.88 - 50.88)	0.0	
3Q24		7/1/2024	NE	44.75	NA	NA	NA	399.11		0.0	
4Q24		10/1/2024	NE	44.50	NA	NA	NA	399.36		0.3	
1Q25	443.85	1/13/2025	NE	44.68	NA	NA	NA	399.17	407.97 - 392.97 (35.88 - 50.88)	0.0	
MW-21											
2Q24	444.01	4/1/2024	NE	43.85	NA	NA	NA	400.16	409.00 - 394.00 (35.01 - 50.01)	0.0	
3Q24		7/1/2024	NE	44.37	NA	NA	NA	399.64		0.0	
4Q24		10/1/2024	NE	44.03	NA	NA	NA	399.98		0.0	
1Q25	444.02	1/13/2025	NE	44.18	NA	NA	NA	399.84	409.01 - 394.01 (35.01 - 50.01)	0.0	
MW-22											
2Q24	442.38	4/1/2024	NE	42.15	NA	NA	NA	400.23	403.95 - 393.95 (38.43 - 48.43)	0.0	
3Q24		7/1/2024	NE	43.01	NA	NA	NA	399.37		0.0	
4Q24		10/1/2024	NE	42.85	NA	NA	NA	399.53		0.0	
1Q25	442.39	1/14/2025	NE	43.14	NA	NA	NA	399.25	404.16 - 394.16 (38.23 - 48.23)	0.0	
MW-23											
2Q24	431.57	4/1/2024	NE	31.17	NA	NA	NA	400.40	402.55 - 392.55 (29.02 - 39.02)	0.0	
3Q24		7/1/2024	NE	30.40	NA	NA	NA	401.17		0.0	
4Q24		10/2/2024	NE	30.50	NA	NA	NA	401.07		0.3	
1Q25	431.59	1/15/2025	NE	31.08	NA	NA	NA	400.51	402.57 - 392.57 (29.02 - 39.02)	1.2	

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WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
MW-24											
2Q24	443.65	4/1/2024	NE	43.38	NA	NA	NA	400.27	404.04 - 394.04 (39.61 - 49.61)	0.0	
3Q24		7/1/2024	NE	43.70	NA	NA	NA	399.95		0.0	
4Q24		10/1/2024	NE	43.58	NA	NA	NA	400.07		0.0	
1Q25		1/14/2025	NE	44.03	NA	NA	NA	399.62		0.0	
MW-25											
2Q24	438.53	4/1/2024	NE	38.22	NA	NA	NA	400.31	402.94 - 392.94 (35.59 - 45.59)	0.0	
3Q24		7/1/2024	NE	38.35	NA	NA	NA	400.18		0.0	
4Q24		10/2/2024	NE	38.03	NA	NA	NA	400.50		0.2	
1Q25	438.56	1/14/2025	NE	38.35	NA	NA	NA	400.21	402.97 - 392.97 (35.59 - 45.59)	217.4	
MW-26											
2Q24	441.23	4/1/2024	NE	40.98	NA	NA	NA	400.25	403.08 - 393.08 (38.15 - 48.15)	0.0	
3Q24		7/1/2024	NE	41.30	NA	NA	NA	399.93		0.0	
4Q24		10/2/2024	NE	41.05	NA	NA	NA	400.18		0.0	
1Q25		1/15/2025	NM	NM	NM	NM	NM	NM		NM	Inaccess ble due to parked car.
MW-27											
2Q24	443.60	4/1/2024	NE	42.55	NA	NA	NA	401.05	403.81 - 393.81 (39.79 - 49.79)	0.0	
3Q24		7/1/2024	NE	43.26	NA	NA	NA	400.34		0.0	
4Q24		10/1/2024	NE	42.63	NA	NA	NA	400.97		0.0	
1Q25	443.61	1/14/2025	NE	43.15	NA	NA	NA	400.46	403.82 - 393.82 (39.79 - 49.79)	0.0	
MW-28											
2Q24	443.55	4/1/2024	NE	41.57	NA	NA	NA	401.98	409.94 - 399.94 (33.61 - 43.61)	0.0	
3Q24		7/1/2024	NE	42.31	NA	NA	NA	401.24		0.0	
4Q24		10/1/2024	NE	41.83	NA	NA	NA	401.72		0.0	
1Q25	443.56	1/13/2025	NE	41.93	NA	NA	NA	401.63	409.95 - 399.95 (33.61 - 43.61)	0.0	
P-01											
2Q24	442.98	4/10/2024	NE	37.92	NA	NA	NA	405.06	380.76 - 375.76 (62.22 - 67.22)	0.0	*
3Q24		7/2/2024	NE	36.93	NA	NA	NA	406.05		0.0	*
4Q24		10/3/2024	NE	36.51	NA	NA	NA	406.47		0.0	*
1Q25	443.04	1/14/2025	NE	36.40	NA	NA	NA	406.64	380.82 - 375.82 (62.22 - 67.22)	0.0	*
P-4U											
2Q24	442.74	4/3/2024	NE	39.30	NA	NA	NA	403.44	361.59 - 359.59 (81.15 - 83.15)	0.0	*
3Q24		7/2/2024	NE	38.20	NA	NA	NA	404.54		0.0	*
4Q24		10/3/2024	NE	37.86	NA	NA	NA	404.88		0.0	*
1Q25	442.77	1/14/2025	NE	37.64	NA	NA	NA	405.13	361.62 - 359.62 (81.15 - 83.15)	0.0	*
P-5L											
2Q24	444.01	4/3/2024	NE	39.15	NA	NA	NA	404.86	303.61 - 301.61 (140.40 - 142.40)	0.0	*
3Q24		7/2/2024	NE	38.10	NA	NA	NA	405.91		0.0	*
4Q24		10/3/2024	NE	38.12	NA	NA	NA	405.89		0.0	*
1Q25	444.05	1/14/2025	NE	37.32	NA	NA	NA	406.73	303.65 - 301.65 (140.40 - 142.40)	0.0	*
P-5U											
2Q24	444.42	4/3/2024	NE	40.32	NA	NA	NA	404.10	313.79 - 311.79 (130.63 - 132.63)	0.0	*
3Q24		7/2/2024	NE	39.38	NA	NA	NA	405.04		0.0	*
4Q24		10/3/2024	NE	39.17	NA	NA	NA	405.25		0.0	*
1Q25	444.45	1/14/2025	NE	38.60	NA	NA	NA	405.85	313.82 - 311.82 (130.63 - 132.63)	0.0	*
P-6U											
2Q24	443.63	4/3/2024	NE	39.95	NA	NA	NA	403.68	363.13 - 361.13 (80.50 - 82.50)	0.0	*
3Q24		7/2/2024	NE	38.88	NA	NA	NA	404.75		0.0	*
4Q24		10/3/2024	NE	38.77	NA	NA	NA	404.86		0.0	*
1Q25	443.64	1/14/2025	NE	38.21	NA	NA	NA	405.43	363.14 - 361.14 (80.50 - 82.50)	0.0	*
P-7U											
2Q24	444.08	4/3/2024	NE	40.18	NA	NA	NA	403.90	383.00 - 381.00 (61.08 - 63.08)	0.0	*
3Q24		7/2/2024	NE	39.10	NA	NA	NA	404.98		0.0	*
4Q24		10/3/2024	NE	39.10	NA	NA	NA	404.98		0.0	*
1Q25	444.09	1/14/2025	NE	38.44	NA	NA	NA	405.65	383.01 - 381.01 (61.08 - 63.08)	0.0	*
P-8U											
2Q24	442.07	4/3/2024	NE	40.18	NA	NA	NA	401.89	382.72 - 380.72 (59.35 - 61.35)	0.0	*
3Q24		7/2/2024	NE	39.20	NA	NA	NA	402.87		0.0	*
4Q24		10/3/2024	NE	38.95	NA	NA	NA	403.12		0.0	*
1Q25	442.11	1/14/2025	NE	38.57	NA	NA	NA	403.54	382.76 - 380.76 (59.35 - 61.35)	0.0	*

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P-9U												
2Q24	445.20	4/2/2024	NE	44.61	NA	NA	NA	400.59	344.61 - 342.61 (100.59 - 102.59)	0.0	*	
3Q24		7/2/2024	NE	43.75	NA	NA	NA	401.45		0.0	*	
4Q24		10/3/2024	NE	43.58	NA	NA	NA	401.62		0.0	*	
1Q25	445.21	1/14/2025	NE	43.07	NA	NA	NA	402.14	344.62- 342.62 (100.59 - 102.59)	0.0	*	
P-11L												
2Q24	442.76	4/3/2024	NE	41.08	NA	NA	NA	401.68	332.55 - 330.55 (110.21 - 112.21)	0.0	*	
3Q24		7/2/2024	NE	40.05	NA	NA	NA	402.71		0.0	*	
4Q24		10/3/2024	NE	39.52	NA	NA	NA	403.24		0.0	*	
1Q25	442.81	1/14/2025	NE	39.51	NA	NA	NA	403.30	332.60 - 330.60 (110.21 - 112.21)	0.0	*	
P-11U												
2Q24	443.38	4/3/2024	NE	41.68	NA	NA	NA	401.70	343.46 - 341.46 (99.92 - 101.92)	0.0	*	
3Q24		7/2/2024	NE	40.63	NA	NA	NA	402.75		0.0	*	
4Q24		10/3/2024	NE	40.13	NA	NA	NA	403.25		0.0	*	
1Q25	443.42	1/14/2025	NE	40.12	NA	NA	NA	403.30	343.50 - 341.50 (99.92 - 101.92)	0.0	*	
P-14												
2Q24	443.01	4/10/2024	NE	38.02	NA	NA	NA	404.99	395.54 - 385.54 (47.47 - 57.47)	0.0	*	
3Q24		7/2/2024	NE	37.05	NA	NA	NA	405.96		0.7	*	
4Q24		10/3/2024	NE	36.62	NA	NA	NA	406.39		0.0	*	
1Q25	442.99	1/14/2025	NE	36.41	NA	NA	NA	406.58	395.60 - 385.60 (47.39 - 57.39)	0.0	*	
P-15												
2Q24	443.88	4/3/2024	NE	39.88	NA	NA	NA	404.00	398.43 - 388.43 (45.45 - 55.45)	0.0	*	
3Q24		7/2/2024	NE	38.80	NA	NA	NA	405.08		0.0	*	
4Q24		10/3/2024	NE	38.50	NA	NA	NA	405.38		0.0	*	
1Q25	443.65	1/14/2025	NE	38.26	NA	NA	NA	405.39	398.20 - 388.20 (45.45 - 55.45)	0.0	*	
P-16												
2Q24	442.84	4/3/2024	NE	38.85	NA	NA	NA	403.99	397.10 - 387.10 (45.74 - 55.74)	0.0	*	
3Q24		7/2/2024	NE	37.55	NA	NA	NA	405.29		0.0	*	
4Q24		10/3/2024	NE	37.55	NA	NA	NA	405.29		0.0	*	
1Q25	442.60	1/14/2025	NE	36.88	NA	NA	NA	405.72	396.86 - 386.86 (45.74 - 55.74)	0.0	*	
P-43												
2Q24	444.62	4/3/2024	NE	42.55	NA	NA	NA	402.07	381.06 - 371.06 (63.56 - 73.56)	0.0	*	
3Q24		7/2/2024	NE	41.50	NA	NA	NA	403.12		0.0	*	
4Q24		10/3/2024	NE	41.01	NA	NA	NA	403.61		0.0	*	
1Q25	444.40	1/14/2025	NE	41.03	NA	NA	NA	403.37	380.84 - 370.84 (63.56 - 73.56)	0.0	*	
P-53												
2Q24	446.57	4/1/2024	NE	44.83	NA	NA	NA	401.74	406.26 - 381.26 (40.31 - 65.31)	0.0		
3Q24		7/1/2024	NE	44.84	NA	NA	NA	401.73		0.0		
4Q24		10/1/2024	NE	44.83	NA	NA	NA	401.74		0.0		
1Q25	446.58	1/15/2025	NE	44.87	NA	NA	NA	401.71	406.27 - 381.27 (40.31 - 65.31)	0.0		
P-54												
2Q24	442.52	4/1/2024	NE	42.22	NA	NA	NA	400.30	404.52 - 379.52 (38.00 - 63.00)	0.0		
3Q24		7/1/2024	NE	42.29	NA	NA	NA	400.23		0.0		
4Q24		10/1/2024	NE	42.20	NA	NA	NA	400.32		0.0		
1Q25	442.53	1/14/2025	NE	42.75	NA	NA	NA	399.78	404.53 - 379.53 (38.00 - 63.00)	0.0		
P-55R												
2Q24	444.01	4/1/2024		41.74	41.96	402.05	402.27	0.22	402.23	403.58 - 393.58 (40.43 - 50.43)	58.4	
3Q24		7/1/2024		42.10	42.15	401.86	401.91	0.05	401.90		91.0	
4Q24		10/1/2024		41.61	41.90	402.11	402.40	0.29	402.34		0.5	
1Q25		1/13/2025		41.77	42.08	401.93	402.24	0.31	402.18		121.6	
P-56												
2Q24	446.32	4/1/2024	NE	46.26	NA	NA	NA	400.06	405.50 - 380.50 (40.82 - 65.82)	0.4		
3Q24		7/1/2024	NE	47.30	NA	NA	NA	399.02		0.0		
4Q24		10/1/2024	NE	46.96	NA	NA	NA	399.36		0.0		
1Q25	446.33	1/13/2025	NE	47.13	NA	NA	NA	399.20	405.51 - 380.51 (40.82 - 65.82)	2.0		
P-57												
2Q24	447.15	4/1/2024	NE	46.96	NA	NA	NA	400.19	402.96 - 392.96 (44.19 - 54.19)	0.2		
3Q24		7/1/2024	NE	47.60	NA	NA	NA	399.55		0.0		
4Q24		10/1/2024	NE	47.12	NA	NA	NA	400.03		0.0		
1Q25	447.17	1/13/2025	NE	47.29	NA	NA	NA	399.88	402.98 - 392.98 (44.19 - 54.19)	0.0		

TABLE 1
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
P-58											
2Q24	445.16	4/1/2024	NE	44.83	NA	NA	NA	400.33	404.95 - 379.95 (40.21 - 65.21)	0.0	
3Q24		7/1/2024	NE	45.31	NA	NA	NA	399.85		0.0	
4Q24		10/1/2024	NE	44.76	NA	NA	NA	400.40		0.0	
1Q25		1/13/2025	NE	44.89	NA	NA	NA	400.27		0.0	
P-59											
2Q24	447.07	4/1/2024	NE	47.04	NA	NA	NA	400.03	399.16 - 374.16 (47.91 - 72.91)	82.1	*
3Q24		7/1/2024	NE	48.38	NA	NA	NA	398.69		0.0	
4Q24		10/1/2024	NE	48.08	NA	NA	NA	398.99		0.0	
1Q25	447.09	1/13/2025	NE	48.38	NA	NA	NA	398.71	399.18 - 374.18 (47.91 - 72.91)	0.0	
P-60											
2Q24	446.88	4/1/2024	NE	46.75	NA	NA	NA	400.13	402.23 - 382.23 (44.65 - 64.65)	31.4	
3Q24		7/1/2024	NE	48.03	NA	NA	NA	398.85		3.1	
4Q24		10/1/2024	47.77	47.78	399.10	399.11	0.01	399.11		96.5	
1Q25		1/13/2025	NE	48.47	NA	NA	NA	398.41		188.1	
P-61											
2Q24	444.66	4/2/2024	44.64	47.06	397.60	400.02	2.42	399.54	398.99 - 373.99 (45.68 - 70.68)	13.2	*
3Q24		7/1/2024	45.75	48.10	396.56	398.91	2.35	398.44		60.9	
4Q24		10/1/2024	45.58	47.24	397.42	399.08	1.66	398.75		119.4	
1Q25		444.70	1/13/2025	45.23	46.21	398.49	399.47	0.98	399.27	399.03 - 374.03 (45.68 - 70.68)	398.0
P-62											
2Q24	442.60	4/2/2024	42.56	43.74	398.86	400.04	1.18	399.80	401.13 - 376.13 (41.47 - 66.47)	132.6	
3Q24		7/1/2024	43.45	44.48	398.12	399.15	1.03	398.94		31.9	
4Q24		10/1/2024	43.21	43.71	398.89	399.39	0.50	399.29		0.0	
1Q25		442.62	1/13/2025	43.00	43.41	399.21	399.62	0.41	399.54	401.15 - 376.15 (41.47 - 66.47)	0.0
P-63											
2Q24	446.06	4/2/2024	NE	46.70	NA	NA	NA	399.36	398.77 - 373.77 (47.29 - 72.29)	36.3	*
3Q24		7/12/2024	46.77	46.78	399.28	399.29	0.01	399.29		5.3	*
4Q24		10/2/2024	46.39	46.40	399.66	399.67	0.01	399.67		13.1	*
1Q25	446.08	1/13/2025	46.23	46.25	399.83	399.85	0.02	399.85	398.79 - 373.79 (47.29 - 72.29)	11.3	*
P-64											
2Q24	446.78	4/3/2024	47.96	49.33	397.45	398.82	1.37	398.55	399.55 - 374.55 (47.23 - 72.23)	20.1	
3Q24		7/1/2024	47.68	48.15	398.63	399.10	0.47	399.01		72.4	
4Q24		10/1/2024	47.34	47.72	399.06	399.44	0.38	399.36		32.3	
1Q25		446.81	1/13/2025	47.10	47.42	399.39	399.71	0.32	399.65	399.58 - 374.58 (47.23 - 72.23)	169.7
P-65											
2Q24	444.77	4/1/2024	NE	45.45	NA	NA	NA	399.32	397.75 - 372.75 (47.02 - 72.02)	3.2	*
3Q24		7/1/2024	NE	45.40	NA	NA	NA	399.37		30.1	*
4Q24		10/2/2025	NE	44.76	NA	NA	NA	400.01		22.4	*
1Q25	444.81	1/13/2025	44.95	44.96	399.85	399.86	0.01	399.86	397.79 - 372.79 (47.02 - 72.02)	8.0	*
P-66											
2Q24	437.00	4/3/2024	36.50	37.07	399.93	400.50	0.57	400.39	402.28 - 377.28 (34.72 - 59.72)	2.5	
3Q24		7/2/2024	36.59	37.14	399.86	400.41	0.55	400.30		0.7	
4Q24		10/3/2024	36.33	36.65	400.35	400.67	0.32	400.61		0.0	
1Q25		437.01	1/15/2025	36.54	36.86	400.15	400.47	0.32	400.41	402.29 - 377.29 (34.72 - 59.72)	46.5
P-67											
2Q24	444.30	4/3/2024	NE	43.13	NA	NA	NA	401.17	402.33 - 377.33 (41.98 - 66.98)	0.0	
3Q24		7/2/2024	NE	42.93	NA	NA	NA	401.37		17.1	
4Q24		10/3/2024	NE	42.55	NA	NA	NA	401.75		0.0	
1Q25		1/15/2025	NE	42.82	NA	NA	NA	401.48		0.0	
P-68											
2Q24	445.38	4/1/2024	45.18	45.33	400.05	400.20	0.15	400.17	401.62 - 376.62 (43.76 - 68.76)	172.6	
3Q24		7/1/2024	46.45	46.62	398.76	398.93	0.17	398.90		3.4	
4Q24		10/2/2024	46.19	46.36	399.02	399.19	0.17	399.16		215.5	
1Q25	445.40	1/13/2025	46.57	46.81	398.59	398.83	0.24	398.78	401.64 - 376.64 (43.76 - 68.76)	236.6	
P-69											
2Q24	443.77	4/1/2024	NE	43.97	NA	NA	NA	399.80	402.95 - 377.95 (40.82 - 65.82)	0.0	
3Q24		7/1/2024	NE	46.03	NA	NA	NA	397.74		0.0	
4Q24		10/1/2024	NE	45.73	NA	NA	NA	398.04		0.0	
1Q25	443.90	1/13/2025	NE	46.12	NA	NA	NA	397.78	403.08 - 378.08 (40.82 - 65.82)	0.2	

TABLE 1
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
P-70											
2Q24	443.11	4/2/2024	NE	43.31	NA	NA	NA	399.80	398.44 - 373.44 (44.67 - 69.67)	113.2	*
3Q24		7/1/2024	44.33	45.65	397.46	398.78	1.32	398.52		207.1	*
4Q24		10/1/2024	44.11	45.03	398.08	399.00	0.92	398.82		277.9	*
1Q25		1/13/2025	44.05	44.37	398.74	399.06	0.32	399.00		154.6	*
P-71											
2Q24	445.09	4/1/2024	NE	44.52	NA	NA	NA	400.57	402.48 - 377.48 (42.61 - 67.61)	0.0	
3Q24		7/1/2024	NE	44.98	NA	NA	NA	400.11		6.5	
4Q24		10/2/2024	NE	44.51	NA	NA	NA	400.58		6.0	
1Q25	445.15	1/13/2025	NE	44.33	NA	NA	NA	400.82	402.54 - 377.54 (42.61 - 67.61)	0.0	
P-72											
2Q24	444.70	4/1/2024	NE	44.11	NA	NA	NA	400.59	398.93 - 373.93 (45.77 - 70.77)	2.3	*
3Q24		7/1/2024	NE	44.58	NA	NA	NA	400.12		3.7	*
4Q24		10/2/2024	NE	44.02	NA	NA	NA	400.68		12.2	*
1Q25	444.75	1/13/2025	NE	44.26	NA	NA	NA	400.49	398.98 - 373.98 (45.77 - 70.77)	6.2	*
P-73											
2Q24	444.02	4/2/2024	NE	43.89	NA	NA	NA	400.13	402.43 - 377.43 (41.60 - 66.60)	20.9	
3Q24		7/1/2024	NE	45.05	NA	NA	NA	398.97		1.9	
4Q24		10/2/2024	NE	44.14	NA	NA	NA	399.88		0.2	
1Q25		1/13/2025	NE	44.24	NA	NA	NA	399.79		402.44 - 377.44 (41.60 - 66.60)	0.0
P-74											
2Q24	442.93	4/1/2024	NE	43.00	NA	NA	NA	399.93	399.10 - 374.10 (43.83 - 68.83)	0.0	*
3Q24		7/1/2024	NE	44.68	NA	NA	NA	398.25		6.4	
4Q24		10/1/2024	NE	44.38	NA	NA	NA	398.55		76.4	
1Q25		1/13/2025	NE	44.64	NA	NA	NA	398.30		399.11 - 374.11 (43.83 - 68.83)	170.7
P-75											
2Q24	446.68	4/3/2024	NE	46.38	NA	NA	NA	400.30	403.55 - 378.55 (43.13 - 68.13)	0.0	
3Q24		7/2/2024	NE	46.67	NA	NA	NA	400.01		0.0	
4Q24		10/3/2024	NE	46.20	NA	NA	NA	400.48		1.2	
1Q25		1/15/2025	NE	46.37	NA	NA	NA	400.31		0.0	
P-82A											
2Q24	434.94	4/2/2024	NE	31.20	NA	NA	NA	403.74	401.73 - 386.73 (33.21 - 48.21)	0.0	*
3Q24		7/1/2024	NE	30.49	NA	NA	NA	404.45		0.0	*
4Q24		10/3/2024	NE	30.09	NA	NA	NA	404.85		0.0	*
1Q25		1/15/2025	NE	30.57	NA	NA	NA	404.36		401.72 - 386.72 (33.21 - 48.21)	0.6
P-82B											
2Q24	434.68	4/2/2024	NE	30.93	NA	NA	NA	403.75	371.88 - 369.88 (62.80 - 64.80)	0.0	*
3Q24		7/1/2024	NE	30.20	NA	NA	NA	404.48		0.0	*
4Q24		10/3/2024	NE	29.82	NA	NA	NA	404.86		0.0	*
1Q25		1/15/2025	NE	30.28	NA	NA	NA	404.40		0.3	*
P-82C											
2Q24	434.41	4/2/2024	NE	30.85	NA	NA	NA	403.56	351.64 - 349.64 (82.77 - 84.77)	0.0	*
3Q24		7/1/2024	NE	29.91	NA	NA	NA	404.50		0.0	*
4Q24		10/3/2024	NE	29.52	NA	NA	NA	404.89		0.0	*
1Q25		1/15/2025	NE	30.00	NA	NA	NA	404.44		351.67 - 349.67 (82.77 - 84.77)	0.0
P-82D											
2Q24	435.09	4/2/2024	NE	31.40	NA	NA	NA	403.69	323.55 - 321.55 (111.54 - 113.54)	0.0	*
3Q24		7/1/2024	NE	30.66	NA	NA	NA	404.43		0.0	*
4Q24		10/3/2024	NE	30.28	NA	NA	NA	404.81		0.0	*
1Q25		1/15/2025	NE	30.74	NA	NA	NA	404.34		323.54 - 321.54 (111.54 - 113.54)	0.0
P-83A											
2Q24	445.54	4/2/2024	NE	45.44	NA	NA	NA	400.10	398.14 - 383.14 (47.40 - 62.40)	0.0	*
3Q24		7/2/2024	NE	45.00	NA	NA	NA	400.54		0.0	*
4Q24		10/3/2024	NE	45.00	NA	NA	NA	400.54		0.0	*
1Q25		1/13/2025	NE	44.54	NA	NA	NA	401.03		398.17 - 383.17 (47.40 - 62.40)	0.0
P-83B											
2Q24	445.77	4/2/2024	NE	45.71	NA	NA	NA	400.06	371.97 - 369.97 (73.80 - 75.80)	0.0	*
3Q24		7/2/2024	NE	45.28	NA	NA	NA	400.49		0.0	*
4Q24		10/3/2024	NE	45.28	NA	NA	NA	400.51		0.0	*
1Q25		1/13/2025	NE	44.77	NA	NA	NA	401.04		372.01 - 370.01 (73.80 - 75.80)	0.0

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WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
P-83C											
2Q24	445.95	4/2/2024	NE	45.83	NA	NA	NA	400.12	353.56 - 351.56 (92.39 - 94.39)	0.0	*
3Q24		7/2/2024	NE	45.43	NA	NA	NA	400.52		0.0	*
4Q24		10/3/2024	NE	45.41	NA	NA	NA	400.54		0.0	*
1Q25	445.98	1/13/2025	NE	44.94	NA	NA	NA	401.04	353.59 - 351.59 (92.39 - 94.39)	0.0	*
P-83D											
2Q24	445.86	4/2/2024	NE	46.81	NA	NA	NA	399.05	312.06 - 310.06 (133.80 - 135.80)	0.0	*
3Q24		7/2/2024	NE	45.35	NA	NA	NA	400.51		0.0	*
4Q24		10/3/2024	NE	45.34	NA	NA	NA	400.52		0.0	*
1Q25	445.90	1/13/2025	NE	44.88	NA	NA	NA	401.02	312.10 - 310.10 (133.80 - 135.80)	0.0	*
P-84A											
2Q24	446.63	4/3/2024	NE	45.78	NA	NA	NA	400.85	397.71 - 382.71 (48.92 - 63.92)	0.0	*
3Q24		7/2/2024	NE	45.64	NA	NA	NA	400.99		0.0	*
4Q24		10/2/2024	NE	45.60	NA	NA	NA	401.03		0.0	*
1Q25	446.65	1/14/2025	NE	45.55	NA	NA	NA	401.10	398.15 - 383.15 (48.50 - 63.50)	0.0	*
P-84B											
2Q24	446.35	4/3/2024	NE	45.40	NA	NA	NA	400.95	372.85 - 370.85 (73.50 - 75.50)	0.0	*
3Q24		7/2/2024	NE	45.38	NA	NA	NA	400.97		0.0	*
4Q24		10/2/2024	NE	45.35	NA	NA	NA	401.00		0.4	*
1Q25	446.36	1/14/2025	NE	45.28	NA	NA	NA	401.08	372.86 - 370.86 (73.50 - 75.50)	0.0	*
P-84C											
2Q24	446.37	4/3/2024	NE	45.42	NA	NA	NA	400.95	352.32 - 350.32 (94.05 - 96.05)	0.0	*
3Q24		7/2/2024	NE	45.38	NA	NA	NA	400.99		0.0	*
4Q24		10/2/2024	NE	45.38	NA	NA	NA	400.99		0.4	*
1Q25	446.40	1/14/2025	NE	45.29	NA	NA	NA	401.11	352.35 - 350.35 (94.05 - 96.05)	0.0	*
P-84D											
2Q24	446.38	4/3/2024	NE	45.42	NA	NA	NA	400.96	325.55 - 323.55 (120.83 - 122.83)	0.0	*
3Q24		7/2/2024	NE	45.40	NA	NA	NA	400.98		0.0	*
4Q24		10/2/2024	NE	45.35	NA	NA	NA	401.03		0.4	*
1Q25	446.40	1/14/2025	NE	45.29	NA	NA	NA	401.11	325.57 - 323.57 (120.83 - 122.83)	0.0	*
P-88A											
2Q24	443.27	4/3/2024	NE	37.75	NA	NA	NA	405.52	404.87 - 389.87 (38.40 - 53.40)	0.0	*
3Q24		7/2/2024	NE	37.04	NA	NA	NA	406.23		0.0	*
4Q24		10/3/2024	NE	36.45	NA	NA	NA	406.82		0.0	*
1Q25		1/14/2025	NE	36.68	NA	NA	NA	406.59		0.0	*
P-88B											
2Q24	443.35	4/3/2024	NE	37.83	NA	NA	NA	405.52	371.70 - 369.70 (71.65 - 73.65)	0.0	*
3Q24		7/2/2024	NE	37.06	NA	NA	NA	406.29		0.0	*
4Q24		10/3/2024	NE	36.52	NA	NA	NA	406.83		0.0	*
1Q25		1/14/2025	NE	36.75	NA	NA	NA	406.60		0.0	*
P-88C											
2Q24	443.31	4/3/2024	NE	37.80	NA	NA	NA	405.51	351.01 - 349.01 (92.30 - 94.30)	0.0	*
3Q24		7/2/2024	NE	37.06	NA	NA	NA	406.25		0.0	*
4Q24		10/3/2024	NE	36.48	NA	NA	NA	406.83		0.0	*
1Q25		1/14/2025	NE	36.71	NA	NA	NA	406.60		0.0	*
P-88D											
2Q24	443.38	4/3/2024	NE	37.85	NA	NA	NA	405.53	331.21 - 329.21 (112.17 - 114.17)	0.0	*
3Q24		7/2/2024	NE	37.14	NA	NA	NA	406.24		0.0	*
4Q24		10/3/2024	NE	36.55	NA	NA	NA	406.83		0.0	*
1Q25	443.39	1/14/2025	NE	36.79	NA	NA	NA	406.60	331.22 - 329.22 (112.17 - 114.17)	0.0	*
P-89B											
2Q24	447.64	4/2/2024	NE	47.62	NA	NA	NA	400.02	370.28 - 368.28 (77.36 - 79.36)	0.0	*
3Q24		7/2/2024	NE	46.55	NA	NA	NA	401.09		0.0	*
4Q24		10/3/2024	NE	46.01	NA	NA	NA	401.63		0.0	*
1Q25		1/13/2025	NE	45.97	NA	NA	NA	401.67		0.0	*
P-89C											
2Q24	447.96	4/2/2024	NE	47.98	NA	NA	NA	399.98	351.56 - 349.56 (96.40 - 98.40)	0.0	*
3Q24		7/2/2024	NE	46.90	NA	NA	NA	401.06		0.0	*
4Q24		10/3/2024	NE	46.38	NA	NA	NA	401.58		0.0	*
1Q25		1/13/2025	NE	46.33	NA	NA	NA	401.63		0.0	*

TABLE 1
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
P-89D											
2Q24	447.83	4/2/2024	NE	47.99	NA	NA	NA	399.84	309.33 - 307.33 (138.50 - 140.50)	0.0	*
3Q24		7/2/2024	NE	46.93	NA	NA	NA	400.90		0.0	*
4Q24		10/3/2024	NE	46.42	NA	NA	NA	401.41		0.0	*
1Q25		1/13/2025	NE	46.34	NA	NA	NA	401.49		0.0	*
P-91A											
2Q24	447.43	4/2/2024	49.31	49.33	398.10	398.12	0.02	398.12	395.92 - 380.92 (51.52 - 66.52)	2.8	*
3Q24		7/2/2024	48.62	48.63	398.80	398.81	0.01	398.81		1.3	*
4Q24		10/1/2024	48.46	48.48	398.95	398.97	0.02	398.97		103.3	*
1Q25	447.44	1/13/2025	48.04	48.07	399.37	399.40	0.03	399.39	395.93 - 380.93 (51.52 - 66.52)	12.3	*
P-91B											
2Q24	447.47	4/2/2024	NE	49.31	NA	NA	NA	398.16	372.78 - 370.78 (74.69 - 76.69)	0.0	*
3Q24		7/2/2024	NE	48.65	NA	NA	NA	398.82		0.0	*
4Q24		10/1/2024	NE	48.49	NA	NA	NA	398.98		0.0	*
1Q25	447.48	1/13/2025	NE	48.07	NA	NA	NA	399.41	372.79 - 370.79 (74.69 - 76.69)	0.4	*
P-91C											
2Q24	447.27	4/2/2024	NE	49.11	NA	NA	NA	398.16	352.54 - 350.54 (94.73 - 96.73)	0.0	*
3Q24		7/2/2024	NE	48.43	NA	NA	NA	398.84		0.0	*
4Q24		10/1/2024	NE	48.26	NA	NA	NA	399.01		0.0	*
1Q25		1/13/2025	NE	47.84	NA	NA	NA	399.43		0.0	*
P-91D											
2Q24	447.26	4/2/2024	NE	49.14	NA	NA	NA	398.12	278.94 - 276.94 (168.32 - 170.32)	0.0	*
3Q24		7/2/2024	NE	48.45	NA	NA	NA	398.81		0.0	*
4Q24		10/1/2024	NE	48.27	NA	NA	NA	398.99		0.0	*
1Q25		447.28	1/13/2025	NE	47.88	NA	NA	NA	399.40	278.96 - 276.96 (168.32 - 170.32)	0.0
P-92A											
2Q24	446.39	4/1/2024	47.56	47.59	398.80	398.83	0.03	398.82	398.82 - 383.82 (47.57 - 62.57)	88.6	*
3Q24		7/1/2024	47.30	47.37	399.02	399.09	0.07	399.08		24.5	*
4Q24		10/2/2024	46.75	46.78	399.61	399.64	0.03	399.63		5.5	*
1Q25	446.41	1/13/2025	46.84	46.86	399.55	399.57	0.02	399.57	398.84 - 383.84 (47.57 - 62.57)	94.5	*
P-92B											
2Q24	446.33	4/1/2024	NE	47.51	NA	NA	NA	398.82	371.92 - 369.92 (74.41 - 76.41)	0.2	*
3Q24		7/1/2024	NE	47.25	NA	NA	NA	399.08		0.0	*
4Q24		10/2/2024	NE	46.69	NA	NA	NA	399.64		0.0	*
1Q25		1/13/2025	NE	46.77	NA	NA	NA	399.56		0.0	*
P-92C											
2Q24	446.34	4/1/2024	NE	47.55	NA	NA	NA	398.79	353.38 - 348.38 (92.96 - 97.96)	0.3	*
3Q24		7/1/2024	NE	47.37	NA	NA	NA	398.97		0.0	*
4Q24		10/2/2024	NE	46.67	NA	NA	NA	399.67		0.0	*
1Q25	446.35	1/13/2025	NE	46.78	NA	NA	NA	399.57	353.39 - 348.39 (92.96 - 97.96)	0.5	*
P-92D											
2Q24	446.15	4/1/2024	NE	47.41	NA	NA	NA	398.74	305.15 - 303.15 (141.00 - 143.00)	0.0	*
3Q24		7/1/2024	NE	47.10	NA	NA	NA	399.05		0.0	*
4Q24		10/2/2024	NE	46.55	NA	NA	NA	399.60		0.0	*
1Q25	446.16	1/13/2025	NE	46.64	NA	NA	NA	399.52	305.16 - 303.16 (141.00 - 143.00)	0.0	*
P-93A											
2Q24	445.37	4/1/2024	NE	45.12	NA	NA	NA	400.25	402.30 - 392.30 (43.07 - 53.07)	0.0	
3Q24		7/1/2024	NE	45.68	NA	NA	NA	399.69		0.0	
4Q24		10/1/2024	NE	45.24	NA	NA	NA	400.13		0.0	
1Q25		1/13/2025	NE	45.36	NA	NA	NA	400.01		0.0	
P-93B											
2Q24	446.70	4/1/2024	NE	46.49	NA	NA	NA	400.21	371.92 - 369.92 (74.78 - 76.78)	0.0	*
3Q24		7/1/2024	NE	47.05	NA	NA	NA	399.65		0.0	*
4Q24		10/1/2024	NE	46.65	NA	NA	NA	400.05		213.6	*
1Q25	446.71	1/13/2025	NE	46.74	NA	NA	NA	399.97	371.93 - 369.93 (74.78 - 76.78)	0.0	*
P-93C											
2Q24	446.55	4/1/2024	NE	46.33	NA	NA	NA	400.22	353.67 - 348.67 (92.88 - 97.88)	5.8	*
3Q24		7/1/2024	NE	46.90	NA	NA	NA	399.65		0.0	*
4Q24		10/1/2024	NE	46.44	NA	NA	NA	400.11		0.0	*
1Q25	446.57	1/13/2025	NE	46.59	NA	NA	NA	399.98	353.69 - 348.69 (92.88 - 97.88)	0.0	*

TABLE 1
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
P-93D											
2Q24	446.97	4/1/2024	NE	46.70	NA	NA	NA	400.27	321.31 - 319.31 (125.66 - 127.66)	0.0	*
3Q24		7/1/2024	NE	47.25	NA	NA	NA	399.72		0.0	*
4Q24		10/1/2024	NE	46.78	NA	NA	NA	400.19		0.0	*
1Q25	446.93	1/13/2025	NE	46.94	NA	NA	NA	399.99	321.27 - 319.27 (125.66 - 127.66)	0.0	*
P-94											
2Q24	445.04	4/2/2024	NE	43.26	NA	NA	NA	401.78	398.80 - 383.80 (46.24 - 61.24)	0.0	*
3Q24		7/2/2024	NE	42.63	NA	NA	NA	402.41		0.0	*
4Q24		10/3/2024	NE	42.59	NA	NA	NA	402.45		0.0	*
1Q25	445.02	1/13/2025	NE	41.98	NA	NA	NA	403.04	398.78 - 383.78 (46.24 - 61.24)	0.0	*
P-95											
2Q24	443.95	4/2/2024	NE	36.15	NA	NA	NA	407.80	407.43 - 392.43 (36.52 - 51.52)	0.0	*
3Q24		7/2/2024	NE	35.54	NA	NA	NA	408.41		0.0	*
4Q24		10/3/2024	NE	36.00	NA	NA	NA	407.95		0.0	*
1Q25	443.69	1/14/2025	NE	35.03	NA	NA	NA	408.66	407.17 - 392.17 (36.52 - 51.52)	0.0	*
P-102											
2Q24	445.14	4/2/2024	NE	40.37	NA	NA	NA	404.77	402.39 - 382.39 (42.75 - 62.75)	0.0	*
3Q24		7/2/2024	NE	39.67	NA	NA	NA	405.47		0.3	*
4Q24		10/3/2024	NE	39.00	NA	NA	NA	406.14		7.0	*
1Q25		1/14/2025	NE	39.28	NA	NA	NA	405.86		0.0	*
P-114R											
2Q24	429.48	4/2/2024	NE	28.71	NA	NA	NA	400.77	406.47 - 396.47 (23.01 - 33.01)	16.8	
3Q24		7/2/2024	NE	27.41	NA	NA	NA	402.07		37.4	
4Q24		10/2/2024	NE	27.73	NA	NA	NA	401.75		42.4	
1Q25	429.45	1/15/2025	NE	28.59	NA	NA	NA	400.86	406.44 - 396.44 (23.01 - 33.01)	0.0	
P-115											
2Q24	433.54	4/2/2024	NE	32.65	NA	NA	NA	400.89	401.24 - 381.24 (32.30 - 52.30)	24.9	
3Q24		7/2/2024	NE	31.17	NA	NA	NA	402.37		0.0	*
4Q24		10/2/2024	NE	31.60	NA	NA	NA	401.94		0.0	*
1Q25	433.50	1/15/2025	NE	32.58	NA	NA	NA	400.92	401.20 - 381.20 (32.30 - 52.30)	0.0	
P-116											
2Q24	436.79	4/2/2024	NE	36.08	NA	NA	NA	400.71	399.35 - 379.35 (37.44 - 57.44)	0.0	*
3Q24		7/2/2024	NE	34.44	NA	NA	NA	402.35		0.0	*
4Q24		10/2/2024	NE	34.98	NA	NA	NA	401.81		0.0	*
1Q25	436.76	1/15/2025	NE	36.00	NA	NA	NA	400.76	399.32 - 379.32 (37.44 - 57.44)	0.0	*
P-117											
2Q24	432.87	4/2/2024	NE	32.32	NA	NA	NA	400.55	399.94 - 379.94 (32.93 - 52.93)	0.0	*
3Q24		7/2/2024	NE	30.58	NA	NA	NA	402.29		0.0	*
4Q24		10/2/2024	NE	31.23	NA	NA	NA	401.64		0.0	*
1Q25	432.86	1/15/2025	NE	32.26	NA	NA	NA	400.60	399.93 - 379.93 (32.93 - 52.93)	0.0	*
P-118											
2Q24	431.48	4/2/2024	NE	31.28	NA	NA	NA	400.20	400.36 - 384.43 (31.12 - 47.05)	0.0	
3Q24		7/2/2024	NE	28.95	NA	NA	NA	402.53		0.0	*
4Q24		10/2/2024	NE	30.00	NA	NA	NA	401.48		0.0	*
1Q25	431.51	1/15/2025	NE	31.17	NA	NA	NA	400.34	400.39 - 384.46 (31.12 - 47.05)	0.0	
P-119											
2Q24	432.11	4/2/2024	NE	30.95	NA	NA	NA	401.16	401.44 - 385.51 (30.67 - 46.60)	0.0	
3Q24		7/2/2024	NM	NM	NM	NM	NM	NM		NM	Inaccessible due to refinery construction.
4Q24		10/2/2024	NE	30.15	NA	NA	NA	401.96		0.0	*
1Q25	432.10	1/15/2025	NE	30.82	NA	NA	NA	401.28	401.43 - 385.50 (30.67 - 46.60)	0.0	
P-120											
2Q24	433.00	4/2/2024	NE	31.30	NA	NA	NA	401.70	401.62 - 385.69 (31.38 - 47.31)	0.0	*
3Q24		7/2/2024	NE	30.20	NA	NA	NA	402.80		0.0	*
4Q24		10/2/2024	NE	30.30	NA	NA	NA	402.70		0.0	*
1Q25	432.99	1/15/2025	NE	31.05	NA	NA	NA	401.94	401.61 - 385.68 (31.38 - 47.31)	0.0	*
P-129											
2Q24	432.66	4/2/2024	NE	33.32	NA	NA	NA	399.34	400.69 - 384.76 (31.97 - 47.90)	63.1	
3Q24		7/2/2024	NE	30.07	NA	NA	NA	402.59		0.0	*
4Q24		10/2/2024	NE	32.10	NA	NA	NA	400.56		0.0	
1Q25	432.64	1/15/2025	NE	33.45	NA	NA	NA	399.19	400.67 - 384.74 (31.97 - 47.90)	0.0	

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WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
ROST-3-MW											
2Q24	442.52	4/2/2024	NE	42.12	NA	NA	NA	400.40	404.71 - 394.71 (37.81 - 47.81)	0.0	
3Q24		7/1/2024	NE	42.75	NA	NA	NA	399.77		0.0	
4Q24		10/1/2024	NE	42.60	NA	NA	NA	399.92		0.0	
1Q25	442.51	1/14/2025	NE	42.96	NA	NA	NA	399.55	404.70 - 394.70 (37.81 - 47.81)	0.0	
ROST-4-PZ											
2Q24	442.15	4/1/2024	NE	41.02	NA	NA	NA	401.13	407.22 - 397.22 (34.93 - 44.93)	0.0	
3Q24		7/1/2024	NE	41.87	NA	NA	NA	400.28		0.0	
4Q24		10/1/2024	NE	41.40	NA	NA	NA	400.75		0.0	
1Q25	442.16	1/13/2025	NE	41.82	NA	NA	NA	400.34	407.23 - 397.23 (34.93 - 44.93)	0.0	
ROST-4-PZ(A)											
2Q24	442.15	4/1/2024	NE	41.20	NA	NA	NA	400.95	407.38 - 397.38 (34.77 - 44.77)	0.0	
3Q24		7/1/2024	NE	42.36	NA	NA	NA	399.79		0.0	
4Q24		10/1/2024	NE	42.18	NA	NA	NA	399.97		0.0	
1Q25		1/13/2025	NE	42.45	NA	NA	NA	399.70		0.0	
ROST-4-PZ(B)											
2Q24	442.40	4/1/2024	NE	41.05	NA	NA	NA	401.35	407.35 - 397.35 (35.05 - 45.05)	0.0	
3Q24		7/1/2024	NE	41.82	NA	NA	NA	400.58		0.0	
4Q24		10/1/2024	NE	41.15	NA	NA	NA	401.25		0.0	
1Q25		1/13/2025	NE	41.70	NA	NA	NA	400.70		0.0	
ROST-4-PZ(C)											
2Q24	442.97	4/2/2024	NE	42.03	NA	NA	NA	400.94	408.02 - 398.02 (34.95 - 44.95)	0.0	
3Q24		7/1/2024	NE	42.87	NA	NA	NA	400.10		0.0	
4Q24		10/1/2024	NE	42.50	NA	NA	NA	400.47		0.0	
1Q25	442.96	1/15/2025	NE	42.79	NA	NA	NA	400.17	408.01 - 398.01 (34.95 - 44.95)	0.0	
ROST-4-PZ(D)											
2Q24	442.92	4/2/2024	NE	41.80	NA	NA	NA	401.12	407.95 - 397.95 (34.97 - 44.97)	0.0	
3Q24		7/1/2024	NE	42.68	NA	NA	NA	400.24		0.0	
4Q24		10/1/2024	NE	42.28	NA	NA	NA	400.64		0.0	
1Q25	442.91	1/14/2025	NE	42.73	NA	NA	NA	400.18	407.94 - 397.94 (34.97 - 44.97)	0.0	
ROST-4-PZ(E)											
2Q24	441.98	4/1/2024	NE	40.35	NA	NA	NA	401.63	407.23 - 397.23 (34.75 - 44.75)	0.0	
3Q24		7/1/2024	NE	41.76	NA	NA	NA	400.22		0.0	
4Q24		10/1/2024	NE	41.28	NA	NA	NA	400.70		0.0	
1Q25		1/13/2025	NE	41.40	NA	NA	NA	400.58		0.0	
ROST-4-PZ(F)											
2Q24	442.12	4/1/2024	NE	40.23	NA	NA	NA	401.89	407.59 - 397.59 (34.53 - 44.53)	0.0	
3Q24		7/1/2024	NE	40.42	NA	NA	NA	401.70		0.0	
4Q24		10/1/2024	NE	40.23	NA	NA	NA	401.89		0.0	
1Q25		1/13/2025	NE	40.42	NA	NA	NA	401.70		0.0	
ROST-4-PZ(G)											
2Q24	442.20	4/2/2024	NE	41.95	NA	NA	NA	400.25	407.92 - 397.92 (34.28 - 44.28)	0.0	
3Q24		7/1/2024	NE	43.05	NA	NA	NA	399.15		0.0	
4Q24		10/1/2024	NE	42.88	NA	NA	NA	399.32		0.0	
1Q25	442.21	1/14/2025	NE	43.05	NA	NA	NA	399.16	407.93 - 397.93 (34.28 - 44.28)	0.0	
S-1											
2Q24	444.06	4/1/2024		44.22	399.72	399.84	0.12	399.82	Unknown	96.8	
3Q24		7/1/2024		44.63	399.41	399.43	0.02	399.43		129.4	
4Q24		10/2/2024		43.94	400.08	400.12	0.04	400.11		141.5	
1Q25	444.12	1/13/2025		44.12	399.99	400.00	0.01	400.00		140.5	
T-1											
2Q24	445.61	4/1/2024	NE	45.06	NA	NA	NA	400.55	398.61 - 388.61 (47.00 - 57.00)	0.0	*
3Q24		7/1/2024	NE	45.40	NA	NA	NA	400.21		0.0	*
4Q24		10/1/2024	NE	45.25	NA	NA	NA	400.36		0.0	*
1Q25	445.66	1/13/2025	NE	45.29	NA	NA	NA	400.37	398.66 - 388.66 (47.00 - 57.00)	0.0	*
T-2											
2Q24	443.40	4/2/2024	NE	43.14	NA	NA	NA	400.26	392.91 - 372.76 (50.50 - 70.65)	0.0	*
3Q24		7/1/2024	NE	43.50	NA	NA	NA	399.90		0.0	*
4Q24		10/2/2024	NE	43.27	NA	NA	NA	400.13		0.0	*
1Q25	443.38	1/13/2025	NE	43.20	NA	NA	NA	400.18	392.89 - 372.74 (50.50 - 70.65)	0.0	*

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WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
T-3											
2Q24	449.21	4/2/2024	NE	50.14	NA	NA	NA	399.07	403.99 - 388.99 (45.22 - 60.22)	0.0	
3Q24		7/1/2024	NE	49.88	NA	NA	NA	399.33		0.0	
4Q24		10/1/2024	NE	49.59	NA	NA	NA	399.62		0.0	
1Q25	449.22	1/13/2025	NE	49.13	NA	NA	NA	400.09	404.00 - 389.00 (45.22 - 60.22)	0.0	
T-4											
2Q24	446.82	4/2/2024	NE	50.09	NA	NA	NA	396.73	396.80 - 381.80 (50.02 - 65.02)	0.0	
3Q24		7/2/2024	NE	48.63	NA	NA	NA	398.19		0.0	*
4Q24		10/2/2024	NE	48.32	NA	NA	NA	398.50		0.0	*
1Q25		1/13/2025	NE	47.81	NA	NA	NA	399.01		0.0	*
T-5											
2Q24	443.66	4/2/2024	NE	43.49	NA	NA	NA	400.17	395.33 - 378.78 (48.33 - 64.88)	2.0	*
3Q24		7/2/2024	NE	43.58	NA	NA	NA	400.08		0.0	*
4Q24		10/2/2024	NE	42.92	NA	NA	NA	400.74		40.4	*
1Q25	443.67	1/13/2025	NE	43.27	NA	NA	NA	400.40	395.34 - 378.79 (48.33 - 64.88)	3.9	*
T-6											
2Q24	446.78	4/1/2024	NE	46.82	NA	NA	NA	399.96	394.27 - 380.02 (52.51 - 66.76)	1.4	*
3Q24		7/1/2024	NE	47.35	NA	NA	NA	399.43		0.0	*
4Q24		10/1/2024	NE	46.86	NA	NA	NA	399.92		1.4	*
1Q25	446.79	1/13/2025	NE	47.00	NA	NA	NA	399.79	394.28 - 380.03 (52.51 - 66.76)	0.0	*
T-7											
2Q24	444.26	4/3/2024	NE	43.13	NA	NA	NA	401.13	395.54 - 380.54 (48.72 - 63.72)	1.2	*
3Q24		7/2/2024	NE	42.91	NA	NA	NA	401.35		0.2	*
4Q24		10/3/2024	NE	42.53	NA	NA	NA	401.73		4.5	*
1Q25	444.27	1/15/2025	NE	42.80	NA	NA	NA	401.47	395.55 - 380.55 (48.72 - 63.72)	2.3	*
T-12											
2Q24	444.99	4/1/2024	NE	44.87	NA	NA	NA	400.12	398.16 - 372.16 (46.83 - 72.83)	0.3	*
3Q24		7/1/2024	NE	46.62	NA	NA	NA	398.37		0.0	*
4Q24		10/1/2024	NE	46.40	NA	NA	NA	398.59		0.1	*
1Q25	444.98	1/13/2025	NE	46.86	NA	NA	NA	398.12	398.15 - 372.15 (46.83 - 72.83)	0.0	
T-13											
2Q24	443.76	4/1/2024	NE	43.08	NA	NA	NA	400.68	399.95 - 373.95 (43.81 - 69.81)	0.0	*
3Q24		7/1/2024	NE	43.27	NA	NA	NA	400.49		0.0	*
4Q24		10/1/2024	NE	43.15	NA	NA	NA	400.61		0.0	*
1Q25		1/13/2025	NE	43.33	NA	NA	NA	400.43		0.0	*
T-15											
2Q24	445.35	4/2/2024	NE	45.21	NA	NA	NA	400.14	396.95 - 370.95 (48.40 - 74.40)	0.0	*
3Q24		7/1/2024	NE	45.18	NA	NA	NA	400.17		0.0	*
4Q24		10/2/2024	NE	45.02	NA	NA	NA	400.33		0.0	*
1Q25	445.34	1/13/2025	NE	44.81	NA	NA	NA	400.53	396.94 - 370.94 (48.40 - 74.40)	0.0	*
T-17											
2Q24	446.19	4/2/2024	NE	46.00	NA	NA	NA	400.19	401.72 - 375.72 (44.47 - 70.47)	0.0	
3Q24		7/2/2024	NE	45.35	NA	NA	NA	400.84		0.0	
4Q24		10/3/2024	NE	45.27	NA	NA	NA	400.92		0.1	
1Q25	446.23	1/13/2025	NE	44.75	NA	NA	NA	401.48	401.76 - 375.76 (44.47 - 70.47)	0.0	
T-19											
2Q24	446.99	4/2/2024	NE	50.06	NA	NA	NA	396.93	396.22 - 370.22 (50.77 - 76.77)	24.7	*
3Q24		7/2/2024	NE	48.78	NA	NA	NA	398.21		7.5	*
4Q24		10/2/2024	NE	48.44	NA	NA	NA	398.55		35.3	*
1Q25	446.98	1/13/2025	NE	48.05	NA	NA	NA	398.93	396.21 - 370.21 (50.77 - 76.77)	90.0	*
T-21											
2Q24	444.22	4/3/2024	NE	36.63	NA	NA	NA	407.59	412.26 - 386.26 (31.96 - 57.96)	0.0	
3Q24		7/2/2024	NE	36.01	NA	NA	NA	408.21		0.2	
4Q24		10/3/2024	NE	35.45	NA	NA	NA	408.77		0.0	
1Q25	444.23	1/14/2025	NE	35.16	NA	NA	NA	409.07	412.27 - 386.27 (31.96 - 57.96)	0.0	
T-22											
2Q24	442.37	4/2/2024	NE	37.35	NA	NA	NA	405.02	410.82 - 385.12 (31.55 - 57.25)	0.0	
3Q24		7/2/2024	NE	36.37	NA	NA	NA	406.00		0.0	
4Q24		10/3/2024	NE	36.05	NA	NA	NA	406.32		0.0	
1Q25	442.38	1/14/2025	NE	36.36	NA	NA	NA	406.02	410.83 - 385.13 (31.55 - 57.25)	0.0	

TABLE 1
QUARTERLY GROUNDWATER MONITORING WELL GAUGING RESULTS

WELL ID & EVENT	TOP OF CASING (elev.)	DATE GAUGED	DEPTH TO PRODUCT (ft btoc)	DEPTH TO WATER (ft btoc)	WATER-PRODUCT INTERFACE (elev.)	PRODUCT (elev.)	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL (elev.)	SCREENED INTERVAL (elev.) (ft btoc)	WELL HEAD PID (ppm)	COMMENTS
T-23											
2Q24	432.90	4/2/2024	NE	29.55	NA	NA	NA	403.35	405.67 - 379.67 (27.23 - 53.23)	0.0	
3Q24		7/1/2024	NE	28.85	NA	NA	NA	404.05		0.0	
4Q24		10/3/2024	NE	28.49	NA	NA	NA	404.41		0.0	
1Q25	432.87	1/15/2025	NE	28.97	NA	NA	NA	403.90	405.64 - 379.64 (27.23 - 53.23)	0.0	
T-24											
2Q24	444.00	4/2/2024	43.60	45.76	398.24	400.40	2.16	399.97	402.50 - 376.85 (41.50 - 67.15)	0.8	
3Q24		7/1/2024	43.15	43.22	400.78	400.85	0.07	400.84		16.4	
4Q24		10/1/2024	44.80	45.89	398.11	399.20	1.09	398.98		0.0	
1Q25		1/13/2025	44.93	45.52	398.48	399.07	0.59	398.95		0.0	
T-28											
2Q24	444.56	4/2/2024	NE	44.81	NA	NA	NA	399.75	Unknown	0.0	
3Q24		7/2/2024	NE	44.20	NA	NA	NA	400.36		0.0	
4Q24		10/3/2024	NE	44.14	NA	NA	NA	400.42		0.0	
1Q25	444.59	1/13/2025	NE	43.61	NA	NA	NA	400.98		0.0	
T-37											
2Q24	447.44	4/2/2024	NE	47.46	NA	NA	NA	399.98	398.59 - 378.59 (48.86 - 68.86)	0.1	*
3Q24		7/2/2024	NE	46.40	NA	NA	NA	401.04		0.0	*
4Q24		10/3/2024	NE	45.88	NA	NA	NA	401.56		0.0	*
1Q25		1/13/2025	NE	45.83	NA	NA	NA	401.61		0.0	*
T-38											
2Q24	445.89	4/2/2024	NE	44.36	NA	NA	NA	401.53	396.75 - 376.75 (49.14 - 69.14)	0.0	*
3Q24		7/2/2024	NE	43.35	NA	NA	NA	402.54		0.0	*
4Q24		10/3/2024	NE	42.53	NA	NA	NA	403.36		0.0	*
1Q25	445.85	1/13/2025	NE	43.01	NA	NA	NA	402.84	396.71 - 376.71 (49.14 - 69.14)	0.0	*
T-62											
2Q24	432.16	4/2/2024	NE	30.90	NA	NA	NA	401.26	412.45 - 382.45 (19.71 - 49.71)	0.0	
3Q24		7/2/2024	NE	29.83	NA	NA	NA	402.33		0.0	
4Q24		10/2/2024	NE	29.95	NA	NA	NA	402.21		0.0	
1Q25	432.15	1/15/2025	NE	30.47	NA	NA	NA	401.68	412.44 - 382.44 (19.71 - 49.71)	0.0	
T-63											
2Q24	431.55	4/2/2024	NE	30.30	NA	NA	NA	401.25	411.57 - 381.57 (19.98 - 49.98)	0.0	
3Q24		7/2/2024	NE	29.04	NA	NA	NA	402.51		0.0	
4Q24		10/2/2024	NE	29.45	NA	NA	NA	402.10		0.0	
1Q25	431.33	1/15/2025	NE	30.13	NA	NA	NA	401.20	411.35 - 381.35 (19.98 - 49.98)	0.0	
T-64											
2Q24	429.10	4/2/2024	NE	28.25	NA	NA	NA	400.85	409.29 - 379.29 (19.81 - 49.81)	0.0	
3Q24		7/2/2024	NE	26.40	NA	NA	NA	402.70		0.0	
4Q24		10/2/2024	NE	27.25	NA	NA	NA	401.85		0.0	
1Q25		1/15/2025	NE	28.13	NA	NA	NA	400.97		0.0	

NOTES:

- Elevations presented in this table are relative to the 1988 NAVD datum.
- The corrected water level elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which LNAPL was identified.
- PID values measured with a 10.6 electron volt (eV) lamp photoionization detector.
- btoc = Below Top of Casing; ppm = parts per million; NA = Not Applicable; NE = Not Encountered; NM = Not Measured
- * Indicates that the LNAPL and/or water level is above the top of the screened zone of the well.
- Table includes comprehensive groundwater monitoring well gauging data for the last 4 quarters from the combined Village of Roxana Interim Groundwater Monitoring Program and the WRB Refining LP Wood River Refinery Program.
- The screened interval for certain monitoring wells was adjusted based on an evaluation of the results of annual bottom depth gauging conducted in the first quarter of each year.
- Top of casing and screened interval for the groundwater monitoring wells in the Roxana Interim Groundwater Monitoring Program and the WRR Program were adjusted based on surveying conducted in 4Q24, in accordance with Permit Condition IV.J.9, which requires wells be surveyed every five (5) years.

TABLE 2
SUMMARY OF GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-01							
2Q24	6.69	16.53	0.922	2.19	1.28	169.19	
3Q24	6.87	22.03	1.134	11.11	0.77	-63.33	
4Q24	6.69	18.82	1.066	5.79	0.74	92.33	
1Q25	6.75	15.38	1.301	1.63	0.71	106.66	Initial sample.
	6.85	14.41	0.963	26.74	0.92	46.39	Confirmation sample.
MW-02							
2Q24	7.06	22.42	0.798	16.62	0.53	19.94	
3Q24	7.26	22.49	0.773	13.31	1.67	-180.17	
4Q24	7.07	21.68	0.794	7.54	0.62	-169.17	
1Q25	7.10	15.77	0.891	5.04	0.70	-28.64	
MW-03							
2Q24	6.83	19.07	1.278	0.00	0.68	-72.63	
3Q24	7.03	21.12	1.369	2.44	0.48	-149.62	
4Q24	6.91	21.47	1.058	2.88	0.66	-146.47	
1Q25	6.78	17.29	1.032	5.41	0.68	130.86	
MW-04							
2Q24	6.77	18.18	0.973	5.60	0.73	88.34	
3Q24	6.89	20.48	0.995	0.00	2.04	-135.76	
4Q24	6.97	18.55	1.116	0.00	0.43	-100.27	
1Q25	6.73	15.62	1.171	8.97	0.69	40.83	
MW-05							
2Q24	6.74	18.96	0.978	1.17	0.71	-70.26	
3Q24	6.60	20.45	1.097	0.00	0.89	-126.33	
4Q24	6.46	19.50	1.143	6.90	0.68	-116.54	
1Q25	6.92	14.79	1.242	12.51	0.68	133.44	
MW-06A							
2Q24	6.87	19.02	0.262	3.40	3.29*	84.22	
3Q24	6.67	21.45	0.676	5.97	1.62	-7.54	
4Q24	6.57	20.82	0.612	36.99	0.70	-67.57	
1Q25	6.94	16.32	1.023	26.24	0.62	-11.17	
MW-06B							
2Q24	7.00	18.60	0.681	11.92	0.62	16.74	
3Q24	6.95	21.58	0.789	2.97	0.51	-98.74	
4Q24	6.99	21.31	0.769	45.35	0.62	-126.76	
1Q25	7.23	16.72	0.852	6.31	0.74	97.84	
MW-06C							
2Q24	7.03	19.80	0.700	3.44	0.66	-56.60	
3Q24	7.00	20.98	0.782	4.45	0.54	-124.05	
4Q24	6.96	20.02	0.699	16.81	0.80	-138.94	
1Q25	7.00	16.97	0.825	3.66	0.80	43.40	
MW-06D							
2Q24	6.94	18.70	1.119	32.77	0.61	-59.40	
3Q24	6.98	20.84	1.092	33.91	0.39	-135.51	
4Q24	6.92	19.17	0.924	28.83	0.60	-146.60	
1Q25	6.85	16.43	1.192	4.90	0.71	143.30	

TABLE 2
SUMMARY OF GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-07							
2Q24	6.95	19.06	0.744	0.45	0.70	1.84	
3Q24	6.74	22.70	0.937	0.00	1.29	-112.85	
4Q24	NM	NM	NM	NM	NM	NM	Not sampled due to operation of FPWY SEE System
1Q25	6.70	36.82	0.974	10.51	0.49	-42.97	
MW-09							
2Q24	6.91	21.20	0.996	3.31	0.52	-2.81	
3Q24	7.02	21.65	1.014	5.69	0.48	-80.95	
4Q24	6.69	19.00	0.909	0.41	0.63	-124.50	
1Q25	6.76	15.30	0.945	31.98	0.70	201.60	
MW-10							
2Q24	6.86	16.65	1.404	17.51	1.34	-26.88	
3Q24	7.00	19.98	1.179	47.17	0.38	-117.60	
4Q24	6.81	19.48	1.514	17.52	0.67	-142.59	
1Q25	6.87	16.00	1.573	25.11	0.74	184.70	
MW-11							
2Q24	6.68	17.21	1.317	16.32	0.68	-17.82	
3Q24	6.61	18.97	1.312	37.68	0.92	-86.06	
4Q24	6.63	18.70	1.410	40.86	0.56	-66.39	
1Q25	6.89	14.46	1.761	18.63	0.64	-58.49	
MW-12							
2Q24	6.87	18.17	0.761	1.03	0.87	40.01	
3Q24	6.88	19.76	0.772	22.28	0.93	80.31	
4Q24	6.69	21.11	0.935	19.27	0.76	71.57	
1Q25	6.90	14.38	0.908	2.29	1.69	131.04	Initial sample.
	6.77	16.11	0.729	7.62	0.85	181.58	Confirmation sample.
MW-13							
2Q24	6.68	21.90	0.997	32.02	0.47	-59.83	
3Q24	6.61	22.35	0.990	3.94	2.07	-81.72	
4Q24	6.35	21.22	1.210	22.55	0.63	-92.57	
1Q25	6.57	19.30	1.209	40.74	0.64	151.10	
MW-14							
2Q24	6.55	19.56	1.125	0.96	0.70	-18.84	
3Q24	6.54	20.81	1.025	0.00	0.84	-79.46	
4Q24	6.46	22.06	1.027	7.22	0.60	-90.83	
1Q25	6.47	17.62	1.160	3.69	0.61	14.88	
MW-16							
2Q24	6.66	18.60	0.850	10.00	0.55	-35.10	
3Q24	6.80	19.80	0.964	0.00	0.82	-112.93	
4Q24	6.77	20.51	1.027	7.01	0.74	-125.50	
1Q25	6.85	17.39	1.178	3.01	3.05	-128.39	Initial sample.
	6.78	15.91	0.914	1.44	0.86	-51.98	Confirmation sample.

TABLE 2
SUMMARY OF GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
MW-22							
2Q24	6.73	19.25	1.256	20.81	0.80	76.63	
3Q24	6.90	24.38	1.048	32.51	1.80	-138.62	
4Q24	6.98	19.14	1.177	6.18	0.50	-138.41	
1Q25	6.90	16.10	1.327	9.05	0.80	-39.50	
MW-23							
2Q24	6.50	19.30	0.883	22.82	0.55	5.80	
3Q24	6.60	20.52	0.812	44.14	0.90	-90.60	
4Q24	6.44	20.26	1.028	28.24	0.72	-84.62	
1Q25	6.79	16.24	1.080	23.21	0.64	113.93	
MW-24							
2Q24	6.86	19.93	1.798	3.34	0.74	191.98	
3Q24	6.64	21.23	1.666	13.59	0.90	230.03	
4Q24	6.61	18.03	1.557	4.14	1.32	184.85	
1Q25	6.88	17.88	1.640	7.17	0.56	99.63	Initial sample.
	6.95	14.01	1.302	10.53	0.83	117.62	Confirmation sample.
MW-25							
2Q24	6.65	19.72	0.904	0.00	0.72	15.68	
3Q24	6.91	22.05	0.789	3.72	2.12	-148.97	
4Q24	7.12	19.46	0.965	24.08	0.46	-123.98	
1Q25	6.70	33.11	1.079	12.44	0.42	-48.12	
MW-26							
2Q24	6.94	17.49	0.831	5.69	1.31	156.49	
3Q24	7.07	21.89	0.755	4.65	0.43	48.42	
4Q24	6.64	18.63	0.698	16.10	0.76	144.39	
1Q25	7.26	16.60	0.906	4.57	0.91	96.00	
MW-27							
2Q24	6.81	15.25	0.760	0.00	4.78*	108.38	
3Q24	6.99	15.31	0.782	5.62	3.66	121.86	
4Q24	6.86	20.52	0.870	10.58	3.10	112.46	
1Q25	7.01	16.59	0.849	17.37	3.90	143.00	
MW-28							
2Q24	6.55	18.32	2.112	24.23	0.64	-5.67	
3Q24	6.82	23.69	1.627	56.62	0.17	-128.01	
4Q24	6.65	18.32	1.575	37.09	0.48	-85.98	
1Q25	6.82	17.67	1.106	35.51	0.79	130.83	
P-54							
2Q24	6.66	19.57	1.262	48.73	2.42	158.75	
3Q24	6.49	20.74	1.375	19.24	3.00	277.04	
4Q24	6.73	17.87	1.213	1.92	4.68	141.70	
1Q25	6.80	14.98	1.195	4.16	4.09	110.22	Initial sample.
	6.92	11.37	0.902	-1.03	5.48	127.06	Confirmation sample.
P-55R							
2Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q25	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.

TABLE 2
SUMMARY OF GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-56							
2Q24	7.17	20.30	0.989	8.54	0.69	-151.90	
3Q24	7.34	22.52	1.064	17.44	0.39	-163.49	
4Q24	7.34	18.85	0.991	21.31	1.27	-205.41	
1Q25	6.91	17.57	1.065	2.85	0.51	-4.56	
P-57							
2Q24	6.66	19.70	0.930	1.07	0.76	41.37	
3Q24	6.64	22.80	0.999	0.00	0.42	-111.50	
4Q24	6.79	18.96	1.073	0.00	0.43	-116.83	
1Q25	6.72	17.34	1.086	0.52	0.50	-48.86	
P-58							
2Q24	6.53	21.41	1.494	23.42	0.47	6.96	
3Q24	6.64	24.32	1.748	16.30	1.82	-148.20	
4Q24	6.72	25.02	1.546	19.76	0.31	-137.09	
1Q25	6.91	29.20	1.121	12.39	0.57	90.00	
P-59							
2Q24	6.63	20.00	1.535	9.34	0.61	-114.50	
3Q24	6.66	26.87	1.537	17.52	0.42	-120.13	
4Q24	6.85	22.10	1.564	0.00	1.02	-150.07	
1Q25	6.83	15.16	1.701	9.22	0.67	116.76	
P-66							
2Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q25	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
P-68							
2Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
3Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
4Q24	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
1Q25	NM	NM	NM	NM	NM	NM	LNAPL encountered in well. No sample collected.
P-74							
2Q24	6.34	20.41	0.176	15.38	0.77	48.64	
3Q24	5.89	23.86	0.285	6.25	0.46	-37.81	
4Q24	6.21	20.09	0.501	8.40	0.50	-44.54	
1Q25	6.61	14.03	1.033	10.04	0.68	125.57	
P-93A							
2Q24	6.71	19.60	1.118	2.00	0.76	-44.30	
3Q24	6.80	22.43	1.235	0.00	0.41	-135.07	
4Q24	6.82	19.57	1.221	5.41	1.10	-142.49	
1Q25	6.90	17.20	1.444	1.80	0.67	97.50	
P-93B							
2Q24	6.70	17.50	1.270	4.92	0.74	-81.80	
3Q24	6.77	19.62	1.367	0.00	0.33	-112.38	
4Q24	6.88	19.28	0.985	130.31*	0.83	-145.25	
1Q25	6.99	17.40	1.234	8.81	0.67	114.60	

TABLE 2
SUMMARY OF GROUNDWATER MONITORING WELL FIELD PARAMETERS

WELL ID & EVENT	pH	Temp (C)	Specific Cond (mS/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	General Notes
P-93C							
2Q24	6.81	17.20	1.266	12.46	0.81	-91.10	
3Q24	7.01	21.55	0.992	26.16	0.49	-120.43	
4Q24	7.02	17.88	0.993	4.47	1.09	-150.74	
1Q25	6.83	16.50	1.014	1.62	0.72	132.20	
P-93D							
2Q24	7.02	17.83	0.969	0.00	1.31	38.26	
3Q24	7.03	20.34	1.109	0.00	0.39	-120.63	
4Q24	7.18	18.32	1.140	5.43	1.81	-111.61	
1Q25	7.04	16.81	1.139	1.56	1.09	-8.65	
P-114R							
2Q24	6.64	23.83	1.384	14.91	0.52	-33.99	
3Q24	6.78	24.07	0.976	4.95	1.91	-145.90	
4Q24	6.58	22.73	1.243	12.04	0.58	-146.83	
1Q25	6.77	19.88	1.034	26.85	0.60	86.61	
ROST-3-MW							
2Q24	6.34	20.50	1.089	1.55	0.62	-6.00	
3Q24	6.76	19.20	1.184	13.57	0.38	-127.40	
4Q24	6.81	17.26	1.400	22.03	0.47	-117.41	
1Q25	6.69	16.40	1.360	26.08	0.72	127.50	
ROST-4-PZ(C)							
2Q24	6.69	19.70	1.411	0.78	0.64	-63.30	
3Q24	6.90	20.34	1.583	8.64	0.28	-112.72	
4Q24	7.04	17.52	1.544	13.97	0.48	-138.06	
1Q25	6.95	16.24	1.830	0.96	0.53	-17.73	
ROST-4-PZ(E)							
2Q24	6.66	21.80	1.612	0.29	0.89	-47.80	
3Q24	6.87	20.27	1.588	0.00	1.03	27.70	
4Q24	6.96	19.40	1.731	38.13	2.43	30.00	
1Q25	7.15	11.10	1.715	18.67	4.93	152.00	
ROST-4-PZ(G)							
2Q24	7.02	19.36	1.319	18.24	0.61	-100.53	
3Q24	7.05	20.84	1.303	9.36	0.42	-152.20	
4Q24	7.16	20.23	1.343	25.65	0.43	-161.84	
1Q25	7.04	15.47	1.866	5.75	0.48	-83.12	
T-12							
2Q24	6.65	19.50	1.620	1.20	0.65	-131.80	
3Q24	6.76	25.31	1.424	6.54	0.43	-127.87	
4Q24	6.86	18.29	1.381	0.00	1.07	-137.28	
1Q25	7.01	15.71	1.408	3.08	0.67	107.38	

NOTES:

- 1) Field parameters were collected using a YSI ProDSS.
- 2) NM = Not Measured
- 3) * = Equipment malfunction. Results are suspect.
- 4) Negative parameter readings for Turbidity and DO are recorded as zero.

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs															
			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chloromethane	Cymene (p-isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene
Screening Values (mg/L)			6.3 ¹	0.005 ¹	4.2 ¹	0.35 ³	0.7 ³	0.7 ³	0.7 ¹	5,320 ³		0.0002 ²	0.07 ¹	0.7 ¹	0.7 ¹	19,000 ³	0.7 ¹	0.14 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
MW-01	MW1-ROX-040424	4/4/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000028 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW1-ROX-070524	7/5/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00022 J	< 0.0050
	MW1-ROX-100724	10/7/2024	< 0.01 UJ	< 0.00050	< 0.0050 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0050	< 0.0010	< 0.000034	< 0.0010	< 0.00050	< 0.0010	< 0.0050 UJ	0.00048 J	< 0.0010 UJ
	MW1-ROX-100724-DUP	10/7/2024	< 0.01	< 0.00050	< 0.0050 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0050	< 0.0010	< 0.000033	< 0.0010	< 0.00050	< 0.0010	< 0.0050 UJ	0.0011	< 0.0010 UJ
	MW1-ROX-011725	1/17/2025	< 0.025	0.0041	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0010	< 0.0050
MW-02	MW2-ROX-041724	4/17/2024	0.052	0.0026	0.022 J	0.0045	0.0051	0.00071 J	< 0.0010	< 0.0010	0.0041	< 0.000031 UJ	< 0.0010	0.21	0.043	< 0.025	< 0.0010	0.016
	MW2-ROX-071124	7/11/2024	< 0.05	< 0.0020	< 0.05	0.0040	0.0055	< 0.0020	< 0.0020	< 0.0020	0.0037	< 0.000031	< 0.0020	0.037 J	0.04	< 0.05	< 0.0020	0.0070 J
	MW2-ROX-071124-DUP	7/11/2024	< 0.05	< 0.0020	< 0.05	0.0043	0.0061	< 0.0020	< 0.0020	< 0.0020	0.0039	< 0.000034	< 0.0020	0.051 J	0.043	< 0.05	< 0.0020	0.0079 J
	MW2-ROX-100924	10/9/2024	0.011 J	0.00089 J	0.0064 J	0.0025	0.0049	0.00063 J	< 0.0010	< 0.0010	0.0025	< 0.000032	< 0.0010	0.013	0.03	< 0.025	< 0.0010	0.0045 J
	MW2-ROX-012425	1/24/2025	< 0.025	0.0027	< 0.025	0.0046	0.0061	< 0.0010	< 0.0010	< 0.0010	0.0038	< 0.000032	< 0.0010	0.11	0.047	< 0.025	< 0.0010	0.014
MW-03	MW3-ROX-041224	4/12/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000029	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00031 J	< 0.0050
	MW3-ROX-070524	7/5/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00025 J	< 0.0050
	MW3-ROX-101024	10/10/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00039 J	< 0.0050
	MW3-ROX-011625	1/16/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000035	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-04	MW4-ROX-041924	4/19/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0011	< 0.0050
	MW4-ROX-071224	7/12/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0026	< 0.0050
	MW4-ROX-101824	10/18/2024	< 0.025 UJ	0.00064 J	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW4-ROX-012725	1/27/2025	< 0.025	0.0012	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000034	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0022	< 0.0050
MW-05	MW5-ROX-041224	4/12/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	0.00074 J	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000030	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0011	< 0.0050
	MW5-ROX-070824	7/8/2024	< 0.025 UJ	< 0.0010	< 0.025	< 0.0010	< 0.0010	0.0022	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0029	< 0.0050
	MW5-ROX-101124	10/11/2024	< 0.025	0.00026 J	< 0.025	< 0.0010	< 0.0010	0.0018	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0018	< 0.0050
	MW5-ROX-101124-DUP	10/11/2024	< 0.025	0.00067 J	< 0.025	< 0.0010	< 0.0010	0.0014	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0018	< 0.0050
	MW5-ROX-011625	1/16/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	0.0016	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-06A	MW6A-ROX-041124	4/11/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000029	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW6A-ROX-071024	7/10/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000030	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00029 J	< 0.0050
	MW6A-ROX-100924	10/9/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00031 J	< 0.0050
	MW6A-ROX-012225	1/22/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00032 J	< 0.0050
MW-06B	MW6B-ROX-041124	4/11/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000029	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00048 J	< 0.0050
	MW6B-ROX-041124-DUP	4/11/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000029	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00048 J	< 0.0050
	MW6B-ROX-071024	7/10/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00047 J	< 0.0050
	MW6B-ROX-100824	10/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000035	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00035 J	< 0.0050
	MW6B-ROX-012225	1/22/2025	< 0.025	0.00081 J	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00030 J	< 0.0050
MW-06C	MW6C-ROX-040924	4/9/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000029 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00023 J	< 0.0050
	MW6C-ROX-071024	7/10/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW6C-ROX-100824	10/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW6C-ROX-012025	1/20/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-06D	MW6D-ROX-040924	4/9/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	0.00062 J	< 0.0010 UJ	< 0.0010	< 0.0						

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs															
			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl Tert-Butyl Ether (MTBE)	Naphthalene
Screening Values (mg/L)			6.3 ¹	0.005 ¹	4.2 ¹	0.35 ³	0.7 ³	0.7 ³	0.7 ¹	5,320 ³		0.0002 ²	0.07 ¹	0.7 ¹	0.7 ¹	19,000 ³	0.7 ¹	0.14 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
MW-07	MW7-ROX-041924	4/19/2024	< 25	190	< 25	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 0.000031	< 1	< 1	< 1	< 25	< 1	< 5
	MW7-ROX-041924-DUP	4/19/2024	< 25	220	< 25	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 0.000031	< 1	< 1	< 1	< 25	< 1	< 5
	MW7-ROX-071524	7/15/2024	< 63 UJ	900	< 63 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 0.000031	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 63 UJ	< 2.5 UJ	< 13 UJ
	MW7-ROX-012725	1/27/2025	< 50	390	< 50	< 2	< 2	< 2	< 2	< 2	< 2	< 0.000033	< 2	< 2	< 2	< 50	< 2	< 10
MW-09	MW9-ROX-041524	4/15/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000030	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW9-ROX-070524	7/5/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000037	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW9-ROX-100424	10/4/2024	< 0.01 UJ	< 0.00050	< 0.0050 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0050	< 0.0010	< 0.000032	< 0.0010	< 0.00050	< 0.0010	< 0.0050 UJ	< 0.0010	< 0.0010 UJ
	MW9-ROX-011725	1/17/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-10	MW10-ROX-040424	4/4/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000029 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW10-ROX-070824	7/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW10-ROX-100724	10/7/2024	< 0.01	< 0.00050	< 0.0050 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0050	< 0.0010	< 0.000034	< 0.0010	< 0.00050	< 0.0010	< 0.0050 UJ	< 0.0010	< 0.0010 UJ
	MW10-ROX-011725	1/17/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-11	MW11-ROX-040524	4/5/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000029	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW11-ROX-070524	7/5/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW11-ROX-100424	10/4/2024	< 0.01 UJ	< 0.00050	< 0.0050 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0050	< 0.0010	< 0.000033	< 0.0010	< 0.00050	< 0.0010	< 0.0050 UJ	< 0.0010	< 0.0010 UJ
	MW11-ROX-012225	1/22/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-12	MW12-ROX-041224	4/12/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000029	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW12-ROX-070524	7/5/2024	< 0.025 UJ	< 0.0010	< 0.025 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW12-ROX-101124	10/11/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW12-ROX-011625	1/16/2025	< 0.025	0.032	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-13	MW12-ROX-021325	2/13/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	--	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW13-ROX-041524	4/15/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00070 J	< 0.0050
	MW13-ROX-071124	7/11/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000035	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0011	< 0.0050
	MW13-ROX-101024	10/10/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00093 J	< 0.0050
	MW13-ROX-012325	1/23/2025	< 0.025	0.00056 J	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00081 J	< 0.0050
MW-14	MW13-ROX-012325-DUP	1/23/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00077 J	< 0.0050
	MW14-ROX-041124	4/11/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000029	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW14-ROX-070824	7/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000036	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW14-ROX-100924	10/9/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW14-ROX-012425	1/24/2025	< 0.025	0.0018	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	0.00069 J	< 0.025	< 0.0010	< 0.0050
MW-16	MW16-ROX-040924	4/9/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000029 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW16-ROX-070524	7/5/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW16-ROX-100424	10/4/2024	< 0.01 UJ	< 0.00050	< 0.0050 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0050	< 0.0010	< 0.000033	< 0.0010	< 0.00050	< 0.0010	< 0.0050 UJ	< 0.0010	< 0.0010 UJ
	MW16-ROX-011625	1/16/2025	< 0.025	0.0076	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW16-ROX-021425	2/14/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	--	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-22	MW22-ROX-041824	4/18/2024	< 0.13	0.057	< 0.13	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050 UJ	< 0.0050	< 0.000031	< 0.0050	0.072	0.014	< 0.13	< 0.0050	0.063
	MW22-ROX-041824-DUP	4/18/2024	< 0.13	0.052	< 0.13	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050 UJ	< 0.0050	< 0.000031	< 0.0050	0.064	0.012	< 0.13	< 0.0050	0.057
	MW22-ROX-071224	7/12/2024	< 0.05	0.044	< 0.05	0.0054	0.0031	0.0036	< 0.0020	< 0.0020	0.0015 J	< 0.000032	< 0.0020	0.4	0.042	< 0.05	< 0.0020	0.13
	MW22-ROX-101624	10/16/2024	< 0.13	0.018	< 0.13	0.012	0.0074	0.0083	< 0.0050	< 0.0050	0.0038 J	< 0.000032	< 0.0050	0.44	0.068	< 0.13	< 0.0050	0.16
	MW22-ROX-012425	1/24/2025	< 0.05	0.053	< 0.05	0.011	0.0072	0.011	< 0.0020	< 0.0020	0.0034	< 0.000033	< 0.0020	0.83	0.086	< 0.05	< 0.0020	0.19
MW-23	MW23-ROX-041524	4/15/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000031	0.00049 J	< 0.0010	< 0.0010	< 0.025	0.0013	< 0.0050
	MW23-ROX-070824	7/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	0.00069 J	< 0.0010	< 0.0010	< 0.025	0.0011	< 0.0050
	MW23-ROX-011124	10/11/2024	< 0.025	0.00059 J	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00061 J	< 0.0050
	MW23-ROX-012325	1/23/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	0.00031 J	< 0.0010	< 0.0010	< 0.025	0.00076 J	< 0.0050

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs															
Screening Values (mg/L)			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene
Screening Values (mg/L)			6.3 ¹	0.005 ¹	4.2 ¹	0.35 ³	0.7 ³	0.7 ³	0.7 ¹	5,320 ³		0.0002 ²	0.07 ¹	0.7 ¹	0.7 ¹	19,000 ³	0.7 ¹	0.14 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
MW-24	MW24-ROX-040824	4/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000032 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW24-ROX-070924	7/9/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW24-ROX-101424	10/14/2024	< 0.025	0.00056 J	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW24-ROX-011725	1/17/2025	< 0.025	0.0015	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW24-ROX-021425	2/14/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	--	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-25	MW25-ROX-041924	4/19/2024	0.014 J	0.044	< 0.025	< 0.0010	< 0.0010	0.00093 J	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00089 J	< 0.0050
	MW25-ROX-071524	7/15/2024	0.02 J*+ J	0.0067	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000034	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00038 J	< 0.0050
	MW25-ROX-071524-DUP	7/15/2024	0.02 J*+ J	0.0072	< 0.025	< 0.0010	< 0.0010	0.00067 J	< 0.0010	< 0.0010	< 0.0010	< 0.000034	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00041 J	< 0.0050
	MW25-ROX-101824	10/18/2024	< 0.025	0.043	< 0.025	< 0.0010	< 0.0010	0.0011	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000037	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW25-ROX-101824-DUP	10/18/2024	< 0.025	0.039	< 0.025	< 0.0010	< 0.0010	0.00075 J	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW25-ROX-012725	1/27/2025	< 50	650	< 50	< 2	< 2	< 2	< 2	< 2	< 2	< 0.000034	< 2	< 2	< 2	< 50	< 2	< 10
	MW25-ROX-012725-DUP	1/27/2025	< 50	610	< 50	< 2	< 2	< 2	< 2	< 2	< 2	< 0.000034	< 2	< 2	< 2	< 50	< 2	< 10
MW-26	MW26-ROX-040424	4/4/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000030 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW26-ROX-070524	7/5/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW26-ROX-100724	10/7/2024	< 0.01 UJ	< 0.00050	< 0.0050 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0050	< 0.0010	< 0.000033	< 0.0010	< 0.00050	< 0.0010	< 0.0050 UJ	< 0.0010	< 0.0010 UJ
	MW26-ROX-012825	1/28/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-27	MW27-ROX-040424	4/4/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000029 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW27-ROX-070824	7/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW27-ROX-101424	10/14/2024	< 0.025	0.00038 J	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	MW27-ROX-011725	1/17/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
MW-28	MW28-ROX-041224	4/12/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000030	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0022	< 0.0050
	MW28-ROX-070824	7/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0020	< 0.0050
	MW28-ROX-101524	10/15/2024	< 0.025 UJ	0.00025 J	< 0.025 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000034	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00052 J	< 0.0050
	MW28-ROX-011725	1/17/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00028 J	< 0.0050
P-54	P54-ROX-040824	4/8/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000029 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	P54-ROX-070924	7/9/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	P54-ROX-101424	10/14/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	P54-ROX-011725	1/17/2025	< 0.025	0.0045	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	P54-ROX-021425	2/14/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.00059 J	< 0.0010	--	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
P-56	P56-ROX-041824	4/18/2024	< 0.025	0.00063 J	< 0.025	< 0.0010	0.0019	< 0.0010	0.00089 J	< 0.0010	< 0.0010	< 0.000030	< 0.0010	< 0.0010	0.012	< 0.025	< 0.0010	< 0.0050
	P56-ROX-071024	7/10/2024	0.015 J*+ J	< 0.0010	< 0.025	< 0.0010	0.0012	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000034	< 0.0010	< 0.0010	0.0065	< 0.025	< 0.0010	< 0.0050
	P56-ROX-101524	10/15/2024	< 0.13	< 0.0050	< 0.13	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.000031	< 0.0050	0.11	0.032	< 0.13	< 0.0050	0.016 J
	P56-ROX-012325	1/23/2025	< 0.025	< 0.0010	< 0.025	0.0036	0.0045	< 0.0010	< 0.0010	< 0.0010	0.0030	< 0.000032	< 0.0010	0.46	0.053	< 0.025	< 0.0010	0.039
P-57	P57-ROX-041824	4/18/2024	< 0.025	0.0089	< 0.025	0.0010	0.0031	0.0038	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000031	< 0.0010	0.00068 J	0.015 J	< 0.025	< 0.0010	< 0.0050
	P57-ROX-041824-DUP	4/18/2024	< 0.025	0.0078	< 0.025	< 0.0010	0.0017	0.0022	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000030	< 0.0010	< 0.0010	0.0092 J	< 0.025	< 0.0010	< 0.0050
	P57-ROX-071024	7/10/2024	< 0.025	0.0062	< 0.025	0.0013	0.0045	0.0054	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	0.00054 J	0.018	< 0.025	< 0.0010	< 0.0050
	P57-ROX-101724	10/17/2024	< 0.025	0.066	< 0.025	0.0018	0.0040	0.0053	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	0.0017	0.015	< 0.025	< 0.0010	0.016
	P57-ROX-012325	1/23/2025	< 0.025	0.1	< 0.025	0.0059	0.011	0.012	< 0.0010	< 0.0010	0.00088 J	< 0.000033	< 0.0010	0.0045	0.043	< 0.025	< 0.0010	0.032
P-58	P58-ROX-041724	4/17/2024	< 13	430	< 13	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.000031 UJ	< 0.5	0.28 J	< 0.5	< 13	< 0.5	< 2.5
	P58-ROX-071724	7/17/2024	< 50	340	< 50	< 2	< 2	< 2	< 2	< 2	< 2	< 0.000033	< 2	< 2	< 2	< 50	< 2	< 10
	P58-ROX-071724-DUP	7/17/2024	< 50	300	< 50	< 2	< 2	< 2	< 2	< 2	< 2	< 0.000033	< 2	< 2	< 2	< 50	< 2	< 10
	P58-ROX-101724	10/17/2024	< 25	230	< 25	< 1	< 1	< 1	< 1	< 1	< 1	< 0.000032	< 1	< 1	< 1	< 25	< 1	< 5
	P58-ROX-012725	1/27/2025	< 50	230	< 50	< 2	< 2	< 2	< 2	< 2	< 2	< 0.000034	< 2	< 2	< 2	< 50	< 2	< 10

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs															
			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chloromethane	Cymene (p-Isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene
Screening Values (mg/L)			6.3 ¹	0.005 ¹	4.2 ¹	0.35 ³	0.7 ³	0.7 ³	0.7 ¹	5,320 ³		0.0002 ²	0.07 ¹	0.7 ¹	0.7 ¹	19,000 ³	0.7 ¹	0.14 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
P-59	P59-ROX-041924	4/19/2024	0.18	0.91	0.051 J	0.0048 J	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.000030	< 0.0050	0.072	0.052	< 0.13	< 0.0050	0.026
	P59-ROX-071524	7/15/2024	< 0.13	0.19	< 0.13	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.000033	< 0.0050	0.035	0.011	< 0.13	< 0.0050	< 0.025
	P59-ROX-101624	10/16/2024	< 0.13	0.91	< 0.13	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.000032	< 0.0050	0.3	0.023	< 0.13	< 0.0050	0.055
	P59-ROX-012425	1/24/2025	0.033	0.23	< 0.025	0.0031	0.0019	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000034	< 0.0010	0.088	0.028	< 0.025	< 0.0010	0.024
	P59-ROX-012425-DUP	1/24/2025	0.034	0.41	< 0.025	0.0037	0.0022	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	0.16	0.034	< 0.025	< 0.0010	0.037
P-74	P74-ROX-041824	4/18/2024	0.024 J	0.055	0.0083 J	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000031	< 0.0010	0.00067 J	< 0.0010	< 0.025	< 0.0010	< 0.0050
	P74-ROX-071224	7/12/2024	0.22	0.91	0.054 J*+ J	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.000033	< 0.0050	0.066	< 0.0050	0.0095 J	< 0.0050	< 0.025
	P74-ROX-071224-DUP	7/12/2024	0.21	0.93	0.059 J*+ J	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.000032	< 0.0050	0.07	< 0.0050	< 0.13	< 0.0050	< 0.025
	P74-ROX-101724	10/17/2024	< 0.25	1.8	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000031	< 0.01	0.11	< 0.01	< 0.25	< 0.01	< 0.05
	P74-ROX-101724-DUP	10/17/2024	< 0.25	1.8	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000032	< 0.01	0.1	< 0.01	< 0.25	< 0.01	< 0.05
	P74-ROX-012425	1/24/2025	< 0.25	3.5	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000033	< 0.01	0.052	< 0.01	< 0.25	< 0.01	< 0.05
P-93A	P93A-ROX-041824	4/18/2024	< 0.13	0.85	< 0.13	< 0.0050	< 0.0050	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.000031	< 0.0050	< 0.0050	< 0.0050	< 0.13	< 0.0050	< 0.025
	P93A-ROX-071224	7/12/2024	< 5	29	< 5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.000040	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 1
	P93A-ROX-101724	10/17/2024	< 25	190	< 25	< 1	< 1	< 1	< 1	< 1	< 1	< 0.000034	< 1	< 1	< 1	< 25	< 1	< 5
	P93A-ROX-012725	1/27/2025	< 5	40	< 5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.000033	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 1
	P93A-ROX-012725-DUP	1/27/2025	< 5	40	< 5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.000032	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 1
P-93B	P93B-ROX-041924	4/19/2024	< 50 UJ	1000	< 50 UJ	< 2 UJ	< 2 UJ	< 2 UJ	< 2 UJ	< 2 UJ	< 2 UJ	< 0.000032	< 2 UJ	< 2 UJ	< 2 UJ	< 50 UJ	< 2 UJ	< 10 UJ
	P93B-ROX-071724	7/17/2024	< 25	990	< 25	< 1	< 1	< 1	< 1	< 1	< 1	0.000057	< 1	< 1	< 1	< 25	< 1	< 5
	P93B-ROX-101724	10/17/2024	< 25 UJ	720	< 25 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 0.000032	< 1 UJ	< 1 UJ	< 1 UJ	< 25 UJ	< 1 UJ	< 5 UJ
	P93B-ROX-012725	1/27/2025	< 50	460	< 50	< 2	< 2	< 2	< 2	< 2	< 2	< 0.000034	< 2	< 2	< 2	< 50	< 2	< 10
P-93C	P93C-ROX-041924	4/19/2024	< 25	180	< 25	< 1	< 1	< 1	< 1	< 1	< 1	< 0.000031	< 1	< 1	< 1	< 25	< 1	< 5
	P93C-ROX-071524	7/15/2024	< 0.025	13	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	0.00068 J	< 0.0010	< 0.025	0.0012	< 0.0050
	P93C-ROX-101724	10/17/2024	< 0.5	2.9	< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.000032	< 0.02	< 0.02	< 0.02	< 0.5	< 0.02	< 0.1
	P93C-ROX-012725	1/27/2025	< 2.5	13	< 2.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.000033	< 0.1	< 0.1	< 0.1	< 2.5	< 0.1	< 0.5
P-93D	P93D-ROX-042224	4/22/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0012	< 0.0050
	P93D-ROX-071224	7/12/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	P93D-ROX-101524	10/15/2024	< 0.025	0.00027 J	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0013	< 0.0050
	P93D-ROX-012325	1/23/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00077 J	< 0.0050
P-114R	P114R-ROX-041524	4/15/2024	< 0.025	0.0021	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010 UJ	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00066 J	< 0.0050
	P114R-ROX-071124	7/11/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0011	< 0.0050
	P114R-ROX-101024	10/10/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.0011	< 0.0050
	P114R-ROX-012325	1/23/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000034	< 0.0010	< 0.0010	< 0.0010	< 0.025	0.00096 J	< 0.0050
ROST-3-MW	ROST3MW-ROX-041624	4/16/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000030 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	ROST3MW-ROX-070924	7/9/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	ROST3MW-ROX-101524	10/15/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000037	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	ROST3MW-ROX-012025	1/20/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
ROST-4-PZ(C)	ROST4PZ(C)-ROX-041624	4/16/2024	< 0.025	0.0020	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000029 UJ	< 0.0010	0.00053 J	0.0013	< 0.025	< 0.0010	< 0.0050
	ROST4PZ(C)-ROX-041624-DUP	4/16/2024	< 0.025	0.0019	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000029 UJ	< 0.0010	< 0.0010	0.0012	< 0.025	< 0.0010	< 0.0050
	ROST4PZ(C)-ROX-070924	7/9/2024	0.014 J	0.0011	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	0.00051 J	0.0014	< 0.025	< 0.0010	0.014
	ROST4PZ(C)-ROX-101624	10/16/2024	< 0.025	0.0016	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	0.00054 J	0.0044	< 0.025	< 0.0010	0.049
	ROST4PZ(C)-ROX-101624-DUP	10/16/2024	< 0.025	0.0017	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	0.00071 J	0.0037	< 0.025	< 0.0010	0.05
	ROST4PZ(C)-ROX-012225	1/22/2025	< 0.025	0.0011	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	< 0.0010	0.0066	< 0.025	< 0.0010	0.066

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs															
			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chloromethane	Cymene (p-isopropyltoluene)	1,2-Dibromo-3-chloropropane (DBCP)	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	Methyl tert-Butyl Ether (MTBE)	Naphthalene
Screening Values (mg/L)			6.3 ¹	0.005 ¹	4.2 ¹	0.35 ³	0.7 ³	0.7 ³	0.7 ¹	5,320 ³		0.0002 ²	0.07 ¹	0.7 ¹	0.7 ¹	19,000 ³	0.7 ¹	0.14 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
ROST-4-PZ(E)	ROST4PZ(E)-ROX-041624	4/16/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000030 UJ	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	ROST4PZ(E)-ROX-071024	7/10/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	ROST4PZE-ROX-101524	10/15/2024	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	ROST4PZ(E)-ROX-012025	1/20/2025	< 0.025	< 0.0010	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000035	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
ROST-4-PZ(G)	ROST4PZ(G)-ROX-040524	4/5/2024	< 0.025	< 0.0010	0.0066 J	< 0.0010	< 0.0010	< 0.0010	0.00075 J	< 0.0010 UJ	< 0.0010	< 0.000030	< 0.0010	< 0.0010	< 0.0010	< 0.025	< 0.0010	< 0.0050
	ROST4PZ(G)-ROX-070924	7/9/2024	0.013 J	0.0012	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000032	< 0.0010	< 0.0010	0.00091 J	< 0.025	< 0.0010	< 0.0050
	ROST4PZG-ROX-101624	10/16/2024	< 0.025	0.0056	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000031	< 0.0010	0.00093 J	0.0041	< 0.025	< 0.0010	0.0040 J
	ROST4PZ(G)-ROX-012225	1/22/2025	< 0.025	0.0076	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	0.00091 J	0.0058	< 0.025	< 0.0010	0.0071
	ROST4PZ(G)-ROX-012225-DUP	1/22/2025	< 0.025	0.0073	< 0.025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.000033	< 0.0010	0.00089 J	0.0053	< 0.025	< 0.0010	0.0048 J
T-12	T12-ROX-041924	4/19/2024	< 0.25	1.2	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000031	< 0.01	< 0.01	0.0061 J	< 0.25	< 0.01	< 0.05
	T12-ROX-071524	7/15/2024	< 0.25	1.9	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000032	< 0.01	0.19	0.013	< 0.25	< 0.01	< 0.05
	T12-ROX-101624	10/16/2024	< 0.25	1.4	< 0.25	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.000034	< 0.01	0.044	0.019	< 0.25	< 0.01	< 0.05
	T12-ROX-012425	1/24/2025	< 0.13	1.8	< 0.13	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.000032	< 0.0050	0.18	0.028	< 0.13	< 0.0050	0.069

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs										SVOCs					
			n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylenes	o-Xylenes	Xylenes (total)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
Screening Values (mg/L)			0.7 ³	0.1 ¹	0.005 ¹	1.0 ¹	0.005 ¹	0.07 ³	0.07 ³	10 ¹		10 ¹	0.42 ¹	0.42 ³	2.1 ¹	0.00013 ¹	0.0002 ¹	0.00018 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
MW-01	MW1-ROX-040424	4/4/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	0.000051 J	< 0.00020	< 0.00020	< 0.00020
	MW1-ROX-070524	7/5/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW1-ROX-100724	10/7/2024	< 0.0010	< 0.0010	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.0010	< 0.0010	< 0.00050	< 0.0010	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW1-ROX-100724-DUP	10/7/2024	< 0.0010	< 0.0010	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.0010	< 0.0010	< 0.00050	< 0.0010	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW1-ROX-011725	1/17/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW1-ROX-021425	2/14/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	--	--	--	--	--	--
MW-02	MW2-ROX-041724	4/17/2024	0.063	< 0.0010	< 0.0010	0.0033	< 0.0010	0.024	0.023	0.11	0.01	0.12	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW2-ROX-071124	7/11/2024	0.062	< 0.0020	< 0.0020	0.0022	< 0.0020	0.0067	0.012	0.014	0.0020 J	0.016 J	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW2-ROX-071124-DUP	7/11/2024	0.068	< 0.0020	< 0.0020	0.0025	< 0.0020	0.0083	0.015	0.022	0.0025 J	0.025	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW2-ROX-100924	10/9/2024	0.048	< 0.0010	< 0.0010	0.0015	< 0.0010	0.0037	0.0066	0.0050	< 0.0050	0.0060 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW2-ROX-012425	1/24/2025	0.07	< 0.0010	< 0.0010	0.0022	< 0.0010	0.016	0.02	0.053	0.0058	0.059	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MW-03	MW3-ROX-041224	4/12/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW3-ROX-070524	7/5/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW3-ROX-101024	10/10/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW3-ROX-011625	1/16/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-04	MW4-ROX-041924	4/19/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW4-ROX-071224	7/12/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	0.000046 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW4-ROX-101824	10/18/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW4-ROX-012725	1/27/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MW-05	MW5-ROX-041224	4/12/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW5-ROX-070824	7/8/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW5-ROX-101124	10/11/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW5-ROX-101124-DUP	10/11/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW5-ROX-011625	1/16/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-06A	MW6A-ROX-041124	4/11/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW6A-ROX-071024	7/10/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	0.000020	< 0.00020	0.000039 J	< 0.00020	< 0.00020
	MW6A-ROX-100924	10/9/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.000046 J
	MW6A-ROX-012225	1/22/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-06B	MW6B-ROX-041124	4/11/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	0.000049 J	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW6B-ROX-041124-DUP	4/11/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	0.000055 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW6B-ROX-071024	7/10/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW6B-ROX-100824	10/8/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW6B-ROX-012225	1/22/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MW-06C	MW6C-ROX-040924	4/9/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW6C-ROX-071024	7/10/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW6C-ROX-100824	10/8/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW6C-ROX-012025	1/20/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-06D	MW6D-ROX-040924	4/9/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00061	0.00041 B	0.00076	0.00010 J	< 0.00020	0.000065 J
	MW6D-ROX-071024	7/10/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
	MW6D-ROX-071024-DUP	7/10/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW6D-ROX-100824	10/8/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW6D-ROX-012225	1/22/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

[illegible]

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs										SVOCs					
			n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylenes	o-Xylenes	Xylenes (total)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
Screening Values (mg/L)			0.7 ³	0.1 ¹	0.005 ¹	1.0 ¹	0.005 ¹	0.07 ³	0.07 ³	10 ¹		10 ¹	0.42 ¹	0.42 ³	2.1 ¹	0.00013 ¹	0.0002 ¹	0.00018 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
MW-24	MW24-ROX-040824	4/8/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW24-ROX-070924	7/9/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
	MW24-ROX-101424	10/14/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW24-ROX-011725	1/17/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW24-ROX-021425	2/14/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	--	--	--	--	--	--
MW-25	MW25-ROX-041924	4/19/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW25-ROX-071524	7/15/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW25-ROX-071524-DUP	7/15/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
	MW25-ROX-101824	10/18/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW25-ROX-101824-DUP	10/18/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW25-ROX-012725	1/27/2025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 20	0.00011 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MW-26	MW25-ROX-012725-DUP	1/27/2025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 20	0.00010 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	MW26-ROX-040424	4/4/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW26-ROX-070524	7/5/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW26-ROX-100724	10/7/2024	< 0.0010	< 0.0010	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.0010	< 0.0010	< 0.00050	< 0.0010	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-27	MW26-ROX-012825	1/28/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	MW27-ROX-040424	4/4/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW27-ROX-070824	7/8/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	0.000060 J	0.000047 J	< 0.00019	< 0.00019	< 0.00019
	MW27-ROX-101424	10/14/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
MW-28	MW27-ROX-011725	1/17/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	MW28-ROX-041224	4/12/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW28-ROX-070824	7/8/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	MW28-ROX-101524	10/15/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
P-54	MW28-ROX-011725	1/17/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P54-ROX-040824	4/8/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	P54-ROX-070924	7/9/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	P54-ROX-101424	10/14/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P54-ROX-011725	1/17/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
P-56	P54-ROX-021425	2/14/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	--	--	--	--	--	--
	P56-ROX-041824	4/18/2024	0.014	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0014 J	< 0.0050	< 0.01	0.00037	< 0.00022	0.000061 J	< 0.00022	< 0.00022	< 0.00022
	P56-ROX-071024	7/10/2024	0.0063	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00062	< 0.00020	0.00010 J	< 0.00020	< 0.00020	< 0.00020
	P56-ROX-101524	10/15/2024	0.036	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.047	0.015	0.12	< 0.025	0.12	0.0012	0.00012 J	0.00015 J	< 0.00020	< 0.00020	< 0.00020
P-57	P56-ROX-012325	1/23/2025	0.06	< 0.0010	< 0.0010	0.0049	< 0.0010	0.12	0.038	0.26	0.014	0.28	0.0014 J	0.00010 J	0.00014 J	< 0.01	< 0.01	< 0.01
	P57-ROX-041824	4/18/2024	0.016 J	< 0.0010	< 0.0010	0.0045	< 0.0010	< 0.0010	< 0.0010	0.00099 J	< 0.0050	< 0.01	0.00029	0.000052 J	0.00018 J	< 0.00021	< 0.00021	< 0.00021
	P57-ROX-041824-DUP	4/18/2024	0.0091 J	< 0.0010	< 0.0010	0.0031	< 0.0010	< 0.0010	< 0.0010	0.00065 J	< 0.0050	< 0.01	0.00023	< 0.00022	0.000074 J	< 0.00022	< 0.00022	< 0.00022
	P57-ROX-071024	7/10/2024	0.016	< 0.0010	< 0.0010	0.0035	< 0.0010	< 0.0010	< 0.0010	0.00068 J	< 0.0050	< 0.01	0.00044	< 0.00020	0.000073 J	< 0.00020	< 0.00020	< 0.00020
	P57-ROX-101724	10/17/2024	0.016	< 0.0010	< 0.0010	0.0032	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00056	0.000072 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020
P-58	P57-ROX-012325	1/23/2025	0.054	< 0.0010	< 0.0010	0.0058	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00068 J	0.000089 J	< 0.01	< 0.01	< 0.01	< 0.01
	P58-ROX-041724	4/17/2024	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	< 5	0.00063	< 0.00020	0.00030	0.00023	0.00013 J	0.000072 J
	P58-ROX-071724	7/17/2024	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 20	0.00060	< 0.00021	< 0.00027 U	0.000086 J	< 0.00021	0.000038 J
	P58-ROX-071724-DUP	7/17/2024	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 20	0.00059	< 0.00021	< 0.00021 U	0.000059 J	< 0.00021	< 0.00021
	P58-ROX-101724	10/17/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 5	< 10	< 0.00020	0.00026	0.00010 J	0.00012 J	0.00014 J	0.000080 J
P-58	P58-ROX-012725	1/27/2025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 20	0.0017 J	0.00031 J	0.00014 J	0.00020 J	0.00025 J	0.00015 J

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs										SVOCs					
			n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylenes	o-Xylenes	Xylenes (total)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
Screening Values (mg/L)			0.7 ³	0.1 ¹	0.005 ¹	1.0 ¹	0.005 ¹	0.07 ³	0.07 ³	10 ¹		10 ¹	0.42 ¹	0.42 ³	2.1 ¹	0.00013 ¹	0.0002 ¹	0.00018 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
P-59	P59-ROX-041924	4/19/2024	0.076	< 0.0050	< 0.0050	0.057	< 0.0050	0.017	0.03	0.11	0.0034 J	0.12	0.00047	< 0.00021	0.00052	0.00012 J	< 0.00021	< 0.00021
	P59-ROX-071524	7/15/2024	0.013	< 0.0050	< 0.0050	0.015	< 0.0050	0.0080	0.0069	0.069	< 0.025	0.069	0.00035	< 0.00020	0.00012 J	0.000041 J	< 0.00020	< 0.00020
	P59-ROX-101624	10/16/2024	0.034	< 0.0050	< 0.0050	0.12	< 0.0050	0.12	0.021	0.37	< 0.025	0.38	0.00078	< 0.00020	0.000099 J	< 0.00020	< 0.00020	< 0.00020
	P59-ROX-012425	1/24/2025	0.04	< 0.0010	< 0.0010	0.06	< 0.0010	0.17	0.043	0.19	0.011	0.2	0.00064 J	< 0.01	0.000086 J	< 0.01	< 0.01	< 0.01
	P59-ROX-012425-DUP	1/24/2025	0.05	< 0.0010	< 0.0010	0.09	< 0.0010	0.21	0.05	0.29	0.014	0.31	0.00057 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
P-74	P74-ROX-041824	4/18/2024	< 0.0010	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	< 0.0010	0.0012 J	< 0.0050	< 0.01	< 0.00022	0.000086 J	0.00011 J	< 0.00022	< 0.00022	< 0.00022
	P74-ROX-071224	7/12/2024	< 0.0050	< 0.0050	< 0.0050	0.018	< 0.0050	0.0066	< 0.0050	0.071	< 0.025	0.073	< 0.00020	< 0.00020	0.000065 J	< 0.00020	< 0.00020	< 0.00020
	P74-ROX-071224-DUP	7/12/2024	< 0.0050	< 0.0050	< 0.0050	0.019	< 0.0050	0.0069	0.0029 J	0.075	< 0.025	0.077	0.00011 J	< 0.00019	0.00011 J	< 0.00019	< 0.00019	< 0.00019
	P74-ROX-101724	10/17/2024	< 0.01	< 0.01	< 0.01	0.035	< 0.01	0.034	0.011	0.19	< 0.05	0.2	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P74-ROX-101724-DUP	10/17/2024	< 0.01	< 0.01	< 0.01	0.033	< 0.01	0.028	0.0083 J	0.17	< 0.05	0.18	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P74-ROX-012425	1/24/2025	< 0.01	< 0.01	< 0.01	0.06	< 0.01	0.02	0.0083 J	0.094	< 0.05	0.099 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
P-93A	P93A-ROX-041824	4/18/2024	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.025	< 0.025	< 0.05	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
	P93A-ROX-071224	7/12/2024	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 2	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	P93A-ROX-101724	10/17/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 5	< 10	0.00011 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P93A-ROX-012725	1/27/2025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 2	0.00024 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	P93A-ROX-012725-DUP	1/27/2025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 2	0.00012 J	0.000055 J	< 0.01	< 0.01	< 0.01	< 0.01
P-93B	P93B-ROX-041924	4/19/2024	< 2 UJ	< 2 UJ	< 2 UJ	< 2 UJ	< 2 UJ	< 2 UJ	< 2 UJ	< 10 UJ	< 10 UJ	< 20 UJ	0.00027	0.00018 J	0.000089 J	< 0.00021	< 0.00021	< 0.00021
	P93B-ROX-071724	7/17/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.85 J	< 5	< 10	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	P93B-ROX-101724	10/17/2024	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 1 UJ	< 5 UJ	< 5 UJ	< 10 UJ	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P93B-ROX-012725	1/27/2025	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 20	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
P-93C	P93C-ROX-041924	4/19/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 5	< 10	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
	P93C-ROX-071524	7/15/2024	< 0.0010	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	P93C-ROX-101724	10/17/2024	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.1	< 0.1	< 0.2	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P93C-ROX-012725	1/27/2025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5	< 1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
P-93D	P93D-ROX-042224	4/22/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.00020 UJ	< 0.00020 UJ
	P93D-ROX-071224	7/12/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	P93D-ROX-101524	10/15/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P93D-ROX-012325	1/23/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
P-114R	P114R-ROX-041524	4/15/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00022	0.000064 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P114R-ROX-071124	7/11/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00018 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P114R-ROX-101024	10/10/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00039	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	P114R-ROX-012325	1/23/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00053 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ROST-3-MW	ROST3MW-ROX-041624	4/16/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00010 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	ROST3MW-ROX-070924	7/9/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00012 J	< 0.00019	0.000049 J	< 0.00019	< 0.00019 UJ	< 0.00019 UJ
	ROST3MW-ROX-101524	10/15/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00011 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	ROST3MW-ROX-012025	1/20/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00016 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
ROST-4-PZ(C)	ROST4PZ(C)-ROX-041624	4/16/2024	0.0025	< 0.0010	< 0.0010	0.0019	< 0.0010	0.0014	< 0.0010	0.0014 J	< 0.0050	0.0016 J	0.00029	< 0.00019	0.00031	< 0.00019	< 0.00019	< 0.00019
	ROST4PZ(C)-ROX-041624-DUP	4/16/2024	0.0022	< 0.0010	< 0.0010	0.0017	< 0.0010	0.0013	< 0.0010	0.0012 J	< 0.0050	< 0.01	0.00031	< 0.00020	0.00034	< 0.00020	< 0.00020	< 0.00020
	ROST4PZ(C)-ROX-070924	7/9/2024	0.0019	< 0.0010	< 0.0010	0.0042	< 0.0010	0.0015	< 0.0010	0.0055	< 0.0050	0.0060 J	0.00034 J	< 0.00039	0.00028	< 0.00020	< 0.00020	< 0.00020
	ROST4PZ(C)-ROX-101624	10/16/2024	0.0066	< 0.0010	< 0.0010	0.0088	< 0.0010	0.0064	0.00094 J	0.024	< 0.0050	0.026	0.0010	0.00013 J	0.00035	< 0.00020	< 0.00020	< 0.00020
	ROST4PZ(C)-ROX-101624-DUP	10/16/2024	0.0055	< 0.0010	< 0.0010	0.0078	< 0.0010	0.0059	0.00097 J	0.022	< 0.0050	0.024	0.00093	0.00010 J	0.00031	< 0.00020	< 0.00020	< 0.00020
	ROST4PZ(C)-ROX-012225	1/22/2025	0.0095	< 0.0010	< 0.0010	0.01	< 0.0010	0.0076	0.0025	0.036	< 0.0050	0.038	0.0014 J	0.00017 J	0.00037 J	< 0.01	< 0.01	< 0.01

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			VOCs										SVOCs					
			n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylenes	o-Xylenes	Xylenes (total)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
Screening Values (mg/L)			0.7 ³	0.1 ¹	0.005 ¹	1.0 ¹	0.005 ¹	0.07 ³	0.07 ³	10 ¹		10 ¹	0.42 ¹	0.42 ³	2.1 ¹	0.00013 ¹	0.0002 ¹	0.00018 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
ROST-4-PZ(E)	ROST4PZ(E)-ROX-041624	4/16/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0024	< 0.0010	< 0.0050	< 0.0050	< 0.01	0.00017 J	< 0.00019	0.00024	< 0.00019	< 0.00019	< 0.00019
	ROST4PZ(E)-ROX-071024	7/10/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	0.000069 J	< 0.00019	< 0.00019	< 0.00019
	ROST4PZE-ROX-101524	10/15/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	0.00017 J	< 0.00020	< 0.00020	< 0.00020
	ROST4PZ(E)-ROX-012025	1/20/2025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
ROST-4-PZ(G)	ROST4PZ(G)-ROX-040524	4/5/2024	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019	< 0.00019
	ROST4PZ(G)-ROX-070924	7/9/2024	0.00095 J	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0016 J	< 0.0050	0.0018 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	ROST4PZG-ROX-101624	10/16/2024	0.0055	< 0.0010	< 0.0010	0.0014	< 0.0010	< 0.0010	< 0.0010	0.0081	< 0.0050	0.0093 J	0.00010 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	ROST4PZ(G)-ROX-012225	1/22/2025	0.0083	< 0.0010	< 0.0010	0.0016	< 0.0010	< 0.0010	< 0.0010	0.0070	< 0.0050	0.0085 J	0.00011 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	ROST4PZ(G)-ROX-012225-DUP	1/22/2025	0.0075	< 0.0010	< 0.0010	0.0015	< 0.0010	< 0.0010	< 0.0010	0.0063	< 0.0050	0.0077 J	0.000086 J	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
T-12	T12-ROX-041924	4/19/2024	< 0.01	< 0.01	< 0.01	0.023	< 0.01	< 0.01	< 0.01	0.017 J	< 0.05	0.017 J	0.00040	< 0.00022	0.00011 J	< 0.00022	< 0.00022	< 0.00022
	T12-ROX-071524	7/15/2024	0.022	< 0.01	< 0.01	0.22	< 0.01	< 0.01	0.0092 J	0.28	0.016 J	0.3	0.00025	< 0.00020	0.00010 J	< 0.00020	< 0.00020	< 0.00020
	T12-ROX-101624	10/16/2024	0.033	< 0.01	< 0.01	0.1	< 0.01	< 0.01	0.012	0.23	< 0.05	0.25	0.00047	0.000050 J	0.000073 J	< 0.00019	< 0.00019	< 0.00019
	T12-ROX-012425	1/24/2025	0.048	< 0.0050	< 0.0050	0.23	< 0.0050	0.037	0.039	0.71	0.1	0.82	0.00036 J	< 0.0099	0.000076 J	< 0.0099	< 0.0099	< 0.0099

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			SVOCs															
Screening Values (mg/L)			Benzo(g,h,i)perylene	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)acridine	Dibenzo(a,h)anthracene	2,4-Dimethylphenol	Fluoranthene	Fluorene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	3&4-Methylphenol	4-Nitrophenol	Phenanthrene	Phenol	Pyrene
Screening Values (mg/L)			0.21 ³	0.012 ¹		0.0003 ¹	0.14 ²	0.28 ¹	0.28 ¹		0.00043 ¹	0.49 ³	0.028 ¹	0.14 ³	11,600 ³	0.21 ³	0.1 ¹	0.21 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
MW-01	MW1-ROX-040424	4/4/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	0.000036 J	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020 U	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
	MW1-ROX-070524	7/5/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
	MW1-ROX-100724	10/7/2024	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0095	< 0.00020	< 0.0095	< 0.00020
	MW1-ROX-100724-DUP	10/7/2024	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0094	< 0.00020	< 0.0094	< 0.00020
	MW1-ROX-011725	1/17/2025	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0096	< 0.00020	< 0.0096	< 0.00020
	MW1-ROX-021425	2/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02	MW2-ROX-041724	4/17/2024	< 0.00019	< 0.00019	< 0.0097 UJ	< 0.00019 UJ	< 0.0097	< 0.00019	< 0.00019	< 0.0097 UJ	< 0.00019	0.0055	0.0090 B	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW2-ROX-071124	7/11/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019 UJ	< 0.0096 UJ	< 0.00019	< 0.00019	< 0.0096	< 0.00019	0.0048	0.0067	< 0.019	< 0.0096	< 0.00019	< 0.0096	< 0.00019
	MW2-ROX-071124-DUP	7/11/2024	< 0.00020	< 0.00020	< 0.0099	< 0.00020 UJ	< 0.0099 UJ	< 0.00020	< 0.00020	< 0.0099	< 0.00020	0.0056	0.0078	< 0.02	< 0.0099	< 0.00020	< 0.0099	< 0.00020
	MW2-ROX-100924	10/9/2024	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.0094	< 0.00020	0.0056	0.0057	< 0.019	< 0.0094	< 0.00020	< 0.0094	< 0.00020
	MW2-ROX-012425	1/24/2025	< 0.01	< 0.01	< 0.0094	< 0.01	< 0.0094	< 0.01	< 0.01	< 0.0094	< 0.01	0.0085 J	0.014	< 0.019	< 0.0094	< 0.01	< 0.0094	< 0.01
MW-03	MW3-ROX-041224	4/12/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW3-ROX-070524	7/5/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW3-ROX-101024	10/10/2024	< 0.00019	< 0.00019	< 0.01	< 0.00019	< 0.01	< 0.00019	< 0.00019	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.02	< 0.01	< 0.00019	< 0.01	< 0.00019
	MW3-ROX-011625	1/16/2025	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0097	< 0.00020	< 0.0097	< 0.00020
MW-04	MW4-ROX-041924	4/19/2024	< 0.00020	< 0.00020 UJ	< 0.0098	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	0.00033	< 0.00048 U	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020 UJ
	MW4-ROX-071224	7/12/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ	< 0.01 UJ	< 0.00020	< 0.00020	< 0.01	< 0.00020	0.000089 J	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
	MW4-ROX-101824	10/18/2024	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.0093	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.00020	< 0.00020	< 0.019	0.0036 J	< 0.00020	< 0.0093	< 0.00020
	MW4-ROX-012725	1/27/2025	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.0095	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.01	< 0.01	< 0.019	< 0.0095	< 0.01	< 0.0095	< 0.01
MW-05	MW5-ROX-041224	4/12/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.0096	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0096	< 0.00019	< 0.0096	< 0.00019
	MW5-ROX-070824	7/8/2024	< 0.00019	< 0.00019	< 0.0094	< 0.00019	< 0.0094	< 0.00019	< 0.00019	< 0.0094	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0094	< 0.00019	< 0.0094	< 0.00019
	MW5-ROX-101124	10/11/2024	< 0.00019	< 0.00019	< 0.0098	< 0.00019	< 0.0098	< 0.00019	< 0.00019	< 0.0098	< 0.00019	< 0.00019	< 0.00019	< 0.02	< 0.0098	< 0.00019	< 0.0098	< 0.00019
	MW5-ROX-101124-DUP	10/11/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW5-ROX-011625	1/16/2025	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0096	< 0.00020	< 0.0096	< 0.00020
MW-06A	MW6A-ROX-041124	4/11/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW6A-ROX-071024	7/10/2024	< 0.00020	0.000036 J	< 0.01	< 0.00020 UJ	< 0.01 UJ	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.00020 U	< 0.02	< 0.01	< 0.00020	< 0.01
	MW6A-ROX-100924	10/9/2024	< 0.00020	0.000055 J	< 0.0098	< 0.00020	< 0.0098	0.000041 J	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	0.000046 J	0.0064 J	0.000062 J
	MW6A-ROX-012225	1/22/2025	< 0.00020	< 0.00020	< 0.011	< 0.00020	< 0.011	< 0.00020	< 0.00020	< 0.011	< 0.00020	< 0.00020	< 0.00020	< 0.021	< 0.011	< 0.00020	< 0.011	< 0.00020
MW-06B	MW6B-ROX-041124	4/11/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW6B-ROX-041124-DUP	4/11/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW6B-ROX-071024	7/10/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ	< 0.01 UJ	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	0.00013 J	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
	MW6B-ROX-100824	10/8/2024	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.019	< 0.0095	< 0.00020	< 0.0095	< 0.00020
	MW6B-ROX-012225	1/22/2025	< 0.01	< 0.01	< 0.011	< 0.01	< 0.011	< 0.01	< 0.01	< 0.011	< 0.01	< 0.01	< 0.01	< 0.021	< 0.011	< 0.01	< 0.011	< 0.01
MW-06C	MW6C-ROX-040924	4/9/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.0096	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0096	< 0.00019	< 0.0096	< 0.00019
	MW6C-ROX-071024	7/10/2024	< 0.00019	< 0.00019	< 0.0094	< 0.00019 UJ	< 0.0094 UJ	< 0.00019	< 0.00019	< 0.0094	< 0.00019	< 0.00019	0.000092 J	< 0.019	< 0.0094	< 0.00019	< 0.0094	< 0.00019
	MW6C-ROX-100824	10/8/2024	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.019	< 0.0094	< 0.00020	< 0.0094	< 0.00020
	MW6C-ROX-012025	1/20/2025	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0096	0.000050 J	< 0.0096	< 0.00020
MW-06D	MW6D-ROX-040924	4/9/2024	< 0.00020	0.000054 J	< 0.0099	< 0.00020	< 0.0099	0.00054	0.00099	< 0.0099	< 0.00020	< 0.00079 U	< 0.0011 U	< 0.02	< 0.0099	0.00097	< 0.0099	0.00049
	MW6D-ROX-071024	7/10/2024	< 0.00021	< 0.00021	< 0.01	< 0.00021 UJ	< 0.01 UJ	< 0.00021	< 0.00021	< 0.01	< 0.00021	< 0.00021	< 0.00021	< 0.021	< 0.01	< 0.00021	< 0.01	< 0.00021
	MW6D-ROX-071024-DUP	7/10/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ	< 0.01 UJ	< 0.00020	< 0.00020	< 0.01	< 0.00020	0.000098 J	0.00018 J	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
	MW6D-ROX-100824	10/8/2024	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.019	< 0.0097	< 0.00020	< 0.0097 UJ	< 0.00020
	MW6D-ROX-012225	1/22/2025	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.0095	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.01	< 0.01	< 0.019	< 0.0095	< 0.01	< 0.0095	< 0.01

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			SVOCs															
			Benzo(g,h,i)perylene	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)acridine	Dibenzo(a,h)anthracene	2,4-Dimethylphenol	Fluoranthene	Fluorene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	3&4-Methylphenol	4-Nitrophenol	Phenanthrene	Phenol	Pyrene
Screening Values (mg/L)			0.21 ³	0.012 ¹		0.0003 ¹	0.14 ²	0.28 ¹	0.28 ¹		0.00043 ¹	0.49 ³	0.028 ¹	0.14 ³	11,600 ³	0.21 ³	0.1 ¹	0.21 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
MW-07	MW7-ROX-041924	4/19/2024	< 0.00020	< 0.00020	< 0.0099	< 0.00020	< 0.0099	< 0.00020	0.00024	< 0.0099	< 0.00020	0.0021	0.0019	< 0.02	< 0.0099	0.00051	0.045	< 0.00020 UJ
	MW7-ROX-041924-DUP	4/19/2024	< 0.00019	< 0.00019 UJ	< 0.0097	< 0.00019	< 0.0097	0.000033 J	0.00026	< 0.0097	< 0.00019	0.0020	0.0020	< 0.019	< 0.0097	0.00058	0.051	0.000094 J
	MW7-ROX-071524	7/15/2024	< 0.00022	< 0.00022	< 0.011	< 0.00022 UJ	< 0.011 UJ	< 0.00022	0.00016 J	< 0.011	< 0.00022	0.0014	0.0014	< 0.022	< 0.011	0.00031	0.063	< 0.00022
	MW7-ROX-012725	1/27/2025	< 0.01	< 0.01	< 0.0097	< 0.01	< 0.0097	< 0.01	0.00039 J	< 0.0097	< 0.01	0.0059 J	0.0076 J	< 0.019	< 0.0097	0.0014 J	0.032	0.00017 J
MW-09	MW9-ROX-041524	4/15/2024	< 0.00020	< 0.00020	0.0038 J	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW9-ROX-070524	7/5/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW9-ROX-100424	10/4/2024	< 0.00019	< 0.00019	< 0.01	< 0.00019	< 0.01	< 0.00019	< 0.00019	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.02	< 0.01	< 0.00019	< 0.01	< 0.00019
	MW9-ROX-011725	1/17/2025	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
MW-10	MW10-ROX-040424	4/4/2024	< 0.00019	< 0.00019	< 0.0095	< 0.00019	< 0.0095	< 0.00019	< 0.00019	< 0.0095	< 0.00019	< 0.00019	< 0.00019 U	< 0.019	< 0.0095	< 0.00019	< 0.0095	< 0.00019
	MW10-ROX-070824	7/8/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019 U	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW10-ROX-100724	10/7/2024	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0096	< 0.00020	< 0.0096	< 0.00020
	MW10-ROX-011725	1/17/2025	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0097	< 0.00020	< 0.0097	< 0.00020
MW-11	MW11-ROX-040524	4/5/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW11-ROX-070524	7/5/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW11-ROX-100424	10/4/2024	< 0.00019	< 0.00019	< 0.01	< 0.00019	< 0.01	< 0.00019	< 0.00019	< 0.01	< 0.00019	< 0.00019	< 0.00019 UJ	< 0.02	< 0.01	< 0.00019	< 0.01	< 0.00019
	MW11-ROX-012225	1/22/2025	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
MW-12	MW12-ROX-041224	4/12/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW12-ROX-070524	7/5/2024	0.000045 J	0.000038 J	< 0.0097	< 0.00019	< 0.0097 UJ	0.000048 J	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097 UJ	< 0.00019
	MW12-ROX-101124	10/11/2024	< 0.00019	< 0.00019	< 0.0094	< 0.00019	< 0.0094	< 0.00019	< 0.00019	< 0.0094	< 0.00019	< 0.00019	< 0.00019 UJ	< 0.019 UJ	< 0.0094	< 0.00019	< 0.0094 UJ	< 0.00019
	MW12-ROX-011625	1/16/2025	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0095	< 0.00020	< 0.0095	< 0.00020
MW-13	MW12-ROX-021325	2/13/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW13-ROX-041524	4/15/2024	< 0.00020	< 0.00020	0.0039 J	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW13-ROX-071124	7/11/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020 UJ	< 0.0098 UJ	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW13-ROX-101024	10/10/2024	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0096	< 0.00020	< 0.0096	< 0.00020
MW-14	MW13-ROX-012325	1/23/2025	< 0.0099	< 0.0099	< 0.0096	< 0.0099	< 0.0096	< 0.0099	< 0.0099	< 0.0096	< 0.0099	< 0.0099	< 0.0099	< 0.019	< 0.0096	< 0.0099	< 0.0096	< 0.0099
	MW13-ROX-012325-DUP	1/23/2025	< 0.01	< 0.01	< 0.0096	< 0.01	< 0.0096	< 0.01	< 0.01	< 0.0096	< 0.01	< 0.01	< 0.01	< 0.019	< 0.0096	< 0.01	< 0.0096	< 0.01
	MW14-ROX-041124	4/11/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.0096	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0096	< 0.00019	< 0.0096	< 0.00019
	MW14-ROX-070824	7/8/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
MW-16	MW14-ROX-100924	10/9/2024	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0095	< 0.00020	< 0.0095	< 0.00020
	MW14-ROX-012425	1/24/2025	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.0095	< 0.01	< 0.01	< 0.0095	< 0.01	0.000070 J	< 0.01	< 0.019	< 0.0095	< 0.01	< 0.0095	< 0.01
	MW16-ROX-040924	4/9/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.02	< 0.01	< 0.00020	< 0.01 UJ	< 0.00020
	MW16-ROX-070524	7/5/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
MW-22	MW16-ROX-100424	10/4/2024	< 0.00019	< 0.00019	< 0.01	< 0.00019	< 0.01	< 0.00019	< 0.00019	< 0.01	< 0.00019	< 0.00019	< 0.00019	< 0.02	< 0.01	< 0.00019	< 0.01	< 0.00019
	MW16-ROX-011625	1/16/2025	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0096	<		

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			SVOCs															
Screening Values (mg/L)			Benzo(g,h,i)perylene	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)acridine	Dibenzo(a,h)anthracene	2,4-Dimethylphenol	Fluoranthene	Fluorene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	3&4-Methylphenol	4-Nitrophenol	Phenanthrene	Phenol	Pyrene
Screening Values (mg/L)			0.21 ³	0.012 ¹		0.0003 ¹	0.14 ²	0.28 ¹	0.28 ¹		0.00043 ¹	0.49 ³	0.028 ¹	0.14 ³	11,600 ³	0.21 ³	0.1 ¹	0.21 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
MW-24	MW24-ROX-040824	4/8/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.0096	< 0.00019 H UJ	< 0.00019 H UJ	< 0.0096	< 0.00019	< 0.00019 H UJ	< 0.00019 H UJ	< 0.019	< 0.0096	< 0.00019 H UJ	< 0.0096	< 0.00019
	MW24-ROX-070924	7/9/2024	< 0.00021	< 0.00021	< 0.01	< 0.00021 UJ	< 0.01 UJ	< 0.00021	< 0.00021	< 0.01	< 0.00021	< 0.00021	0.00012 J	< 0.021	< 0.01	< 0.00021	< 0.01	< 0.00021
	MW24-ROX-101424	10/14/2024	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.019	< 0.0094	< 0.00020	< 0.0094	< 0.00020
	MW24-ROX-011725	1/17/2025	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0097	< 0.00020	< 0.0097	< 0.00020
	MW24-ROX-021425	2/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-25	MW25-ROX-041924	4/19/2024	< 0.00020	< 0.00020 UJ	< 0.0099	< 0.00020	< 0.0099	< 0.00020	< 0.00020	< 0.0099	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0099	< 0.00020	< 0.0099	< 0.00020 UJ
	MW25-ROX-071524	7/15/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ	< 0.01 UJ	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
	MW25-ROX-071524-DUP	7/15/2024	< 0.00022	< 0.00022	< 0.011	< 0.00022 UJ	< 0.011 UJ	< 0.00022	< 0.00022	< 0.011	< 0.00022	< 0.00022	< 0.00022	< 0.022	< 0.011	< 0.00022	< 0.011	< 0.00022
	MW25-ROX-101824	10/18/2024	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.0093	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0093	< 0.00020	< 0.0093	< 0.00020
	MW25-ROX-101824-DUP	10/18/2024	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.0093	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0093	< 0.00020	< 0.0093	< 0.00020
	MW25-ROX-012725	1/27/2025	< 0.01	< 0.01	< 0.0095	< 0.01	0.011	0.00027 J	0.00017 J	< 0.0095	< 0.01	0.0075 J	0.0079 J	0.041	< 0.0095	0.00047 J	0.31	0.00016 J
MW-26	MW25-ROX-012725-DUP	1/27/2025	< 0.01	< 0.01	< 0.0093	< 0.01	0.0097	< 0.01	0.00011 J	< 0.0093	< 0.01	0.0086 J	0.0092 J	0.042	< 0.0093	< 0.01	0.34	< 0.01
	MW26-ROX-040424	4/4/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW26-ROX-070524	7/5/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW26-ROX-100724	10/7/2024	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.0096	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0096	< 0.00020	0.067	< 0.00020
MW-27	MW26-ROX-012825	1/28/2025	< 0.01	< 0.01	< 0.0094	< 0.01	< 0.0094	< 0.01	< 0.01	< 0.0094	< 0.01	< 0.01	< 0.01	< 0.019	< 0.0094	< 0.01	< 0.0094	< 0.01
	MW27-ROX-040424	4/4/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.00020	< 0.00020 U	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	MW27-ROX-070824	7/8/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	0.00011 J	< 0.0097	< 0.00019	0.000080 J	< 0.00019 U	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW27-ROX-101424	10/14/2024	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.019	< 0.0094	< 0.00020	< 0.0094	< 0.00020
MW-28	MW27-ROX-011725	1/17/2025	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.021	< 0.01	< 0.00020	< 0.01	< 0.00020
	MW28-ROX-041224	4/12/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW28-ROX-070824	7/8/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	MW28-ROX-101524	10/15/2024	< 0.00019	< 0.00019	< 0.0095	< 0.00019	< 0.0095	< 0.00019	< 0.00019	< 0.0095	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0095	< 0.00019	< 0.0095	< 0.00019
P-54	MW28-ROX-011725	1/17/2025	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
	P54-ROX-040824	4/8/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.0096 UJ	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.00019 H UJ	< 0.00019 H UJ	< 0.019 UJ	< 0.0096	< 0.00019	< 0.0096 UJ	< 0.00019
	P54-ROX-070924	7/9/2024	< 0.00019	< 0.00019	< 0.0095	< 0.00019 UJ	< 0.0095 UJ	< 0.00019	< 0.00019	< 0.0095	< 0.00019	< 0.00019	0.00011 J	< 0.019	< 0.0095	< 0.00019	< 0.0095	< 0.00019
	P54-ROX-101424	10/14/2024	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.00020 UJ	< 0.019	< 0.0094	< 0.00020	< 0.0094	< 0.00020
	P54-ROX-011725	1/17/2025	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0095	< 0.00020	< 0.0095	< 0.00020
P-56	P54-ROX-021425	2/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P56-ROX-041824	4/18/2024	< 0.00022	< 0.00022	< 0.011 UJ	< 0.00022	< 0.011	< 0.00022	0.00022	< 0.011	< 0.00022	0.0026	0.00087	< 0.022	< 0.011	0.00029	< 0.011	< 0.00022
	P56-ROX-071024	7/10/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ	< 0.01 UJ	< 0.00020	0.00028	< 0.01	< 0.00020	0.0043	0.0018	< 0.02	< 0.01	0.00043	< 0.01	0.000049 J
	P56-ROX-101524	10/15/2024	< 0.00020	< 0.00020	< 0.0092	< 0.00020	0.0060 J*+ J	< 0.00020	0.00062	< 0.0092	< 0.00020	0.017	0.017	< 0.018	< 0.0092	0.0012	< 0.0092	< 0.00020
P-57	P56-ROX-012325	1/23/2025	< 0.01	< 0.01	< 0.0099	< 0.01	< 0.0099	< 0.01	0.00071 J	< 0.0099	< 0.01	0.023	0.028	< 0.02	< 0.0099	0.0014 J	< 0.0099	< 0.01
	P57-ROX-041824	4/18/2024	< 0.00021	< 0.00021	< 0.011 UJ	< 0.00021	< 0.011	0.000044 J	0.00042	< 0.011	< 0.00021	0.015	0.0014	< 0.021	< 0.011	0.00025	< 0.011	< 0.00021
	P57-ROX-041824-DUP	4/18/2024	< 0.00022	< 0.00022	< 0.011 UJ	< 0.00022	< 0.011	< 0.00022	0.00036	< 0.011	< 0.00022	0.015	0.0015	< 0.022	< 0.011	0.00019 J	< 0.011	< 0.00022
	P57-ROX-071024	7/10/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ	< 0.01 UJ	< 0.00020	0.00046	< 0.01	< 0.00020	0.022	0.013	< 0.02	< 0.01	0.00042	< 0.01	< 0.00020
	P57-ROX-101724	10/17/2024	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.0093	< 0.00020	0.00072	< 0.0093	< 0.00020	0.019	0.013	< 0.019	< 0.0093	0.00029	< 0.0093	< 0.00020
P-58	P57-ROX-012325	1/23/2025	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.0095	< 0.01	0.00082 J	< 0.0095	< 0.01	0.028	0.03	< 0.019	< 0.0095	0.00049 J	< 0.0095	< 0.01
	P58-ROX-041724	4/17/2024	0.000038 J	0.00028	< 0.01 UJ	< 0.00020 UJ	< 0.01	0.00016 J	0.0013	< 0.01 UJ	< 0.00020	0.031	0.013 B	< 0.02	< 0.01	0.0011	0.19	0.00045
	P58-ROX-071724	7/17/2024	< 0.00021	0.00012 J	< 0.01	< 0.00021	< 0.01 UJ	0.000081 J	0.00063 B	< 0.01	< 0.00021	0.039 B	0.015 B	< 0.021	< 0.01	0.0012	0.48	0.00027
	P58-ROX-071724-DUP	7/17/2024	< 0.00021	0.000083 J	< 0.01	< 0.00021	< 0.01 UJ	0.000056 J	0.00065 B	< 0.01	< 0.00021	0.038 B	0.015 B	< 0.021	< 0.01	0.00096	0.43	0.00016 J
	P58-ROX-101724	10/17/2024	0.000057 J	0.00022	< 0.0093	< 0.00020	< 0.0093	0.000079 J	0.0018	< 0.0093	< 0.00020	0.062	0.036	< 0.019	< 0.0093	0.0012	0.25	0.00031
P-58	P58-ROX-012725	1/27/2025	0.00011 J	0.00039 J	< 0.01	0.000059 J	0.016	0.00011 J	0.0025 J	< 0.01	0.000039 J	0.09	0.056	0.029	< 0.01	0.0016 J	0.21	0.00050 J

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			SVOCs															
			Benzo(g,h,i)perylene	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)acridine	Dibenzo(a,h)anthracene	2,4-Dimethylphenol	Fluoranthene	Fluorene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	3&4-Methylphenol	4-Nitrophenol	Phenanthrene	Phenol	Pyrene
Screening Values (mg/L)			0.21 ³	0.012 ¹		0.0003 ¹	0.14 ²	0.28 ¹	0.28 ¹		0.00043 ¹	0.49 ³	0.028 ¹	0.14 ³	11,600 ³	0.21 ³	0.1 ¹	0.21 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
P-59	P59-ROX-041924	4/19/2024	< 0.00021	0.00020 J J	< 0.011	< 0.00021	< 0.011	< 0.00021	0.00037	< 0.011	< 0.00021	0.0090	0.012	< 0.021	< 0.011	0.00073	0.0071 J	0.00063
	P59-ROX-071524	7/15/2024	0.000026 J	0.000059 J	< 0.0098	< 0.00020 UJ	< 0.0098 UJ	0.000082 J	0.00014 J	< 0.0098	< 0.00020	0.0081	0.0066	< 0.02	< 0.0098	0.00022	0.0041 J	0.00021
	P59-ROX-101624	10/16/2024	< 0.00020	0.000059 J	< 0.0093	< 0.00020	< 0.0093	0.00011 J	0.00039	< 0.0093	< 0.00020	0.016	0.017	< 0.019	< 0.0093	0.00040	0.02	0.00025
	P59-ROX-012425	1/24/2025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.000086 J	0.00030 J	< 0.01	< 0.01	0.018	0.025	< 0.021	< 0.01	0.00055 J	0.0050 J	0.00020 J
	P59-ROX-012425-DUP	1/24/2025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.000071 J	0.00026 J	< 0.01	< 0.01	0.017	0.025	< 0.021	< 0.01	0.00050 J	0.0043 J	0.00015 J
P-74	P74-ROX-041824	4/18/2024	< 0.00022	< 0.00022	< 0.011 UJ	< 0.00022	< 0.011	0.000085 J	0.00011 J	< 0.011	< 0.00022	0.00020 J	0.00020 J	< 0.022	< 0.011	0.00010 J	< 0.011	0.000063 J
	P74-ROX-071224	7/12/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020 UJ	< 0.0098 UJ	< 0.00020	< 0.00020	< 0.0098	< 0.00020	0.0016	0.0017	0.018 J	< 0.0098	0.00041	< 0.0098	0.000061 J
	P74-ROX-071224-DUP	7/12/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019 UJ	< 0.0097 UJ	< 0.00019	< 0.00019	< 0.0097	< 0.00019	0.0014	0.0015	0.019	< 0.0097	0.00034	< 0.0097	0.000055 J
	P74-ROX-101724	10/17/2024	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.0093	< 0.00020	< 0.00020	< 0.0093	< 0.00020	0.0010	0.0011	< 0.019	< 0.0093	0.000070 J	0.016	< 0.00020
	P74-ROX-101724-DUP	10/17/2024	< 0.00020	< 0.00020	< 0.0095	< 0.00020	< 0.0095	< 0.00020	0.000088 J	< 0.0095	< 0.00020	0.00099	0.0011	< 0.019	< 0.0095	0.000070 J	0.011	< 0.00020
	P74-ROX-012425	1/24/2025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.00066 J	0.00061 J	< 0.02	< 0.01	< 0.01	0.055	< 0.01
P-93A	P93A-ROX-041824	4/18/2024	< 0.00021	< 0.00021	< 0.011 UJ	< 0.00021	< 0.011	< 0.00021	< 0.00021	< 0.011	< 0.00021	0.00022	< 0.00021	< 0.021	< 0.011	< 0.00021	0.0098 J	< 0.00021
	P93A-ROX-071224	7/12/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019 UJ	< 0.0096 UJ	< 0.00019	< 0.00019	< 0.0096	< 0.00019	0.0011	0.000063 J	< 0.019	< 0.0096	< 0.00019	0.13	< 0.00019
	P93A-ROX-101724	10/17/2024	< 0.00020	< 0.00020	< 0.0092	< 0.00020	< 0.0092	< 0.00020	0.00015 J	< 0.0092	< 0.00020	0.0050	0.00054	< 0.018	< 0.0092	0.000069 J	0.13	< 0.00020
	P93A-ROX-012725	1/27/2025	< 0.01	< 0.01	< 0.0097	< 0.01	< 0.0097	< 0.01	0.00017 J	< 0.0097	< 0.01	0.0056 J	0.00053 J	< 0.019	< 0.0097	0.000049 J	0.2	< 0.01
	P93A-ROX-012725-DUP	1/27/2025	< 0.01	< 0.01	< 0.0095	< 0.01	< 0.0095	< 0.01	0.00018 J	< 0.0095	< 0.01	0.0065 J	0.00064 J	< 0.019	< 0.0095	0.000062 J	0.19	< 0.01
P-93B	P93B-ROX-041924	4/19/2024	< 0.00021	< 0.00021 UJ	< 0.011	< 0.00021	< 0.011	0.000036 J	< 0.00021	< 0.011	< 0.00021	0.00018 J	0.00019 J	< 0.021	< 0.011	< 0.00021	0.17	< 0.00021 UJ
	P93B-ROX-071724	7/17/2024	< 0.00019	< 0.00019	< 0.0095	< 0.00019	< 0.0095 UJ	< 0.00019	< 0.00019	< 0.0095	< 0.00019	< 0.00095 UJ	< 0.00095 UJ	< 0.019	< 0.0095	< 0.00019	0.15	< 0.00019
	P93B-ROX-101724	10/17/2024	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.0093	< 0.00020	< 0.00020	< 0.0093	< 0.00020	0.00024	0.00022	< 0.019	< 0.0093	0.000080 J	0.055	< 0.00020
	P93B-ROX-012725	1/27/2025	< 0.01	< 0.01	< 0.0096	< 0.01	< 0.0096	< 0.01	< 0.01	< 0.0096	< 0.01	0.00021 J	0.00016 J	< 0.019	< 0.0096	< 0.01	0.12	< 0.01
P-93C	P93C-ROX-041924	4/19/2024	< 0.00021	< 0.00021 UJ	< 0.011	< 0.00021	< 0.011	< 0.00021	< 0.00021	< 0.011	< 0.00021	< 0.00021	< 0.00021	< 0.021	< 0.011	< 0.00021	0.059	< 0.00021 UJ
	P93C-ROX-071524	7/15/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019 UJ	< 0.0096 UJ	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.00019	0.000070 J	< 0.019	< 0.0096	< 0.00019	0.024	< 0.00019
	P93C-ROX-101724	10/17/2024	< 0.00020	< 0.00020	< 0.0092	< 0.00020	< 0.0092	0.000059 J	< 0.00020	< 0.0092	< 0.00020	< 0.00020	< 0.00020	< 0.018	< 0.0092	0.000093 J	0.011	0.000041 J
	P93C-ROX-012725	1/27/2025	< 0.01	< 0.01	< 0.0099	< 0.01	< 0.0099	< 0.01	< 0.01	< 0.0099	< 0.01	< 0.01	< 0.01	< 0.02	< 0.0099	< 0.01	0.027	< 0.01
P-93D	P93D-ROX-042224	4/22/2024	< 0.00020 UJ	< 0.00020 UJ	< 0.01	< 0.00020 UJ	< 0.01	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ	0.000086 J	0.000094 J	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020 UJ
	P93D-ROX-071224	7/12/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019 UJ	< 0.0096 UJ	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0096	< 0.00019	< 0.0096	< 0.00019
	P93D-ROX-101524	10/15/2024	< 0.00020	< 0.00020	< 0.0092	< 0.00020	< 0.0092	< 0.00020	< 0.00020	< 0.0092	< 0.00020	< 0.00020	< 0.00020	< 0.018	< 0.0092	< 0.00020	< 0.0092	< 0.00020
	P93D-ROX-012325	1/23/2025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01
P-114R	P114R-ROX-041524	4/15/2024	< 0.00020	< 0.00020	0.00038 J	< 0.00020	< 0.0099	< 0.00020	< 0.00020	< 0.0099	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.0099	< 0.00020	< 0.0099	< 0.00020
	P114R-ROX-071124	7/11/2024	< 0.00020	< 0.00020	< 0.01	< 0.00020 UJ	< 0.01 UJ	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.00020	< 0.00020	< 0.02	< 0.01	< 0.00020	< 0.01	< 0.00020
	P114R-ROX-101024	10/10/2024	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.0097	< 0.00020	0.000094 J	< 0.00020	< 0.019	< 0.0097	< 0.00020	< 0.0097	< 0.00020
	P114R-ROX-012325	1/23/2025	< 0.01	< 0.01	< 0.0096	< 0.01	< 0.0096	< 0.01	< 0.01	< 0.0096	< 0.01	0.00011 J	< 0.01	< 0.019	< 0.0096	< 0.01	< 0.0096	< 0.01
ROST-3-MW	ROST3MW-ROX-041624	4/16/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020	< 0.0098	< 0.00020	0.00013 J	< 0.0098	< 0.00020	0.000080 J	< 0.00020 U	< 0.02	< 0.0098	< 0.00020	< 0.0098	< 0.00020
	ROST3MW-ROX-070924	7/9/2024	< 0.00019 UJ	< 0.00019	< 0.0097	< 0.00019 UJ	< 0.0097 UJ	< 0.00019	0.00010 J	< 0.0097	< 0.00019 UJ	0.00012 J	0.00016 J	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	ROST3MW-ROX-101524	10/15/2024	< 0.00020	< 0.00020	< 0.0093	< 0.00020	< 0.0093	< 0.00020	0.00012 J	< 0.0093	< 0.00020	< 0.00020	< 0.00020	< 0.019	< 0.0093	< 0.00020	< 0.0093	< 0.00020
	ROST3MW-ROX-012025	1/20/2025	< 0.00020	< 0.00020	< 0.01	< 0.00020	< 0.01	< 0.00020	0.00016 J	< 0.01	< 0.00020	0.000078 J	< 0.00020	< 0.02	< 0.01	< 0.00020		

TABLE 3
SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL DETECTIONS AND EXCEEDANCES

			SVOCs															
Screening Values (mg/L)			Benzo(g,h,i)perylene	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)acridine	Dibenzo(a,h)anthracene	2,4-Dimethylphenol	Fluoranthene	Fluorene	Indene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	3&4-Methylphenol	4-Nitrophenol	Phenanthrene	Phenol	Pyrene
Screening Values (mg/L)			0.21 ³	0.012 ¹		0.0003 ¹	0.14 ²	0.28 ¹	0.28 ¹		0.00043 ¹	0.49 ³	0.028 ¹	0.14 ³	11,600 ³	0.21 ³	0.1 ¹	0.21 ¹
Location	Sample ID	Sample Date	Analytical Results (mg/L)															
ROST-4-PZ(E)	ROST4PZ(E)-ROX-041624	4/16/2024	< 0.00019	< 0.00019	< 0.0096	< 0.00019	< 0.0096	0.000054 J	0.00021	< 0.0096	< 0.00019	0.0019	0.00082 B	< 0.019	< 0.0096	0.00074	< 0.0096	0.000084 J
	ROST4PZ(E)-ROX-071024	7/10/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019 UJ	< 0.0097 UJ	0.000037 J	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	0.000072 J
	ROST4PZE-ROX-101524	10/15/2024	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	0.000040 J	< 0.00020	< 0.0094	< 0.00020	0.00017 J	< 0.00020	< 0.019	< 0.0094	0.00026	< 0.0094	0.00011 J
	ROST4PZ(E)-ROX-012025	1/20/2025	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	0.000032 J	< 0.00020	< 0.0094	< 0.00020	0.000080 J	0.000093 J	< 0.019	< 0.0094	0.000099 J	< 0.0094	0.000094 J
ROST-4-PZ(G)	ROST4PZ(G)-ROX-040524	4/5/2024	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.0097	< 0.00019	< 0.00019	< 0.00019	< 0.019	< 0.0097	< 0.00019	< 0.0097	< 0.00019
	ROST4PZ(G)-ROX-070924	7/9/2024	< 0.00020	< 0.00020	< 0.0099	< 0.00020 UJ	< 0.0099 UJ	< 0.00020	< 0.00020	< 0.0099	< 0.00020	0.00015 J	0.00021	< 0.02	< 0.0099	< 0.00020	< 0.0099	< 0.00020
	ROST4PZG-ROX-101624	10/16/2024	< 0.00020	< 0.00020	< 0.0094	< 0.00020	< 0.0094	< 0.00020	< 0.00020	< 0.0094	< 0.00020	0.0015	0.00024	< 0.019	< 0.0094	0.00019 J	< 0.0094	< 0.00020
	ROST4PZ(G)-ROX-012225	1/22/2025	< 0.01	< 0.01	< 0.0097	< 0.01	< 0.0097	< 0.01	< 0.01	< 0.0097	< 0.01	0.0027 J	0.0010 J	< 0.019	< 0.0097	0.000066 J	< 0.0097	< 0.01
	ROST4PZ(G)-ROX-012225-DUP	1/22/2025	< 0.00020	< 0.00020	< 0.0097	< 0.00020	< 0.0097	< 0.00020	< 0.00020	< 0.0097	< 0.00020	0.0023	0.00082 *1	< 0.019	< 0.0097	0.000063 J	< 0.0097	< 0.00020
T-12	T12-ROX-041924	4/19/2024	< 0.00022	< 0.00022 UJ	< 0.011	< 0.00022	< 0.011	< 0.00022	0.00035	< 0.011	< 0.00022	0.016	0.023	< 0.022	< 0.011	0.00054	0.032	< 0.00022 UJ
	T12-ROX-071524	7/15/2024	< 0.00020	< 0.00020	< 0.0098	< 0.00020 UJ	< 0.0098 UJ	< 0.00020	0.00020	< 0.0098	< 0.00020	0.012	0.018	< 0.02	< 0.0098	0.00044	0.022	< 0.00020
	T12-ROX-101624	10/16/2024	< 0.00019	< 0.00019	< 0.0092	< 0.00019	< 0.0092	< 0.00019	0.00028	< 0.0092	< 0.00019	0.021	0.032	< 0.018	< 0.0092	0.00062	0.0050 J	< 0.00019
	T12-ROX-012425	1/24/2025	< 0.0099	< 0.0099	< 0.01	< 0.0099	0.0062 J	< 0.0099	0.00029 J	< 0.01	< 0.0099	0.023	0.039	< 0.02	< 0.01	0.00057 J	0.025	< 0.0099

Notes:

1 Denotes screening criteria source from 35 I.A.C. 620, Subpart D.

2 Denotes screening criteria source from 35 I.A.C. 742 (TACO), Appendix B, Table E.

3 Denotes screening criteria source from IL EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

Groundwater monitoring wells designated for sampling in the Interim Groundwater Monitoring Program, P-55R, P-66, and P-68, contained LNAPL; therefore, these wells were not sampled.

Well MW-7 was not sampled during the 4Q24 quarterly sampling event due to operation of the FPWY SEE System.

The screened interval for certain monitoring wells was adjusted based on an evaluation of the results of annual bottom depth gauging conducted in the first quarter of each year.

LABORATORY QUALIFIERS

J = The analyte was detected below the reporting limit. Result is estimated.

B = Target analyte was identified in the method blank, indicating possible lab contamination.

H = Analyzed or extracted out of holding time criteria.

F1 = Indicates MS/MSD is outside acceptance limit.

*+ = Indicates LCS and/or LCSD is outside acceptance limit, high biased

*1 = LCS/LCSD RPD is outside contol limit

<#.# Indicates the analyte was not detected above the given reporting limit.

Analytes that were non-detect across all sampling locations during the four quarter reporting period are not presented on the Analytical table.

	Indicates a historical exceedance of screening criteria.
	Indicates a current exceedance of screening criteria.
	Empty shaded cell without a value indicates previous quarter analyte result was rejected or the analyte was not analyzed.
--	Empty cell without a value indicates current quarter analyte result was rejected or the analyte was not analyzed.

AECOM QUALIFIERS

J = The result is estimated.

UJ = Estimated non-detect.

U = Result is non-detect.

Figures

The following MVS Descriptions and Assumptions apply to **Figure 6**. C Tech Development Corporation's Mining Visualization System, Version 9.94 (MVS 9.94) was used to model the estimated distribution of benzene in the groundwater.

MVS Descriptions and Assumptions:

Plan View Model Output – The data input for the plan view model was not limited by depth and was modeled in two dimensions (2D). Regardless of sample depth, benzene concentrations were modeled on a flat horizontal plane.

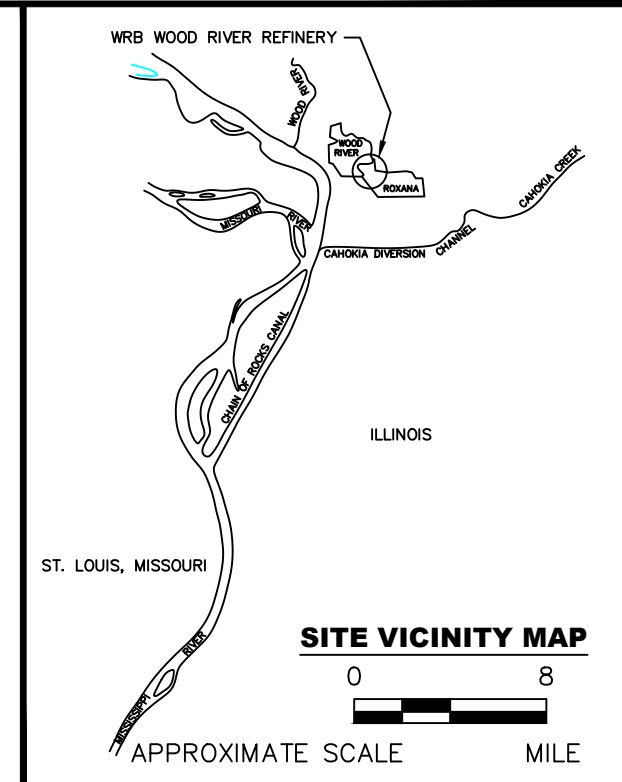
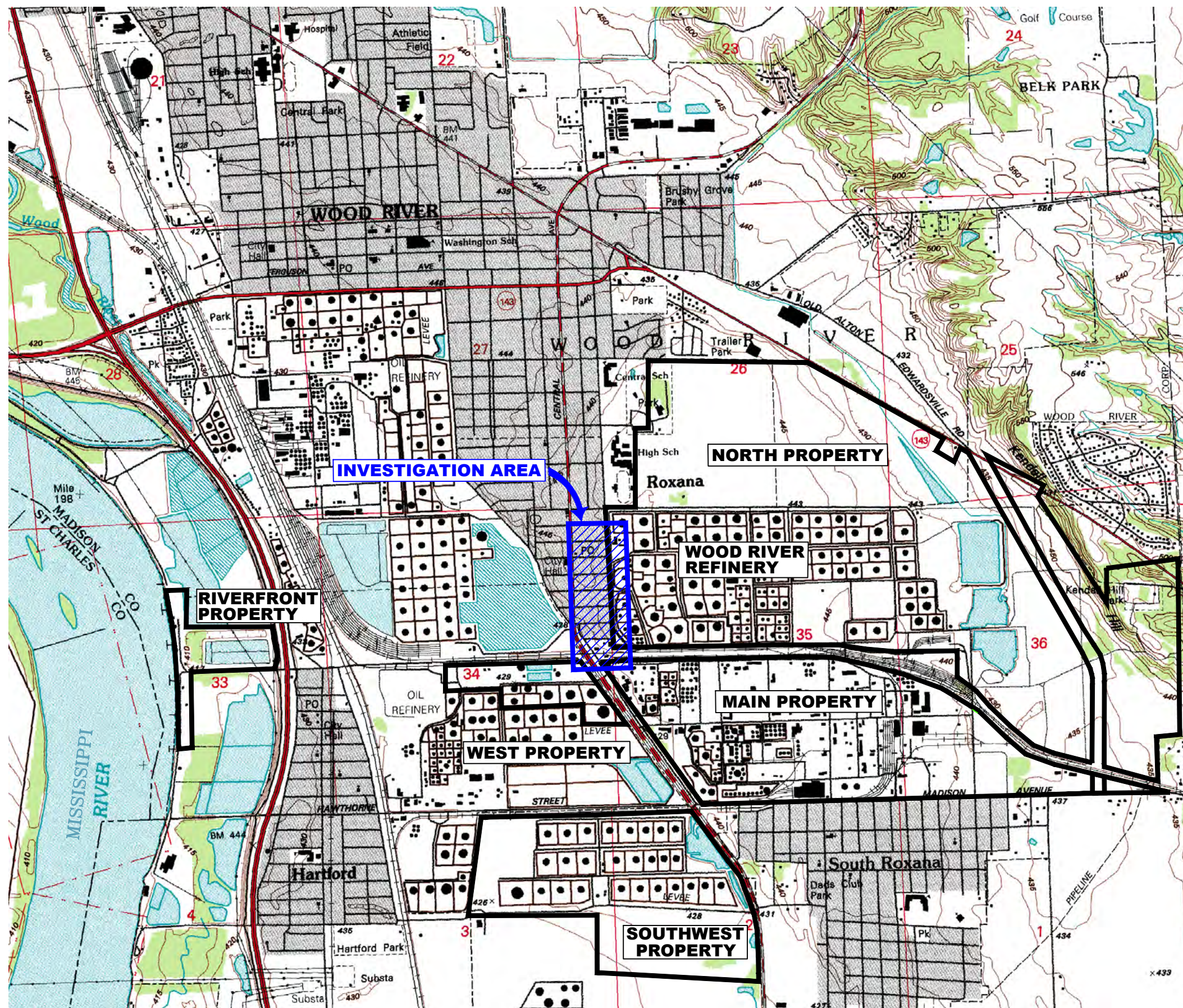
Inward Kriging / Boundary Cut-off – This method of Kriging limits the horizontal extent of data modeling to the extent of the data on the x/y plane in a convex hull.

More simplified, if each sampling location were represented by a tack pushed into the model's surface and a rubber band stretched around them, the model would be represented by the space inside the rubber band.

Duplicate Samples – In locations and depths where duplication samples were collected, the higher concentration was used.

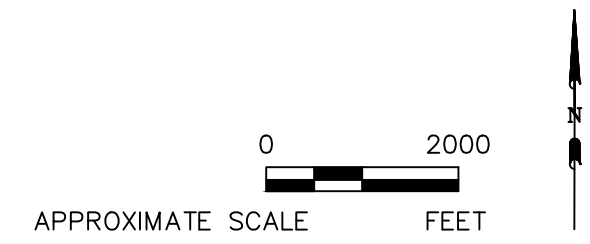
Detection Limits – In cases where the lab reported a non-detect, half the value of the lab reporting limit was used in the model. This conservative method is based on the assumption that the sample is likely not free of benzene, but the quantity contained is lower than detectable at the analyzed dilution.

File: C:\USERS\ALEXANDRU\IT\JUNIT\AECOM\CONVENIENCE STORE - SHELL\ILLINOIS\USF000666 900 S CENTRAL AVE ROXANA\ROXANA 1025 GW RPT\DWG\Figure 1 INVESTIGATION AREA LOCATION MAP.DWG Last edited: 03/19/25 @ 9:35 AM © WCC-ST. LOUIS



- LEGEND**
- WOOD RIVER REFINERY PROPERTY BOUNDARY
 - INVESTIGATION AREA

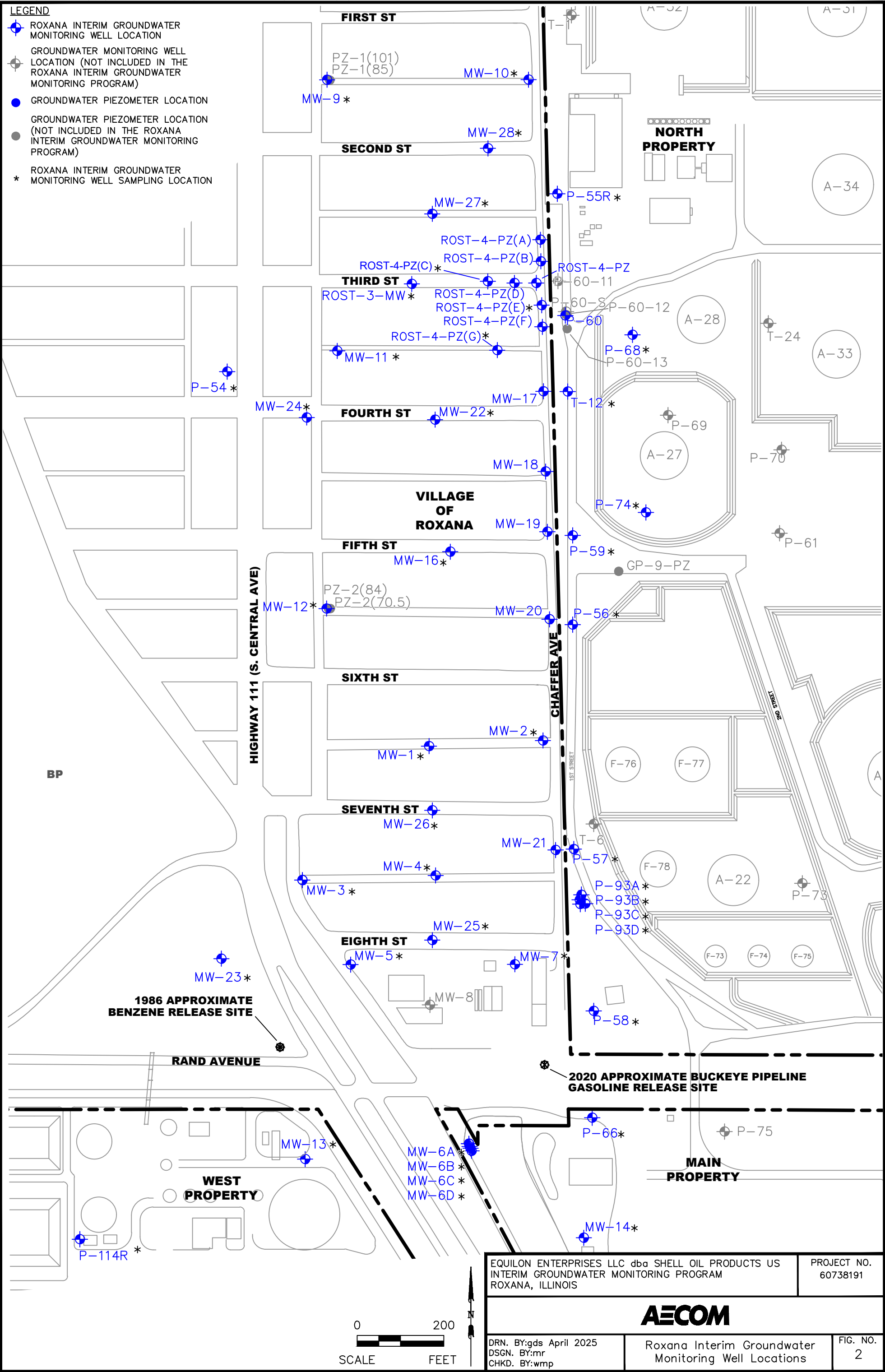
SOURCE: ELECTRONIC USGS DIGITAL RASTER GRAPHIC 7.5 MINUTE TOPOGRAPHIC MAP OF WOOD RIVER, IL-MO REVISED 1994.



EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60738191
AECOM		
DRN. BY:gds April 2025 DSGN. BY:mar CHKD. BY:wmp	Investigation Area Location Map	FIG. NO. 1

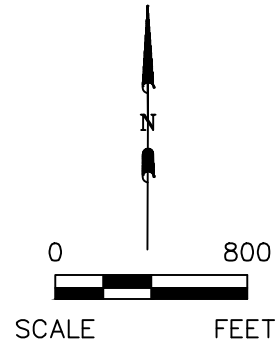
LEGEND

- ROXANA INTERIM GROUNDWATER MONITORING WELL LOCATION
- GROUNDWATER MONITORING WELL LOCATION (NOT INCLUDED IN THE ROXANA INTERIM GROUNDWATER MONITORING PROGRAM)
- GROUNDWATER PIEZOMETER LOCATION
- GROUNDWATER PIEZOMETER LOCATION (NOT INCLUDED IN THE ROXANA INTERIM GROUNDWATER MONITORING PROGRAM)
- ROXANA INTERIM GROUNDWATER MONITORING WELL SAMPLING LOCATION



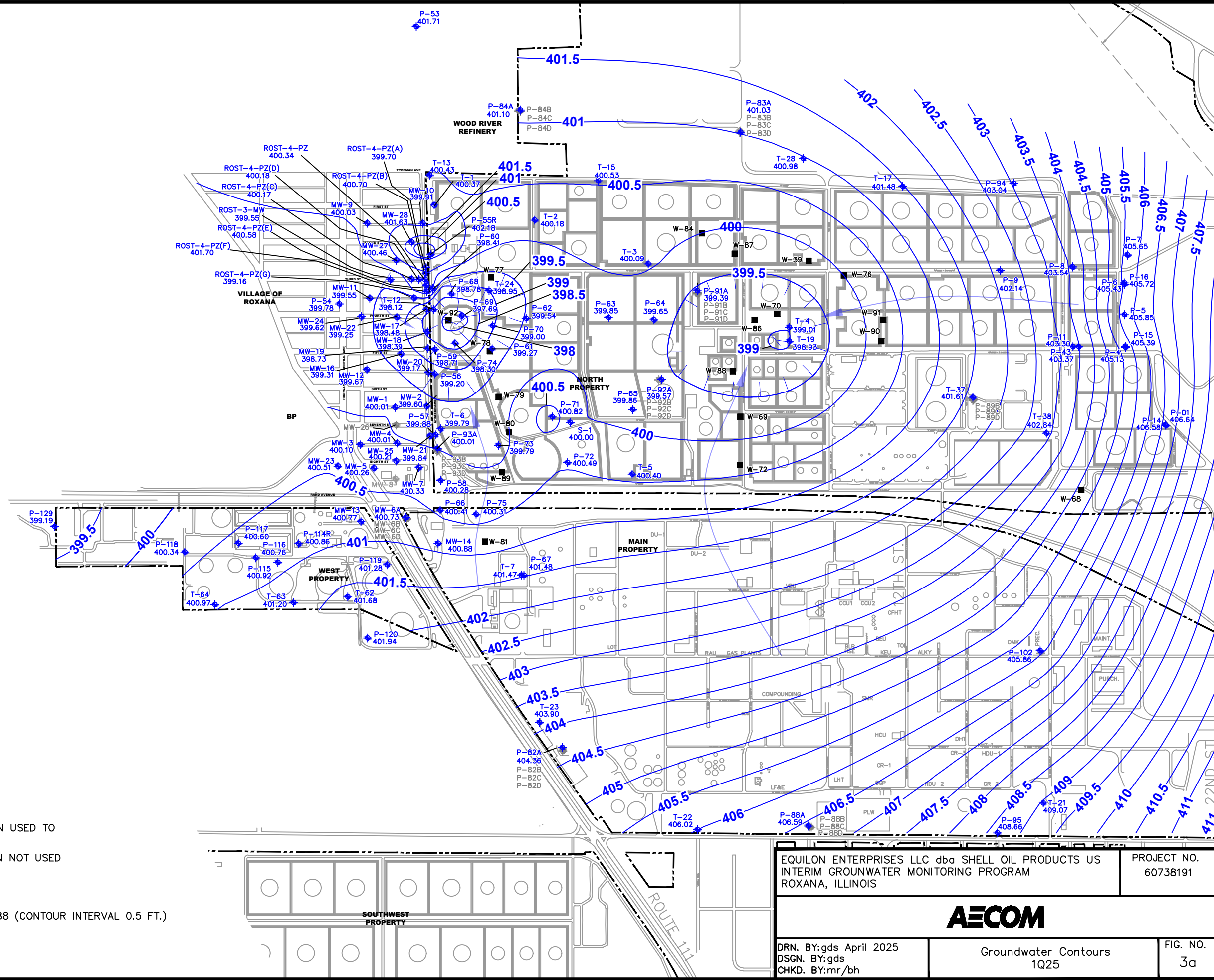
EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60738191	
AECOM			
DRN. BY:gds April 2025 DSGN. BY:mr CHKD. BY:wmp		Roxana Interim Groundwater Monitoring Well Locations	
		FIG. NO. 2	

- NOTES:
- 1. CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 14 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
 - 2. ELEVATIONS ARE RELATIVE TO NAVD 88.
 - 3. COMPREHENSIVE GROUNDWATER ELEVATIONS WERE MEASURED JANUARY 13-15, 2025.
 - 4. WELL MW-26 WAS INACCESSIBLE DURING THE COMPREHENSIVE GROUNDWATER GAUGING EVENT.
 - 5. MW-1 WAS MEASURED ON JANUARY 17, 2025 DUE TO ANOMALOUS RESULTS DURING THE COMPREHENSIVE GROUNDWATER GAUGING EVENT.



LEGEND

- GROUNDWATER MONITORING WELL LOCATION USED TO GENERATE GROUNDWATER CONTOURS
- GROUNDWATER MONITORING WELL LOCATION NOT USED TO GENERATE GROUNDWATER CONTOURS
- WRR GROUNDWATER PRODUCTION WELL
- GROUNDWATER SURFACE CONTOUR NAVD 88 (CONTOUR INTERVAL 0.5 FT.)
- GROUNDWATER GRADIENT

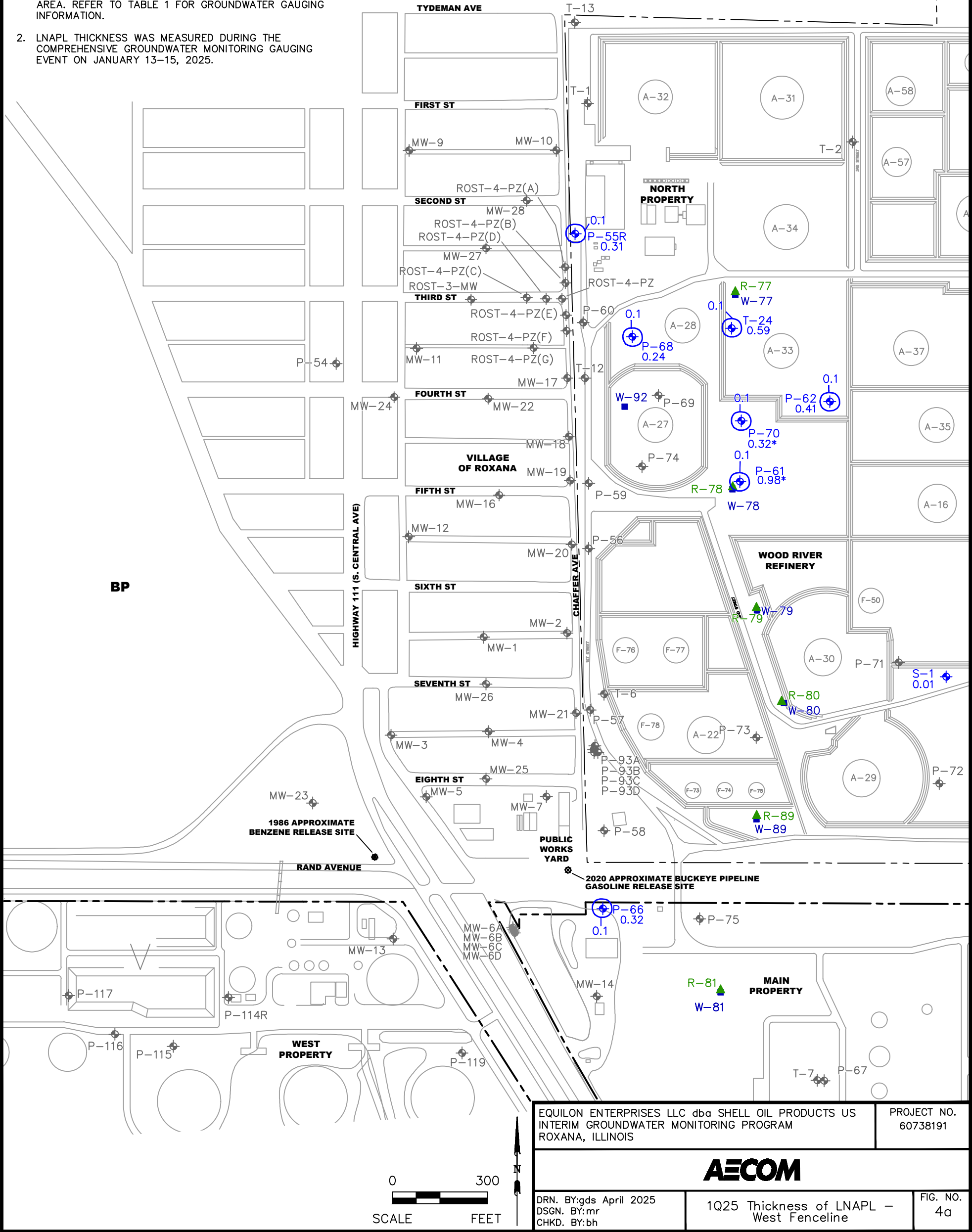


EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US INTERIM GROUNDWATER MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 60738191
AECOM		
DRN. BY:gds April 2025 DSGN. BY:gds CHKD. BY:mr/bh	Groundwater Contours 1Q25	FIG. NO. 3a

LEGEND

- GROUNDWATER MONITORING WELL LOCATION GAUGED, LNAPL THICKNESS IN FEET
- GROUNDWATER MONITORING WELL LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- GROUNDWATER PIEZOMETER LOCATION (NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- OIL RECOVERY WELL
- WATER PRODUCTION WELL
- LNAPL THICKNESS (FEET)
- * INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN

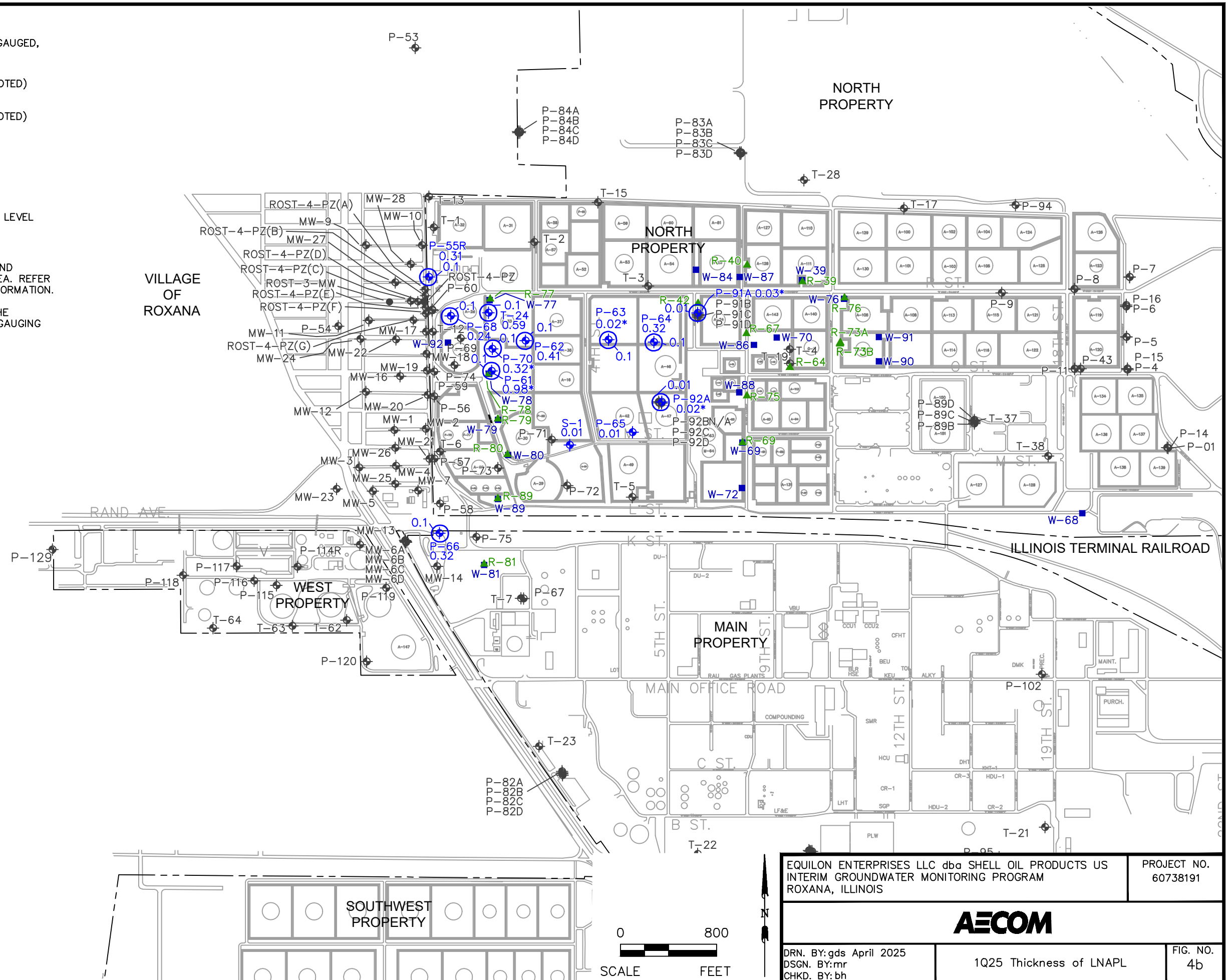
- NOTE:
- THIS MAP DEPICTS THE ESTIMATED EXTENT AND THICKNESS OF LNAPL BENEATH THE WEST FENCELINE AREA. REFER TO TABLE 1 FOR GROUNDWATER GAUGING INFORMATION.
 - LNAPL THICKNESS WAS MEASURED DURING THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON JANUARY 13-15, 2025.



- GROUNDWATER MONITORING WELL LOCATION GAUGED,
LNAPL THICKNESS IN FEET
- GROUNDWATER MONITORING WELL LOCATION
(NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- GROUNDWATER PIEZOMETER LOCATION
(NO LNAPL OBSERVED UNLESS OTHERWISE NOTED)
- OIL RECOVERY WELL
- WATER PRODUCTION WELL

* INDICATES THAT THE LNAPL AND/OR WATER LEVEL IS ABOVE THE TOP OF WELL SCREEN

1. THIS MAP DEPICTS THE ESTIMATED EXTENT AND THICKNESS OF LNAPL BENEATH THE WRR AREA. REFER TO TABLE 1 FOR GROUNDWATER GAUGING INFORMATION.
2. LNAPL THICKNESS WAS MEASURED DURING THE COMPREHENSIVE GROUNDWATER MONITORING GAUGING EVENT ON JANUARY 13-15, 2025.



File: G:\USERS\ALEXANDRU\JONUT.D\JUNIT\ACOM\CONVENIENCE STORE - SHELL\ILLINOIS\USFD0868 900 S CENTRAL AVE ROXANA\ROXANA 1025 GW RPT\DWG\Figure 4B Thickness of LWPL (REFINERY) 1025.DWG Last edited: Mar. 19, 25 @ 10:48 AM by: alexandrujonut.dumit

EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US
INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO.
60738191

AECOM

DRN. BY:gds April 2025
DSGN. BY:mr
CHKD. BY: bh

1Q25 Thickness of LNAPL

FIG. NO.
4b

- LEGEND**
- GROUNDWATER MONITORING WELL SAMPLING LOCATION
 - GROUNDWATER MONITORING WELL LOCATION NOT SAMPLED
 - GROUNDWATER PIEZOMETER LOCATION NOT SAMPLED
- NOTES:**
- PER DIRECTION FROM IEPA, ANALYTICAL RESULTS ARE SCREENED AGAINST CRITERIA OUTLINED IN THE WRR RCRA PART B PERMIT.
 - GROUNDWATER SCREENING CRITERIA.

Analyte	Screening Criteria (mg/L)
Benzene	0.005
Ethylbenzene	0.7
Naphthalene	0.14
1,2,4-Trimethylbenzene	0.07
1,3,5-Trimethylbenzene	0.07
2-Methylnaphthalene	0.028
Phenol	0.1

- MULTIPLE RESULTS (e.g., 40/40) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
- WELLS IDENTIFIED IN BLUE WITH NO DATA BOX INDICATE THE RESULTS DID NOT EXCEED SCREENING CRITERIA.
- WELLS P-55R, P-66 AND P-68 WERE NOT SAMPLED DURING 1Q25 DUE TO THE PRESENCE OF LNAPL.
- DATA FROM VOC 8260 RE-SAMPLES COLLECTED ON FEBRUARY 13-14, 2025 WAS USED FOR WELLS MW-1, MW-12, MW-16, MW-24, AND P-54; SEE TABLE 3 FOR ORIGINAL AND RE-SAMPLE RESULTS.

Sample Location	MW-22
Sampled 1/24/2025	Result (mg/L)
Benzene	0.053
Ethylbenzene	0.83
Naphthalene	0.19
1,2,4-Trimethylbenzene	0.22
1,3,5-Trimethylbenzene	0.11
2-Methylnaphthalene	0.038

Sample Location	P-93A	P-93B	P-93C
Sampled 1/27/2025	Result (mg/L)	Result (mg/L)	Result (mg/L)
Benzene	40 / 40	460	13
Phenol	0.20 / 0.19	0.12	

Sample Location	MW-25
Sampled 1/27/2025	Result (mg/L)
Benzene	650 / 610
Phenol	0.31 / 0.34

Sample Location	ROST-4-PZ (G)
Sampled 1/22/2025	Result (mg/L)
Benzene	0.0076 / 0.0073

Sample Location	T-12
Sampled 1/24/2025	Result (mg/L)
Benzene	1.8

Sample Location	P-74
Sampled 1/24/2025	Result (mg/L)
Benzene	3.5

Sample Location	P-59
Sampled 1/24/2025	Result (mg/L)
Benzene	0.23 / 0.41
1,2,4-Trimethylbenzene	0.17 / 0.21

Sample Location	P-56
Sampled 1/23/2025	Result (mg/L)
1,2,4-Trimethylbenzene	0.12

Sample Location	P-57
Sampled 1/23/2025	Result (mg/L)
Benzene	0.1
2-Methylnaphthalene	0.03

Sample Location	MW-7
Sampled 1/27/2025	Result (mg/L)
Benzene	390

Sample Location	P-58
Sampled 1/27/2025	Result (mg/L)
Benzene	230
2-Methylnaphthalene	0.056
Phenol	0.21

EQUILON ENTERPRISES LLC dba SHELL OIL PRODUCTS US
INTERIM GROUNDWATER MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO.
60738191

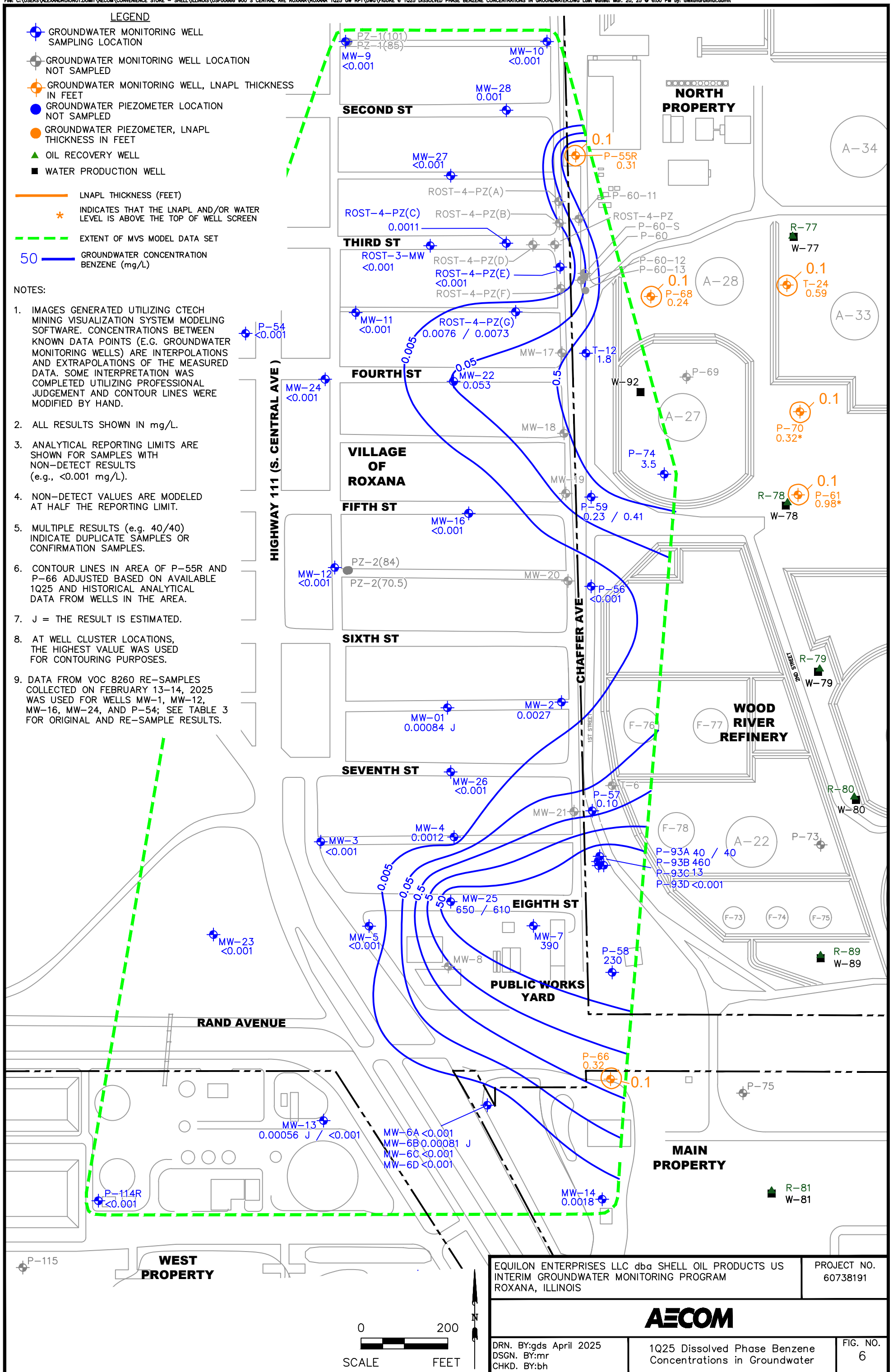
AECOM

DRN. BY: gds April 2025
DSGN. BY: mr
CHKD. BY: bh

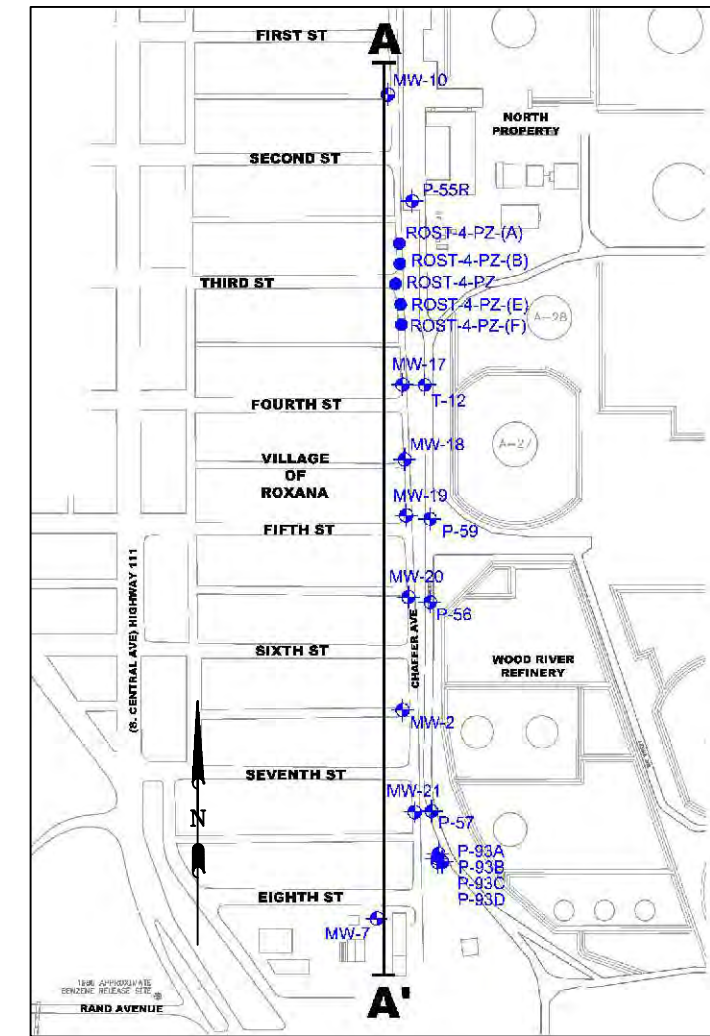
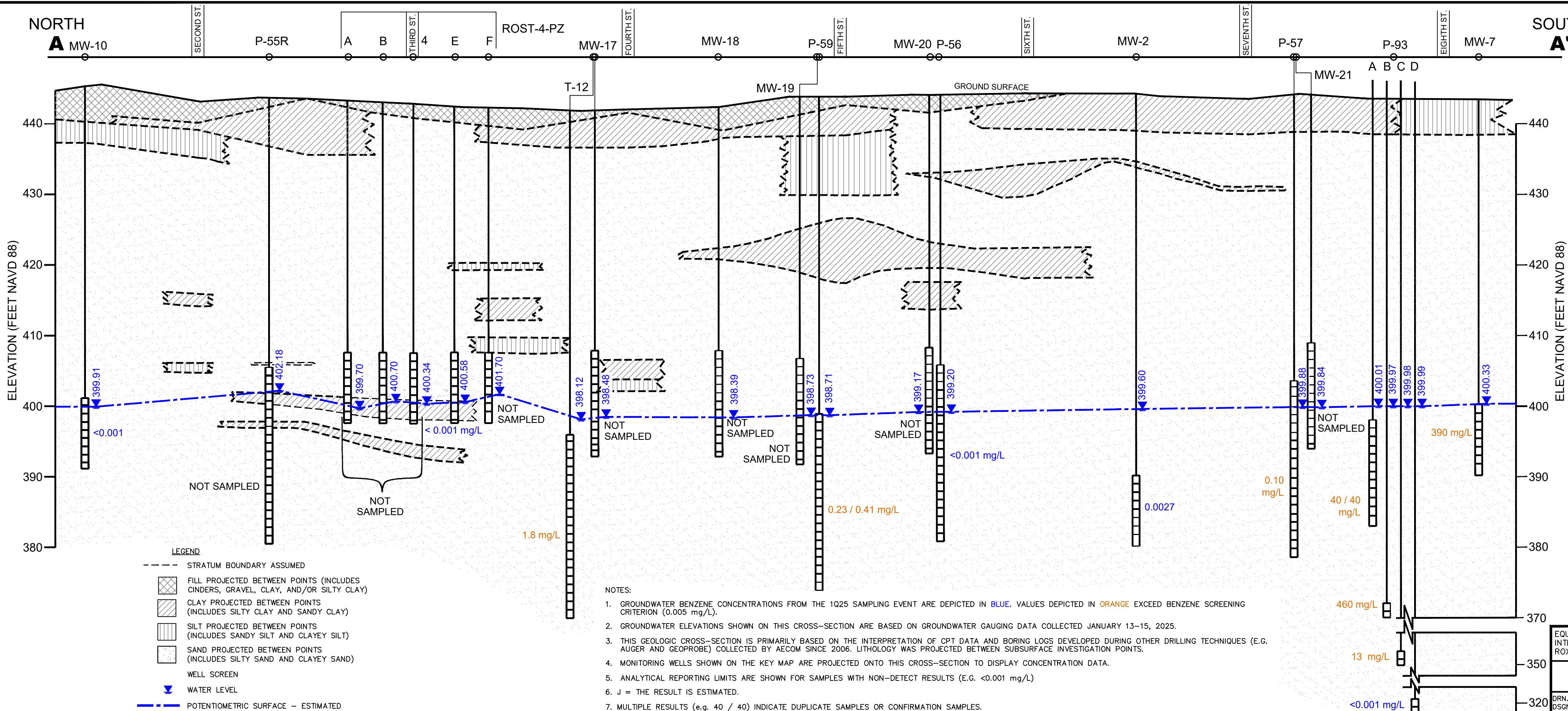
1Q25
Groundwater Monitoring Well
Analytical Exceedances

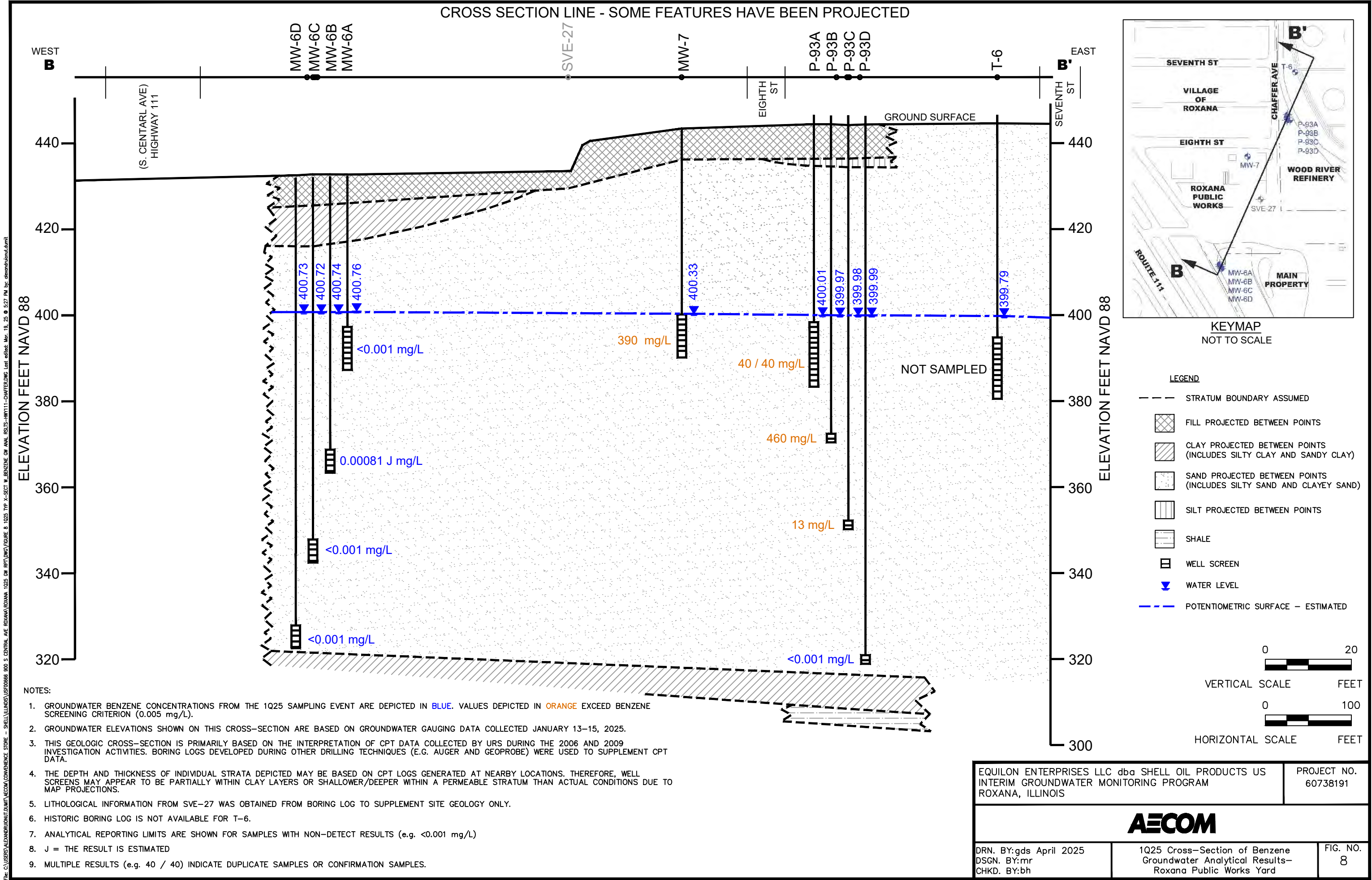
FIG. NO.
5

0 200
SCALE FEET



FILE: C:\USERS\VALENTIN\WORK\PROJECTS\ROXANA\CONVENIENCE STORE - SHELL\LAND SURVEY\FIGURE 7 1Q25 - TYP X-SECT W. BENZENE ON ANNUAL RST-1ST-STRUTTING Last edited: Mar. 19, 2025 @ 5:12 PM by: alexander.dunham





Appendix A

Regulatory History

Appendix A

Regulatory History

The Interim Groundwater Monitoring Program (Program) began in the 4th Quarter 2010 (4Q10), and the first report was submitted on January 14, 2011. On March 3, 2011, a conference call was held among representatives of Equilon Enterprises LLC d/b/a Shell Oil Products US (SOPUS), Illinois Environmental Protection Agency (IEPA), and URS Corporation (URS) to discuss the Program and IEPA's general comments on the 4Q10 report. Subsequent report modifications were incorporated during 1st Quarter 2011 (1Q11) and 2nd Quarter 2011 (2Q11). Additional items and comments regarding the Program were presented by IEPA on June 16, 2011 (IEPA, 2011a) and August 31, 2011 (IEPA, 2011b) letters. These items and comments were addressed in the 3rd Quarter 2011 (3Q11) and 4th Quarter 2011 (4Q11) reports.

In a March 14, 2012 letter (CA-24) from IEPA to SOPUS (IEPA, 2012a), IEPA requested groundwater piezometer ROST-3-PZ and groundwater monitoring well ROST-4-PZ(C) be added to the Program. These monitoring locations were added to the Program in 2nd Quarter 2012 (2Q12).

In a second letter (CA-25) dated March 14, 2012 from IEPA to SOPUS (IEPA, 2012b), IEPA requested that perched groundwater be evaluated at groundwater monitoring piezometers P-60-12S, P-60-13S, ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, and ROST-21-PZ. These perched groundwater monitoring piezometers were incorporated into the Program beginning in 2Q12. In a letter dated August 16, 2013 (URS, 2013a), URS, on behalf of SOPUS, informed the IEPA of the determination that the perched groundwater monitoring piezometers are either dry, based on the criteria given in IEPA's March 14, 2012 letter, or not able to be sampled per the groundwater sampling standard operating procedure (SOP) due to slow recharge. The IEPA, during phone conversations, requested that certain piezometers remain in the Program. In response to this request, a letter dated January 14, 2014 was submitted to IEPA (URS, 2014a), stating that these piezometers will remain in the Program. A separate letter dated January 14, 2014 was submitted to the IEPA (URS, 2014b), requesting removal of ROST-5-PZ and ROST-10-PZ based on Condition 8(a) of the March 14, 2012 IEPA letter (CA-25), which states that ROST-5-PZ and ROST-10-PZ must remain within the Program for one year before the determination is made that these wells are dry. IEPA responded to the August 16, 2013 and both January 14, 2014 letters in a correspondence (CA-67) dated July 27, 2016 (IEPA, 2016a). In the July 27, 2016 letter, IEPA approved the request to abandon perched wells P-60-12S, P-60-13S, ROST-5-PZ, ROST-7-PZ, ROST-10-PZ, and ROST-21-PZ and remove them from the Program. Abandonment activities were conducted on September 15, 2016.

In the March 14, 2012 letter (CA-25), IEPA also requested the installation of groundwater monitoring wells in the Village of Roxana (Village) to evaluate potential light non-aqueous phase liquid (LNAPL). These groundwater monitoring wells (MW-16 through MW-22 and MW-24) were installed during 4th Quarter 2012 (4Q12) and incorporated into the Program beginning in 1st Quarter 2013 (1Q13).

On May 31, 2012, IEPA verbally requested the following be incorporated into the 2Q12 report:

- The ROST-4 series of groundwater monitoring wells and piezometers in the groundwater elevation contour maps;
- A groundwater contour map focusing on the West Fenceline area in the Village; and
- A Roxana site and WRR LNAPL map.

In an April 8, 2013 letter (CA-38 and -41) from IEPA to SOPUS (IEPA, 2013a), IEPA requested a discussion of irregular potentiometric contours in the ROST-4-PZ area and P-60 area wells. This response was submitted to the IEPA in a letter dated July 29, 2013 (URS, 2013b). In a letter dated July 27, 2016 (CA-63) (IEPA, 2016b), IEPA approved the July 29, 2013 letter with the following conditions and modifications:

- Address the potentiometric high in the northern portion of the Study Area, by submitting a proposal within 120 days, which at a minimum will include:
 - A proposal to install nested wells that will track the area of the low-permeability zone.
 - The nested wells must be adequate to verify groundwater quality, flow direction, and hydraulic gradient, and these wells should show that pumping overcomes potential radial flow.
- A text section must be added to the Program quarterly reports to provide a detailed discussion of the potentiometric surface in this area.

AECOM responded to the July 27, 2016 letter in a letter dated October 14, 2016 (AECOM, 2016c). On March 11, 2024 a replacement RCRA form with wet signatures was submitted to IEPA (AECOM, 2024c). A response to this July 27, 2016 letter is pending as of the date of this report.

In a July 18, 2013 letter (CA-33, -45, and -48) from IEPA to SOPUS (IEPA, 2013b), IEPA approved a change in gauging frequencies for wells in the Program. The list of wells to be gauged on a weekly basis was reduced and a new list of wells to be gauged on a monthly basis was initiated. This letter also requested that any free-phase hydrocarbon (FPH) and photoionization detector (PID) data collected at the well heads be included in the quarterly groundwater monitoring reports. The modified gauging frequencies for wells began the week of July 22, 2013. The list of wells gauged during each routine event is reviewed on a regular basis and modified to meet the conditions requested by the IEPA. The additional reporting requirements were first incorporated in the 3rd Quarter 2013 (3Q13) report.

In a June 13, 2014 letter from IEPA to SOPUS (IEPA, 2014a), IEPA requested the installation of four groundwater monitoring wells in the Village to monitor the extent and effectiveness of corrective action efforts within the residential area. The access agreement with the Village was signed on August 12, 2014, and well installation began in September 2014 and was completed in October 2014. These groundwater monitoring wells (MW-25 through MW-28) were added to the Program in 4th Quarter 2014 (4Q14).

In an October 9, 2014 letter (CA-47) from IEPA to SOPUS (IEPA, 2014b), IEPA approved the installation plan for a groundwater monitoring well located on BP property with certain conditions and modifications. Well MW-23 was installed during January 2015 and was added to the Program in 1st Quarter 2015 (1Q15).

In a letter (CA-70) dated November 25, 2014 (IEPA, 2014c), IEPA approved the proposed plan for groundwater corrective action (submitted to IEPA on November 14, 2013 (URS, 2013c)), with the following conditions:

- The 1Q15 groundwater samples obtained from: (1) the current monitoring well network; (2) the four new wells required by the modified Resource Conservation and Recovery Act (RCRA) Hazardous Waste Management Post-Closure Permit (Permit) at the WRR, issued September 23, 2010 (modified December 20, 2019) (IEPA, 2010b); and (3) the new well required by the October 9, 2014, letter must be used in a demonstration to verify the extent of groundwater contamination has been delineated; or
- If SOPUS cannot define the extent of contamination, a proposal for additional investigation must be submitted.

On December 5, 2014, a letter was submitted to IEPA by URS (URS, 2014c), on behalf of SOPUS, requesting a reduction in the routine gauging performed as part of the Program. In a letter (CA-83) dated August 2, 2017 (IEPA, 2017), IEPA approved the December 5, 2014 request to reduce the frequency of routine gauging from weekly/monthly to quarterly with the following condition:

- Groundwater monitoring wells ROST-4-PZ(E) and ROST-4-PZ(G) must be added to the list of wells sampled quarterly for groundwater quality. These monitoring wells were added to the sampling portion of the Program in 4th Quarter 2017.

On April 16, 2015, AECOM, on behalf of SOPUS, submitted a demonstration to verify the extent of groundwater contamination has been delineated (AECOM, 2015). The demonstration is based on monitoring data from wells in the Roxana Program. Additional information was submitted to IEPA in a letter dated January 29, 2016 (AECOM, 2016a). In a letter (CA-85 and -90) dated February 23, 2016 (IEPA, 2016c), IEPA agreed with this determination and required a Groundwater Management Zone (GMZ) proposal be submitted within 90 days. The GMZ proposal was

submitted by AECOM, on behalf of SOPUS, on May 19, 2016 (AECOM, 2016b). IEPA provided comments via email in October 2017; AECOM responded to IEPA comments on January 2, 2018 (AECOM, 2018a). Meetings with SOPUS, AECOM, and IEPA representatives were held on April 5, 2018 and July 19, 2018 in order to provide additional information regarding the proposed GMZ. On September 26, 2018, AECOM, on behalf of SOPUS, submitted *Groundwater Management Zone – Additional Information* to present information requested via email dated September 5, 2018 (AECOM, 2018b). On March 18, 2022, AECOM, on behalf of Shell, submitted Additional Information Supplemental to the Proposed Groundwater Management Zone in response to phone conversations with IEPA in December 2021 through February 2022 (AECOM, 2022b). A response to the proposed GMZ is still pending as of the date of this report.

In a letter (CA-37 and -58) dated May 22, 2015, IEPA provided approval for the April 3, 2013, Groundwater Monitoring Well and Vapor Monitoring Point Installation Report (IEPA, 2015).

In a meeting on April 5, 2018, IEPA verbally requested that benzene concentration trend plots for selected monitoring wells be incorporated into Roxana Program quarterly reports. This information is discussed in **Section 3** of the Program quarterly report. These trend plots were first included with the 2nd Quarter 2018 (2Q18) monitoring report.

On October 25, 2019, IEPA approved the Roxana Groundwater Ordinance for use as an institutional control in accordance with Title 35 of the Illinois Administrative Code Part 742 (35 IAC 742) to restrict access to groundwater (IEPA, 2019).

SOPUS's current Resource Conservation and Recovery Act (RCRA) Permit at the WRR was issued by IEPA on September 23, 2010 and expired October 28, 2020 (IEPA, 2010b). A Permit renewal application was submitted to IEPA on April 29, 2020 in accordance with Condition VI(B)(6) of the Permit and a letter from IEPA dated November 6, 2019. A timely filing of the renewal application was made and, therefore the conditions of the Permit are stayed. On June 30, 2020, IEPA issued a Notice of Incompleteness letter after conducting a completeness review of the Permit renewal application (IEPA, 2020a); AECOM submitted the Permit Application Completeness Response to IEPA on September 4, 2020 (AECOM, 2020a). IEPA issued a letter on October 30, 2020 indicating they have determined the application to be complete (IEPA, 2020b).

On October 12, 2020, AECOM, on behalf of SOPUS, requested a Class 1* Permit Modification (AECOM, 2020b) in response to an IEPA issued letter dated December 20, 2019. The December 20, 2019 letter issued approval and comments related to several Hazardous Waste Management Post-Closure Permit (Permit) Modifications requests and included a modified Permit. The letter included a condition requesting the installation of a new B-level groundwater monitoring well to be added to the Roxana Interim Groundwater Monitoring Program to intercept potential groundwater contamination observed at P-93B. The October 12th AECOM response indicated the B-level impact observed in P-93B has been delineated to the west and, therefore the installation of a new groundwater monitoring well does not appear to be necessary at this time and as such is not proposed. A response to this letter is still pending as of the date of this report.

On August 22, 2022, IEPA approved with conditions the Public Works Yard (PWY) Steam Enhanced Extraction (SEE) Workplan (CA-107) (IEPA, 2022). The PWY SEE Workplan was submitted to IEPA on January 31, 2022 (AECOM, 2022a), and provided the system design as well as the plan and schedule for construction, operation, post-shutdown monitoring, and decommissioning for the proposed SEE system at the Roxana old PWY.

- In a September 21, 2022 meeting attended by AECOM, Shell, McMillan-McGee, and IEPA, comments pertaining to the IEPA's August 22, 2022 letter were discussed, including additional PWY sampling.

Condition 2 of IEPA's August 22, 2022 letter (CA-107) stated that a Roxana Public Works Yard (PWY) Steam Enhanced Extraction (SEE) - Final Design Report and Construction Work Plan (FDRWP) was due within 90 days of the date of the letter (i.e. November 20, 2022) (IEPA, 2022). On October 14, 2022, AECOM, on behalf of Shell, requested the due date for the FDRWP be extended to December 20, 2022 to allow for adequate preparation (AECOM, 2022b).

On December 16, 2022, AECOM, on behalf of Shell, submitted the Roxana PWY SEE – FDRWP (AECOM, 2022c) to IEPA in fulfillment of Phase II of the Corrective Measures Program (CMP); the Roxana PWY SEE – FDRWP describes the additional sampling discussed in the September 21, 2022 meeting that will be collected prior to, and

during, the construction of the SEE system. The Roxana PWY SEE – FDRCWP responded to conditions in IEPA's August 22, 2022 letter (CA-107).

On January 30, 2023, AECOM, on behalf of Shell, submitted Additional Information to Log No. B-43R-CA-109 (PWY SEE – Response to 8/22/22 Letter & FDRCWP) (AECOM, 2023a) in response to questions and specific requests by IEPA during a virtual discussion on January 5, 2023, to help facilitate IEPA review and respond to the Roxana Public Works Yard (PWY) Steam Enhanced Extraction (SEE) – Final Design Report and Construction Work Plan (FDRCWP) (AECOM, 2022c). The PWY SEE FDRCWP was submitted to IEPA by AECOM, on behalf of Shell, on December 16, 2022 to satisfy Phase II of the Corrective Measures Program (CMP) and respond to conditions in IEPA's August 22, 2022 letter. The IEPA August 22, 2022 letter approved, with conditions, the PWY SEE Workplan, which was submitted to IEPA by AECOM, on behalf of Shell, on January 31, 2022. A meeting on September 21, 2022 was held with AECOM, Shell, McMillan-McGee and IEPA to discuss comments pertaining to IEPA's August 22, 2022 letter, including additional PWY sampling.

On January 30, 2023, AECOM, on behalf of Shell, also submitted the Application for Water Pollution Control Permit to IEPA for the PWY SEE system (AECOM, 2023b). This was submitted after receipt of IEPA's July 11, 2022 contained-in concurrence letter (IEPA, 2022X). On March 2, 2022, AECOM, on behalf of Shell, submitted the Contained-In Determination Request Form (AECOM, 2022X) to IEPA that was inadvertently left out of the Contained-In Determination submitted February 21, 2022 (AECOM, 2022X). The February 21, 2022 Contained-In Determination stated groundwater generated during operation of the proposed SEE system is expected to no longer contain hazardous waste after treatment.

On February 23, 2023, AECOM, on behalf of Shell, submitted the Former Public Works Yard (FPWY) Class V Injection Well Inventory Form for the PWY SEE system (AECOM, 2023c).

On April 4, 2023, IEPA approved with conditions the FPWY Construction and Operation of Steam Enhanced Extraction Pretreatment System permit (IEPA, 2023a). The operational portion of this permit expires February 28, 2028.

On May 5, 2023, IEPA approved with conditions the PWY Final Design Report and Construction Work Plan (FDRCWP) for in-situ thermal remediation (ISTR), specifically Steam Enhanced Extraction (SEE), to reduce and remediate benzene as well as other VOCs present in the treatment target zone (TIZ) of SEE at the PWY (CA-109) (IEPA, 2023b).

On August 1, 2023, IEPA responded to the AECOM letter dated July 6, 2023, *Notice of Water Production Well W-85 Damage*, requesting the frequency for groundwater monitoring, well gauging, and reporting increased to a monthly schedule until a replacement for W-85 is installed and "capable of operating and contributing to the required combined minimum pumping rate of 3,000 gallons per minute" (IEPA, 2023c). On August 10, 2023, a virtual meeting was held between IEPA, Shell, and AECOM to clarify and discuss the conditions of the IEPA August 1, 2023, letter.

On August 3, 2023, AECOM, on behalf of Shell, submitted a response (AECOM, 2023d) to the IEPA letter dated May 5, 2023. The May 5, 2023, letter was in response to the Final Design Report and Construction Work Plan (FDRCWP) dated December 16, 2023; as well as a smaller submittal with additional information supplementing the FDRCWP, dated January 30, 2023.

On August 11, 2023, AECOM on behalf of Shell, submitted a Class 1* Permit Modification (AECOM, 2023e) in accordance with Condition IV(K)(2) of Shell's RCRA Post-Closure Permit, issued September 23, 2010, and most recently modified October 31, 2022. The Class 1* Permit Modification included further discussion of well W-85 notification timeline, W-85 removal, and proposal for new water production well W-92.

On November 8, 2023, IEPA issued a Violation Notice (VN L-2023-00369), in response to the triennial site inspection performed in July 2023. The alleged violations included in this violation notice were related to monitoring well labels and construction. A meeting was held between AECOM, Shell and IEPA on January 4, 2024. A request for extension to submit a response to the Violation Notice was submitted to IEPA on January 15, 2024, and was approved by IEPA in an email dated January 24, 2024. AECOM, on behalf of Shell, submitted a Response to Violation Notice L-2023-00370 on February 16, 2024. IEPA issued a Proposed Compliance Commitment Agreement, which was dated March 21, 2024, and received by AECOM on March 25, 2024.

On January 26, 2024, IEPA approved with conditions the Response to 5/5/2023 Illinois EPA Letter as well as two Additional Information submittals related to the FPWY SEE FDRW (CA-113, -114, and -115) (IEPA, 2024a).

On February 23, 2024, AECOM, on behalf of Shell, submitted a response to the IEPA letter dated 1/26/2024 (AECOM, 2024a). On March 14, 2024, a virtual meeting was held between IEPA, Shell and AECOM to provide an update on the SEE prior to startup and facilitate an open forum for any questions.

On March 4, 2024, AECOM, on behalf of Shell, submitted the *Former Public Works Yard Steam Enhanced Extraction – Pre-SEE Additional Sampling Results* in response to conditions from the IEPA May 5, 2023 letter (AECOM, 2024b).

On April 9, 2024, IEPA approved the July 6, 2023 Request to Change Due Dates of Roxana Interim Groundwater Monitoring Reports, extending due dates by approximately two weeks (CA-112) (IEPA, 2024b).

On April 22, 2024, IEPA approved with conditions the Response to 1/26/2023 IEPA letter dated February 23, 2024 as well as another submittal *Former Public Works Yard Steam Enhanced Extraction – Pre-SEE Additional Sampling Results* dated March 4, 2024 (CA-116 and -117) (IEPA, 2024c).

On December 13, 2024, AECOM, on behalf of Shell, submitted a Former Public Works Yard Steam Enhanced Extraction System 2024-2025 Winter Operations Plan letter. On February 18, 2025, IEPA approved with conditions this Winter Operations Plan (CA-120).

Historical References

AECOM, 2015 (AECOM, 2015); *Demonstration to Verify the Extent of Groundwater Contamination Has Been Delineated Roxana, Illinois*. Prepared for Shell Oil Products US (Shell), dated April 16, 2015.

AECOM, 2016 (AECOM, 2016a); *Additional Information – Groundwater Management Zone*. Prepared for Shell Oil Products US (Shell), dated January 29, 2016.

AECOM, 2016 (AECOM, 2016c); *Response to IEPA Letter dated July 27, 2016 – Groundwater Conditions near East 3rd and Chaffer Streets*. Prepared for Shell Oil Products US (Shell), dated October 14, 2016.

AECOM, 2018 (AECOM, 2018a); *Response to IEPA Emails dated October 4-23, 2017 – GMZ Response to Comments*. Prepared for Shell Oil Products US (Shell), dated January 2, 2018.

AECOM, 2018 (AECOM, 2018b); *Groundwater Management Zone – Additional Information*. Prepared for Shell Oil Products US (Shell), dated September 26, 2018.

AECOM, 2020 (AECOM, 2020a); *Response to IEPA Notice of Permit Renewal Application Incompleteness*. Prepared for Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated September 4, 2020.

AECOM, 2020 (AECOM, 2020b); *Class 1* Permit Modification – Response to Condition 4.b. in Attachment A and Condition V.D.3. of the 12/20/2019 IEPA Letter with Modified Permit*. Prepared for Shell Oil Products US (Shell), dated October 12, 2020.

AECOM, 2022 (AECOM, 2022a); *Public Works Yard (PWY) Steam Enhanced Extraction (SEE) Workplan*. Prepared for Shell Oil Products US (Shell), dated January 31, 2022.

AECOM, 2022 (AECOM, 2022b); *Additional Information Supplemental to the Proposed Groundwater Management Zone*. Prepared for Shell Oil Products US (Shell), dated March 18, 2022.

AECOM, 2022 (AECOM, 2022c); *Old Public Works Yard Steam Enhanced Extraction – Response to 8/22/22 Letter and Final Design Report & Construction Work Plan*. Prepared for Shell Oil Products US (Shell), dated December 16, 2022.

AECOM, 2023 (AECOM, 2023a); *Additional Information to Log No. B-43R-CA-109 (PWY SEE – Response to 8/22/22 Letter & FDRCWP)*. Prepared for Shell Oil Products US (Shell), dated January 30, 2023.

AECOM, 2023 (AECOM, 2023b); *Application for Water Pollution Control Permit – Wastewater Pretreatment System*. Prepared for Shell Oil Products US (Shell), dated January 30, 2023.

AECOM, 2023 (AECOM, 2023c); *Former Public Works Yard Class V Injection Well Inventory Form*. Prepared for Shell Oil Products US (Shell), dated February 23, 2023.

AECOM, 2023 (AECOM, 2023d); *Response to May 5, 2023 IEPA FPWY SEE Letter*. Prepared for Shell Oil Products US (Shell), dated August 3, 2023.

AECOM, 2023 (AECOM, 2023e); *Class 1* Permit Modification – Further Discussion of W-85 Notification Timeline; W-85 Removal; Proposal for New Well (W-92)*. Prepared for Shell Oil Products US (Shell), dated August 11, 2023.

AECOM, 2024 (AECOM, 2024a); *Response to January 26, 2024 IEPA FPWY SEE Letter*. Prepared for Shell Oil Products US (Shell), dated February 23, 2024.

AECOM, 2024 (AECOM, 2024b); *FPWY Pre-SEE Additional Sampling Results*. Prepared for Shell Oil Products US (Shell), dated March 4, 2024.

AECOM, 2024 (AECOM, 2024c); *Response to IEPA Letter dated July 27, 2016 – Groundwater Conditions near East 3rd and Chaffer Streets*. Prepared for Shell Oil Products US (Shell), dated March 11, 2024.

Illinois Environmental Protection Agency, 2010 (IEPA, 2010b); *Hazardous Waste Management RCRA Post-Closure Permit*. Issued to Shell Oil Products US (Shell) at the WRB Refining LP Wood River Refinery (WRB WRR), issued September 23, 2010; effective October 28, 2010; modified April 2, 2013; modified June 13, 2014; modified November 25, 2014; modified July 29, 2015; modified December 20, 2019; modified March 28, 2022; modified October 31, 2022.

Illinois Environmental Protection Agency, 2011 (IEPA, 2011a); *Corrective Action Letter for the West Fenceline*. Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated June 16, 2011.

Illinois Environmental Protection Agency, 2011 (IEPA, 2011b); *RCRA Response to Groundwater for Second Quarter 2011*. Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated August 31, 2011.

Illinois Environmental Protection Agency, 2012 (IEPA, 2012a); *Letter (CA-24) in response to ROST-4-PZ Delineation and Sampling Report*. Issued to Shell Oil Products US (Shell), dated March 14, 2012.

Illinois Environmental Protection Agency, 2012 (IEPA, 2012b); *Letter (CA-25) in Response to Agency Comments Provided in June 16, 2011 Letter*. Issued to Shell Oil Products US (Shell), dated March 14, 2012.

Illinois Environmental Protection Agency, 2013 (IEPA, 2013a); *Approval with Conditions for the Roxana 4Q10 and 2Q12 Groundwater Monitoring Program Reports*. Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated April 8, 2013.

Illinois Environmental Protection Agency, 2013 (IEPA, 2013b); *Response to Submittals received February 8, 2012; November 14, 2012; January 25, 2013; and March 14, 2013*. Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated July 18, 2013.

Illinois Environmental Protection Agency, 2014 (IEPA, 2014a); *Response to Class I* Permit Modification Requests*. Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated June 13, 2014.

Illinois Environmental Protection Agency, 2014 (IEPA, 2014b); *Response to Groundwater Monitoring Well Installation Plan Location on BP Property*. Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated October 9, 2014.

Illinois Environmental Protection Agency, 2014 (IEPA, 2014c); *Response to the Groundwater Portions of the Two Subject Submittals (Proposed Plan for Groundwater Corrective Action and Request for a 60-day Extension for Submittal of the Plan)*. Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated November 25, 2014.

Illinois Environmental Protection Agency, 2015 (IEPA, 2015); *Approval of an April 3, 2013, Submittal Made on Behalf of Equilon Enterprises LLC and WRB Refining LP by Robert Billman, URS Corporation*. Issued to Shell Oil Products (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated May 22, 2015.

Illinois Environmental Protection Agency, 2016 (IEPA, 2016a); *IEPA Approval of Perched Groundwater Monitoring Location Abandonments*. Issued to Shell Oil Products (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated July 27, 2016.

Illinois Environmental Protection Agency, 2016 (IEPA, 2016b); *IEPA Approval Conditions and Modifications for the Response to IEPA Letter Dated April 8, 2013, for Groundwater Conditions Near East 3rd and Chaffer Streets (which was dated July 29, 2013)*. Issued to Shell Oil Products (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated July 27, 2016.

Illinois Environmental Protection Agency, 2016 (IEPA, 2016c); *Response to Two Subject Submittals Submitted on Behalf of Shell Oil Products US (SOPUS) by URS Corporation (URS), in Regards to the WRB Refining, LLC Wood River Refinery (WRR) in Roxana, IL.* Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated February 23, 2016.

Illinois Environmental Protection Agency, 2017 (IEPA, 2017); *IEPA Approval to Reduce Gauging – Roxana Groundwater Monitoring Program.* Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated August 2, 2017.

Illinois Environmental Protection Agency, 2019 (IEPA, 2019); *Groundwater Ordinances Reviewed for Use As Environmental Institutional Controls.*

<http://epadata.epa.state.il.us/land/gwordinance/municipality.asp?Municipality=Roxana>. Emailed to Shell Oil Products US (Shell), dated November 7, 2019.

Illinois Environmental Protection Agency, 2020 (IEPA, 2020a); *Notice of Permit Renewal Application Incompleteness.* Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated June 30, 2020.

Illinois Environmental Protection Agency, 2020 (IEPA, 2020b); *Notice of Permit Completeness.* Issued to Shell Oil Products US (Shell) and WRB Refining LP (WRB) Wood River Refinery (WRR), dated October 30, 2020.

Illinois Environmental Protection Agency, 2022 (IEPA, 2022); *Public Works Yard (PWY) Steam Enhanced Extraction (SEE) Workplan Approval with Conditions.* Issued to Shell Oil Products US (Shell), dated August 22, 2022.

Illinois Environmental Protection Agency, 2023 (IEPA, 2023a); *Water Pollution Control Permit.* Issued to Shell Oil Products US (Shell) at the Village of Roxana Wastewater Treatment Plant, issued April 4, 2023; expires February 23, 2028.

Illinois Environmental Protection Agency, 2023 (IEPA, 2023b); *Approval with Conditions of Old Public Works Yard (PWY) Steam Enhanced Extraction (SEE) Final Design Report & Construction Work Plan.* Issued to Shell Oil Products US (Shell), dated May 5, 2023.

Illinois Environmental Protection Agency, 2023 (IEPA, 2023c); *Response to Part B Permit W-85 Outage Notice.* Issued to Shell Oil Products US (Shell), dated August 1, 2023.

Illinois Environmental Protection Agency, 2024 (IEPA, 2024a); *Approval with Conditions of Three Recent FPWY SEE Submittals.* Issued to Shell Oil Products US (Shell), dated January 26, 2024.

Illinois Environmental Protection Agency, 2024 (IEPA, 2024b); *Approval of Request to Change Due Dates of Roxana Interim Groundwater Monitoring Reports.* Issued to Shell Oil Products US (Shell), dated April 9, 2024.

Illinois Environmental Protection Agency, 2024 (IEPA, 2024c); *Approval with Conditions of Two Recent FPWY SEE Submittals.* Issued to Shell Oil Products US (Shell), dated April 22, 2024.

URS Corporation, 2013 (URS, 2013a); *Roxana Perched Groundwater Monitoring Locations*; Prepared for Shell Oil Products US (Shell); dated August 16, 2013.

URS Corporation, 2013 (URS, 2013b); *Response to IEPA Letter April 8, 2013 – Groundwater Conditions near East 3rd and Chaffer Streets, Roxana, Illinois*; Prepared for Shell Oil Products US (Shell); dated July 29, 2013.

URS Corporation, 2013 (URS, 2013c); *Proposed Plan for Groundwater Corrective Action, Roxana, Illinois*; Prepared for Shell Oil Products US (Shell); dated November 14, 2013.

URS Corporation, 2014 (URS, 2014a); *Perched Groundwater Monitoring Locations*; Prepared for Shell Oil Products US (Shell); dated January 14, 2014.

URS Corporation, 2014 (URS, 2014b); *Perched Groundwater Monitoring Request for Abandonment*; Prepared for Shell Oil Products US (Shell); dated January 14, 2014.

URS Corporation, 2014 (URS, 2014c); *Request to Reduce Gauging – Roxana Groundwater Monitoring Program, Roxana IL*; Prepared for Shell Oil Products US (Shell); dated December 5, 2014.

Appendix B

Low Flow Groundwater Sampling Data Sheets

PROJECT NUMBER: 60738191-3.1.2 FIELD PERSONNEL: S. McLean, T. Jenkins

PROJECT NUMBER:

60738191-3.1.2 FIELD PERSONNEL: S. McLean, T. Jenkins

WEATHER: 39° Clear

SAMPLE ID: MW01-ROX-011725 ~~SM~~ MW1-ROX-011725

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 59.13 ft	53.80 ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 42.93 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 48.80 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHIEVER IS DEEPER): ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Water Column Height (not including NAPL): 16.38 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	ft btoc
		ft btoc

Pump Type: Stainless Steel Submersible Pump

STABLE:

(over 4 readings)

Monitor Temp.

 ± 0.2 mg/L or $\pm 10\%$

+/-5% or

 $\eta = 2 \text{ mS/cm}$

+/-0.2 mg/L

 $\pm 0.2 \text{ mg/l}$

+/-20 mV

+20 mV

Monitor Turb

Readings (<50)

[illegible]

Elapsed Time (min): 4 min. 5

Water Quality Meter ID & SN: YSI ProDSS -- 221869/2107SM

Average Purge Rate (mL/min): 300

Date Calibrated: 1/17/25

Sample Date: 01/17/25

Sample Time: 1000

Lab Analysis: VOC, SVOC, PAH

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 60738191 - 3.4.1/2/3 FIELD PERSONNEL: S. Beadle, E. Chalfant

DATE: 2/14/25 WEATHER: 20°F, Clear

MONITORING WELL ID: MW-1 SAMPLE ID: MW1 - ROX - 021425

INITIAL DATA

Well Diameter: <u>2</u> in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN - PUMP INTAKE AT MIDPOINT OF SCREEN: <u>53.80</u> ft btoc	Volume of Flow Through Cell: <u>320*</u> mL
Total Well Depth (btoc): <u>59.13</u> ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>N/A</u> ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): <u>960</u> mL
Depth to Water (btoc): <u>43.27</u> ft	IF SCREEN & WATER COLUMN >10 FT - PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): <u>N/A</u> ft btoc	Ambient PID/FID Reading: <u>0.0</u> ppm
Depth to LNAPL/DNAPL (btoc): <u>NE</u> ft		Wellbore PID/FID Reading: <u>0.0</u> ppm
Depth to Top of Screen (btoc): <u>48.80</u> ft		
Screen Length: <u>10</u> ft		
Water Column Height (not including NAPL): <u>15.86</u> ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>N/A</u> ft btoc	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT - PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): <u>N/A</u> ft btoc	

PURGE DATA

Pump Type: Stainless Steel Submersible Pump STABLE: (over 4 readings) Monitor Temp. ± 0.2 mg/L or $\pm 10\%$ $\pm 5\%$ or ± 2 uS/cm ± 0.2 mg/L ± 20 mV Monitor Turb Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
300	1031	43.27	clear	slight	13.7	1.78	0.992 (mS/cm) uS/cm	6.84	86.9	34.2
600	1032	43.27			13.2	1.57	0.959 (mS/cm) uS/cm	6.85	80.2	29.4
900	1033	43.27			13.6	1.39	0.950 (mS/cm) uS/cm	6.85	73.5	28.2
1200	1034				13.9	1.25	0.958 (mS/cm) uS/cm	6.84	66.9	26.5
1500	1035				14.0	1.14	0.964 (mS/cm) uS/cm	6.84	61.3	26.1
1800	1036				14.0	1.08	0.961 (mS/cm) uS/cm	6.85	56.6	26.1
2100	1037				14.3	1.01	0.961 (mS/cm) uS/cm	6.85	52.6	26.2
2400	1038				14.1	0.96	0.970 (mS/cm) uS/cm	6.85	49.4	25.9
2700	1039				14.4	0.92	0.963 (mS/cm) uS/cm	6.85	46.3	26.7
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 1030 Elapsed Time (min): 9 minutes Water Quality Meter ID & SN: YSI ProDSS -- 219247

Stop Time: 1039 Average Purge Rate (mL/min): 300 Date Calibrated: 2/14/25

SAMPLING DATA

Sample Date: 2/14/25 Sample Time: 1040 Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: SB

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 2700 mL

S. McLean, T. Jenkins

WEATHER: 27° Clear

MONITORING WELL ID: MW-2

SAMPLE ID: MW2-ROX-012425

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤ 10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: 54.87 ft btoC	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 60.20 ft	IF SCREEN ≤ 10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: 44.12 ft btoC	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 44.12 ft	IF SCREEN & WATER COLUMN > 10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHIEVER IS DEEPER): 49.87 ft btoC	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	IF SCREEN > 10 FT & WATER COLUMN HEIGHT < 10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: 16.08 ft	Wellbore PID/FID Reading: 88.5 ppm
Depth to Top of Screen (btoc): 49.87 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT < 4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	
Screen Length: 10 ft		
Water Column Height (not including NAPL): 16.08 ft		

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 uS/cm

+/-0.2 mg/L

+/-20 mV

Monitor Turb
Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
0	1319	44.12	clear	NONE	15.55	0.921	0.892 mS/cm uS/cm	7.09	-19.50	5.236
300	1320	44.12	↓	↓	15.35	0.867	0.890 mS/cm uS/cm	7.10	-21.58	5.093
600	1321	44.12	↓	↓	15.60	0.781	0.888 mS/cm uS/cm	7.10	-24.86	4.684
900	1322	↓	↓	↓	16.01	0.749	0.889 mS/cm uS/cm	7.09	-26.08	4.758
1200	1323	↓	↓	↓	15.77	0.697	0.890 mS/cm uS/cm	7.10	-28.64	5.040
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
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							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

SW8M 012425

Start Time: 1319

Elapsed Time (min): 4 mins

Water Quality Meter ID & SN: YSI ProDSS -- 223019/221869

Stop Time: 1323

Average Purge Rate (mL/min): 300

Date Calibrated: 1/24/25

SAMPLING DATA

Sample Date: 01/24/25

Sample Time: 1325

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: *SM*

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: _____

FIELD PERSONNEL: mmassa Jones

DATE: 1/16/25

WEATHER: Sunny 38°

MONITORING WELL ID: MW-3

SAMPLE ID: MW3-ROX-011625

INITIAL DATA

Well Diameter: 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN - PUMP INTAKE AT MIDPOINT OF SCREEN: <u>39.67</u> ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 45.00 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): <u>29.92</u> ft	IF SCREEN & WATER COLUMN >10 FT - PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): _____ ft btoc	Ambient PID/FID Reading: <u>0.0</u> ppm
Depth to LNAPL/DNAPL (btoc): <u>NE</u> ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Wellbore PID/FID Reading: <u>0.0</u> ppm
Depth to Top of Screen (btoc): 34.67 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT - PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	
Screen Length: 10 ft		
Water Column Height (not including NAPL): <u>15.08</u> ft		

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE: (over 4 readings)

Monitor Temp. +/-0.2 mg/L or +/-10%

+/-5% or +/-2 uS/cm

+/-0.2 mg/L

+/-20 mV

Monitor Turb Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
0	1231	29.92	Clear	None	15.6	1.78	1.021 mS/cm uS/cm	6.35	133.98	5.6
300	1232	29.92			16.2	1.53	1.030 mS/cm uS/cm	6.38	170.81	5.2
600	1233	29.92			16.6	1.27	1.034 mS/cm uS/cm	6.42	167.45	5.0
900	1234				16.9	1.14	1.034 mS/cm uS/cm	6.46	163.47	5.1
1200	1235				16.9	1.07	1.034 mS/cm uS/cm	6.51	159.07	5.2
1500	1236				19.0	0.89	1.033 mS/cm uS/cm	6.57	153.85	5.1
1800	1237				17.2	0.82	1.033 mS/cm uS/cm	6.65	146.87	4.5
2100	1238				17.2	0.79	1.031 mS/cm uS/cm	6.70	141.44	4.7
2400	1239				17.2	0.74	1.032 mS/cm uS/cm	6.75	135.21	4.7
2700	1240				17.2	0.67	1.031 mS/cm uS/cm	6.78	130.86	5.4
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 1231

Elapsed Time (min): 9

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 1240

Average Purge Rate (mL/min): 300

Date Calibrated: 1/15/2025

SAMPLING DATA

Sample Date: 1/16/25

Sample Time: 1245

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: EB

VOA Vials, No Headspace ☒ Initials: mm

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 2700 mL

PROJECT NUMBER: 60738191-31.2 FIELD PERSONNEL: S McLean, T. Jenkins

PROJECT NUMBER: 6073819-31.2 FIELD PERSONNEL: S. McLean, T. Jenkins

DATE: 01/27/25 WEATHER: 33° Clear

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤ 10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 55.39 ft	50.06 ~~46.23~~ 8 ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 41.23 ft	IF SCREEN ≤ 10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	_____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 45.06 ft	IF SCREEN & WATER COLUMN > 10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHICHEVER IS DEEPER): _____ ft btoc	Wellbore PID/FID Reading: 0.2 ppm
Water Column Height (not including NAPL): 14.16 ft	IF SCREEN > 10 FT & WATER COLUMN HEIGHT < 10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	_____ ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT < 4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	

STABLE:
(over 4 readings)

Monitor Temp.	+/-0.2 mg/L or +/-10%

+/-5% or
+/-2 uS/cm

 ± 0.2 mg/L ± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Elapsed Time (min): 4 mins

Water Quality Meter ID & SN: YSI ProDSS --223019/221869

Average Purge Rate (mL/min): 300

Date Calibrated: 01/27/25

Sample Date: 01/27/25

Sample Time: 0955

Lab Analysis: VOC, SVOC, PAH

Sample Flow Rate (mL/min): 300

QA/QC Samples: **EB**

VOA Vials, No Headspace ☒ Initials: SM

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

FIELD PERSONNEL: Tony Jones, Ellis Chalfant

WEATHER: cloudy 20°F

SAMPLE ID: MW6A-720x-012225

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 44.18 ft	39.02 ft btoC	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 31.45 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	NA ft btoC	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 33.85 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHIEVER IS DEEPER): ft btoC	Wellbore PID/FID Reading: 0.0 ppm
Water Column Height (not including NAPL): 12.73 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	ft btoC
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICEVER IS DEEPER):	ft btoC

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 $\mu\text{S}/\text{cm}$

+/-0.2 mg/L

± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: 1320

Elapsed Time (min): 15

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 1335

Average Purge Rate (mL/min): 300

Date Calibrated: 1/22/25

SAMPLING DATA

Sample Date: 1/22/25

Sample Time: 1400

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: *None*

VOA Vials, No Headspace ☒ Initials: TS

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 4500 mL

PROJECT NUMBER: 60438191-3.1.2 FIELD PERSONNEL: S. McLean, T. Jenkins

PROJECT NUMBER:

FIELD PERSONNEL: S. McLean, T. Jenkins

WEATHER: 28 Clear

SAMPLE ID: MW6B-R0X-012225

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 68.88 ft	66.05 ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 31.55 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 63.55 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 5 ft	(WHICHEVER IS DEEPER): ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Water Column Height (not including NAPL): 37.33 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	ft btoc

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 uS/cm

 ± 0.2 mg/L ± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Elapsed Time (min): 4 mins

Water Quality Meter ID & SN: YSI ProDSS -- 223019/221869

Average Purge Rate (mL/min): 500

Date Calibrated: 1/21/25

Sample Date: 1/22/25

Sample Time: 1415

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: 8mgm

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

PROJECT NUMBER: 60738/91-3.1.2

FIELD PERSONNEL: S. McLean, T. Jenkins

WEATHER: 15° Clear

SAMPLE ID: MW06C-R0X-012025

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 89.60 ft	86.77 ft btoC	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 31.55 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: 0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	ft btoC	Wellbore PID/FID Reading: 0 ppm
Depth to Top of Screen (btoc): 84.27 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER):	ft btoC
Screen Length: 5 ft	ft btoC	
Water Column Height (not including NAPL): 58.05 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	ft btoC
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	ft btoC

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Water Quality Meter ID & SN: YSI ProDSS --223019/221869

Date Calibrated: 01/20/25

Lab Analysis: VOC, SVOC, PAH

QA/QC Samples: N/A

8750

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1206 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60738191-3.1.2

FIELD PERSONNEL: S. McLean, T. Jenkins

DATE: 1/22/25

WEATHER: 28° Clear

MONITORING WELL ID: MW-6D

SAMPLE ID: MW6D-ROX-012225 (-MS / -MSD)

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 109.50 ft	106.67 ft btoC	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 31.12 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	ft btoC	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 104.17 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER):	ft btoC
Screen Length: 5 ft	ft btoC	
Water Column Height (not including NAPL): 78.38 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	ft btoC

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.	+/-0.2 mg/L or +/-10%

+/-5% or
+/-2 $\mu\text{S}/\text{cm}$

 $\pm 0.2 \text{ mg/L}$ ± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: 1227

Elapsed Time (min): 4 mins

Water Quality Meter ID & SN: YSI ProDSS -- 22/869/223019

Stop Time: 123

Average Purge Rate (mL/min): 300

Date Calibrated: 1/21/25

SAMPLING DATA

Sample Date: 1/22/25

Sample Time: 240

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 350

QA/QC Samples: MS/MSD

VOA Vials, No Headspace ☒ Initials: 

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

S. McLean, T. Jenkins

WEATHER: 53° Clear

MONITORING WELL ID: MW-7

SAMPLE ID: MW7-RDX-012725

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 52.92 ft	47.92 ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 42.85 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 42.92 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	Wellbore PID/FID Reading: 71.6 ppm
Screen Length: 10 ft	(WHIEVER IS DEEPER): ft btoc	
Water Column Height (not including NAPL): 10.07 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	ft btoc

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or +/-2 uS/cm	

+/-0.2 mg/L

± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: 1304

Elapsed Time (min): 4 mins

Water Quality Meter ID & SN: YSI ProDSS -- 223019/221869

Stop Time: 1308

Average Purge Rate (mL/min): 300

Date Calibrated: 01/27/25

SAMPLING DATA

Sample Date: 01/27/25

Sample Time: 1.3/5

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: **N/A**

VOA Vials, No Headspace ☒ Initials: *Sme*

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 60738/91 FIELD PERSONNEL: Tony Jones, Joe Mayor

DATE: 1/17/25 WEATHER: Sunny 37°F

MONITORING WELL ID: MW-9

SAMPLE ID: MW9-Rox-011725, MW9-Rox-011725-MS, MW9-Rox-011725-MSD

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 56.37 ft	51.04 ft btoC	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 44.90 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	NA ft btoC	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 46.04 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHIEVER IS DEEPER): ft btoC	Wellbore PID/FID Reading: 61.4 ppm
Water Column Height (not including NAPL): 11.47 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	ft btoC
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	ft btoC

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Start Time: 0928

Elapsed Time (min): 10

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 0938

Average Purge Rate (mL/min): ~~3000~~ 300

Date Calibrated: 1/17/25

Sample Date: 1/17/25 Sample Time: 0940 Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 200

QA/QC Samples: 11, 12, 13, 14

VOA Vials, No Headspace ☒ Initials: TD

QA/QC Samples: MS, MSD

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 3000 mL

Tony Jones, Toe Mayor

WEATHER: Sunny 45°f

MONITORING WELL ID: MW-10

SAMPLE ID: MW/O-Rox 011725

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: NA ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 54.22 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: 49.50 ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 44.79 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHIEVER IS DEEPER): 48.60 ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 43.89 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): ft btoc	
Screen Length: 10 ft		
Water Column Height (not including NAPL): 9.43 ft		

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

± 0.2 mg/L or
 $\pm 10\%$

+/-5% or
+/-2 uS/cm

± 0.2 mg/L

± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: 1051

Elapsed Time (min): 8

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 1059

Average Purge Rate (mL/min): 300

Date Calibrated: 1/17/25

SAMPLING DATA

Sample Date: 1/17/25

Sample Time: 1100

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: *TS*

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 2400 mL

Tony Jones, Ellis Chalfant
S. McLean, T. Jenkins

PROJECT NUMBER: 60738191

FIELD PERSONNEL:

WEATHER: 22° ~~clear~~^{TS} cloudy

SAMPLE ID: MW11-ROX-012025

Well Diameter): 2 in	IF SCREEN ≤ 10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: _____ ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 51.83 ft	IF SCREEN ≤ 10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 43.07 ft	IF SCREEN & WATER COLUMN > 10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): _____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE	IF SCREEN > 10 FT & WATER COLUMN HEIGHT < 10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 41.50 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT < 4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	
Screen Length: 10 ft		
Water Column Height (not including NAPL): 9.01 ft		

Pump Type: <u>Stainless Steel Submersible Pump</u>	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Elapsed Time (min): 13

Water Quality Meter ID & SN: YSI ProDSS .. 23019/2260 SN

Average Purge Rate (mL/min): 300

Date Calibrated: 01/20/25 223027/223344

Sample Date: 6/20/25

Sample Time: 1220

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: Shannon TJ

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 3900 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NUMBER: 60721927

FIELD PERSONNEL: S. McLean, T. Jenkins

WEATHER: 39° Clear

SAMPLE ID: MW12-ROX-011625/MW12-ROX-011625-EB

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: _____ ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 51.74 ft		Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 42.82 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	44.28	
Depth to Top of Screen (btoc): 41.41 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): _____ ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Screen Length: 10 ft		
Water Column Height (not including NAPL): 8.92 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	

Pump Type: <u>Stainless Steel Submersible Pump</u>	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Elapsed Time (min): ~~5 mins~~ 4 mins

Water Quality Meter ID & SN: YSI ProDSS .. 223019/210771

Average Purge Rate (mL/min): 300

Date Calibrated: 01/15/25

Sample Date: 01/16/25

Sample Time: 1218

Lab Analysis: VOC, SVOC, PAH

Sample Flow Rate (mL/min): 300

QA/QC Samples: **FB**

gmm

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60738191 - 3.4.1/2/3

FIELD PERSONNEL: S. Beadle, E. Chalfant

DATE: 2/13/25

WEATHER: 20°F, clear

MONITORING WELL ID: MW-12

SAMPLE ID: MW12 - ROX - 02/13/25

INITIAL DATA

Well Diameter: <u>2</u> in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN - PUMP INTAKE AT MIDPOINT OF SCREEN: <u>N/A</u> ft btoc	Volume of Flow Through Cell: <u>320*</u> mL
Total Well Depth (btoc): <u>51.74</u> ft		Minimum Purge Volume = (3 x Flow Cell Volume): <u>960</u> mL
Depth to Water (btoc): <u>43.13</u> ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>43.44</u> ft btoc	Ambient PID/FID Reading: <u>0.0</u> ppm
Depth to LNAPL/DNAPL (btoc): <u>NE</u> ft		Wellbore PID/FID Reading: <u>0.0</u> ppm
Depth to Top of Screen (btoc): <u>41.41</u> ft	IF SCREEN & WATER COLUMN >10 FT - PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): <u>N/A</u> ft btoc	
Screen Length: <u>10</u> ft		
Water Column Height (not including NAPL): <u>8.61</u> ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>N/A</u> ft btoc	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT - PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): <u>N/A</u> ft btoc	

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 uS/cm

+/-0.2 mg/L

+/-20 mV

Monitor Turb
Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
900	1358	43.13	clear	none	13.4	1.53	0.711 mS/cm uS/cm	6.56	201.0	17.3
1200	1359	43.13			13.3	1.39	0.685 mS/cm uS/cm	6.63	196.0	14.7
1500	1400	43.13			15.9	1.21	0.687 mS/cm uS/cm	6.63	193.8	12.4
1800	1401				16.3	1.12	0.711 mS/cm uS/cm	6.64	193.0	14.0
2100	1402				15.9	1.09	0.720 mS/cm uS/cm	6.65	192.1	15.0
2400	1403				16.3 15.7	1.04	0.714 mS/cm uS/cm	6.68	189.9	13.8
2700	1404				16.1	0.97	0.720 mS/cm uS/cm	6.71	186.8	11.0
3000	1405				16.0	0.94	0.726 mS/cm uS/cm	6.72	186.2	11.0
3300	1406				15.6	0.93	0.726 mS/cm uS/cm	6.74	184.9	10.5
3600	1407				15.7	0.91	0.726 mS/cm uS/cm	6.75	183.7	9.36
3900	1408				15.8	0.87	0.726 mS/cm uS/cm	6.76	182.3	8.35
4200	1409				16.1	0.85	0.729 mS/cm uS/cm	6.77	181.5	7.61
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 1355

Elapsed Time (min): 14 minutes

Water Quality Meter ID & SN: YSI ProDSS -- 219247

Stop Time: 1409

Average Purge Rate (mL/min): 300

Date Calibrated: 2/12/25

SAMPLING DATA

Sample Date: 2/13/25

Sample Time: 1410

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A - EB

VOA Vials, No Headspace ☒ Initials: SB

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 4200 mL

PROJECT NUMBER: 60738191-3.1.2 FIELD PERSONNEL: M. Massa, S. McLean

PROJECT NUMBER:

FIELD PERSONNEL: M. Massa, S. McLean

WEATHER: 28° Cloudy

SAMPLE ID: MW13-ROX-012325/MW13-ROX-012325-DUP

Well Diameter): 2 in	IF SCREEN ≤ 10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: _____ ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 35.05 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 29.56 ft	IF SCREEN ≤ 10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	32.30 ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 24.80 ft	IF SCREEN & WATER COLUMN > 10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): _____ ft btoc	
Screen Length: 10 ft	IF SCREEN > 10 FT & WATER COLUMN HEIGHT < 10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	
Water Column Height (not including NAPL): 5.49 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT < 4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Water Quality Meter ID & SN: YSI ProDSS .. 223019 / 221869

Date Calibrated: 1/23/25

Lab Analysis: VOC, SVOC, PAH

QA/QC Samples: **DUP**

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60721927 - 3.4.1/2/3

FIELD PERSONNEL:

S. McLean, T. Jenkins

DATE: 01/24/25

WEATHER: 90° Clear

MONITORING WELL ID: MW-14

SAMPLE ID: MW14-ROX-012425 / MW14-ROX-012425-EB

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 43.42 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 33.50 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	38.46 ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 33.42 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHICHEVER IS DEEPER): _____ ft btoc	Wellbore PID/FID Reading: 37.7 ppm
Water Column Height (not including NAPL): 9.92 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	_____ ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:

(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or

 $\pm 10\%$

+/-5% or

$\pm 2 \mu\text{S}/\text{cm}$

+/-0.2 mg/L

+/-20 mV

Monitor Turb

Readings (<50)

[illegible]

Start Time: 1117

Elapsed Time (min): 4

Water Quality Meter ID & SN: YSI ProDSS .. 223019/221869

Stop Time: 11:21

Average Purge Rate (mL/min): 500

Date Calibrated: 1/24/25

SAMPLING DATA

Sample Date: 01/24/25

Sample Time: 1125

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: **EB**

VOA Vials, No Headspace ☒ Initials: *SMC*

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 60721927 - 3.4.1/2/3 FIELD PERSONNEL: S. McLean, T. Jenkins

MONITORING WELL ID: MW-16

SAMPLE ID: MW16-ROX-011625 /-ms /-msD

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 47.75 ft	ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 44.68 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	45.42 ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 37.50 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER):	ft btoc
Screen Length: 10 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	ft btoc
Water Column Height (not including NAPL): 3.67 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	ft btoc

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.	+/-0.2 mg/L or +/-10%

+/-5% or
+/-2 uS/cm

+/-0.2 mg/L

 ± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: 1332

Elapsed Time (min): ~~5 min~~ 4 min

Water Quality Meter ID & SN: YSI ProDSS -- 223019/210771

Stop Time: 1336

Average Purge Rate (mL/min): 300

Date Calibrated: 01/15/25

Sample Date: 6/16/25

Sample Time: 345

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: MS / MSD

VOA Vials, No Headspace ☒ Initials: SM

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 60738191 - 3.4.1/2/3 FIELD PERSONNEL: S. Beadle, E. Chalfant

DATE: 2/14/25 WEATHER: 20°F, clear

MONITORING WELL ID: MW-16

SAMPLE ID: MW16 - ROX - 021425

INITIAL DATA

Well Diameter: <u>2</u> in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN - PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell: <u>320*</u> mL
Total Well Depth (btoc): <u>47.75</u> ft	N/A ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): <u>960</u> mL
Depth to Water (btoc): <u>44.46</u> ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: <u>0.0</u> ppm
Depth to LNAPL/DNAPL (btoc): <u>NE</u> ft	<u>46.10</u> ft btoc	Wellbore PID/FID Reading: <u>0.0</u> ppm
Depth to Top of Screen (btoc): <u>37.50</u> ft	IF SCREEN & WATER COLUMN >10 FT - PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER):	
Screen Length: <u>10</u> ft	N/A ft btoc	
Water Column Height (not including NAPL): <u>3.29</u> ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT ≤10 FT - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	N/A ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT - PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	N/A ft btoc

PURGE DATA

Pump Type: Stainless Steel Submersible Pump STABLE: (over 4 readings) Monitor Temp. ± 0.2 mg/L or $\pm 10\%$ $\pm 5\%$ or ± 2 uS/cm ± 0.2 mg/L ± 20 mV Monitor Turb Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
300	0920	44.52	clear	strong	14.3	2.56	0.973 mS/cm uS/cm	6.59	77.2	21.6
600	0921	44.52			15.1	1.98	0.955 mS/cm uS/cm	6.62	51.0	15.5
900	0922	44.52			15.2	1.65	0.959 mS/cm uS/cm	6.65	29.8	13.4
1200	0923				15.5	1.42	0.951 mS/cm uS/cm	6.67	11.6	11.5
1500	0924				15.9	1.25	0.939 mS/cm uS/cm	6.69	-3.0	9.14
1800	0925				15.4	1.15	0.939 mS/cm uS/cm	6.72	-14.9	7.15
2100	0926				15.7	1.06	0.921 mS/cm uS/cm	6.73	-24.8	5.39
2400	0927				15.8	0.99	0.923 mS/cm uS/cm	6.75	-33.1	4.49
2700	0928				15.9	0.94	0.920 mS/cm uS/cm	6.76	-40.4	3.24
3000	0929				15.8	0.90	0.918 mS/cm uS/cm	6.77	-46.6	2.01
3300	0930				15.9	0.86	0.913 mS/cm uS/cm	6.78	-51.9	1.43
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 0919 Elapsed Time (min): 21 11 minutes Water Quality Meter ID & SN: YSI ProDSS -- 219247
 Stop Time: 0930 Average Purge Rate (mL/min): 300 Date Calibrated: 2/14/25

SAMPLING DATA

Sample Date: 2/14/25 Sample Time: 0935 Lab Analysis: VOC, SVOC, PAH
 Sample Method: Stainless Steel Submersible Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: MS/MSD
 VOA Vials, No Headspace ☒ Initials: SB

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 3300 mL

PROJECT NUMBER: 60738(9)-3-1-2 FIELD PERSONNEL: S. McLean, T. Jenkins

PROJECT NUMBER:

60738(9)-3-1.2 FIELD PERSONNEL: S. McLean, T. Jenkins

WEATHER: 27° Clear

SAMPLE ID: MW22-POX-012425

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: _____ ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 48.48 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 42.96 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	45.42 ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 38.23 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): _____ ft btoc	
Screen Length: 10 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	
Water Column Height (not including NAPL): 3.52 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Elapsed Time (min): 9 mins

Water Quality Meter ID & SN: YSI ProDSS .. 223019/221869

Average Purge Rate (mL/min): 300

Date Calibrated: 1/24/25

Sample Date: 01/24/25

Sample Time: 1425

Lab Analysis: VOC, SVOC, PAH

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

Page 1 of 1

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NUMBER:

PROJECT NUMBER: 607.38191-3.1.2 FIELD PERSONNEL: S. McLean T. Jenkins

DATE: 01/17/25 WEATHER: 45° Clear

MONITORING WELL ID: MW-24 SAMPLE ID: MW24-ROX-011725

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 49.86 ft	ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 43.75 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	46.81 ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 39.61 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER):	
Screen Length: 10 ft	ft btoc	
Water Column Height (not including NAPL): 8.11 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
	ft btoc	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	
	ft btoc	

PURGE DATA

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Start Time: 1:302 Elapsed Time (min): 4 min 3 Water Quality Meter ID & SN: YSI ProDSS -- 221869/223019

Stop Time: 1306 Average Purge Rate (mL/min): 300 Date Calibrated: 1/17/25

SAMPLING DATA

Sample Date: 01/17/25 Sample Time: 1310 Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: SPM

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60738191 - 3.4.1/2/3

FIELD PERSONNEL: S. Beadle, E. Chalfant

DATE: 2/14/25

WEATHER: 20°F, Clear

MONITORING WELL ID: MW-24

SAMPLE ID: MW24-ROX-02/14/25

INITIAL DATA

Well Diameter: 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN - PUMP INTAKE AT MIDPOINT OF SCREEN: <u>N/A</u> ft btoc	Volume of Flow Through Cell: 320* mL
Total Well Depth (btoc): 49.86 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>46.98</u> ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): <u>44.10</u> ft	IF SCREEN & WATER COLUMN >10 FT - PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): <u>N/A</u> ft btoc	Ambient PID/FID Reading: <u>0.0</u> ppm
Depth to LNAPL/DNAPL (btoc): <u>NE</u> ft		Wellbore PID/FID Reading: <u>0.0</u> ppm
Depth to Top of Screen (btoc): 39.61 ft		
Screen Length: 10 ft		
Water Column Height (not including NAPL): <u>5.76</u> ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>N/A</u> ft btoc	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT - PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): <u>N/A</u> ft btoc	

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp. ± 0.2 mg/L or $\pm 10\%$

$\pm 5\%$ or ± 2 uS/cm

± 0.2 mg/L

± 20 mV

Monitor Turb Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
300	1309	44.15	clear	none	14.1	2.24	1.247 mS/cm uS/cm	6.96	124.7	198.4
600	1310	44.15			14.5	1.81	1.247 mS/cm uS/cm	6.96	123.5	172.2
900	1311	44.15			14.1	1.59	1.256 mS/cm uS/cm	6.96	122.9	164.0
1200	1312				13.9	1.41	1.255 mS/cm uS/cm	6.97	122.5	139.8
1500	1313				13.8	1.30	1.261 mS/cm uS/cm	6.96	122.3	125.8
1800	1314				14.3	1.22	1.258 mS/cm uS/cm	6.95	122.2	110.9
2100	1315				15.3	1.12	1.268 mS/cm uS/cm	6.95	121.53	92.4
2400	1316				16.2	1.03	1.289 mS/cm uS/cm	6.95	120.7	78.1
2700	1317				16.1	0.99	1.294 mS/cm uS/cm	6.95	120.61	62.5
3400	1326				14.9	0.83	1.310 mS/cm uS/cm	6.94	118.1	15.67
3700	1327				14.6	0.83	1.309 mS/cm uS/cm	6.95	117.8	13.6
6000	1328				14.1	0.83	1.307 mS/cm uS/cm	6.95	117.7	11.6
6300	1329				14.0	0.82	1.301 mS/cm uS/cm	6.95	117.6	10.6
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 1308

Elapsed Time (min): 21 minutes

Water Quality Meter ID & SN: YSI ProDSS -- 219247

Stop Time: 1329

Average Purge Rate (mL/min): 300

Date Calibrated: 2/14/25

SAMPLING DATA

Sample Date: 2/14/25

Sample Time: 1330

Lab Analysis: VOC, SVOC, PAH ^{SB 2/14/25}

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: SB

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 6300 mL

Page 1 of 1

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60738191-31

FIELD PERSONNEL: Mmassa BHOWELL

DATE: 1/28/25

WEATHER: Clear 33°

MONITORING WELL ID: MW-26

SAMPLE ID: MW26-RNY-012825

INITIAL DATA

Well Diameter: 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 48.40 ft	ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 41.17 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NR ft	44.79 ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 38.15 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER):	ft btoc
Screen Length: 10 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	ft btoc
Water Column Height (not including NAPL): 7.23 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT ≤4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	ft btoc

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 uS/cm

+/-0.2 mg/L

+/-20 mV

Monitor Turb
Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
0	0830	41.17	clear	none	14.9	1.94	0.861 mS/cm uS/cm	7.40	92.8	12.5
200	0831	41.17			15.4	1.67	0.884 mS/cm uS/cm	7.35	93.9	9.7
400	0832	41.17			15.7	1.44	0.892 mS/cm uS/cm	7.32	94.4	7.9
600	0833				15.9	1.39	0.899 mS/cm uS/cm	7.30	95.0	6.8
800	0834				16.1	1.17	0.900 mS/cm uS/cm	7.29	95.2	6.0
1000	0835				16.5	1.09	0.904 mS/cm uS/cm	7.27	95.7	5.6
1200	0836				16.4	1.02	0.906 mS/cm uS/cm	7.27	95.8	5.2
1400	0837				16.6	0.90	0.907 mS/cm uS/cm	7.26	95.9	5.0
1600	0838				16.6	0.91	0.906 mS/cm uS/cm	7.26	96.0	4.5
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 0830

Elapsed Time (min): 8

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 0838

Average Purge Rate (mL/min): 200

Date Calibrated: 1/28/25

SAMPLING DATA

Sample Date: 1/28/25

Sample Time: 0840

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: None

VOA Vials, No Headspace: Initials: mm

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 2400 mL

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60738/91

FIELD PERSONNEL:

Tony Jones, Joe Mayor

DATE: 1/17/25

WEATHER: Sunny, 51°F

MONITORING WELL ID: MW-27

SAMPLE ID: MW27-Rox-011725

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 50.04 ft	NA ft btoC	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 42.86 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	46.45 ft btoC	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 39.79 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	Wellbore PID/FID Reading: 0.0 ppm
Screen Length: 10 ft	(WHIEVER IS DEEPER):	
Water Column Height (not including NAPL): 7.18 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 $\mu\text{S}/\text{cm}$

+/-0.2 mg/L

 ± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: 1344

Elapsed Time (min): 15

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 1359

Average Purge Rate (mL/min): 300

Date Calibrated: 1/17/25

SAMPLING DATA

Sample Date: 1/17/25

Sample Time: 1400

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials:

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 4500 mL

PROJECT NUMBER: 60738191 FIELD PERSONNEL: Tony Jones, Joe Mayor

PROJECT NUMBER: 6073819

FIELD PERSONNEL: Tony Vones, Joe Mayor

WEATHER: Sunny, 51°

SAMPLE ID: MW28-Box-01725

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 43.86 ft	NA ft btoC	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 41.77 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): N/A ft	NA ft btoC	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 33.61 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHICHEVER IS DEEPER): NA ft btoC	Wellbore PID/FID Reading: 0.0 ppm
Water Column Height (not including NAPL): 3.09 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	NA ft btoC
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	42.77 ft btoC

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Date Calibrated: 1/17/25

Lab Analysis: VOC, SVOC, PAH

QA/QC Samples: *None*

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 6000 mL

PROJECT NUMBER: 60738191-3.1.2 FIELD PERSONNEL: S. McLean, T. Jenkins

PROJECT NUMBER: 60738/91-3.1.2 FIELD PERSONNEL: S. McLean, T. Jenkins

WEATHER: 45° Clear

SAMPLE ID: 754-20X-011725

Well Diameter):	2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell :	320* mL
Total Well Depth (btoc):	63.00 ft		Minimum Purge Volume = (3 x Flow Cell Volume):	960 mL
Depth to Water (btoc):	42.50 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:		
Depth to LNAPL/DNAPL (btoc):	NE ft		Ambient PID/FID Reading:	0.0 ppm
Depth to Top of Screen (btoc):	38.00 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER		
Screen Length:	25 ft	(WHICHEVER IS DEEPER):	Wellbore PID/FID Reading:	0.0 ppm
Water Column Height (not including NAPL):	20.50 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:		
		IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):		

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50

[illegible]

Elapsed Time (min): 4mins

Water Quality Meter ID & SN: YSI ProDSS -- 221869/223019

Average Purge Rate (mL/min): 300.

Date Calibrated: 1/17/25

Sample Date: 01/17/25

Sample Time: 1125

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: SMG

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1200 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60738191 - 3.4.1/2/3

FIELD PERSONNEL: S. Beadle, E. Chalfant

DATE: 2/14/25

WEATHER: 20°F, clear

MONITORING WELL ID: P-54

SAMPLE ID: P54 - ROX - 021425

INITIAL DATA

Well Diameter: <u>2</u> in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN - PUMP INTAKE AT MIDPOINT OF SCREEN: <u>N/A</u> ft btoc	Volume of Flow Through Cell: <u>320*</u> mL
Total Well Depth (btoc): <u>63.00</u> ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>N/A</u> ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): <u>960</u> mL
Depth to Water (btoc): <u>42.32</u> ft	IF SCREEN & WATER COLUMN >10 FT - PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): <u>47.32</u> ft btoc	Ambient PID/FID Reading: <u>0.0</u> ppm
Depth to LNAPL/DNAPL (btoc): <u>NE</u> ft		Wellbore PID/FID Reading: <u>0.0</u> ppm
Depth to Top of Screen (btoc): <u>38.00</u> ft		
Screen Length: <u>25</u> ft		
Water Column Height (not including NAPL): <u>20.68</u> ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT - PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>N/A</u> ft btoc	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT - PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): <u>N/A</u> ft btoc	

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 uS/cm

+/-0.2 mg/L

+/-20 mV

Monitor Turb
Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
300	1209	42.83	clear	none	11.7	5.92	0.906 mS/cm uS/cm	6.95	130.0	5.51
600	1210	42.83			11.2	5.80	0.892 mS/cm uS/cm	6.95	129.4	3.15
900	1211	42.83			11.6	5.69	0.880 mS/cm uS/cm	6.94	128.9	2.00
1200	1212				12.1	5.61	0.883 mS/cm uS/cm	6.92	128.8	1.20
1500	1213				12.8	5.51	0.894 mS/cm uS/cm	6.91	128.5	0.78
1800	1214				12.6	5.49	0.905 mS/cm uS/cm	6.91	128.1	0.18
2100	1215				12.7	5.45	0.904 mS/cm uS/cm	6.91	127.7	0.05
2400	1216				12.7	5.43	0.905 mS/cm uS/cm	6.91	127.3	0.00
2700	1217				11.9	5.50	0.916 mS/cm uS/cm	6.91	127.2	0.00
3000	1218				11.3	5.47	0.902 mS/cm uS/cm	6.92	127.0	0.00
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 1208

Elapsed Time (min): 10 minutes

Water Quality Meter ID & SN: YSI ProDSS -- 219247

Stop Time: 1218

Average Purge Rate (mL/min): 300

Date Calibrated: 2/14/25

SAMPLING DATA

Sample Date: 2/14/25

Sample Time: 1220

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: SB

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 3000 mL

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 40738191-31 FIELD PERSONNEL: 2 Chalfant T. Jones

MONITORING WELL ID: P-55R

SAMPLE ID: P5512 - 10X - 012825 1 Sample: not collected

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 50.68 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 41.53 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): 41.52 ft	_____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 40.43 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHIEVER IS DEEPER): _____ ft btoc	Wellbore PID/FID Reading: 316.0 ppm
Water Column Height (not including NAPL): 9.16 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	_____ ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	_____ ft btoc

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.	+/-0.2 mg/L or +/-10%

+/-5% or
+/-2 uS/cm

 $\pm 0.2 \text{ mg/L}$ ± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: _____

Elapsed Time (min): _____

Water Quality Meter ID & SN: YSI ProDSS -- 223027 / 273344

Stop Time: _____

Average Purge Rate (mL/min): _____

Date Calibrated: 01/28/25

Sample Date: _____

Sample Time: _____

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): _____

QA/QC Samples: 1112

VOA Vials, No Headspace ☐ Initials: _____

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

NOT SPANNED due to presence of LNAPL Estimated Total Purge Volume: 0 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60738191

FIELD PERSONNEL: Tony Jones, Ellis Chaffant

DATE: 1/23/25

WEATHER: Cloudy, 28°F

MONITORING WELL ID: P56

SAMPLE ID: P56-Rox-012325, P56-Rox-012325-EB

INITIAL DATA

Well Diameter: <u>2</u> in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: _____ ft btoc	Volume of Flow Through Cell: <u>320*</u> mL
Total Well Depth (btoc): <u>65.82</u> ft		Minimum Purge Volume = (3 x Flow Cell Volume): <u>960</u> mL
Depth to Water (btoc): <u>46.90</u> ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Ambient PID/FID Reading: <u>0.0</u> ppm
Depth to LNAPL/DNAPL (btoc): <u>NE</u> ft		Wellbore PID/FID Reading: <u>0.8</u> ppm
Depth to Top of Screen (btoc): <u>40.82</u> ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): <u>51.90</u> ft btoc	
Screen Length: <u>25</u> ft		
Water Column Height (not including NAPL): <u>18.92</u> ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT ≤10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: <u>NA</u> ft btoc	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 uS/cm

+/-0.2 mg/L

+/-20 mV

Monitor Turb
Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
0	1126	46.92	Clear	strong	15.92	4.90	1.118 mS/cm	6.27	173.41	4.45
1800	1132	46.92			14.01	1.21	1.091 mS/cm	6.83	71.30	7.98
2100	1133	46.92			13.85	1.11	1.089 mS/cm	6.85	66.51	9.49
2400	1134	46.92			13.68	1.04	1.088 mS/cm	6.85	61.17	8.92
4800	1142	46.92			13.17	1.54	1.030 mS/cm	6.88	34.78	8.34
5100	1143	46.92			16.02	0.82	1.011 mS/cm	6.91	17.03	7.31
5400	1144	46.92			17.08	0.65	1.114 mS/cm	6.90	10.21	7.14
5700	1145	46.92			16.37	0.588	1.113 mS/cm	6.91	5.48	9.29
6000	1146	46.92			12.91	0.548	1.149 mS/cm	6.94	1.59	3.69
6300	1147	46.92			17.57	0.509	1.065 mS/cm	6.90	4.56	2.85
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 1126

Elapsed Time (min): 21

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 1147

Average Purge Rate (mL/min): 300

Date Calibrated: 1/23/25

SAMPLING DATA

Sample Date: 1/23/25

Sample Time: 1150

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: EB

VOA Vials, No Headspace ☒ Initials: TJ

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 6300 mL

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FIELD PERSONNEL: Tony Jones, Ellis Chaffant

WEATHER: Sunny, 18°F

SAMPLE ID: P59-Rox-012425, P59-Rox-012425-200

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 72.91 ft		Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 47.00 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft		Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 47.91 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): 52.91 ft btoc	
Screen Length: 25 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Water Column Height (not including NAPL): 25.91 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.	+/-0.2 mg/L or +/-10%

+/-5% or
+/-2 $\mu\text{S}/\text{cm}$

 ± 0.2 mg/L

+/-20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: 0953

Elapsed Time (min): 9

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 1002

Average Purge Rate (mL/min): 300

Date Calibrated: 1/24/25

SAMPLING DATA

Sample Date: 1/24/25

Sample Time: 1005

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: None

VOA Vials, No Headspace ☒ Initials: TS

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 2700 mL

PROJECT NUMBER: 60738191-3.1.2

PROJECT NUMBER:

S. McLean, T. Jenkins

DATE: 1/24/25

WEATHER: 5° Clear

SAMPLE ID: N/A

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: _____ ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 59.72 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 36.50 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): 36.31 ft	_____ ft btoc	Wellbore PID/FID Reading: 192.0 ppm
Depth to Top of Screen (btoc): 34.72 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHIEVER IS DEEPER): _____ ft btoc	
Screen Length: 25 ft	_____ ft btoc	
Water Column Height (not including NAPL): 23.22 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Start Time: _____

Elapsed Time (min): _____

Water Quality Meter ID & SN: YSI ProDSS .. 223019/221969

Stop Time: _____

Average Purge Rate (mL/min): 300

Date Calibrated: 1/24/25

SAMPLING DATA

Sample Date: *NO SAMPLE*

Sample Time: _____

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: N/A

VOA Vials, No Headspace ☒ Initials: *AMS*

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

* LNARL* NO SAMPLE product th. = 0.19

Estimated Total Purge Volume: N/A mL

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 66738191-3.1 FIELD PERSONNEL: E. Chalfant T. Jones

DATE: 01/20/25 WEATHER: 35° Clear

SAMPLE ID: P68-ROX-012825 (Sample not collected)

Well Diameter): 4 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 68.76 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 46.20 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): 45.57 ft	_____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 43.76 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 25 ft	(WHICHEVER IS DEEPER): _____ ft btoc	Wellbore PID/FID Reading: 453.0 ppm
Water Column Height (not including NAPL): 22.56 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	_____ ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	_____ ft btoc

Pump Type:	Stainless Steel Submersible Pump	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Readings (<50)

[illegible]

Start Time: _____

Elapsed Time (min): _____

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: _____

Average Purge Rate (mL/min): _____

Date Calibrated: 6/28/25

Sample Date: _____ Sample Time: _____ Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): _____

Lab Analysis: VOC, SVOC, PAH

VOA Vials, No Headspace ☐ Initials: _____

QA/QC Samples: *N/A*

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

NOT sampled due to presence of LNAPL

Estimated Total Purge Volume: 0 mL

PROJECT NUMBER: 60738/91

FIELD PERSONNEL: *Tommy Jones, Ellis Chaffin*

DATE: 1/24/25

WEATHER: Sunny, 28 °C

SAMPLE ID: 2074-220X-012425

Well Diameter): 4 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 68.83 ft	_____ ft btoC	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 44.08 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	_____ ft btoC	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 43.83 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 25 ft	(WHICHEVER IS DEEPER): 49.08 ft btoC	Wellbore PID/FID Reading: 14.9 ppm
Water Column Height (not including NAPL): 24.73 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	NA ft btoC
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	_____ ft btoC

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 $\mu\text{S}/\text{cm}$

+/-0.2 mg/l

 ± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Start Time: 1130

Elapsed Time (min): 11

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 1141

Average Purge Rate (mL/min): 300

Date Calibrated: 1/24/25

Sample Date: 1/24/25

Sample Time: 1145

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: *None*

VOA Vials, No Headspace ☒ Initials: *TT*

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 7.300 mL

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 60738191 FIELD PERSONNEL: Tony Jones, Ellis Chalfant
DATE: 1/27/25 WEATHER: Sunny, 29°F

SAMPLE ID: 2093A-12ox-012725, 2093A-12ox-012725-22p

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 53.07 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 45.10 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	_____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 43.07 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHIEVER IS DEEPER): _____ ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Water Column Height (not including NAPL): 7.97 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	_____ ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	_____ ft btoc

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

$\pm 5\%$ or
 $\pm 2 \mu\text{S}/\text{cm}$

 $\pm 0.2 \text{ mg/l}$ ± 20 mV

Monitor Turb
Readings (<50)

[illegible]

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Date Calibrated: 1/27/25

Lab Analysis: VOC, SVOC, PAH

QA/QC Samples: NC 2

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 3300 mL

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 60738191 FIELD PERSONNEL: Tony Jones, Ellis Chalfant
DATE: 1/27/25 WEATHER: Sunny, 40°F

SAMPLE ID: 2933-Box-012725

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: _____ ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 76.78 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 46.50 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHIEVER IS DEEPER): _____ ft btoc	Ambient PID/FID Reading: 0, 0 ppm
Depth to LNAPL/DNAPL (btoc): _____ ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Wellbore PID/FID Reading: 0, 0 ppm
Depth to Top of Screen (btoc): 74.78 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): 75.78 ft btoc	
Screen Length: 2 ft		
Water Column Height (not including NAPL): 30.28 ft		

Pump Type:	Stainless Steel Submersible Pump	STABLE: (over 4 readings)	Monitor Temp.	+/-0.2 mg/L or +/-10%	+/-5% or +/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Monitor Turb Readings (<50)

[illegible]

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Date Calibrated: 1/27/25

VOA Vials, No Headspace ☒ Initials: TS

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 2700 mL

PROJECT NAME: Roxana 1Q25 GW PROJECT NUMBER: 60738191 FIELD PERSONNEL: Tony Jones Ellis Chalfant

MONITORING WELL ID: P-93C SAMPLE ID: P93C-Box-012725

Well Diameter: 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN: 95.38 ft btoc	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 97.88 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 36.44 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER): _____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): N/A ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT: _____ ft btoc	Wellbore PID/FID Reading: 0.2 ppm
Depth to Top of Screen (btoc): 92.88 ft	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): _____ ft btoc	
Screen Length: 5 ft		
Water Column Height (not including NAPL): 61.44 ft		

Pump Type:	<u>Stainless Steel Submersible Pump</u>	(over 4 readings)	Monitor Temp.	+/-10%	+/-2 uS/cm	+/-0.2 mg/L	+/-20 mV	Monitor Turb	Readings (<50)

[illegible]

Start Time: 0926 Elapsed Time (min): 11 Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344
Stop Time: 0937 Average Purge Rate (mL/min): 300 Date Calibrated: 1/27/25

Sample Date: 1/27/25 Sample Time: 0940 Lab Analysis: VOC, SVOC, PAH
 Sample Method: Stainless Steel Submersible Pump / Low Flow Sample Flow Rate (mL/min): 300 QA/QCSamples: None

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 3300 mL

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NUMBER: 60738191

FIELD PERSONNEL:

Tony Jones, Ellis Chaffant

WEATHER: cloudy, 30°

SAMPLE ID: 293D-Box-012325

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 127.91 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 46.80 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	_____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 125.66 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 2 ft	(WHIEVER IS DEEPER): _____ ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Water Column Height (not including NAPL): 81.11 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	_____ ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER): 136.66 ft btoc	

Pump Type: _____ **Dedicated Well Wizard**

(over 4 readings)

Monitor Temp.

+/-10%

 $\pm 2 \mu\text{S}/\text{cm}$

± 0.2 mg/L

+/-20 mV

Readings (<50)

[illegible]

Elapsed Time (min): 6

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Average Purge Rate (mL/min): 300

Date Calibrated: 1/23/25

Sample Date: 1/23/25

Sample Time: 1250

Lab Analysis: VOC, SVOC, PAH

Sample Flow Rate (mL/min): 300

QA/QC Samples: *None*VOA Vials, No Headspace ☒ Initials: TT

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 1800 mL

Tony Jones, Ellis Chalfant

WEATHER: Sunny, 14[°]F

SAMPLE ID: Rost 3MH-Rox-012025

INITIAL DATA

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 48.06 ft	NA ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): 960 mL
Depth to Water (btoc): 42.84 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: 0.0 ppm
Depth to LNAPL/DNAPL (btoc): NE ft	43.47 ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 37.81 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHIEVER IS DEEPER):	
Screen Length: 10 ft	ft btoc	
Water Column Height (not including NAPL): 5.19 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	
	ft btoc	

PURGE DATA

Monitor Turb
Readings (<50)

[illegible]

Water Quality Meter ID & SN: YSI ProDSS -- 223 027/223344

Date Calibrated: 1/20/25

SAMPLING DATA

Lab Analysis: VOC, SVOC, PAH

QA/QC Samples: *None*

VOA Vials, No Headspace ☒ Initials: TS

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 2100 mL

Tony Jones, Ellis Chaffant

WEATHER: cloudy, 15°-

SAMPLE ID: Rost+4PZC - Rox-012225

Well Diameter): 2 in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : 320* mL
Total Well Depth (btoc): 45.20 ft	_____ ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume) = 960 mL
Depth to Water (btoc): 42.71 ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	
Depth to LNAPL/DNAPL (btoc): NE ft	_____ ft btoc	Ambient PID/FID Reading: 0.0 ppm
Depth to Top of Screen (btoc): 34.95 ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER	
Screen Length: 10 ft	(WHIEVER IS DEEPER): _____ ft btoc	Wellbore PID/FID Reading: 0.0 ppm
Water Column Height (not including NAPL): 2.49 ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	_____ ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	43.71 ft btoc

Monitor Turb
Readings (<50)

[illegible]

Date Calibrated: 1/21/25

QA/QC Samples: *None*

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 4800 mL

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LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: Roxana 1Q25 GW

PROJECT NUMBER: 60738191

FIELD PERSONNEL: Tony Jones, Ellis Chalfant

DATE: 1/22/25

WEATHER: cloudy, 15°F

MONITORING WELL ID: ROST-4-PZ(G)

SAMPLE ID: Rost4PZG-Rox-012225, Rost4PZG-Rox-012225-Dup

INITIAL DATA

Well Diameter): <u>2</u> in	IF SCREEN ≤10 FT & WATER ABOVE TOP OF SCREEN – PUMP INTAKE AT MIDPOINT OF SCREEN:	Volume of Flow Through Cell : <u>320*</u> mL
Total Well Depth (btoc): <u>44.53</u> ft	ft btoc	Minimum Purge Volume = (3 x Flow Cell Volume): <u>960</u> mL
Depth to Water (btoc): <u>42.85</u> ft	IF SCREEN ≤10 FT & WATER WITHIN SCREEN – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	Ambient PID/FID Reading: <u>0.0</u> ppm
Depth to LNAPL/DNAPL (btoc): <u>NE</u> ft	ft btoc	Wellbore PID/FID Reading: <u>0.0</u> ppm
Depth to Top of Screen (btoc): <u>34.28</u> ft	IF SCREEN & WATER COLUMN >10 FT – PUMP INTAKE AT 5 FT BELOW TOP OF SCREEN OR TOP OF WATER (WHICHEVER IS DEEPER):	ft btoc
Screen Length: <u>10</u> ft	ft btoc	
Water Column Height (not including NAPL): <u>1.68</u> ft	IF SCREEN >10 FT & WATER COLUMN HEIGHT <10 FT – PUMP INTAKE AT MIDPOINT OF WATER COLUMN HEIGHT:	ft btoc
	IF SCREEN AND/OR WATER COLUMN HEIGHT <4 FT – PUMP INTAKE AT 1 FT BELOW TOP OF SCREEN OR WATER (WHICHEVER IS DEEPER):	<u>43.85</u> ft btoc

PURGE DATA

Pump Type: Stainless Steel Submersible Pump

STABLE:
(over 4 readings)

Monitor Temp.

+/-0.2 mg/L or
+/-10%

+/-5% or
+/-2 uS/cm

+/-0.2 mg/L

+/-20 mV

Monitor Turb
Readings (<50)

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Temp (°C)	DO (mg/L)	Spec. Cond.	pH	ORP (mV)	Turb (NTU)
0	1021	42.89	clear	strong	13.09	5.16	1.80 mS/cm uS/cm	7.15	27.41	68.55
2100	1028	42.91	↓	↓	15.94	0.817	1.875 mS/cm uS/cm	7.03	-48.09	77.19
2400	1029	42.91	↓	↓	15.79	0.787	1.872 mS/cm uS/cm	7.02	-49.56	77.80
2700	1030	42.91	↓	↓	15.31	0.688	1.869 mS/cm uS/cm	7.00	-55.81	76.26
5400	1039	42.91	↓	↓	16.08	1.70	1.868 mS/cm uS/cm	7.03	-64.56	39.63
5700	1040	42.91	↓	↓	14.73	0.60	1.875 mS/cm uS/cm	7.05	-77.17	11.22
6000	1041	42.91	↓	↓	14.65	0.55	1.888 mS/cm uS/cm	7.05	-78.97	9.28
6300	1042	42.91	↓	↓	15.08	0.515	1.867 mS/cm uS/cm	7.04	-81.02	7.02
6600	1043	42.91	↓	↓	15.47	0.478	1.866 mS/cm uS/cm	7.04	-83.12	5.75
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			
							mS/cm uS/cm			

Start Time: 1021

Elapsed Time (min): 22

Water Quality Meter ID & SN: YSI ProDSS -- 223027/223344

Stop Time: 1043

Average Purge Rate (mL/min): 300

Date Calibrated: 1/22/25

SAMPLING DATA

Sample Date: 1/22/25

Sample Time: 1045

Lab Analysis: VOC, SVOC, PAH

Sample Method: Stainless Steel Submersible Pump / Low Flow

Sample Flow Rate (mL/min): 300

QA/QC Samples: Dup

VOA Vials, No Headspace ☒ Initials: TJ

COMMENTS:

* Flow through cell volume calculated as: Volume = cup (410 mL) - sonde (90 mL) = 320 mL

Estimated Total Purge Volume: 6,600 mL

Appendix C

Data Review/Validation Forms and Laboratory Analytical Reports

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269539-1

Site Name: Roxana

Prepared By and Date: Andrei Niculau 2/27/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 03/14/2025

Stage 2A Validation																																																																	
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																																																												
		Pass	Fail ¹	N/A																																																													
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.																																																												
Holding Times	Analyses were performed within holding time.	X																																																															
Surrogate	Surrogate recoveries met acceptance criteria.	X																																																															
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.			X																																																													
Matrix Spike	MS recoveries met acceptance criteria.		X																																																														
<table border="1"> <thead> <tr> <th>MS/MSD ID</th><th>Parameter</th><th>Analyte</th><th>MS/MSD Recovery (%)</th><th>RPD</th><th>MS/MSD/ RPD Criteria</th></tr> </thead> <tbody> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>VOCs</td><td>Acetone</td><td>43/42</td><td>4</td><td>43-150/30</td></tr> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>VOCs</td><td>Chloroethane</td><td>49/50</td><td>3</td><td>50-150/30</td></tr> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>VOCs</td><td>2-Chloroethyl vinyl ether</td><td>0/0</td><td>NC</td><td>10-150/50</td></tr> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>SVOCs</td><td>Aniline</td><td>22/26</td><td>21</td><td>50-150/40</td></tr> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>SVOCs</td><td>Benzoic acid</td><td>18/20</td><td>16</td><td>50-150/40</td></tr> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>SVOCs</td><td>Benzyl alcohol</td><td>48/55</td><td>18</td><td>50-150/40</td></tr> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>SVOCs</td><td>Bis(2-chloroethoxy)methane</td><td>39/45</td><td>17</td><td>50-150/40</td></tr> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>SVOCs</td><td>Bis(2-chloroethyl)ether</td><td>49/56</td><td>18</td><td>50-150/40</td></tr> <tr> <td>MW16-ROX-011625 MS/MSD</td><td>SVOCs</td><td>4-Chloroaniline</td><td>37/39</td><td>8</td><td>50-150/40</td></tr> </tbody> </table>						MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria	MW16-ROX-011625 MS/MSD	VOCs	Acetone	43/42	4	43-150/30	MW16-ROX-011625 MS/MSD	VOCs	Chloroethane	49/50	3	50-150/30	MW16-ROX-011625 MS/MSD	VOCs	2-Chloroethyl vinyl ether	0/0	NC	10-150/50	MW16-ROX-011625 MS/MSD	SVOCs	Aniline	22/26	21	50-150/40	MW16-ROX-011625 MS/MSD	SVOCs	Benzoic acid	18/20	16	50-150/40	MW16-ROX-011625 MS/MSD	SVOCs	Benzyl alcohol	48/55	18	50-150/40	MW16-ROX-011625 MS/MSD	SVOCs	Bis(2-chloroethoxy)methane	39/45	17	50-150/40	MW16-ROX-011625 MS/MSD	SVOCs	Bis(2-chloroethyl)ether	49/56	18	50-150/40	MW16-ROX-011625 MS/MSD	SVOCs	4-Chloroaniline	37/39	8	50-150/40
MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria																																																												
MW16-ROX-011625 MS/MSD	VOCs	Acetone	43/42	4	43-150/30																																																												
MW16-ROX-011625 MS/MSD	VOCs	Chloroethane	49/50	3	50-150/30																																																												
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MW16-ROX-011625 MS/MSD	SVOCs	4-Chloroaniline	37/39	8	50-150/40																																																												

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation						
Item Reviewed	Acceptable Criteria		Quality Condition			Comments
			Pass	Fail ¹	N/A	
MW16-ROX-011625 MS/MSD	SVOCs	4-Chloro-3-methylphenol	49/55	15	50-150/40	
MW16-ROX-011625 MS/MSD	SVOCs	1,4-Dioxane	21/25	24	50-150/40	
MW16-ROX-011625 MS/MSD	SVOCs	Isophorone	42/47	16	50-150/40	
MW16-ROX-011625 MS/MSD	SVOCs	Nitrobenzene	39/44	16	50-150/40	
MW16-ROX-011625 MS/MSD	SVOCs	2-Nitrophenol	49/56	16	50-150/40	
MW16-ROX-011625 MS/MSD	SVOCs	N-Nitrosodimethylamine	36/37	6	50-150/40	
MW16-ROX-011625 MS/MSD	SVOCs	Phenol	36/42	19	50-150/40	
MW16-ROX-011625 MS/MSD	SVOCs	Pyridine	0/6	NC	50-150/40	
MW16-ROX-011625 MS/MSD	SVOCs	Quinoline	31/35	16	50-150/40	
Analytical data that required qualification based on MS/MSD data are referenced below. Analytical data reported as non-detect and associated with MS/MSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with MS/MSD RPD alone outside evaluation criteria did not require qualification. Method 8260D (VOCs) Professional judgement was used to qualify; however, not reject 2-chloroethyl vinyl ether due to acceptable LCS recoveries and to the acid reactive nature of 2-chloroethyl vinyl ether. Acetone, 2-chloroethyl vinyl ether, and chloroethane in sample MW16-ROX-011625 were qualified as estimated (UJ). Method 8270E (SVOCs) Professional judgment was used to qualify, however not reject, data associated with pyridine below evaluation criteria; pyridine has been identified as a poor-performing analyte under Method 8270. Aniline, benzyl alcohol, bis(2-chloroethoxy)methane, bis(2-chloroethyl)ether, 4-chloroaniline, 4-chloro-3-methylphenol, 1,4-dioxane, isophorone, nitrobenzene, 2-nitrophenol, n-nitrosodimethylamine, phenol, pyridine, and quinoline in sample MW16-ROX-011625 were qualified as estimated (UJ). Benzoic acid in associated sample MW16-ROX-011625 was qualified due to LCS/LCSD recoveries outside of evaluation criteria. No further qualification is required.						
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.			X		

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation						
Item Reviewed	Acceptable Criteria		Quality Condition			Comments
			Pass	Fail ¹	N/A	
	LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
	LCS 400-697296/2-A	SVOCs	Benzoic acid	13	NC	19-126
Analytical data that required qualification based on LCS/LCSD data are referenced below. Equipment blanks are quality control samples that do not require qualification.						
Method 8270E (SVOCs) Benzoic acid in samples MW12-ROX-011625, MW16-ROX-011625, MW3-ROX-011625, and MW5-ROX-011625 was qualified as estimated (UJ).						
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.		X			
Laboratory Blank	Target analytes were not detected in the laboratory blank.		X			
Detection Limits ²	No results were reported as non-detect at elevated detection limits.		X			Samples analyzed did not require dilution.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.		X			
Usability	No results qualified as unusable.		X			
Historical	Sample results were within 3 standard deviations from historical mean.				X	Not evaluated.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria.		X		
Analytical data reported as non-detect and associated with ICV/CCV %D recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Method 8260D (VOCs) The initial calibration verification (ICV) and continuous calibration verification (CCV) for chloroethane was outside evaluation criteria, biased low. The associated results for samples MW12-ROX-011625, MW3-ROX-011625, and MW5-ROX-011625 were qualified as estimated (UJ). Chloroethane in associated sample MW16-ROX-011625 was qualified due to MS/MSD recoveries outside of evaluation criteria. No further qualification is required. Method 8270E (SVOC) The continuous calibration verification (CCV) for bis(2-chloroethyl)ether and quinoline was outside evaluation criteria, biased low. The associated results for samples MW12-ROX-011625, MW3-ROX-011625 and MW5-ROX-011625 were qualified as estimated (UJ).					

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Bis(2-chloroethyl)ether and quinoline in associated sample MW16-ROX-011625 was qualified due to MS/MSD recoveries outside of evaluation criteria. No further qualification is required.					
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD ≤40% between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.



ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 1/28/2025 1:40:25 PM

JOB DESCRIPTION

ROXANA QUARTERLY GW

JOB NUMBER

400-269539-1

Reviewed 2/27/2025
AN

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Job Notes

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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Job Narrative 400-269539-1

Receipt

The samples were received on 1/17/2025 9:17 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 2.4° C.

GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-697286 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-697286 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for analytical batch 400-697286 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

Method 8260D: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-011625-8260-A (400-269539-1), MW12-ROX-011625-EB (400-269539-3), MW12-ROX-011625 (400-269539-4), MW16-ROX-011625 (400-269539-5), TB-ROX-011625-8260-B (400-269539-6), MW3-ROX-011625-EB (400-269539-8), MW3-ROX-011625 (400-269539-9) and MW5-ROX-011625 (400-269539-10). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-697286 recovered above the upper control limit for Hexachlorobutadiene and 4-Isopropyltoluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-697286 recovered outside acceptance criteria, low biased, for Chloroethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The initial calibration verification (ICV) analyzed in batch 400-696561 was outside method criteria for the following analyte(s): Chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

GC/MS Semi VOA

Method 8270E: The laboratory control sample (LCS) for preparation batch 400-697296 and analytical batch 400-697370 recovered outside control limits for the following analyte(s): Benzoic acid. Benzoic acid has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-697296 and analytical batch 400-697370 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-697582 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether and Quinoline. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-691822 was outside method criteria for the following analyte(s): 2-Nitrophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-691165 was outside method criteria for the following analyte(s): Aniline, 4-Chloroaniline and 3,3'-Dichlorobenzidine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Job ID: 400-269539-1 (Continued)

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

GC Semi VOA

Method 8011: The continuing calibration verification (CCV) associated with batch 400-697292 recovered above the upper control limit for 1,2-Dibromoethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269539-1	TB-ROX-011625-8260-A	Water	01/16/25 00:00	01/17/25 09:17
400-269539-2	TB-ROX-011625-8011-A	Water	01/16/25 00:00	01/17/25 09:17
400-269539-3	MW12-ROX-011625-EB	Water	01/16/25 10:00	01/17/25 09:17
400-269539-4	MW12-ROX-011625	Water	01/16/25 12:10	01/17/25 09:17
400-269539-5	MW16-ROX-011625	Water	01/16/25 13:45	01/17/25 09:17
400-269539-6	TB-ROX-011625-8260-B	Water	01/16/25 00:00	01/17/25 09:17
400-269539-7	TB-ROX-011625-8011-B	Water	01/16/25 00:00	01/17/25 09:17
400-269539-8	MW3-ROX-011625-EB	Water	01/16/25 10:30	01/17/25 09:17
400-269539-9	MW3-ROX-011625	Water	01/16/25 12:45	01/17/25 09:17
400-269539-10	MW5-ROX-011625	Water	01/16/25 13:30	01/17/25 09:17

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: TB-ROX-011625-8260-A

Lab Sample ID: 400-269539-1

No Detections.

Client Sample ID: TB-ROX-011625-8011-A

Lab Sample ID: 400-269539-2

No Detections.

Client Sample ID: MW12-ROX-011625-EB

Lab Sample ID: 400-269539-3

No Detections.

Client Sample ID: MW12-ROX-011625

Lab Sample ID: 400-269539-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	32		1.0	0.50	ug/L	1		8260D	Total/NA

Client Sample ID: MW16-ROX-011625

Lab Sample ID: 400-269539-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.6		1.0	0.50	ug/L	1		8260D	Total/NA

Client Sample ID: TB-ROX-011625-8260-B

Lab Sample ID: 400-269539-6

No Detections.

Client Sample ID: TB-ROX-011625-8011-B

Lab Sample ID: 400-269539-7

No Detections.

Client Sample ID: MW3-ROX-011625-EB

Lab Sample ID: 400-269539-8

No Detections.

Client Sample ID: MW3-ROX-011625

Lab Sample ID: 400-269539-9

No Detections.

Client Sample ID: MW5-ROX-011625

Lab Sample ID: 400-269539-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
tert-Butylbenzene	1.6		1.0	0.63	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: TB-ROX-011625-8260-A

Lab Sample ID: 400-269539-1

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/23/25 18:45	1
Acrolein	ND		20	3.3	ug/L			01/23/25 18:45	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 18:45	1
Benzene	ND		1.0	0.50	ug/L			01/23/25 18:45	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 18:45	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 18:45	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 18:45	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 18:45	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 18:45	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 18:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 18:45	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 18:45	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 18:45	1
Chloroethane	ND		1.0	0.76	ug/L			01/23/25 18:45	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/23/25 18:45	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 18:45	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 18:45	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 18:45	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 18:45	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 18:45	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 18:45	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 18:45	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 18:45	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 18:45	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 18:45	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 18:45	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 18:45	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 18:45	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 18:45	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 18:45	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 18:45	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 18:45	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 18:45	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 18:45	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 18:45	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 18:45	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 18:45	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 18:45	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 18:45	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 18:45	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 18:45	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 18:45	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 18:45	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 18:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 18:45	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 18:45	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 18:45	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 18:45	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 18:45	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: TB-ROX-011625-8260-A

Lab Sample ID: 400-269539-1

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 18:45	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 18:45	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/23/25 18:45	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 18:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 18:45	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 18:45	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 18:45	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 18:45	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 18:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 18:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 18:45	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 18:45	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 18:45	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 18:45	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 18:45	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 18:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 18:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 18:45	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 18:45	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 18:45	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		56 - 136					01/23/25 18:45	1
Dibromofluoromethane	110		79 - 130					01/23/25 18:45	1
Toluene-d8 (Surr)	96		64 - 132					01/23/25 18:45	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: TB-ROX-011625-8011-A

Lab Sample ID: 400-269539-2

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/23/25 12:53	01/23/25 18:25	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/23/25 12:53	01/23/25 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		51 - 149				01/23/25 12:53	01/23/25 18:25	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW12-ROX-011625-EB

Lab Sample ID: 400-269539-3

Date Collected: 01/16/25 10:00

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/23/25 19:07	1
Acrolein	ND		20	3.3	ug/L			01/23/25 19:07	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 19:07	1
Benzene	ND		1.0	0.50	ug/L			01/23/25 19:07	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 19:07	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 19:07	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 19:07	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 19:07	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 19:07	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 19:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 19:07	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 19:07	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 19:07	1
Chloroethane	ND		1.0	0.76	ug/L			01/23/25 19:07	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/23/25 19:07	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 19:07	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 19:07	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 19:07	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 19:07	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 19:07	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 19:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 19:07	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 19:07	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 19:07	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 19:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 19:07	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 19:07	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 19:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:07	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 19:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 19:07	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 19:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 19:07	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 19:07	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 19:07	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 19:07	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 19:07	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 19:07	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 19:07	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 19:07	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 19:07	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 19:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 19:07	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 19:07	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 19:07	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 19:07	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 19:07	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW12-ROX-011625-EB

Lab Sample ID: 400-269539-3

Date Collected: 01/16/25 10:00

Matrix: Water

Date Received: 01/17/25 09:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 19:07	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 19:07	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/23/25 19:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 19:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 19:07	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 19:07	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 19:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 19:07	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 19:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 19:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 19:07	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 19:07	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 19:07	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 19:07	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 19:07	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 19:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 19:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 19:07	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 19:07	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 19:07	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		56 - 136		01/23/25 19:07	1
Dibromofluoromethane	111		79 - 130		01/23/25 19:07	1
Toluene-d8 (Surr)	98		64 - 132		01/23/25 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.7	8.4	ug/L		01/23/25 14:37	01/27/25 16:33	1
Benzenethiol	ND		9.7	9.6	ug/L		01/23/25 14:37	01/24/25 22:56	1
Benzoic acid	ND	*	29	23	ug/L		01/23/25 14:37	01/27/25 16:33	1
Benzyl alcohol	ND		9.7	7.0	ug/L		01/23/25 14:37	01/27/25 16:33	1
Bis(2-chloroethoxy)methane	ND		9.7	4.4	ug/L		01/23/25 14:37	01/27/25 16:33	1
Bis(2-chloroethyl)ether	ND		9.7	3.8	ug/L		01/23/25 14:37	01/27/25 16:33	1
bis (2-chloroisopropyl) ether	ND		9.7	1.7	ug/L		01/23/25 14:37	01/24/25 22:56	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.6	ug/L		01/23/25 14:37	01/27/25 16:33	1
4-Bromophenyl phenyl ether	ND		9.7	8.3	ug/L		01/23/25 14:37	01/24/25 22:56	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		01/23/25 14:37	01/27/25 16:33	1
4-Chloroaniline	ND		9.7	4.5	ug/L		01/23/25 14:37	01/24/25 22:56	1
4-Chloro-3-methylphenol	ND		9.7	5.1	ug/L		01/23/25 14:37	01/27/25 16:33	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		01/23/25 14:37	01/27/25 16:33	1
2-Chlorophenol	ND		9.7	4.0	ug/L		01/23/25 14:37	01/24/25 22:56	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		01/23/25 14:37	01/24/25 22:56	1
Dibenz[a,h]acridine	ND		9.7	2.7	ug/L		01/23/25 14:37	01/27/25 16:33	1
Dibenzofuran	ND		9.7	3.9	ug/L		01/23/25 14:37	01/27/25 16:33	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/23/25 14:37	01/24/25 22:56	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		01/23/25 14:37	01/27/25 16:33	1
Diethyl phthalate	ND		9.7	4.2	ug/L		01/23/25 14:37	01/24/25 22:56	1
2,4-Dimethylphenol	ND		9.7	5.0	ug/L		01/23/25 14:37	01/24/25 22:56	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW12-ROX-011625-EB

Lab Sample ID: 400-269539-3

Date Collected: 01/16/25 10:00

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		01/23/25 14:37	01/27/25 16:33	1
Di-n-butyl phthalate	ND		9.7	4.4	ug/L		01/23/25 14:37	01/24/25 22:56	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		01/23/25 14:37	01/24/25 22:56	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/23/25 14:37	01/24/25 22:56	1
2,4-Dinitrotoluene	ND		9.7	4.9	ug/L		01/23/25 14:37	01/27/25 16:33	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		01/23/25 14:37	01/27/25 16:33	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		01/23/25 14:37	01/27/25 16:33	1
1,4-Dioxane	ND		9.7	4.2	ug/L		01/23/25 14:37	01/27/25 16:33	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		01/23/25 14:37	01/27/25 16:33	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		01/23/25 14:37	01/24/25 22:56	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/23/25 14:37	01/27/25 16:33	1
Hexachloroethane	ND		9.7	5.0	ug/L		01/23/25 14:37	01/24/25 22:56	1
Indene	ND		9.7	3.5	ug/L		01/23/25 14:37	01/24/25 22:56	1
Isophorone	ND		9.7	5.0	ug/L		01/23/25 14:37	01/27/25 16:33	1
2-Methylphenol	ND		9.7	3.1	ug/L		01/23/25 14:37	01/24/25 22:56	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/23/25 14:37	01/24/25 22:56	1
2-Nitroaniline	ND		9.7	4.8	ug/L		01/23/25 14:37	01/24/25 22:56	1
3-Nitroaniline	ND		9.7	4.5	ug/L		01/23/25 14:37	01/24/25 22:56	1
4-Nitroaniline	ND		9.7	4.0	ug/L		01/23/25 14:37	01/24/25 22:56	1
Nitrobenzene	ND		9.7	4.5	ug/L		01/23/25 14:37	01/27/25 16:33	1
2-Nitrophenol	ND		9.7	4.4	ug/L		01/23/25 14:37	01/27/25 16:33	1
4-Nitrophenol	ND		9.7	3.2	ug/L		01/23/25 14:37	01/24/25 22:56	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		01/23/25 14:37	01/24/25 22:56	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		01/23/25 14:37	01/24/25 22:56	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		01/23/25 14:37	01/27/25 16:33	1
Pentachlorophenol	ND		19	11	ug/L		01/23/25 14:37	01/24/25 22:56	1
Phenol	ND		9.7	4.1	ug/L		01/23/25 14:37	01/24/25 22:56	1
Pyridine	ND		9.7	9.7	ug/L		01/23/25 14:37	01/27/25 16:33	1
Quinoline	ND		9.7	2.3	ug/L		01/23/25 14:37	01/27/25 16:33	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		01/23/25 14:37	01/24/25 22:56	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		01/23/25 14:37	01/24/25 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		21 - 114	01/23/25 14:37	01/24/25 22:56	1
2-Fluorophenol	27		10 - 105	01/23/25 14:37	01/24/25 22:56	1
Nitrobenzene-d5	43		16 - 127	01/23/25 14:37	01/24/25 22:56	1
Phenol-d5	24		10 - 129	01/23/25 14:37	01/24/25 22:56	1
Terphenyl-d14	86		13 - 150	01/23/25 14:37	01/24/25 22:56	1
2,4,6-Tribromophenol	50		10 - 150	01/23/25 14:37	01/24/25 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/23/25 13:21	01/24/25 14:35	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/23/25 13:21	01/24/25 14:35	1
Anthracene	ND		0.20	0.072	ug/L		01/23/25 13:21	01/24/25 14:35	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 14:35	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/23/25 13:21	01/24/25 14:35	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/23/25 13:21	01/24/25 14:35	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/23/25 13:21	01/24/25 14:35	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW12-ROX-011625-EB

Lab Sample ID: 400-269539-3

Date Collected: 01/16/25 10:00

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 14:35	1
Chrysene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 14:35	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 14:35	1
Fluoranthene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 14:35	1
Fluorene	ND		0.20	0.086	ug/L		01/23/25 13:21	01/24/25 14:35	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 14:35	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/23/25 13:21	01/24/25 14:35	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/23/25 13:21	01/24/25 14:35	1
Phenanthrene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 14:35	1
Pyrene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		50 - 150	01/23/25 13:21	01/24/25 14:35	1
Nitrobenzene-d5	128		50 - 150	01/23/25 13:21	01/24/25 14:35	1
Terphenyl-d14	121		50 - 150	01/23/25 13:21	01/24/25 14:35	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.036	0.020	ug/L		01/23/25 12:53	01/23/25 18:46	1
1,2-Dibromoethane	ND		0.024	0.018	ug/L		01/23/25 12:53	01/23/25 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	67		51 - 149	01/23/25 12:53	01/23/25 18:46	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW12-ROX-011625

Lab Sample ID: 400-269539-4

Date Collected: 01/16/25 12:10

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/23/25 20:13	1
Acrolein	ND		20	3.3	ug/L			01/23/25 20:13	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 20:13	1
Benzene	32		1.0	0.50	ug/L			01/23/25 20:13	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 20:13	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 20:13	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 20:13	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 20:13	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 20:13	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 20:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 20:13	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 20:13	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 20:13	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			01/23/25 20:13	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/23/25 20:13	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 20:13	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 20:13	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 20:13	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 20:13	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 20:13	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 20:13	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 20:13	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 20:13	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 20:13	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 20:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 20:13	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 20:13	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 20:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:13	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:13	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 20:13	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 20:13	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 20:13	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 20:13	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 20:13	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 20:13	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 20:13	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 20:13	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 20:13	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 20:13	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 20:13	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 20:13	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 20:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 20:13	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 20:13	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 20:13	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 20:13	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 20:13	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW12-ROX-011625

Lab Sample ID: 400-269539-4

Date Collected: 01/16/25 12:10

Matrix: Water

Date Received: 01/17/25 09:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 20:13	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 20:13	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/23/25 20:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 20:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 20:13	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 20:13	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 20:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 20:13	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 20:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 20:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 20:13	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 20:13	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 20:13	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 20:13	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 20:13	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 20:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 20:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 20:13	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 20:13	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 20:13	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		56 - 136		01/23/25 20:13	1
Dibromofluoromethane	111		79 - 130		01/23/25 20:13	1
Toluene-d8 (Surr)	95		64 - 132		01/23/25 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.5	8.3	ug/L		01/23/25 14:37	01/27/25 16:58	1
Benzenethiol	ND		9.5	9.4	ug/L		01/23/25 14:37	01/24/25 23:20	1
Benzoic acid	ND	*- UJ	28	23	ug/L		01/23/25 14:37	01/27/25 16:58	1
Benzyl alcohol	ND		9.5	6.9	ug/L		01/23/25 14:37	01/27/25 16:58	1
Bis(2-chloroethoxy)methane	ND		9.5	4.4	ug/L		01/23/25 14:37	01/27/25 16:58	1
Bis(2-chloroethyl)ether	ND	UJ	9.5	3.7	ug/L		01/23/25 14:37	01/27/25 16:58	1
bis (2-chloroisopropyl) ether	ND		9.5	1.7	ug/L		01/23/25 14:37	01/24/25 23:20	1
Bis(2-ethylhexyl) phthalate	ND		9.5	8.4	ug/L		01/23/25 14:37	01/27/25 16:58	1
4-Bromophenyl phenyl ether	ND		9.5	8.2	ug/L		01/23/25 14:37	01/24/25 23:20	1
Butyl benzyl phthalate	ND		9.5	5.5	ug/L		01/23/25 14:37	01/27/25 16:58	1
4-Chloroaniline	ND		9.5	4.5	ug/L		01/23/25 14:37	01/24/25 23:20	1
4-Chloro-3-methylphenol	ND		9.5	5.0	ug/L		01/23/25 14:37	01/27/25 16:58	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		01/23/25 14:37	01/27/25 16:58	1
2-Chlorophenol	ND		9.5	3.9	ug/L		01/23/25 14:37	01/24/25 23:20	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		01/23/25 14:37	01/24/25 23:20	1
Dibenz[a,h]acridine	ND		9.5	2.7	ug/L		01/23/25 14:37	01/27/25 16:58	1
Dibenzofuran	ND		9.5	3.8	ug/L		01/23/25 14:37	01/27/25 16:58	1
3,3'-Dichlorobenzidine	ND		10	10	ug/L		01/23/25 14:37	01/24/25 23:20	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		01/23/25 14:37	01/27/25 16:58	1
Diethyl phthalate	ND		9.5	4.2	ug/L		01/23/25 14:37	01/24/25 23:20	1
2,4-Dimethylphenol	ND		9.5	4.9	ug/L		01/23/25 14:37	01/24/25 23:20	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW12-ROX-011625

Lab Sample ID: 400-269539-4

Date Collected: 01/16/25 12:10

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.5	4.0	ug/L		01/23/25 14:37	01/27/25 16:58	1
Di-n-butyl phthalate	ND		9.5	4.4	ug/L		01/23/25 14:37	01/24/25 23:20	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		01/23/25 14:37	01/24/25 23:20	1
2,4-Dinitrophenol	ND		28	4.4	ug/L		01/23/25 14:37	01/24/25 23:20	1
2,4-Dinitrotoluene	ND		9.5	4.8	ug/L		01/23/25 14:37	01/27/25 16:58	1
2,6-Dinitrotoluene	ND		9.5	3.7	ug/L		01/23/25 14:37	01/27/25 16:58	1
Di-n-octyl phthalate	ND		9.5	5.7	ug/L		01/23/25 14:37	01/27/25 16:58	1
1,4-Dioxane	ND		9.5	4.1	ug/L		01/23/25 14:37	01/27/25 16:58	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		01/23/25 14:37	01/27/25 16:58	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		01/23/25 14:37	01/24/25 23:20	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/23/25 14:37	01/27/25 16:58	1
Hexachloroethane	ND		9.5	4.9	ug/L		01/23/25 14:37	01/24/25 23:20	1
Indene	ND		9.5	3.4	ug/L		01/23/25 14:37	01/24/25 23:20	1
Isophorone	ND		9.5	4.9	ug/L		01/23/25 14:37	01/27/25 16:58	1
2-Methylphenol	ND		9.5	3.0	ug/L		01/23/25 14:37	01/24/25 23:20	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/23/25 14:37	01/24/25 23:20	1
2-Nitroaniline	ND		9.5	4.7	ug/L		01/23/25 14:37	01/24/25 23:20	1
3-Nitroaniline	ND		9.5	4.5	ug/L		01/23/25 14:37	01/24/25 23:20	1
4-Nitroaniline	ND		9.5	3.9	ug/L		01/23/25 14:37	01/24/25 23:20	1
Nitrobenzene	ND		9.5	4.5	ug/L		01/23/25 14:37	01/27/25 16:58	1
2-Nitrophenol	ND		9.5	4.4	ug/L		01/23/25 14:37	01/27/25 16:58	1
4-Nitrophenol	ND		9.5	3.1	ug/L		01/23/25 14:37	01/24/25 23:20	1
N-Nitrosodimethylamine	ND		9.5	2.1	ug/L		01/23/25 14:37	01/24/25 23:20	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		01/23/25 14:37	01/24/25 23:20	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		01/23/25 14:37	01/27/25 16:58	1
Pentachlorophenol	ND		19	11	ug/L		01/23/25 14:37	01/24/25 23:20	1
Phenol	ND		9.5	4.0	ug/L		01/23/25 14:37	01/24/25 23:20	1
Pyridine	ND		9.5	9.5	ug/L		01/23/25 14:37	01/27/25 16:58	1
Quinoline	ND	UJ	9.5	2.3	ug/L		01/23/25 14:37	01/27/25 16:58	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		01/23/25 14:37	01/24/25 23:20	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		01/23/25 14:37	01/24/25 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		21 - 114	01/23/25 14:37	01/24/25 23:20	1
2-Fluorophenol	28		10 - 105	01/23/25 14:37	01/24/25 23:20	1
Nitrobenzene-d5	52		16 - 127	01/23/25 14:37	01/24/25 23:20	1
Phenol-d5	25		10 - 129	01/23/25 14:37	01/24/25 23:20	1
Terphenyl-d14	81		13 - 150	01/23/25 14:37	01/24/25 23:20	1
2,4,6-Tribromophenol	47		10 - 150	01/23/25 14:37	01/24/25 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.085	ug/L		01/23/25 13:21	01/24/25 15:06	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/23/25 13:21	01/24/25 15:06	1
Anthracene	ND		0.20	0.073	ug/L		01/23/25 13:21	01/24/25 15:06	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 15:06	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/23/25 13:21	01/24/25 15:06	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/23/25 13:21	01/24/25 15:06	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/23/25 13:21	01/24/25 15:06	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW12-ROX-011625

Lab Sample ID: 400-269539-4

Date Collected: 01/16/25 12:10

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 15:06	1
Chrysene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 15:06	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 15:06	1
Fluoranthene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 15:06	1
Fluorene	ND		0.20	0.087	ug/L		01/23/25 13:21	01/24/25 15:06	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 15:06	1
1-Methylnaphthalene	ND		0.20	0.066	ug/L		01/23/25 13:21	01/24/25 15:06	1
2-Methylnaphthalene	ND		0.20	0.077	ug/L		01/23/25 13:21	01/24/25 15:06	1
Phenanthrene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 15:06	1
Pyrene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		50 - 150	01/23/25 13:21	01/24/25 15:06	1
Nitrobenzene-d5	120		50 - 150	01/23/25 13:21	01/24/25 15:06	1
Terphenyl-d14	119		50 - 150	01/23/25 13:21	01/24/25 15:06	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/23/25 12:53	01/23/25 19:27	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/23/25 12:53	01/23/25 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		51 - 149	01/23/25 12:53	01/23/25 19:27	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW16-ROX-011625

Lab Sample ID: 400-269539-5

Date Collected: 01/16/25 13:45

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	F1 UJ	25	10	ug/L			01/23/25 15:49	1
Acrolein	ND		20	3.3	ug/L			01/23/25 15:49	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 15:49	1
Benzene	7.6		1.0	0.50	ug/L			01/23/25 15:49	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 15:49	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 15:49	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 15:49	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 15:49	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 15:49	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 15:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 15:49	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 15:49	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 15:49	1
Chloroethane	ND	F1 UJ	1.0	0.76	ug/L			01/23/25 15:49	1
2-Chloroethyl vinyl ether	ND	F1 UJ	5.0	2.0	ug/L			01/23/25 15:49	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 15:49	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 15:49	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 15:49	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 15:49	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 15:49	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 15:49	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 15:49	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 15:49	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 15:49	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 15:49	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 15:49	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 15:49	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 15:49	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 15:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 15:49	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 15:49	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 15:49	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 15:49	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 15:49	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 15:49	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 15:49	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 15:49	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 15:49	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 15:49	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 15:49	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 15:49	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 15:49	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 15:49	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 15:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 15:49	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 15:49	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 15:49	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 15:49	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 15:49	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW16-ROX-011625

Lab Sample ID: 400-269539-5

Date Collected: 01/16/25 13:45

Matrix: Water

Date Received: 01/17/25 09:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 15:49	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 15:49	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/23/25 15:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 15:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 15:49	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 15:49	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 15:49	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 15:49	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 15:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 15:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 15:49	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 15:49	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 15:49	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 15:49	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 15:49	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 15:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 15:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 15:49	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 15:49	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 15:49	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		56 - 136		01/23/25 15:49	1
Dibromofluoromethane	109		79 - 130		01/23/25 15:49	1
Toluene-d8 (Surr)	95		64 - 132		01/23/25 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	F1 UJ	9.6	8.4	ug/L		01/23/25 14:37	01/27/25 17:23	1
Benzenethiol	ND		9.6	9.5	ug/L		01/23/25 14:37	01/24/25 22:32	1
Benzoic acid	ND	*- F1 UJ	29	23	ug/L		01/23/25 14:37	01/27/25 17:23	1
Benzyl alcohol	ND	F1 UJ	9.6	7.0	ug/L		01/23/25 14:37	01/27/25 17:23	1
Bis(2-chloroethoxy)methane	ND	F1 UJ	9.6	4.4	ug/L		01/23/25 14:37	01/27/25 17:23	1
Bis(2-chloroethyl)ether	ND	F1 UJ	9.6	3.8	ug/L		01/23/25 14:37	01/27/25 17:23	1
bis (2-chloroisopropyl) ether	ND		9.6	1.7	ug/L		01/23/25 14:37	01/24/25 22:32	1
Bis(2-ethylhexyl) phthalate	ND		9.6	8.6	ug/L		01/23/25 14:37	01/27/25 17:23	1
4-Bromophenyl phenyl ether	ND		9.6	8.3	ug/L		01/23/25 14:37	01/24/25 22:32	1
Butyl benzyl phthalate	ND		9.6	5.6	ug/L		01/23/25 14:37	01/27/25 17:23	1
4-Chloroaniline	ND	UJ	9.6	4.5	ug/L		01/23/25 14:37	01/24/25 22:32	1
4-Chloro-3-methylphenol	ND	F1 UJ	9.6	5.1	ug/L		01/23/25 14:37	01/27/25 17:23	1
2-Chloronaphthalene	ND		9.6	3.7	ug/L		01/23/25 14:37	01/27/25 17:23	1
2-Chlorophenol	ND		9.6	3.9	ug/L		01/23/25 14:37	01/24/25 22:32	1
4-Chlorophenyl phenyl ether	ND		9.6	3.6	ug/L		01/23/25 14:37	01/24/25 22:32	1
Dibenz[a,h]acridine	ND		9.6	2.7	ug/L		01/23/25 14:37	01/27/25 17:23	1
Dibenzofuran	ND		9.6	3.8	ug/L		01/23/25 14:37	01/27/25 17:23	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/23/25 14:37	01/24/25 22:32	1
2,4-Dichlorophenol	ND		9.6	4.1	ug/L		01/23/25 14:37	01/27/25 17:23	1
Diethyl phthalate	ND		9.6	4.2	ug/L		01/23/25 14:37	01/24/25 22:32	1
2,4-Dimethylphenol	ND		9.6	5.0	ug/L		01/23/25 14:37	01/24/25 22:32	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW16-ROX-011625

Lab Sample ID: 400-269539-5

Date Collected: 01/16/25 13:45

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.6	4.0	ug/L		01/23/25 14:37	01/27/25 17:23	1
Di-n-butyl phthalate	ND		9.6	4.4	ug/L		01/23/25 14:37	01/24/25 22:32	1
4,6-Dinitro-ortho-cresol	ND		9.6	9.6	ug/L		01/23/25 14:37	01/24/25 22:32	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/23/25 14:37	01/24/25 22:32	1
2,4-Dinitrotoluene	ND		9.6	4.9	ug/L		01/23/25 14:37	01/27/25 17:23	1
2,6-Dinitrotoluene	ND		9.6	3.8	ug/L		01/23/25 14:37	01/27/25 17:23	1
Di-n-octyl phthalate	ND		9.6	5.8	ug/L		01/23/25 14:37	01/27/25 17:23	1
1,4-Dioxane	ND	F1 UJ	9.6	4.1	ug/L		01/23/25 14:37	01/27/25 17:23	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	3.2	ug/L		01/23/25 14:37	01/27/25 17:23	1
Hexachlorobenzene	ND		9.6	9.3	ug/L		01/23/25 14:37	01/24/25 22:32	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/23/25 14:37	01/27/25 17:23	1
Hexachloroethane	ND		9.6	5.0	ug/L		01/23/25 14:37	01/24/25 22:32	1
Indene	ND		9.6	3.5	ug/L		01/23/25 14:37	01/24/25 22:32	1
Isophorone	ND	F1 UJ	9.6	5.0	ug/L		01/23/25 14:37	01/27/25 17:23	1
2-Methylphenol	ND		9.6	3.1	ug/L		01/23/25 14:37	01/24/25 22:32	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/23/25 14:37	01/24/25 22:32	1
2-Nitroaniline	ND		9.6	4.8	ug/L		01/23/25 14:37	01/24/25 22:32	1
3-Nitroaniline	ND		9.6	4.5	ug/L		01/23/25 14:37	01/24/25 22:32	1
4-Nitroaniline	ND		9.6	3.9	ug/L		01/23/25 14:37	01/24/25 22:32	1
Nitrobenzene	ND	F1 UJ	9.6	4.5	ug/L		01/23/25 14:37	01/27/25 17:23	1
2-Nitrophenol	ND	F1 UJ	9.6	4.4	ug/L		01/23/25 14:37	01/27/25 17:23	1
4-Nitrophenol	ND		9.6	3.2	ug/L		01/23/25 14:37	01/24/25 22:32	1
N-Nitrosodimethylamine	ND	UJ	9.6	2.1	ug/L		01/23/25 14:37	01/24/25 22:32	1
N-Nitrosodi-n-propylamine	ND		9.6	2.4	ug/L		01/23/25 14:37	01/24/25 22:32	1
N-Nitrosodiphenylamine	ND		9.6	3.6	ug/L		01/23/25 14:37	01/27/25 17:23	1
Pentachlorophenol	ND		19	11	ug/L		01/23/25 14:37	01/24/25 22:32	1
Phenol	ND	UJ	9.6	4.0	ug/L		01/23/25 14:37	01/24/25 22:32	1
Pyridine	ND	F1 UJ	9.6	9.6	ug/L		01/23/25 14:37	01/27/25 17:23	1
Quinoline	ND	F1 UJ	9.6	2.3	ug/L		01/23/25 14:37	01/27/25 17:23	1
2,4,5-Trichlorophenol	ND		9.6	3.8	ug/L		01/23/25 14:37	01/24/25 22:32	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		01/23/25 14:37	01/24/25 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		21 - 114	01/23/25 14:37	01/24/25 22:32	1
2-Fluorophenol	33		10 - 105	01/23/25 14:37	01/24/25 22:32	1
Nitrobenzene-d5	53		16 - 127	01/23/25 14:37	01/24/25 22:32	1
Phenol-d5	27		10 - 129	01/23/25 14:37	01/24/25 22:32	1
Terphenyl-d14	85		13 - 150	01/23/25 14:37	01/24/25 22:32	1
2,4,6-Tribromophenol	51		10 - 150	01/23/25 14:37	01/24/25 22:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/23/25 13:21	01/24/25 15:36	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/23/25 13:21	01/24/25 15:36	1
Anthracene	ND		0.20	0.073	ug/L		01/23/25 13:21	01/24/25 15:36	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 15:36	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/23/25 13:21	01/24/25 15:36	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/23/25 13:21	01/24/25 15:36	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/23/25 13:21	01/24/25 15:36	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW16-ROX-011625

Lab Sample ID: 400-269539-5

Date Collected: 01/16/25 13:45

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 15:36	1
Chrysene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 15:36	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 15:36	1
Fluoranthene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 15:36	1
Fluorene	ND		0.20	0.086	ug/L		01/23/25 13:21	01/24/25 15:36	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 15:36	1
1-Methylnaphthalene	ND		0.20	0.066	ug/L		01/23/25 13:21	01/24/25 15:36	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/23/25 13:21	01/24/25 15:36	1
Phenanthrene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 15:36	1
Pyrene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	112		50 - 150	01/23/25 13:21	01/24/25 15:36	1
Nitrobenzene-d5	121		50 - 150	01/23/25 13:21	01/24/25 15:36	1
Terphenyl-d14	120		50 - 150	01/23/25 13:21	01/24/25 15:36	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/23/25 12:53	01/23/25 19:48	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/23/25 12:53	01/23/25 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	80		51 - 149	01/23/25 12:53	01/23/25 19:48	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: TB-ROX-011625-8260-B

Lab Sample ID: 400-269539-6

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/23/25 19:29	1
Acrolein	ND		20	3.3	ug/L			01/23/25 19:29	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 19:29	1
Benzene	ND		1.0	0.50	ug/L			01/23/25 19:29	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 19:29	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 19:29	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 19:29	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 19:29	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 19:29	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 19:29	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 19:29	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 19:29	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 19:29	1
Chloroethane	ND		1.0	0.76	ug/L			01/23/25 19:29	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/23/25 19:29	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 19:29	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 19:29	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 19:29	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 19:29	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 19:29	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 19:29	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 19:29	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 19:29	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 19:29	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 19:29	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 19:29	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 19:29	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 19:29	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:29	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:29	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:29	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 19:29	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 19:29	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 19:29	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 19:29	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 19:29	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 19:29	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 19:29	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 19:29	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 19:29	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 19:29	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 19:29	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 19:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 19:29	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 19:29	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 19:29	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 19:29	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 19:29	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: TB-ROX-011625-8260-B

Lab Sample ID: 400-269539-6

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 19:29	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 19:29	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/23/25 19:29	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 19:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 19:29	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 19:29	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 19:29	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 19:29	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 19:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 19:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 19:29	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 19:29	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 19:29	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 19:29	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 19:29	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 19:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 19:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 19:29	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 19:29	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 19:29	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		56 - 136					01/23/25 19:29	1
Dibromofluoromethane	110		79 - 130					01/23/25 19:29	1
Toluene-d8 (Surr)	96		64 - 132					01/23/25 19:29	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: TB-ROX-011625-8011-B

Lab Sample ID: 400-269539-7

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/23/25 12:53	01/23/25 20:49	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/23/25 12:53	01/23/25 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	75		51 - 149				01/23/25 12:53	01/23/25 20:49	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625-EB

Lab Sample ID: 400-269539-8

Date Collected: 01/16/25 10:30

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/23/25 19:51	1
Acrolein	ND		20	3.3	ug/L			01/23/25 19:51	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 19:51	1
Benzene	ND		1.0	0.50	ug/L			01/23/25 19:51	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 19:51	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 19:51	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 19:51	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 19:51	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 19:51	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 19:51	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 19:51	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 19:51	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 19:51	1
Chloroethane	ND		1.0	0.76	ug/L			01/23/25 19:51	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/23/25 19:51	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 19:51	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 19:51	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 19:51	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 19:51	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 19:51	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 19:51	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 19:51	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 19:51	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 19:51	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 19:51	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 19:51	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 19:51	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 19:51	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:51	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:51	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 19:51	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 19:51	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 19:51	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 19:51	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 19:51	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 19:51	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 19:51	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 19:51	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 19:51	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 19:51	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 19:51	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 19:51	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 19:51	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 19:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 19:51	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 19:51	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 19:51	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 19:51	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 19:51	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625-EB

Lab Sample ID: 400-269539-8

Date Collected: 01/16/25 10:30

Matrix: Water

Date Received: 01/17/25 09:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 19:51	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 19:51	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/23/25 19:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 19:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 19:51	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 19:51	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 19:51	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 19:51	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 19:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 19:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 19:51	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 19:51	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 19:51	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 19:51	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 19:51	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 19:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 19:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 19:51	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 19:51	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 19:51	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		56 - 136		01/23/25 19:51	1
Dibromofluoromethane	111		79 - 130		01/23/25 19:51	1
Toluene-d8 (Surr)	96		64 - 132		01/23/25 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.2	8.0	ug/L		01/23/25 14:37	01/27/25 17:48	1
Benzenethiol	ND		9.2	9.1	ug/L		01/23/25 14:37	01/24/25 23:44	1
Benzoic acid	ND	*	28	22	ug/L		01/23/25 14:37	01/27/25 17:48	1
Benzyl alcohol	ND		9.2	6.7	ug/L		01/23/25 14:37	01/27/25 17:48	1
Bis(2-chloroethoxy)methane	ND		9.2	4.2	ug/L		01/23/25 14:37	01/27/25 17:48	1
Bis(2-chloroethyl)ether	ND		9.2	3.6	ug/L		01/23/25 14:37	01/27/25 17:48	1
bis (2-chloroisopropyl) ether	ND		9.2	1.7	ug/L		01/23/25 14:37	01/24/25 23:44	1
Bis(2-ethylhexyl) phthalate	ND		9.2	8.2	ug/L		01/23/25 14:37	01/27/25 17:48	1
4-Bromophenyl phenyl ether	ND		9.2	7.9	ug/L		01/23/25 14:37	01/24/25 23:44	1
Butyl benzyl phthalate	ND		9.2	5.3	ug/L		01/23/25 14:37	01/27/25 17:48	1
4-Chloroaniline	ND		9.2	4.3	ug/L		01/23/25 14:37	01/24/25 23:44	1
4-Chloro-3-methylphenol	ND		9.2	4.9	ug/L		01/23/25 14:37	01/27/25 17:48	1
2-Chloronaphthalene	ND		9.2	3.5	ug/L		01/23/25 14:37	01/27/25 17:48	1
2-Chlorophenol	ND		9.2	3.8	ug/L		01/23/25 14:37	01/24/25 23:44	1
4-Chlorophenyl phenyl ether	ND		9.2	3.4	ug/L		01/23/25 14:37	01/24/25 23:44	1
Dibenz[a,h]acridine	ND		9.2	2.6	ug/L		01/23/25 14:37	01/27/25 17:48	1
Dibenzofuran	ND		9.2	3.7	ug/L		01/23/25 14:37	01/27/25 17:48	1
3,3'-Dichlorobenzidine	ND		10	10	ug/L		01/23/25 14:37	01/24/25 23:44	1
2,4-Dichlorophenol	ND		9.2	4.0	ug/L		01/23/25 14:37	01/27/25 17:48	1
Diethyl phthalate	ND		9.2	4.1	ug/L		01/23/25 14:37	01/24/25 23:44	1
2,4-Dimethylphenol	ND		9.2	4.8	ug/L		01/23/25 14:37	01/24/25 23:44	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625-EB

Lab Sample ID: 400-269539-8

Date Collected: 01/16/25 10:30

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.2	3.9	ug/L		01/23/25 14:37	01/27/25 17:48	1
Di-n-butyl phthalate	ND		9.2	4.2	ug/L		01/23/25 14:37	01/24/25 23:44	1
4,6-Dinitro-ortho-cresol	ND		9.2	9.2	ug/L		01/23/25 14:37	01/24/25 23:44	1
2,4-Dinitrophenol	ND		28	4.2	ug/L		01/23/25 14:37	01/24/25 23:44	1
2,4-Dinitrotoluene	ND		9.2	4.7	ug/L		01/23/25 14:37	01/27/25 17:48	1
2,6-Dinitrotoluene	ND		9.2	3.6	ug/L		01/23/25 14:37	01/27/25 17:48	1
Di-n-octyl phthalate	ND		9.2	5.5	ug/L		01/23/25 14:37	01/27/25 17:48	1
1,4-Dioxane	ND		9.2	4.0	ug/L		01/23/25 14:37	01/27/25 17:48	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.2	3.0	ug/L		01/23/25 14:37	01/27/25 17:48	1
Hexachlorobenzene	ND		9.2	8.9	ug/L		01/23/25 14:37	01/24/25 23:44	1
Hexachlorocyclopentadiene	ND		18	4.1	ug/L		01/23/25 14:37	01/27/25 17:48	1
Hexachloroethane	ND		9.2	4.8	ug/L		01/23/25 14:37	01/24/25 23:44	1
Indene	ND		9.2	3.3	ug/L		01/23/25 14:37	01/24/25 23:44	1
Isophorone	ND		9.2	4.8	ug/L		01/23/25 14:37	01/27/25 17:48	1
2-Methylphenol	ND		9.2	2.9	ug/L		01/23/25 14:37	01/24/25 23:44	1
3 & 4 Methylphenol	ND		18	4.2	ug/L		01/23/25 14:37	01/24/25 23:44	1
2-Nitroaniline	ND		9.2	4.6	ug/L		01/23/25 14:37	01/24/25 23:44	1
3-Nitroaniline	ND		9.2	4.3	ug/L		01/23/25 14:37	01/24/25 23:44	1
4-Nitroaniline	ND		9.2	3.8	ug/L		01/23/25 14:37	01/24/25 23:44	1
Nitrobenzene	ND		9.2	4.3	ug/L		01/23/25 14:37	01/27/25 17:48	1
2-Nitrophenol	ND		9.2	4.2	ug/L		01/23/25 14:37	01/27/25 17:48	1
4-Nitrophenol	ND		9.2	3.0	ug/L		01/23/25 14:37	01/24/25 23:44	1
N-Nitrosodimethylamine	ND		9.2	2.0	ug/L		01/23/25 14:37	01/24/25 23:44	1
N-Nitrosodi-n-propylamine	ND		9.2	2.3	ug/L		01/23/25 14:37	01/24/25 23:44	1
N-Nitrosodiphenylamine	ND		9.2	3.4	ug/L		01/23/25 14:37	01/27/25 17:48	1
Pentachlorophenol	ND		18	11	ug/L		01/23/25 14:37	01/24/25 23:44	1
Phenol	ND		9.2	3.9	ug/L		01/23/25 14:37	01/24/25 23:44	1
Pyridine	ND		9.2	9.2	ug/L		01/23/25 14:37	01/27/25 17:48	1
Quinoline	ND		9.2	2.2	ug/L		01/23/25 14:37	01/27/25 17:48	1
2,4,5-Trichlorophenol	ND		9.2	3.7	ug/L		01/23/25 14:37	01/24/25 23:44	1
2,4,6-Trichlorophenol	ND		9.2	3.2	ug/L		01/23/25 14:37	01/24/25 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		21 - 114	01/23/25 14:37	01/24/25 23:44	1
2-Fluorophenol	31		10 - 105	01/23/25 14:37	01/24/25 23:44	1
Nitrobenzene-d5	52		16 - 127	01/23/25 14:37	01/24/25 23:44	1
Phenol-d5	26		10 - 129	01/23/25 14:37	01/24/25 23:44	1
Terphenyl-d14	82		13 - 150	01/23/25 14:37	01/24/25 23:44	1
2,4,6-Tribromophenol	49		10 - 150	01/23/25 14:37	01/24/25 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/23/25 13:21	01/24/25 17:06	1
Acenaphthylene	ND		0.20	0.046	ug/L		01/23/25 13:21	01/24/25 17:06	1
Anthracene	ND		0.20	0.072	ug/L		01/23/25 13:21	01/24/25 17:06	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 17:06	1
Benzo[a]pyrene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 17:06	1
Benzo[b]fluoranthene	ND		0.20	0.041	ug/L		01/23/25 13:21	01/24/25 17:06	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/23/25 13:21	01/24/25 17:06	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625-EB

Lab Sample ID: 400-269539-8

Date Collected: 01/16/25 10:30

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 17:06	1
Chrysene	ND		0.20	0.038	ug/L		01/23/25 13:21	01/24/25 17:06	1
Dibenz(a,h)anthracene	ND		0.20	0.043	ug/L		01/23/25 13:21	01/24/25 17:06	1
Fluoranthene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 17:06	1
Fluorene	ND		0.20	0.086	ug/L		01/23/25 13:21	01/24/25 17:06	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 17:06	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/23/25 13:21	01/24/25 17:06	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/23/25 13:21	01/24/25 17:06	1
Phenanthrene	ND		0.20	0.043	ug/L		01/23/25 13:21	01/24/25 17:06	1
Pyrene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		50 - 150	01/23/25 13:21	01/24/25 17:06	1
Nitrobenzene-d5	115		50 - 150	01/23/25 13:21	01/24/25 17:06	1
Terphenyl-d14	115		50 - 150	01/23/25 13:21	01/24/25 17:06	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/23/25 12:53	01/23/25 21:10	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/23/25 12:53	01/23/25 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	66		51 - 149	01/23/25 12:53	01/23/25 21:10	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625

Lab Sample ID: 400-269539-9

Date Collected: 01/16/25 12:45

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/23/25 20:35	1
Acrolein	ND		20	3.3	ug/L			01/23/25 20:35	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 20:35	1
Benzene	ND		1.0	0.50	ug/L			01/23/25 20:35	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 20:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 20:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 20:35	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 20:35	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 20:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 20:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 20:35	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 20:35	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 20:35	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			01/23/25 20:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/23/25 20:35	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 20:35	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 20:35	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 20:35	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 20:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 20:35	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 20:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 20:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 20:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 20:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 20:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 20:35	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 20:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 20:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:35	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 20:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 20:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 20:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 20:35	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 20:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 20:35	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 20:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 20:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 20:35	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 20:35	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 20:35	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 20:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 20:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 20:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 20:35	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 20:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 20:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 20:35	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625

Lab Sample ID: 400-269539-9

Date Collected: 01/16/25 12:45

Matrix: Water

Date Received: 01/17/25 09:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 20:35	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 20:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/23/25 20:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 20:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 20:35	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 20:35	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 20:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 20:35	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 20:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 20:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 20:35	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 20:35	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 20:35	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 20:35	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 20:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 20:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 20:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 20:35	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 20:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 20:35	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		56 - 136		01/23/25 20:35	1
Dibromofluoromethane	105		79 - 130		01/23/25 20:35	1
Toluene-d8 (Surr)	94		64 - 132		01/23/25 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.7	8.4	ug/L		01/23/25 14:37	01/27/25 18:38	1
Benzenethiol	ND		9.7	9.6	ug/L		01/23/25 14:37	01/25/25 00:08	1
Benzoic acid	ND	*- UJ	29	23	ug/L		01/23/25 14:37	01/27/25 18:38	1
Benzyl alcohol	ND		9.7	7.0	ug/L		01/23/25 14:37	01/27/25 18:38	1
Bis(2-chloroethoxy)methane	ND		9.7	4.4	ug/L		01/23/25 14:37	01/27/25 18:38	1
Bis(2-chloroethyl)ether	ND	UJ	9.7	3.8	ug/L		01/23/25 14:37	01/27/25 18:38	1
bis (2-chloroisopropyl) ether	ND		9.7	1.7	ug/L		01/23/25 14:37	01/25/25 00:08	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.6	ug/L		01/23/25 14:37	01/27/25 18:38	1
4-Bromophenyl phenyl ether	ND		9.7	8.3	ug/L		01/23/25 14:37	01/25/25 00:08	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		01/23/25 14:37	01/27/25 18:38	1
4-Chloroaniline	ND		9.7	4.5	ug/L		01/23/25 14:37	01/25/25 00:08	1
4-Chloro-3-methylphenol	ND		9.7	5.1	ug/L		01/23/25 14:37	01/27/25 18:38	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		01/23/25 14:37	01/27/25 18:38	1
2-Chlorophenol	ND		9.7	4.0	ug/L		01/23/25 14:37	01/25/25 00:08	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		01/23/25 14:37	01/25/25 00:08	1
Dibenz[a,h]acridine	ND		9.7	2.7	ug/L		01/23/25 14:37	01/27/25 18:38	1
Dibenzofuran	ND		9.7	3.9	ug/L		01/23/25 14:37	01/27/25 18:38	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/23/25 14:37	01/25/25 00:08	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		01/23/25 14:37	01/27/25 18:38	1
Diethyl phthalate	ND		9.7	4.2	ug/L		01/23/25 14:37	01/25/25 00:08	1
2,4-Dimethylphenol	ND		9.7	5.0	ug/L		01/23/25 14:37	01/25/25 00:08	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625

Lab Sample ID: 400-269539-9

Date Collected: 01/16/25 12:45

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		01/23/25 14:37	01/27/25 18:38	1
Di-n-butyl phthalate	ND		9.7	4.4	ug/L		01/23/25 14:37	01/25/25 00:08	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		01/23/25 14:37	01/25/25 00:08	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/23/25 14:37	01/25/25 00:08	1
2,4-Dinitrotoluene	ND		9.7	4.9	ug/L		01/23/25 14:37	01/27/25 18:38	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		01/23/25 14:37	01/27/25 18:38	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		01/23/25 14:37	01/27/25 18:38	1
1,4-Dioxane	ND		9.7	4.2	ug/L		01/23/25 14:37	01/27/25 18:38	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		01/23/25 14:37	01/27/25 18:38	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		01/23/25 14:37	01/25/25 00:08	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/23/25 14:37	01/27/25 18:38	1
Hexachloroethane	ND		9.7	5.0	ug/L		01/23/25 14:37	01/25/25 00:08	1
Indene	ND		9.7	3.5	ug/L		01/23/25 14:37	01/25/25 00:08	1
Isophorone	ND		9.7	5.0	ug/L		01/23/25 14:37	01/27/25 18:38	1
2-Methylphenol	ND		9.7	3.1	ug/L		01/23/25 14:37	01/25/25 00:08	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/23/25 14:37	01/25/25 00:08	1
2-Nitroaniline	ND		9.7	4.8	ug/L		01/23/25 14:37	01/25/25 00:08	1
3-Nitroaniline	ND		9.7	4.5	ug/L		01/23/25 14:37	01/25/25 00:08	1
4-Nitroaniline	ND		9.7	4.0	ug/L		01/23/25 14:37	01/25/25 00:08	1
Nitrobenzene	ND		9.7	4.5	ug/L		01/23/25 14:37	01/27/25 18:38	1
2-Nitrophenol	ND		9.7	4.4	ug/L		01/23/25 14:37	01/27/25 18:38	1
4-Nitrophenol	ND		9.7	3.2	ug/L		01/23/25 14:37	01/25/25 00:08	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		01/23/25 14:37	01/25/25 00:08	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		01/23/25 14:37	01/25/25 00:08	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		01/23/25 14:37	01/27/25 18:38	1
Pentachlorophenol	ND		19	11	ug/L		01/23/25 14:37	01/25/25 00:08	1
Phenol	ND		9.7	4.1	ug/L		01/23/25 14:37	01/25/25 00:08	1
Pyridine	ND		9.7	9.7	ug/L		01/23/25 14:37	01/27/25 18:38	1
Quinoline	ND	UJ	9.7	2.3	ug/L		01/23/25 14:37	01/27/25 18:38	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		01/23/25 14:37	01/25/25 00:08	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		01/23/25 14:37	01/25/25 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		21 - 114	01/23/25 14:37	01/25/25 00:08	1
2-Fluorophenol	28		10 - 105	01/23/25 14:37	01/25/25 00:08	1
Nitrobenzene-d5	47		16 - 127	01/23/25 14:37	01/25/25 00:08	1
Phenol-d5	24		10 - 129	01/23/25 14:37	01/25/25 00:08	1
Terphenyl-d14	74		13 - 150	01/23/25 14:37	01/25/25 00:08	1
2,4,6-Tribromophenol	52		10 - 150	01/23/25 14:37	01/25/25 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/23/25 13:21	01/24/25 17:37	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/23/25 13:21	01/24/25 17:37	1
Anthracene	ND		0.20	0.072	ug/L		01/23/25 13:21	01/24/25 17:37	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 17:37	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/23/25 13:21	01/24/25 17:37	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/23/25 13:21	01/24/25 17:37	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/23/25 13:21	01/24/25 17:37	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625

Lab Sample ID: 400-269539-9

Date Collected: 01/16/25 12:45

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 17:37	1
Chrysene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 17:37	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 17:37	1
Fluoranthene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 17:37	1
Fluorene	ND		0.20	0.086	ug/L		01/23/25 13:21	01/24/25 17:37	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 17:37	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/23/25 13:21	01/24/25 17:37	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/23/25 13:21	01/24/25 17:37	1
Phenanthrene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 17:37	1
Pyrene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		50 - 150	01/23/25 13:21	01/24/25 17:37	1
Nitrobenzene-d5	118		50 - 150	01/23/25 13:21	01/24/25 17:37	1
Terphenyl-d14	110		50 - 150	01/23/25 13:21	01/24/25 17:37	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.035	0.020	ug/L		01/23/25 12:53	01/23/25 21:30	1
1,2-Dibromoethane	ND		0.023	0.018	ug/L		01/23/25 12:53	01/23/25 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	58		51 - 149	01/23/25 12:53	01/23/25 21:30	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW5-ROX-011625

Lab Sample ID: 400-269539-10

Date Collected: 01/16/25 13:30

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/23/25 20:57	1
Acrolein	ND		20	3.3	ug/L			01/23/25 20:57	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 20:57	1
Benzene	ND		1.0	0.50	ug/L			01/23/25 20:57	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 20:57	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 20:57	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 20:57	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 20:57	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 20:57	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 20:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 20:57	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 20:57	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 20:57	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			01/23/25 20:57	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/23/25 20:57	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 20:57	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 20:57	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 20:57	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 20:57	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 20:57	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 20:57	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 20:57	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 20:57	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 20:57	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 20:57	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 20:57	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 20:57	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 20:57	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:57	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:57	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 20:57	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 20:57	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 20:57	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 20:57	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 20:57	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 20:57	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 20:57	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 20:57	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 20:57	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 20:57	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 20:57	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 20:57	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 20:57	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 20:57	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 20:57	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 20:57	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 20:57	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 20:57	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 20:57	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW5-ROX-011625

Lab Sample ID: 400-269539-10

Date Collected: 01/16/25 13:30

Matrix: Water

Date Received: 01/17/25 09:17

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 20:57	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 20:57	1
tert-Butylbenzene	1.6		1.0	0.63	ug/L			01/23/25 20:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 20:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 20:57	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 20:57	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 20:57	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 20:57	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 20:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 20:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 20:57	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 20:57	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 20:57	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 20:57	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 20:57	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 20:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 20:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 20:57	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 20:57	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 20:57	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		56 - 136		01/23/25 20:57	1
Dibromofluoromethane	101		79 - 130		01/23/25 20:57	1
Toluene-d8 (Surr)	95		64 - 132		01/23/25 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.6	8.4	ug/L		01/23/25 14:37	01/27/25 18:13	1
Benzenethiol	ND		9.6	9.5	ug/L		01/23/25 14:37	01/25/25 00:31	1
Benzoic acid	ND	*- UJ	29	23	ug/L		01/23/25 14:37	01/27/25 18:13	1
Benzyl alcohol	ND		9.6	7.0	ug/L		01/23/25 14:37	01/27/25 18:13	1
Bis(2-chloroethoxy)methane	ND		9.6	4.4	ug/L		01/23/25 14:37	01/27/25 18:13	1
Bis(2-chloroethyl)ether	ND	UJ	9.6	3.8	ug/L		01/23/25 14:37	01/27/25 18:13	1
bis (2-chloroisopropyl) ether	ND		9.6	1.7	ug/L		01/23/25 14:37	01/25/25 00:31	1
Bis(2-ethylhexyl) phthalate	ND		9.6	8.6	ug/L		01/23/25 14:37	01/27/25 18:13	1
4-Bromophenyl phenyl ether	ND		9.6	8.3	ug/L		01/23/25 14:37	01/25/25 00:31	1
Butyl benzyl phthalate	ND		9.6	5.6	ug/L		01/23/25 14:37	01/27/25 18:13	1
4-Chloroaniline	ND		9.6	4.5	ug/L		01/23/25 14:37	01/25/25 00:31	1
4-Chloro-3-methylphenol	ND		9.6	5.1	ug/L		01/23/25 14:37	01/27/25 18:13	1
2-Chloronaphthalene	ND		9.6	3.7	ug/L		01/23/25 14:37	01/27/25 18:13	1
2-Chlorophenol	ND		9.6	3.9	ug/L		01/23/25 14:37	01/25/25 00:31	1
4-Chlorophenyl phenyl ether	ND		9.6	3.6	ug/L		01/23/25 14:37	01/25/25 00:31	1
Dibenz[a,h]acridine	ND		9.6	2.7	ug/L		01/23/25 14:37	01/27/25 18:13	1
Dibenzofuran	ND		9.6	3.8	ug/L		01/23/25 14:37	01/27/25 18:13	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/23/25 14:37	01/25/25 00:31	1
2,4-Dichlorophenol	ND		9.6	4.1	ug/L		01/23/25 14:37	01/27/25 18:13	1
Diethyl phthalate	ND		9.6	4.2	ug/L		01/23/25 14:37	01/25/25 00:31	1
2,4-Dimethylphenol	ND		9.6	5.0	ug/L		01/23/25 14:37	01/25/25 00:31	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW5-ROX-011625

Lab Sample ID: 400-269539-10

Date Collected: 01/16/25 13:30

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.6	4.0	ug/L		01/23/25 14:37	01/27/25 18:13	1
Di-n-butyl phthalate	ND		9.6	4.4	ug/L		01/23/25 14:37	01/25/25 00:31	1
4,6-Dinitro-ortho-cresol	ND		9.6	9.6	ug/L		01/23/25 14:37	01/25/25 00:31	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/23/25 14:37	01/25/25 00:31	1
2,4-Dinitrotoluene	ND		9.6	4.9	ug/L		01/23/25 14:37	01/27/25 18:13	1
2,6-Dinitrotoluene	ND		9.6	3.8	ug/L		01/23/25 14:37	01/27/25 18:13	1
Di-n-octyl phthalate	ND		9.6	5.8	ug/L		01/23/25 14:37	01/27/25 18:13	1
1,4-Dioxane	ND		9.6	4.1	ug/L		01/23/25 14:37	01/27/25 18:13	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	3.2	ug/L		01/23/25 14:37	01/27/25 18:13	1
Hexachlorobenzene	ND		9.6	9.3	ug/L		01/23/25 14:37	01/25/25 00:31	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/23/25 14:37	01/27/25 18:13	1
Hexachloroethane	ND		9.6	5.0	ug/L		01/23/25 14:37	01/25/25 00:31	1
Indene	ND		9.6	3.5	ug/L		01/23/25 14:37	01/25/25 00:31	1
Isophorone	ND		9.6	5.0	ug/L		01/23/25 14:37	01/27/25 18:13	1
2-Methylphenol	ND		9.6	3.1	ug/L		01/23/25 14:37	01/25/25 00:31	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/23/25 14:37	01/25/25 00:31	1
2-Nitroaniline	ND		9.6	4.8	ug/L		01/23/25 14:37	01/25/25 00:31	1
3-Nitroaniline	ND		9.6	4.5	ug/L		01/23/25 14:37	01/25/25 00:31	1
4-Nitroaniline	ND		9.6	3.9	ug/L		01/23/25 14:37	01/25/25 00:31	1
Nitrobenzene	ND		9.6	4.5	ug/L		01/23/25 14:37	01/27/25 18:13	1
2-Nitrophenol	ND		9.6	4.4	ug/L		01/23/25 14:37	01/27/25 18:13	1
4-Nitrophenol	ND		9.6	3.2	ug/L		01/23/25 14:37	01/25/25 00:31	1
N-Nitrosodimethylamine	ND		9.6	2.1	ug/L		01/23/25 14:37	01/25/25 00:31	1
N-Nitrosodi-n-propylamine	ND		9.6	2.4	ug/L		01/23/25 14:37	01/25/25 00:31	1
N-Nitrosodiphenylamine	ND		9.6	3.6	ug/L		01/23/25 14:37	01/27/25 18:13	1
Pentachlorophenol	ND		19	11	ug/L		01/23/25 14:37	01/25/25 00:31	1
Phenol	ND		9.6	4.0	ug/L		01/23/25 14:37	01/25/25 00:31	1
Pyridine	ND		9.6	9.6	ug/L		01/23/25 14:37	01/27/25 18:13	1
Quinoline	ND	UJ	9.6	2.3	ug/L		01/23/25 14:37	01/27/25 18:13	1
2,4,5-Trichlorophenol	ND		9.6	3.8	ug/L		01/23/25 14:37	01/25/25 00:31	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		01/23/25 14:37	01/25/25 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		21 - 114	01/23/25 14:37	01/25/25 00:31	1
2-Fluorophenol	28		10 - 105	01/23/25 14:37	01/25/25 00:31	1
Nitrobenzene-d5	46		16 - 127	01/23/25 14:37	01/25/25 00:31	1
Phenol-d5	24		10 - 129	01/23/25 14:37	01/25/25 00:31	1
Terphenyl-d14	73		13 - 150	01/23/25 14:37	01/25/25 00:31	1
2,4,6-Tribromophenol	57		10 - 150	01/23/25 14:37	01/25/25 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/23/25 13:21	01/24/25 18:07	1
Acenaphthylene	ND		0.20	0.046	ug/L		01/23/25 13:21	01/24/25 18:07	1
Anthracene	ND		0.20	0.072	ug/L		01/23/25 13:21	01/24/25 18:07	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 18:07	1
Benzo[a]pyrene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 18:07	1
Benzo[b]fluoranthene	ND		0.20	0.041	ug/L		01/23/25 13:21	01/24/25 18:07	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/23/25 13:21	01/24/25 18:07	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW5-ROX-011625

Lab Sample ID: 400-269539-10

Date Collected: 01/16/25 13:30

Matrix: Water

Date Received: 01/17/25 09:17

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 18:07	1
Chrysene	ND		0.20	0.038	ug/L		01/23/25 13:21	01/24/25 18:07	1
Dibenz(a,h)anthracene	ND		0.20	0.043	ug/L		01/23/25 13:21	01/24/25 18:07	1
Fluoranthene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 18:07	1
Fluorene	ND		0.20	0.086	ug/L		01/23/25 13:21	01/24/25 18:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 18:07	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/23/25 13:21	01/24/25 18:07	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/23/25 13:21	01/24/25 18:07	1
Phenanthrene	ND		0.20	0.043	ug/L		01/23/25 13:21	01/24/25 18:07	1
Pyrene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		50 - 150	01/23/25 13:21	01/24/25 18:07	1
Nitrobenzene-d5	120		50 - 150	01/23/25 13:21	01/24/25 18:07	1
Terphenyl-d14	120		50 - 150	01/23/25 13:21	01/24/25 18:07	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/23/25 12:53	01/23/25 21:50	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/23/25 12:53	01/23/25 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	74		51 - 149	01/23/25 12:53	01/23/25 21:50	1

Definitions/Glossary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-269539-1	TB-ROX-011625-8260-A	94	110	96
400-269539-3	MW12-ROX-011625-EB	92	111	98
400-269539-4	MW12-ROX-011625	93	111	95
400-269539-5	MW16-ROX-011625	94	109	95
400-269539-5 MS	MW16-ROX-011625	104	98	97
400-269539-5 MSD	MW16-ROX-011625	103	97	96
400-269539-6	TB-ROX-011625-8260-B	94	110	96
400-269539-8	MW3-ROX-011625-EB	92	111	96
400-269539-9	MW3-ROX-011625	95	105	94
400-269539-10	MW5-ROX-011625	94	101	95
LCS 400-697286/1002	Lab Control Sample	103	95	96
MB 400-697286/4	Method Blank	95	110	96

Surrogate Legend
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (21-114)	2FP (10-105)	NBZ (16-127)	PHL (10-129)	TPHL (13-150)	TBP (10-150)
400-269539-3	MW12-ROX-011625-EB	57	27	43	24	86	50
400-269539-4	MW12-ROX-011625	64	28	52	25	81	47
400-269539-5	MW16-ROX-011625	63	33	53	27	85	51
400-269539-5 MS	MW16-ROX-011625	65	30	43	30	58	56
400-269539-5 MSD	MW16-ROX-011625	80	33	48	35	74	63
400-269539-8	MW3-ROX-011625-EB	62	31	52	26	82	49
400-269539-9	MW3-ROX-011625	57	28	47	24	74	52
400-269539-10	MW5-ROX-011625	56	28	46	24	73	57
LCS 400-697296/2-A	Lab Control Sample	72	29	45	27	67	64
LCS 400-697296/5-A	Lab Control Sample	60	30	52	27	83	48
LCSD 400-697296/6-A	Lab Control Sample Dup	56	29	46	25	74	50
MB 400-697296/1-A	Method Blank	51	24	47	19	74	42

Surrogate Legend
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: AECOM

Job ID: 400-269539-1

Project/Site: ROXANA QUARTERLY GW

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (50-150)	NBZ (50-150)	TPHL (50-150)
400-269539-3	MW12-ROX-011625-EB	109	128	121
400-269539-4	MW12-ROX-011625	109	120	119
400-269539-5	MW16-ROX-011625	112	121	120
400-269539-5 MS	MW16-ROX-011625	105	117	110
400-269539-5 MSD	MW16-ROX-011625	105	116	115
400-269539-8	MW3-ROX-011625-EB	101	115	115
400-269539-9	MW3-ROX-011625	97	118	110
400-269539-10	MW5-ROX-011625	101	120	120
LCS 400-697282/2-A	Lab Control Sample	108	116	113
MB 400-697282/1-A	Method Blank	107	115	113

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (51-149)
400-269539-2	TB-ROX-011625-8011-A	82
400-269539-3	MW12-ROX-011625-EB	67
400-269539-4	MW12-ROX-011625	81
400-269539-5	MW16-ROX-011625	80
400-269539-5 MS	MW16-ROX-011625	63
400-269539-5 MSD	MW16-ROX-011625	70
400-269539-7	TB-ROX-011625-8011-B	75
400-269539-8	MW3-ROX-011625-EB	66
400-269539-9	MW3-ROX-011625	58
400-269539-10	MW5-ROX-011625	74
LCS 400-697273/2-A	Lab Control Sample	97
LCSD 400-697273/3-A	Lab Control Sample Dup	118
MB 400-697273/1-A	Method Blank	118

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM

Job ID: 400-269539-1

Project/Site: ROXANA QUARTERLY GW

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: TB-ROX-011625-8260-A

Lab Sample ID: 400-269539-1

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 18:45	CJ	EET PEN

Client Sample ID: TB-ROX-011625-8011-A

Lab Sample ID: 400-269539-2

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			32.1 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 18:25	KR	EET PEN

Client Sample ID: MW12-ROX-011625-EB

Lab Sample ID: 400-269539-3

Date Collected: 01/16/25 10:00

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 19:07	CJ	EET PEN
Total/NA	Prep	3510C			259 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 22:56	S1B	EET PEN
Total/NA	Prep	3510C			259 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697582	01/27/25 16:33	VC1	EET PEN
Total/NA	Prep	3511			30.3 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 14:35	JAW	EET PEN
Total/NA	Prep	8011			29.1 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 18:46	KR	EET PEN

Client Sample ID: MW12-ROX-011625

Lab Sample ID: 400-269539-4

Date Collected: 01/16/25 12:10

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 20:13	CJ	EET PEN
Total/NA	Prep	3510C			263.6 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 23:20	S1B	EET PEN
Total/NA	Prep	3510C			263.6 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697582	01/27/25 16:58	VC1	EET PEN
Total/NA	Prep	3511			30 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 15:06	JAW	EET PEN
Total/NA	Prep	8011			31.4 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 19:27	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW16-ROX-011625

Lab Sample ID: 400-269539-5

Date Collected: 01/16/25 13:45

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 15:49	CJ	EET PEN
Total/NA	Prep	3510C			259.8 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 22:32	S1B	EET PEN
Total/NA	Prep	3510C			259.8 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697582	01/27/25 17:23	VC1	EET PEN
Total/NA	Prep	3511			30.2 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 15:36	JAW	EET PEN
Total/NA	Prep	8011			33.2 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 19:48	KR	EET PEN

Client Sample ID: TB-ROX-011625-8260-B

Lab Sample ID: 400-269539-6

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 19:29	CJ	EET PEN

Client Sample ID: TB-ROX-011625-8011-B

Lab Sample ID: 400-269539-7

Date Collected: 01/16/25 00:00

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			32 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 20:49	KR	EET PEN

Client Sample ID: MW3-ROX-011625-EB

Lab Sample ID: 400-269539-8

Date Collected: 01/16/25 10:30

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 19:51	CJ	EET PEN
Total/NA	Prep	3510C			271.2 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 23:44	S1B	EET PEN
Total/NA	Prep	3510C			271.2 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697582	01/27/25 17:48	VC1	EET PEN
Total/NA	Prep	3511			30.4 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 17:06	JAW	EET PEN
Total/NA	Prep	8011			32.8 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 21:10	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: MW3-ROX-011625

Lab Sample ID: 400-269539-9

Date Collected: 01/16/25 12:45

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 20:35	CJ	EET PEN
Total/NA	Prep	3510C			259 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/25/25 00:08	S1B	EET PEN
Total/NA	Prep	3510C			259 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697582	01/27/25 18:38	VC1	EET PEN
Total/NA	Prep	3511			30.3 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 17:37	JAW	EET PEN
Total/NA	Prep	8011			29.9 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 21:30	KR	EET PEN

Client Sample ID: MW5-ROX-011625

Lab Sample ID: 400-269539-10

Date Collected: 01/16/25 13:30

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 20:57	CJ	EET PEN
Total/NA	Prep	3510C			260 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/25/25 00:31	S1B	EET PEN
Total/NA	Prep	3510C			260 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697582	01/27/25 18:13	VC1	EET PEN
Total/NA	Prep	3511			30.4 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 18:07	JAW	EET PEN
Total/NA	Prep	8011			31.5 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 21:50	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697273/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 15:39	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697282/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 13:36	JAW	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697286/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 15:05	CJ	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697296/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 20:10	S1B	EET PEN
Total/NA	Prep	3510C			250 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697582	01/27/25 16:07	VC1	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697273/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 16:00	KR	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697282/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 14:06	JAW	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697286/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 14:08	CJ	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697296/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 21:21	S1B	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697296/5-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 20:33	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697273/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 16:21	KR	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697296/6-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 20:57	S1B	EET PEN

Client Sample ID: MW16-ROX-011625

Lab Sample ID: 400-269539-5 MS

Date Collected: 01/16/25 13:45

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 17:39	CJ	EET PEN
Total/NA	Prep	3510C			255.8 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 21:45	S1B	EET PEN
Total/NA	Prep	3511			30.2 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 16:06	JAW	EET PEN
Total/NA	Prep	8011			31.1 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 20:08	KR	EET PEN

Client Sample ID: MW16-ROX-011625

Lab Sample ID: 400-269539-5 MSD

Date Collected: 01/16/25 13:45

Matrix: Water

Date Received: 01/17/25 09:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697286	01/23/25 18:01	CJ	EET PEN
Total/NA	Prep	3510C			245.6 mL	1 mL	697296	01/23/25 14:37	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697370	01/24/25 22:08	S1B	EET PEN
Total/NA	Prep	3511			30.4 mL	2 mL	697282	01/23/25 13:21	RAW	EET PEN
Total/NA	Analysis	8270E		1			697368	01/24/25 16:36	JAW	EET PEN
Total/NA	Prep	8011			33.1 mL	35 mL	697273	01/23/25 12:53	KR	EET PEN
Total/NA	Analysis	8011		1			697292	01/23/25 20:29	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

GC/MS VOA

Analysis Batch: 697286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-1	TB-ROX-011625-8260-A	Total/NA	Water	8260D	
400-269539-3	MW12-ROX-011625-EB	Total/NA	Water	8260D	
400-269539-4	MW12-ROX-011625	Total/NA	Water	8260D	
400-269539-5	MW16-ROX-011625	Total/NA	Water	8260D	
400-269539-6	TB-ROX-011625-8260-B	Total/NA	Water	8260D	
400-269539-8	MW3-ROX-011625-EB	Total/NA	Water	8260D	
400-269539-9	MW3-ROX-011625	Total/NA	Water	8260D	
400-269539-10	MW5-ROX-011625	Total/NA	Water	8260D	
MB 400-697286/4	Method Blank	Total/NA	Water	8260D	
LCS 400-697286/1002	Lab Control Sample	Total/NA	Water	8260D	
400-269539-5 MS	MW16-ROX-011625	Total/NA	Water	8260D	
400-269539-5 MSD	MW16-ROX-011625	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 697282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-3	MW12-ROX-011625-EB	Total/NA	Water	3511	
400-269539-4	MW12-ROX-011625	Total/NA	Water	3511	
400-269539-5	MW16-ROX-011625	Total/NA	Water	3511	
400-269539-8	MW3-ROX-011625-EB	Total/NA	Water	3511	
400-269539-9	MW3-ROX-011625	Total/NA	Water	3511	
400-269539-10	MW5-ROX-011625	Total/NA	Water	3511	
MB 400-697282/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697282/2-A	Lab Control Sample	Total/NA	Water	3511	
400-269539-5 MS	MW16-ROX-011625	Total/NA	Water	3511	
400-269539-5 MSD	MW16-ROX-011625	Total/NA	Water	3511	

Prep Batch: 697296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-3	MW12-ROX-011625-EB	Total/NA	Water	3510C	
400-269539-4	MW12-ROX-011625	Total/NA	Water	3510C	
400-269539-5	MW16-ROX-011625	Total/NA	Water	3510C	
400-269539-8	MW3-ROX-011625-EB	Total/NA	Water	3510C	
400-269539-9	MW3-ROX-011625	Total/NA	Water	3510C	
400-269539-10	MW5-ROX-011625	Total/NA	Water	3510C	
MB 400-697296/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-697296/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-697296/5-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-697296/6-A	Lab Control Sample Dup	Total/NA	Water	3510C	
400-269539-5 MS	MW16-ROX-011625	Total/NA	Water	3510C	
400-269539-5 MSD	MW16-ROX-011625	Total/NA	Water	3510C	

Analysis Batch: 697368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-3	MW12-ROX-011625-EB	Total/NA	Water	8270E	697282
400-269539-4	MW12-ROX-011625	Total/NA	Water	8270E	697282
400-269539-5	MW16-ROX-011625	Total/NA	Water	8270E	697282
400-269539-8	MW3-ROX-011625-EB	Total/NA	Water	8270E	697282
400-269539-9	MW3-ROX-011625	Total/NA	Water	8270E	697282
400-269539-10	MW5-ROX-011625	Total/NA	Water	8270E	697282

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

GC/MS Semi VOA (Continued)

Analysis Batch: 697368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-697282/1-A	Method Blank	Total/NA	Water	8270E	697282
LCS 400-697282/2-A	Lab Control Sample	Total/NA	Water	8270E	697282
400-269539-5 MS	MW16-ROX-011625	Total/NA	Water	8270E	697282
400-269539-5 MSD	MW16-ROX-011625	Total/NA	Water	8270E	697282

Analysis Batch: 697370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-3	MW12-ROX-011625-EB	Total/NA	Water	8270E	697296
400-269539-4	MW12-ROX-011625	Total/NA	Water	8270E	697296
400-269539-5	MW16-ROX-011625	Total/NA	Water	8270E	697296
400-269539-8	MW3-ROX-011625-EB	Total/NA	Water	8270E	697296
400-269539-9	MW3-ROX-011625	Total/NA	Water	8270E	697296
400-269539-10	MW5-ROX-011625	Total/NA	Water	8270E	697296
MB 400-697296/1-A	Method Blank	Total/NA	Water	8270E	697296
LCS 400-697296/2-A	Lab Control Sample	Total/NA	Water	8270E	697296
LCS 400-697296/5-A	Lab Control Sample	Total/NA	Water	8270E	697296
LCSD 400-697296/6-A	Lab Control Sample Dup	Total/NA	Water	8270E	697296
400-269539-5 MS	MW16-ROX-011625	Total/NA	Water	8270E	697296
400-269539-5 MSD	MW16-ROX-011625	Total/NA	Water	8270E	697296

Analysis Batch: 697582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-3	MW12-ROX-011625-EB	Total/NA	Water	8270E	697296
400-269539-4	MW12-ROX-011625	Total/NA	Water	8270E	697296
400-269539-5	MW16-ROX-011625	Total/NA	Water	8270E	697296
400-269539-8	MW3-ROX-011625-EB	Total/NA	Water	8270E	697296
400-269539-9	MW3-ROX-011625	Total/NA	Water	8270E	697296
400-269539-10	MW5-ROX-011625	Total/NA	Water	8270E	697296
MB 400-697296/1-A	Method Blank	Total/NA	Water	8270E	697296

GC Semi VOA

Prep Batch: 697273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-2	TB-ROX-011625-8011-A	Total/NA	Water	8011	
400-269539-3	MW12-ROX-011625-EB	Total/NA	Water	8011	
400-269539-4	MW12-ROX-011625	Total/NA	Water	8011	
400-269539-5	MW16-ROX-011625	Total/NA	Water	8011	
400-269539-7	TB-ROX-011625-8011-B	Total/NA	Water	8011	
400-269539-8	MW3-ROX-011625-EB	Total/NA	Water	8011	
400-269539-9	MW3-ROX-011625	Total/NA	Water	8011	
400-269539-10	MW5-ROX-011625	Total/NA	Water	8011	
MB 400-697273/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-697273/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-697273/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
400-269539-5 MS	MW16-ROX-011625	Total/NA	Water	8011	
400-269539-5 MSD	MW16-ROX-011625	Total/NA	Water	8011	

Analysis Batch: 697292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-2	TB-ROX-011625-8011-A	Total/NA	Water	8011	697273

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QC Association Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

GC Semi VOA (Continued)

Analysis Batch: 697292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269539-3	MW12-ROX-011625-EB	Total/NA	Water	8011	697273
400-269539-4	MW12-ROX-011625	Total/NA	Water	8011	697273
400-269539-5	MW16-ROX-011625	Total/NA	Water	8011	697273
400-269539-7	TB-ROX-011625-8011-B	Total/NA	Water	8011	697273
400-269539-8	MW3-ROX-011625-EB	Total/NA	Water	8011	697273
400-269539-9	MW3-ROX-011625	Total/NA	Water	8011	697273
400-269539-10	MW5-ROX-011625	Total/NA	Water	8011	697273
MB 400-697273/1-A	Method Blank	Total/NA	Water	8011	697273
LCS 400-697273/2-A	Lab Control Sample	Total/NA	Water	8011	697273
LCSD 400-697273/3-A	Lab Control Sample Dup	Total/NA	Water	8011	697273
400-269539-5 MS	MW16-ROX-011625	Total/NA	Water	8011	697273
400-269539-5 MSD	MW16-ROX-011625	Total/NA	Water	8011	697273

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: MB 400-697286/4

Matrix: Water

Analysis Batch: 697286

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/23/25 15:05	1
Acrolein	ND		20	3.3	ug/L			01/23/25 15:05	1
Acrylonitrile	ND		10	2.8	ug/L			01/23/25 15:05	1
Benzene	ND		1.0	0.50	ug/L			01/23/25 15:05	1
Bromobenzene	ND		1.0	0.54	ug/L			01/23/25 15:05	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/23/25 15:05	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/23/25 15:05	1
Bromoform	ND		5.0	0.25	ug/L			01/23/25 15:05	1
Bromomethane	ND		1.0	0.98	ug/L			01/23/25 15:05	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/23/25 15:05	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/23/25 15:05	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/23/25 15:05	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/23/25 15:05	1
Chloroethane	ND		1.0	0.76	ug/L			01/23/25 15:05	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/23/25 15:05	1
Chloroform	ND		1.0	0.90	ug/L			01/23/25 15:05	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/23/25 15:05	1
Chloromethane	ND		1.0	0.40	ug/L			01/23/25 15:05	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/23/25 15:05	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/23/25 15:05	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/23/25 15:05	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/23/25 15:05	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/23/25 15:05	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/23/25 15:05	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/23/25 15:05	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/23/25 15:05	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/23/25 15:05	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 15:05	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 15:05	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 15:05	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/23/25 15:05	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/23/25 15:05	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/23/25 15:05	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/23/25 15:05	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/23/25 15:05	1
2-Hexanone	ND		25	4.3	ug/L			01/23/25 15:05	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/23/25 15:05	1
Methylene bromide	ND		5.0	0.22	ug/L			01/23/25 15:05	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/23/25 15:05	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/23/25 15:05	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/23/25 15:05	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/23/25 15:05	1
Naphthalene	ND		5.0	3.0	ug/L			01/23/25 15:05	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/23/25 15:05	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/23/25 15:05	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/23/25 15:05	1
o-Xylene	ND		5.0	3.0	ug/L			01/23/25 15:05	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/23/25 15:05	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: MB 400-697286/4

Matrix: Water

Analysis Batch: 697286

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/23/25 15:05	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/23/25 15:05	1
Styrene	ND		1.0	1.0	ug/L			01/23/25 15:05	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/23/25 15:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/23/25 15:05	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/23/25 15:05	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/23/25 15:05	1
Toluene	ND		1.0	0.90	ug/L			01/23/25 15:05	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/23/25 15:05	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/23/25 15:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/23/25 15:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/23/25 15:05	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/23/25 15:05	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/23/25 15:05	1
Trichloroethene	ND		1.0	0.15	ug/L			01/23/25 15:05	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/23/25 15:05	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/23/25 15:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/23/25 15:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/23/25 15:05	1
Vinyl acetate	ND		25	0.93	ug/L			01/23/25 15:05	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/23/25 15:05	1
Xylenes, Total	ND		10	6.0	ug/L			01/23/25 15:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		56 - 136		01/23/25 15:05	1
Dibromofluoromethane	110		79 - 130		01/23/25 15:05	1
Toluene-d8 (Surr)	96		64 - 132		01/23/25 15:05	1

Lab Sample ID: LCS 400-697286/1002

Matrix: Water

Analysis Batch: 697286

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	214		ug/L		107	43 - 150
Acrolein	500	478		ug/L		96	38 - 150
Acrylonitrile	500	418		ug/L		84	64 - 142
Benzene	50.0	48.8		ug/L		98	70 - 130
Bromobenzene	50.0	54.9		ug/L		110	70 - 132
Bromochloromethane	50.0	45.5		ug/L		91	70 - 130
Bromodichloromethane	50.0	48.1		ug/L		96	67 - 133
Bromoform	50.0	43.5		ug/L		87	57 - 140
Bromomethane	50.0	32.7		ug/L		65	10 - 150
2-Butanone (MEK)	200	211		ug/L		105	61 - 145
Carbon disulfide	50.0	43.8		ug/L		88	61 - 137
Carbon tetrachloride	50.0	48.0		ug/L		96	61 - 137
Chlorobenzene	50.0	50.6		ug/L		101	70 - 130
Chloroethane	50.0	28.8		ug/L		58	55 - 141
2-Chloroethyl vinyl ether	50.0	58.7		ug/L		117	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: LCS 400-697286/1002

Matrix: Water

Analysis Batch: 697286

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	44.9		ug/L		90	69 - 130
1-Chlorohexane	50.0	50.5		ug/L		101	69 - 130
Chloromethane	50.0	50.7		ug/L		101	58 - 137
cis-1,2-Dichloroethene	50.0	45.4		ug/L		91	68 - 130
cis-1,3-Dichloropropene	50.0	50.8		ug/L		102	69 - 132
Dibromochloromethane	50.0	45.7		ug/L		91	67 - 135
1,2-Dichlorobenzene	50.0	54.1		ug/L		108	67 - 130
1,3-Dichlorobenzene	50.0	56.8		ug/L		114	70 - 130
1,4-Dichlorobenzene	50.0	56.4		ug/L		113	70 - 130
Dichlorodifluoromethane	50.0	48.2		ug/L		96	41 - 146
1,1-Dichloroethane	50.0	45.9		ug/L		92	70 - 130
1,2-Dichloroethane	50.0	46.1		ug/L		92	69 - 130
1,1-Dichloroethene	50.0	46.4		ug/L		93	63 - 134
1,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	48.3		ug/L		97	70 - 130
2,2-Dichloropropane	50.0	47.7		ug/L		95	52 - 135
1,1-Dichloropropene	50.0	51.7		ug/L		103	70 - 130
Ethylbenzene	50.0	52.4		ug/L		105	70 - 130
Ethyl methacrylate	50.0	46.6		ug/L		93	68 - 130
Hexachlorobutadiene	50.0	64.0		ug/L		128	53 - 140
2-Hexanone	200	220		ug/L		110	65 - 137
Isopropylbenzene	50.0	53.0		ug/L		106	70 - 130
Methylene bromide	50.0	46.9		ug/L		94	70 - 130
Methylene Chloride	50.0	45.6		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	190		ug/L		95	69 - 138
Methyl tert-butyl ether	50.0	49.6		ug/L		99	66 - 130
m-Xylene & p-Xylene	50.0	51.3		ug/L		103	70 - 130
Naphthalene	50.0	52.9		ug/L		106	47 - 149
n-Butylbenzene	50.0	64.6		ug/L		129	67 - 130
N-Propylbenzene	50.0	59.2		ug/L		118	70 - 130
o-Chlorotoluene	50.0	57.4		ug/L		115	70 - 130
o-Xylene	50.0	51.3		ug/L		103	70 - 130
p-Chlorotoluene	50.0	56.8		ug/L		114	70 - 130
p-Isopropyltoluene	50.0	61.0		ug/L		122	65 - 130
sec-Butylbenzene	50.0	59.6		ug/L		119	66 - 130
Styrene	50.0	49.4		ug/L		99	70 - 130
tert-Butylbenzene	50.0	56.8		ug/L		114	64 - 139
1,1,1,2-Tetrachloroethane	50.0	49.1		ug/L		98	67 - 131
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	70 - 131
Tetrachloroethene	50.0	57.9		ug/L		116	65 - 130
Toluene	50.0	49.6		ug/L		99	70 - 130
trans-1,2-Dichloroethene	50.0	47.3		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	47.7		ug/L		95	63 - 130
1,2,3-Trichlorobenzene	50.0	55.8		ug/L		112	60 - 138
1,2,4-Trichlorobenzene	50.0	58.9		ug/L		118	60 - 140
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	68 - 130
1,1,2-Trichloroethane	50.0	48.0		ug/L		96	70 - 130
Trichloroethene	50.0	52.0		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	46.1		ug/L		92	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: LCS 400-697286/1002

Matrix: Water

Analysis Batch: 697286

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	50.5		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	59.3		ug/L		119	70 - 130
1,3,5-Trimethylbenzene	50.0	58.1		ug/L		116	69 - 130
Vinyl acetate	100	103		ug/L		103	26 - 150
Vinyl chloride	50.0	52.8		ug/L		106	59 - 136
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	95		79 - 130
Toluene-d8 (Surr)	96		64 - 132

Lab Sample ID: 400-269539-5 MS

Matrix: Water

Analysis Batch: 697286

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	ND	F1	200	86.2		ug/L		43	43 - 150
Acrolein	ND		500	533		ug/L		107	38 - 150
Acrylonitrile	ND		500	512		ug/L		102	62 - 149
Benzene	7.6		50.0	62.0		ug/L		109	56 - 142
Bromobenzene	ND		50.0	57.7		ug/L		115	59 - 136
Bromochloromethane	ND		50.0	52.4		ug/L		105	64 - 140
Bromodichloromethane	ND		50.0	53.5		ug/L		107	59 - 143
Bromoform	ND		50.0	47.4		ug/L		95	50 - 140
Bromomethane	ND		50.0	28.9		ug/L		58	10 - 150
2-Butanone (MEK)	ND		200	131		ug/L		66	55 - 150
Carbon disulfide	ND		50.0	48.7		ug/L		97	48 - 150
Carbon tetrachloride	ND		50.0	53.0		ug/L		106	55 - 145
Chlorobenzene	ND		50.0	54.4		ug/L		109	64 - 130
Chloroethane	ND	F1	50.0	24.4	F1	ug/L		49	50 - 150
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 150
Chloroform	ND		50.0	51.4		ug/L		103	60 - 141
1-Chlorohexane	ND		50.0	53.1		ug/L		106	56 - 136
Chloromethane	ND		50.0	49.8		ug/L		100	49 - 148
cis-1,2-Dichloroethene	ND		50.0	52.2		ug/L		104	59 - 143
cis-1,3-Dichloropropene	ND		50.0	56.8		ug/L		114	57 - 140
Dibromochloromethane	ND		50.0	50.9		ug/L		102	56 - 143
1,2-Dichlorobenzene	ND		50.0	56.6		ug/L		113	52 - 137
1,3-Dichlorobenzene	ND		50.0	58.2		ug/L		116	54 - 135
1,4-Dichlorobenzene	ND		50.0	57.7		ug/L		115	53 - 135
Dichlorodifluoromethane	ND		50.0	47.6		ug/L		95	16 - 150
1,1-Dichloroethane	ND		50.0	52.4		ug/L		105	61 - 144
1,2-Dichloroethane	ND		50.0	53.8		ug/L		108	60 - 141
1,1-Dichloroethene	ND		50.0	52.0		ug/L		104	54 - 147
1,2-Dichloropropane	ND		50.0	58.9		ug/L		118	66 - 137
1,3-Dichloropropane	ND		50.0	55.7		ug/L		111	66 - 133
2,2-Dichloropropane	ND		50.0	53.5		ug/L		107	42 - 144

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: 400-269539-5 MS

Matrix: Water

Analysis Batch: 697286

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	ND		50.0	58.5		ug/L		117	65 - 136
Ethylbenzene	ND		50.0	56.0		ug/L		112	58 - 131
Ethyl methacrylate	ND		50.0	54.6		ug/L		109	64 - 130
Hexachlorobutadiene	ND		50.0	60.1		ug/L		120	31 - 149
2-Hexanone	ND		200	156		ug/L		78	65 - 140
Isopropylbenzene	ND		50.0	55.6		ug/L		111	56 - 133
Methylene bromide	ND		50.0	54.0		ug/L		108	63 - 138
Methylene Chloride	ND		50.0	52.0		ug/L		104	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	209		ug/L		104	63 - 146
Methyl tert-butyl ether	ND		50.0	57.9		ug/L		116	59 - 137
m-Xylene & p-Xylene	ND		50.0	54.7		ug/L		109	57 - 130
Naphthalene	ND		50.0	58.7		ug/L		117	25 - 150
n-Butylbenzene	ND		50.0	59.8		ug/L		120	41 - 142
N-Propylbenzene	ND		50.0	59.4		ug/L		119	51 - 138
o-Chlorotoluene	ND		50.0	58.1		ug/L		116	53 - 134
o-Xylene	ND		50.0	54.7		ug/L		109	61 - 130
p-Chlorotoluene	ND		50.0	52.6		ug/L		105	54 - 133
p-Isopropyltoluene	ND		50.0	59.8		ug/L		120	48 - 139
sec-Butylbenzene	ND		50.0	58.8		ug/L		118	50 - 138
Styrene	ND		50.0	52.4		ug/L		105	58 - 131
tert-Butylbenzene	ND		50.0	57.5		ug/L		115	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	53.4		ug/L		107	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	56.1		ug/L		112	66 - 135
Tetrachloroethene	ND		50.0	53.4		ug/L		107	52 - 133
Toluene	ND		50.0	54.7		ug/L		109	65 - 130
trans-1,2-Dichloroethene	ND		50.0	53.2		ug/L		106	61 - 143
trans-1,3-Dichloropropene	ND		50.0	53.3		ug/L		107	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	57.4		ug/L		115	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	59.0		ug/L		118	39 - 148
1,1,1-Trichloroethane	ND		50.0	54.8		ug/L		110	57 - 142
1,1,2-Trichloroethane	ND		50.0	55.3		ug/L		111	66 - 131
Trichloroethene	ND		50.0	57.3		ug/L		115	64 - 136
Trichlorofluoromethane	ND		50.0	46.2		ug/L		92	54 - 150
1,2,3-Trichloropropane	ND		50.0	58.7		ug/L		117	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	60.0		ug/L		120	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	59.2		ug/L		118	52 - 135
Vinyl acetate	ND		100	119		ug/L		119	26 - 150
Vinyl chloride	ND		50.0	51.9		ug/L		104	46 - 150
Xylenes, Total	ND		100	109		ug/L		109	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	104		56 - 136
Dibromofluoromethane	98		79 - 130
Toluene-d8 (Surr)	97		64 - 132

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: 400-269539-5 MSD

Matrix: Water

Analysis Batch: 697286

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND	F1	200	83.2	F1	ug/L		42	43 - 150	4	30
Acrolein	ND		500	518		ug/L		104	38 - 150	3	31
Acrylonitrile	ND		500	497		ug/L		99	62 - 149	3	30
Benzene	7.6		50.0	61.2		ug/L		107	56 - 142	1	30
Bromobenzene	ND		50.0	55.8		ug/L		112	59 - 136	3	30
Bromochloromethane	ND		50.0	50.8		ug/L		102	64 - 140	3	30
Bromodichloromethane	ND		50.0	52.9		ug/L		106	59 - 143	1	30
Bromoform	ND		50.0	46.1		ug/L		92	50 - 140	3	30
Bromomethane	ND		50.0	36.8		ug/L		74	10 - 150	24	50
2-Butanone (MEK)	ND		200	127		ug/L		64	55 - 150	3	30
Carbon disulfide	ND		50.0	48.1		ug/L		96	48 - 150	1	30
Carbon tetrachloride	ND		50.0	52.2		ug/L		104	55 - 145	2	30
Chlorobenzene	ND		50.0	52.4		ug/L		105	64 - 130	4	30
Chloroethane	ND	F1	50.0	25.0		ug/L		50	50 - 150	3	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 150	NC	50
Chloroform	ND		50.0	50.4		ug/L		101	60 - 141	2	30
1-Chlorohexane	ND		50.0	50.7		ug/L		101	56 - 136	5	30
Chloromethane	ND		50.0	49.0		ug/L		98	49 - 148	2	31
cis-1,2-Dichloroethene	ND		50.0	51.8		ug/L		104	59 - 143	1	30
cis-1,3-Dichloropropene	ND		50.0	55.9		ug/L		112	57 - 140	2	30
Dibromochloromethane	ND		50.0	49.6		ug/L		99	56 - 143	3	30
1,2-Dichlorobenzene	ND		50.0	54.1		ug/L		108	52 - 137	5	30
1,3-Dichlorobenzene	ND		50.0	55.0		ug/L		110	54 - 135	6	30
1,4-Dichlorobenzene	ND		50.0	55.0		ug/L		110	53 - 135	5	30
Dichlorodifluoromethane	ND		50.0	46.0		ug/L		92	16 - 150	3	31
1,1-Dichloroethane	ND		50.0	51.7		ug/L		103	61 - 144	1	30
1,2-Dichloroethane	ND		50.0	52.3		ug/L		105	60 - 141	3	30
1,1-Dichloroethene	ND		50.0	50.9		ug/L		102	54 - 147	2	30
1,2-Dichloropropane	ND		50.0	57.2		ug/L		114	66 - 137	3	30
1,3-Dichloropropane	ND		50.0	54.2		ug/L		108	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	52.5		ug/L		105	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	56.5		ug/L		113	65 - 136	4	30
Ethylbenzene	ND		50.0	53.4		ug/L		107	58 - 131	5	30
Ethyl methacrylate	ND		50.0	53.4		ug/L		107	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	56.1		ug/L		112	31 - 149	7	36
2-Hexanone	ND		200	149		ug/L		75	65 - 140	4	30
Isopropylbenzene	ND		50.0	53.1		ug/L		106	56 - 133	5	30
Methylene bromide	ND		50.0	52.0		ug/L		104	63 - 138	4	30
Methylene Chloride	ND		50.0	51.2		ug/L		102	60 - 146	1	32
4-Methyl-2-pentanone (MIBK)	ND		200	203		ug/L		101	63 - 146	3	30
Methyl tert-butyl ether	ND		50.0	57.0		ug/L		114	59 - 137	2	30
m-Xylene & p-Xylene	ND		50.0	52.2		ug/L		104	57 - 130	5	30
Naphthalene	ND		50.0	56.6		ug/L		113	25 - 150	4	30
n-Butylbenzene	ND		50.0	56.1		ug/L		112	41 - 142	7	31
N-Propylbenzene	ND		50.0	56.0		ug/L		112	51 - 138	6	30
o-Chlorotoluene	ND		50.0	55.0		ug/L		110	53 - 134	6	30
o-Xylene	ND		50.0	52.3		ug/L		105	61 - 130	4	30
p-Chlorotoluene	ND		50.0	49.8		ug/L		100	54 - 133	5	30

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: 400-269539-5 MSD

Matrix: Water

Analysis Batch: 697286

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	57.1		ug/L		114	48 - 139	5	30
sec-Butylbenzene	ND		50.0	55.8		ug/L		112	50 - 138	5	30
Styrene	ND		50.0	50.2		ug/L		100	58 - 131	4	30
tert-Butylbenzene	ND		50.0	54.9		ug/L		110	54 - 146	5	30
1,1,1,2-Tetrachloroethane	ND		50.0	52.3		ug/L		105	59 - 137	2	30
1,1,2,2-Tetrachloroethane	ND		50.0	54.5		ug/L		109	66 - 135	3	30
Tetrachloroethene	ND		50.0	51.1		ug/L		102	52 - 133	4	30
Toluene	ND		50.0	52.6		ug/L		105	65 - 130	4	30
trans-1,2-Dichloroethene	ND		50.0	52.4		ug/L		105	61 - 143	1	30
trans-1,3-Dichloropropene	ND		50.0	51.8		ug/L		104	53 - 133	3	30
1,2,3-Trichlorobenzene	ND		50.0	55.7		ug/L		111	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	56.6		ug/L		113	39 - 148	4	30
1,1,1-Trichloroethane	ND		50.0	53.3		ug/L		107	57 - 142	3	30
1,1,2-Trichloroethane	ND		50.0	53.6		ug/L		107	66 - 131	3	30
Trichloroethene	ND		50.0	55.9		ug/L		112	64 - 136	2	30
Trichlorofluoromethane	ND		50.0	41.6		ug/L		83	54 - 150	11	30
1,2,3-Trichloropropane	ND		50.0	56.1		ug/L		112	65 - 133	5	30
1,2,4-Trimethylbenzene	ND		50.0	57.1		ug/L		114	50 - 139	5	30
1,3,5-Trimethylbenzene	ND		50.0	55.7		ug/L		111	52 - 135	6	30
Vinyl acetate	ND		100	116		ug/L		116	26 - 150	3	33
Vinyl chloride	ND		50.0	50.0		ug/L		100	46 - 150	4	30
Xylenes, Total	ND		100	105		ug/L		105	59 - 130	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	97		79 - 130
Toluene-d8 (Surr)	96		64 - 132

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

Lab Sample ID: MB 400-697296/1-A

Matrix: Water

Analysis Batch: 697370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzenethiol	ND		10	9.9	ug/L		01/23/25 14:37	01/24/25 20:10	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/23/25 14:37	01/24/25 20:10	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/23/25 14:37	01/24/25 20:10	1
4-Chloroaniline	ND		10	4.7	ug/L		01/23/25 14:37	01/24/25 20:10	1
2-Chlorophenol	ND		10	4.1	ug/L		01/23/25 14:37	01/24/25 20:10	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/23/25 14:37	01/24/25 20:10	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/23/25 14:37	01/24/25 20:10	1
Diethyl phthalate	ND		10	4.4	ug/L		01/23/25 14:37	01/24/25 20:10	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/23/25 14:37	01/24/25 20:10	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/23/25 14:37	01/24/25 20:10	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/23/25 14:37	01/24/25 20:10	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/23/25 14:37	01/24/25 20:10	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/23/25 14:37	01/24/25 20:10	1
Hexachloroethane	ND		10	5.2	ug/L		01/23/25 14:37	01/24/25 20:10	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: MB 400-697296/1-A

Matrix: Water

Analysis Batch: 697370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indene	ND		10	3.6	ug/L		01/23/25 14:37	01/24/25 20:10	1
2-Methylphenol	ND		10	3.2	ug/L		01/23/25 14:37	01/24/25 20:10	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/23/25 14:37	01/24/25 20:10	1
2-Nitroaniline	ND		10	5.0	ug/L		01/23/25 14:37	01/24/25 20:10	1
3-Nitroaniline	ND		10	4.7	ug/L		01/23/25 14:37	01/24/25 20:10	1
4-Nitroaniline	ND		10	4.1	ug/L		01/23/25 14:37	01/24/25 20:10	1
4-Nitrophenol	ND		10	3.3	ug/L		01/23/25 14:37	01/24/25 20:10	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/23/25 14:37	01/24/25 20:10	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/23/25 14:37	01/24/25 20:10	1
Pentachlorophenol	ND		20	12	ug/L		01/23/25 14:37	01/24/25 20:10	1
Phenol	ND		10	4.2	ug/L		01/23/25 14:37	01/24/25 20:10	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/23/25 14:37	01/24/25 20:10	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/23/25 14:37	01/24/25 20:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		21 - 114	01/23/25 14:37	01/24/25 20:10	1
2-Fluorophenol	24		10 - 105	01/23/25 14:37	01/24/25 20:10	1
Nitrobenzene-d5	47		16 - 127	01/23/25 14:37	01/24/25 20:10	1
Phenol-d5	19		10 - 129	01/23/25 14:37	01/24/25 20:10	1
Terphenyl-d14	74		13 - 150	01/23/25 14:37	01/24/25 20:10	1
2,4,6-Tribromophenol	42		10 - 150	01/23/25 14:37	01/24/25 20:10	1

Lab Sample ID: MB 400-697296/1-A

Matrix: Water

Analysis Batch: 697582

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		01/23/25 14:37	01/27/25 16:07	1
Benzoic acid	ND		30	24	ug/L		01/23/25 14:37	01/27/25 16:07	1
Benzyl alcohol	ND		10	7.3	ug/L		01/23/25 14:37	01/27/25 16:07	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/23/25 14:37	01/27/25 16:07	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/23/25 14:37	01/27/25 16:07	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/23/25 14:37	01/27/25 16:07	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/23/25 14:37	01/27/25 16:07	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/23/25 14:37	01/27/25 16:07	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/23/25 14:37	01/27/25 16:07	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/23/25 14:37	01/27/25 16:07	1
Dibenzofuran	ND		10	4.0	ug/L		01/23/25 14:37	01/27/25 16:07	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/23/25 14:37	01/27/25 16:07	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/23/25 14:37	01/27/25 16:07	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/23/25 14:37	01/27/25 16:07	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/23/25 14:37	01/27/25 16:07	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/23/25 14:37	01/27/25 16:07	1
1,4-Dioxane	ND		10	4.3	ug/L		01/23/25 14:37	01/27/25 16:07	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/23/25 14:37	01/27/25 16:07	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/23/25 14:37	01/27/25 16:07	1
Isophorone	ND		10	5.2	ug/L		01/23/25 14:37	01/27/25 16:07	1
Nitrobenzene	ND		10	4.7	ug/L		01/23/25 14:37	01/27/25 16:07	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: MB 400-697296/1-A

Matrix: Water

Analysis Batch: 697582

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		10	4.6	ug/L		01/23/25 14:37	01/27/25 16:07	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/23/25 14:37	01/27/25 16:07	1
Pyridine	ND		10	10	ug/L		01/23/25 14:37	01/27/25 16:07	1
Quinoline	ND		10	2.4	ug/L		01/23/25 14:37	01/27/25 16:07	1

Lab Sample ID: LCS 400-697296/2-A

Matrix: Water

Analysis Batch: 697370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	120	44.4		ug/L		37	10 - 127
Benzoic acid	493	62.9	*-	ug/L		13	19 - 126
Benzyl alcohol	120	56.1		ug/L		47	17 - 109
Bis(2-chloroethoxy)methane	120	49.8		ug/L		42	24 - 125
Bis(2-chloroethyl)ether	120	61.7		ug/L		51	10 - 121
bis (2-chloroisopropyl) ether	120	63.9		ug/L		53	14 - 123
Bis(2-ethylhexyl) phthalate	120	79.3		ug/L		66	16 - 150
4-Bromophenyl phenyl ether	120	99.0		ug/L		82	17 - 150
Butyl benzyl phthalate	120	69.3		ug/L		58	21 - 150
4-Chloroaniline	120	52.0		ug/L		43	10 - 124
4-Chloro-3-methylphenol	120	63.4		ug/L		53	37 - 131
2-Chloronaphthalene	120	75.2		ug/L		63	24 - 132
2-Chlorophenol	120	82.4		ug/L		69	27 - 124
4-Chlorophenyl phenyl ether	120	81.3		ug/L		68	27 - 147
Dibenz[a,h]acridine	59.9	40.4		ug/L		67	40 - 140
Dibenzofuran	120	78.5		ug/L		65	30 - 135
3,3'-Dichlorobenzidine	160	198		ug/L		124	10 - 150
2,4-Dichlorophenol	120	69.9		ug/L		58	33 - 132
Diethyl phthalate	120	112		ug/L		93	37 - 145
2,4-Dimethylphenol	120	65.8		ug/L		55	38 - 132
Dimethyl phthalate	120	74.4		ug/L		62	32 - 137
Di-n-butyl phthalate	120	89.7		ug/L		75	27 - 150
4,6-Dinitro-ortho-cresol	240	220		ug/L		92	14 - 150
2,4-Dinitrophenol	240	278		ug/L		116	15 - 150
2,4-Dinitrotoluene	120	67.6		ug/L		56	35 - 136
2,6-Dinitrotoluene	120	67.2		ug/L		56	29 - 140
Di-n-octyl phthalate	120	68.0		ug/L		57	26 - 150
1,4-Dioxane	120	27.7		ug/L		23	10 - 87
1,2-Diphenylhydrazine (as Azobenzene)	120	75.3		ug/L		63	23 - 138
Hexachlorobenzene	120	147		ug/L		122	10 - 150
Hexachlorocyclopentadiene	120	65.1		ug/L		54	10 - 124
Hexachloroethane	120	60.2		ug/L		50	10 - 127
Indene	120	77.7		ug/L		65	18 - 150
Isophorone	120	52.9		ug/L		44	28 - 127
2-Methylphenol	120	77.3		ug/L		64	34 - 124
3 & 4 Methylphenol	120	93.0		ug/L		78	32 - 122
2-Nitroaniline	120	73.4		ug/L		61	24 - 139
3-Nitroaniline	120	81.0		ug/L		67	10 - 128

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: LCS 400-697296/2-A

Matrix: Water

Analysis Batch: 697370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroaniline	120	116		ug/L		97	28 - 118
Nitrobenzene	120	47.1		ug/L		39	29 - 120
2-Nitrophenol	120	62.4		ug/L		52	25 - 148
4-Nitrophenol	240	172		ug/L		71	12 - 129
N-Nitrosodimethylamine	120	40.4		ug/L		34	10 - 115
N-Nitrosodi-n-propylamine	120	85.3		ug/L		71	24 - 142
N-Nitrosodiphenylamine	119	82.2		ug/L		69	29 - 138
Pentachlorophenol	240	240		ug/L		100	19 - 150
Phenol	120	34.1		ug/L		28	11 - 95
Pyridine	240	25.2		ug/L		10	10 - 82
Quinoline	59.9	20.9		ug/L		35	10 - 141
2,4,5-Trichlorophenol	120	88.4		ug/L		74	30 - 144
2,4,6-Trichlorophenol	120	83.6		ug/L		70	27 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	72		21 - 114
2-Fluorophenol	29		10 - 105
Nitrobenzene-d5	45		16 - 127
Phenol-d5	27		10 - 129
Terphenyl-d14	67		13 - 150
2,4,6-Tribromophenol	64		10 - 150

Lab Sample ID: LCS 400-697296/5-A

Matrix: Water

Analysis Batch: 697370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzenethiol	120	57.0		ug/L		48	10 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	60		21 - 114
2-Fluorophenol	30		10 - 105
Nitrobenzene-d5	52		16 - 127
Phenol-d5	27		10 - 129
Terphenyl-d14	83		13 - 150
2,4,6-Tribromophenol	48		10 - 150

Lab Sample ID: LCSD 400-697296/6-A

Matrix: Water

Analysis Batch: 697370

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzenethiol	120	47.1		ug/L		39	10 - 140	19	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	56		21 - 114
2-Fluorophenol	29		10 - 105
Nitrobenzene-d5	46		16 - 127

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: LCSD 400-697296/6-A

Matrix: Water

Analysis Batch: 697370

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697296

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Phenol-d5	25		10 - 129
Terphenyl-d14	74		13 - 150
2,4,6-Tribromophenol	50		10 - 150

Lab Sample ID: 400-269539-5 MS

Matrix: Water

Analysis Batch: 697370

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	ND	F1	117	25.6	F1	ug/L		22	50 - 150
Benzoic acid	ND	*- F1	481	84.8	F1	ug/L		18	50 - 150
Benzyl alcohol	ND	F1	117	56.0	F1	ug/L		48	50 - 150
Bis(2-chloroethoxy)methane	ND	F1	117	45.8	F1	ug/L		39	50 - 150
Bis(2-chloroethyl)ether	ND	F1	117	57.7	F1	ug/L		49	50 - 150
bis (2-chloroisopropyl) ether	ND		117	58.8		ug/L		50	50 - 150
Bis(2-ethylhexyl) phthalate	ND		117	73.4		ug/L		63	50 - 150
4-Bromophenyl phenyl ether	ND		117	87.7		ug/L		75	50 - 150
Butyl benzyl phthalate	ND		117	65.2		ug/L		56	50 - 150
4-Chloroaniline	ND	F1	117	43.6	F1	ug/L		37	50 - 150
4-Chloro-3-methylphenol	ND	F1	117	57.6	F1	ug/L		49	50 - 150
2-Chloronaphthalene	ND		117	69.5		ug/L		59	50 - 150
2-Chlorophenol	ND		117	72.3		ug/L		62	50 - 150
4-Chlorophenyl phenyl ether	ND		117	73.2		ug/L		62	50 - 150
Dibenz[a,h]acridine	ND		58.5	38.4		ug/L		66	50 - 150
Dibenzofuran	ND		117	69.6		ug/L		59	50 - 150
3,3'-Dichlorobenzidine	ND		156	176		ug/L		113	50 - 150
2,4-Dichlorophenol	ND		117	62.4		ug/L		53	50 - 150
Diethyl phthalate	ND		117	98.1		ug/L		84	50 - 150
2,4-Dimethylphenol	ND		117	58.4		ug/L		50	50 - 150
Dimethyl phthalate	ND		117	67.5		ug/L		58	50 - 150
Di-n-butyl phthalate	ND		117	86.7		ug/L		74	50 - 150
4,6-Dinitro-ortho-cresol	ND		235	205		ug/L		88	50 - 150
2,4-Dinitrophenol	ND		235	230		ug/L		98	50 - 150
2,4-Dinitrotoluene	ND		117	60.7		ug/L		52	50 - 150
2,6-Dinitrotoluene	ND		117	61.3		ug/L		52	50 - 150
Di-n-octyl phthalate	ND		117	64.3		ug/L		55	50 - 150
1,4-Dioxane	ND	F1	117	24.2	F1	ug/L		21	50 - 150
1,2-Diphenylhydrazine (as Azobenzene)	ND		117	69.8		ug/L		60	50 - 150
Hexachlorobenzene	ND		117	134		ug/L		114	50 - 150
Hexachlorocyclopentadiene	ND		117	67.1		ug/L		57	50 - 150
Hexachloroethane	ND		117	62.2		ug/L		53	50 - 150
Indene	ND		117	69.4		ug/L		59	50 - 150
Isophorone	ND	F1	117	49.4	F1	ug/L		42	50 - 150
2-Methylphenol	ND		117	72.5		ug/L		62	50 - 150
3 & 4 Methylphenol	ND		117	84.9		ug/L		72	50 - 150
2-Nitroaniline	ND		117	65.7		ug/L		56	50 - 150
3-Nitroaniline	ND		117	72.2		ug/L		62	50 - 150
4-Nitroaniline	ND		117	98.5		ug/L		84	50 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: 400-269539-5 MS

Matrix: Water

Analysis Batch: 697370

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrobenzene	ND	F1	117	45.4	F1	ug/L		39	50 - 150
2-Nitrophenol	ND	F1	117	58.1	F1	ug/L		49	50 - 150
4-Nitrophenol	ND		235	167		ug/L		71	50 - 150
N-Nitrosodimethylamine	ND	F1	117	42.8	F1	ug/L		36	50 - 150
N-Nitrosodi-n-propylamine	ND		117	76.8		ug/L		65	50 - 150
N-Nitrosodiphenylamine	ND		116	75.3		ug/L		65	50 - 150
Pentachlorophenol	ND		235	212		ug/L		91	50 - 150
Phenol	ND	F1	117	42.1	F1	ug/L		36	50 - 150
Pyridine	ND	F1	235	ND	F1	ug/L		0	50 - 150
Quinoline	ND	F1	58.5	18.0	F1	ug/L		31	50 - 150
2,4,5-Trichlorophenol	ND		117	78.3		ug/L		67	50 - 150
2,4,6-Trichlorophenol	ND		117	74.8		ug/L		64	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	65		21 - 114
2-Fluorophenol	30		10 - 105
Nitrobenzene-d5	43		16 - 127
Phenol-d5	30		10 - 129
Terphenyl-d14	58		13 - 150
2,4,6-Tribromophenol	56		10 - 150

Lab Sample ID: 400-269539-5 MSD

Matrix: Water

Analysis Batch: 697370

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	ND	F1	122	31.5	F1	ug/L		26	50 - 150	21	40
Benzoic acid	ND	*- F1	501	100	F1	ug/L		20	50 - 150	16	40
Benzyl alcohol	ND	F1	122	67.4		ug/L		55	50 - 150	18	40
Bis(2-chloroethoxy)methane	ND	F1	122	54.4	F1	ug/L		45	50 - 150	17	40
Bis(2-chloroethyl)ether	ND	F1	122	69.0		ug/L		56	50 - 150	18	40
bis (2-chloroisopropyl) ether	ND		122	72.0		ug/L		59	50 - 150	20	40
Bis(2-ethylhexyl) phthalate	ND		122	94.7		ug/L		78	50 - 150	25	40
4-Bromophenyl phenyl ether	ND		122	116		ug/L		95	50 - 150	28	40
Butyl benzyl phthalate	ND		122	85.8		ug/L		70	50 - 150	27	40
4-Chloroaniline	ND	F1	122	47.2	F1	ug/L		39	50 - 150	8	40
4-Chloro-3-methylphenol	ND	F1	122	66.7		ug/L		55	50 - 150	15	40
2-Chloronaphthalene	ND		122	87.1		ug/L		71	50 - 150	23	40
2-Chlorophenol	ND		122	88.5		ug/L		72	50 - 150	20	40
4-Chlorophenyl phenyl ether	ND		122	89.7		ug/L		73	50 - 150	20	40
Dibenz[a,h]acridine	ND		60.9	54.5		ug/L		89	50 - 150	35	40
Dibenzofuran	ND		122	83.9		ug/L		69	50 - 150	19	40
3,3'-Dichlorobenzidine	ND		163	202		ug/L		124	50 - 150	13	40
2,4-Dichlorophenol	ND		122	73.7		ug/L		60	50 - 150	17	40
Diethyl phthalate	ND		122	115		ug/L		94	50 - 150	16	40
2,4-Dimethylphenol	ND		122	69.8		ug/L		57	50 - 150	18	40
Dimethyl phthalate	ND		122	84.2		ug/L		69	50 - 150	22	40
Di-n-butyl phthalate	ND		122	103		ug/L		85	50 - 150	18	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: 400-269539-5 MSD

Matrix: Water

Analysis Batch: 697370

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-ortho-cresol	ND		244	242		ug/L		99	50 - 150	16	40
2,4-Dinitrophenol	ND		244	250		ug/L		102	50 - 150	9	40
2,4-Dinitrotoluene	ND		122	72.6		ug/L		59	50 - 150	18	40
2,6-Dinitrotoluene	ND		122	73.7		ug/L		60	50 - 150	18	40
Di-n-octyl phthalate	ND		122	81.7		ug/L		67	50 - 150	24	40
1,4-Dioxane	ND	F1	122	30.8	F1	ug/L		25	50 - 150	24	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		122	94.3		ug/L		77	50 - 150	30	40
Hexachlorobenzene	ND		122	169		ug/L		138	50 - 150	23	40
Hexachlorocyclopentadiene	ND		122	82.7		ug/L		68	50 - 150	21	40
Hexachloroethane	ND		122	76.9		ug/L		63	50 - 150	21	40
Indene	ND		122	84.9		ug/L		69	50 - 150	20	40
Isophorone	ND	F1	122	57.9	F1	ug/L		47	50 - 150	16	40
2-Methylphenol	ND		122	86.8		ug/L		71	50 - 150	18	40
3 & 4 Methylphenol	ND		122	102		ug/L		83	50 - 150	18	40
2-Nitroaniline	ND		122	82.5		ug/L		68	50 - 150	23	40
3-Nitroaniline	ND		122	81.4		ug/L		67	50 - 150	12	40
4-Nitroaniline	ND		122	102		ug/L		84	50 - 150	4	40
Nitrobenzene	ND	F1	122	53.2	F1	ug/L		44	50 - 150	16	40
2-Nitrophenol	ND	F1	122	68.1		ug/L		56	50 - 150	16	40
4-Nitrophenol	ND		244	186		ug/L		76	50 - 150	11	40
N-Nitrosodimethylamine	ND	F1	122	45.5	F1	ug/L		37	50 - 150	6	40
N-Nitrosodi-n-propylamine	ND		122	94.5		ug/L		77	50 - 150	21	40
N-Nitrosodiphenylamine	ND		121	97.7		ug/L		81	50 - 150	26	40
Pentachlorophenol	ND		244	242		ug/L		99	50 - 150	13	40
Phenol	ND	F1	122	51.1	F1	ug/L		42	50 - 150	19	40
Pyridine	ND	F1	244	15.6	F1	ug/L		6	50 - 150	NC	40
Quinoline	ND	F1	60.9	21.1	F1	ug/L		35	50 - 150	16	40
2,4,5-Trichlorophenol	ND		122	95.8		ug/L		78	50 - 150	20	40
2,4,6-Trichlorophenol	ND		122	93.1		ug/L		76	50 - 150	22	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	80		21 - 114
2-Fluorophenol	33		10 - 105
Nitrobenzene-d5	48		16 - 127
Phenol-d5	35		10 - 129
Terphenyl-d14	74		13 - 150
2,4,6-Tribromophenol	63		10 - 150

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

Lab Sample ID: MB 400-697282/1-A

Matrix: Water

Analysis Batch: 697368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.085	ug/L		01/23/25 13:21	01/24/25 13:36	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/23/25 13:21	01/24/25 13:36	1
Anthracene	ND		0.20	0.073	ug/L		01/23/25 13:21	01/24/25 13:36	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: MB 400-697282/1-A

Matrix: Water

Analysis Batch: 697368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 13:36	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/23/25 13:21	01/24/25 13:36	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/23/25 13:21	01/24/25 13:36	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/23/25 13:21	01/24/25 13:36	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 13:36	1
Chrysene	ND		0.20	0.039	ug/L		01/23/25 13:21	01/24/25 13:36	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 13:36	1
Fluoranthene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 13:36	1
Fluorene	ND		0.20	0.087	ug/L		01/23/25 13:21	01/24/25 13:36	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/23/25 13:21	01/24/25 13:36	1
1-Methylnaphthalene	ND		0.20	0.066	ug/L		01/23/25 13:21	01/24/25 13:36	1
2-Methylnaphthalene	ND		0.20	0.077	ug/L		01/23/25 13:21	01/24/25 13:36	1
Phenanthrene	ND		0.20	0.044	ug/L		01/23/25 13:21	01/24/25 13:36	1
Pyrene	ND		0.20	0.040	ug/L		01/23/25 13:21	01/24/25 13:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	107		50 - 150	01/23/25 13:21	01/24/25 13:36	1
Nitrobenzene-d5	115		50 - 150	01/23/25 13:21	01/24/25 13:36	1
Terphenyl-d14	113		50 - 150	01/23/25 13:21	01/24/25 13:36	1

Lab Sample ID: LCS 400-697282/2-A

Matrix: Water

Analysis Batch: 697368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	2.77		ug/L		83	50 - 150
Acenaphthylene	3.34	2.97		ug/L		89	50 - 150
Anthracene	3.34	3.08		ug/L		92	50 - 150
Benzo[a]anthracene	3.34	3.18		ug/L		95	50 - 150
Benzo[a]pyrene	3.34	3.04		ug/L		91	50 - 150
Benzo[b]fluoranthene	3.34	3.03		ug/L		91	50 - 150
Benzo[g,h,i]perylene	3.34	3.03		ug/L		91	50 - 150
Benzo[k]fluoranthene	3.34	3.04		ug/L		91	50 - 150
Chrysene	3.34	3.14		ug/L		94	50 - 150
Dibenz(a,h)anthracene	3.34	2.98		ug/L		89	50 - 150
Fluoranthene	3.34	3.13		ug/L		94	50 - 150
Fluorene	3.34	3.07		ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.03		ug/L		91	50 - 150
1-Methylnaphthalene	3.34	2.28		ug/L		69	50 - 150
2-Methylnaphthalene	3.34	2.21		ug/L		66	50 - 150
Phenanthrene	3.34	3.00		ug/L		90	50 - 150
Pyrene	3.34	3.17		ug/L		95	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	108		50 - 150
Nitrobenzene-d5	116		50 - 150
Terphenyl-d14	113		50 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: 400-269539-5 MS

Matrix: Water

Analysis Batch: 697368

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	ND		3.31	3.39		ug/L		102	50 - 150
Acenaphthylene	ND		3.31	3.42		ug/L		103	50 - 150
Anthracene	ND		3.31	3.55		ug/L		107	50 - 150
Benzo[a]anthracene	ND		3.31	3.47		ug/L		105	50 - 150
Benzo[a]pyrene	ND		3.31	3.32		ug/L		100	50 - 150
Benzo[b]fluoranthene	ND		3.31	3.30		ug/L		100	50 - 150
Benzo[g,h,i]perylene	ND		3.31	3.28		ug/L		99	50 - 150
Benzo[k]fluoranthene	ND		3.31	3.31		ug/L		100	50 - 150
Chrysene	ND		3.31	3.42		ug/L		103	50 - 150
Dibenz(a,h)anthracene	ND		3.31	3.29		ug/L		99	50 - 150
Fluoranthene	ND		3.31	3.54		ug/L		107	50 - 150
Fluorene	ND		3.31	3.73		ug/L		113	50 - 150
Indeno[1,2,3-cd]pyrene	ND		3.31	3.35		ug/L		101	50 - 150
1-Methylnaphthalene	ND		3.31	3.25		ug/L		98	50 - 150
2-Methylnaphthalene	ND		3.31	3.16		ug/L		95	50 - 150
Phenanthrene	ND		3.31	3.50		ug/L		106	50 - 150
Pyrene	ND		3.31	3.63		ug/L		110	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	105		50 - 150
Nitrobenzene-d5	117		50 - 150
Terphenyl-d14	110		50 - 150

Lab Sample ID: 400-269539-5 MSD

Matrix: Water

Analysis Batch: 697368

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Acenaphthene	ND		3.29	3.42		ug/L		104	50 - 150	1	40
Acenaphthylene	ND		3.29	3.43		ug/L		104	50 - 150	0	40
Anthracene	ND		3.29	3.56		ug/L		108	50 - 150	0	40
Benzo[a]anthracene	ND		3.29	3.54		ug/L		108	50 - 150	2	40
Benzo[a]pyrene	ND		3.29	3.35		ug/L		102	50 - 150	1	40
Benzo[b]fluoranthene	ND		3.29	3.43		ug/L		104	50 - 150	4	40
Benzo[g,h,i]perylene	ND		3.29	3.21		ug/L		98	50 - 150	2	40
Benzo[k]fluoranthene	ND		3.29	3.32		ug/L		101	50 - 150	0	40
Chrysene	ND		3.29	3.49		ug/L		106	50 - 150	2	40
Dibenz(a,h)anthracene	ND		3.29	3.19		ug/L		97	50 - 150	3	40
Fluoranthene	ND		3.29	3.48		ug/L		106	50 - 150	2	40
Fluorene	ND		3.29	3.73		ug/L		113	50 - 150	0	40
Indeno[1,2,3-cd]pyrene	ND		3.29	3.16		ug/L		96	50 - 150	6	40
1-Methylnaphthalene	ND		3.29	3.30		ug/L		100	50 - 150	1	40
2-Methylnaphthalene	ND		3.29	3.18		ug/L		97	50 - 150	1	40
Phenanthrene	ND		3.29	3.46		ug/L		105	50 - 150	1	40
Pyrene	ND		3.29	3.56		ug/L		108	50 - 150	2	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	105		50 - 150

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

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

Lab Sample ID: 400-269539-5 MSD

Matrix: Water

Analysis Batch: 697368

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697282

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	116		50 - 150
Terphenyl-d14	115		50 - 150

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-697273/1-A

Matrix: Water

Analysis Batch: 697292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/23/25 12:53	01/23/25 15:39	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/23/25 12:53	01/23/25 15:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	118		51 - 149				01/23/25 12:53	01/23/25 15:39	1

Lab Sample ID: LCS 400-697273/2-A

Matrix: Water

Analysis Batch: 697292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.101	0.0885		ug/L		88	60 - 140
1,2-Dibromoethane	0.100	0.128		ug/L		128	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	97		51 - 149				

Lab Sample ID: LCSD 400-697273/3-A

Matrix: Water

Analysis Batch: 697292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697273

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.101	0.119		ug/L		118	60 - 140	29	30
1,2-Dibromoethane	0.100	0.129		ug/L		128	60 - 140	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	118		51 - 149						

Lab Sample ID: 400-269539-5 MS

Matrix: Water

Analysis Batch: 697292

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	ND	*+	0.113	0.0896		ug/L		79	10 - 150
1,2-Dibromoethane	ND		0.113	0.107		ug/L		95	39 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269539-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: 400-269539-5 MS

Matrix: Water

Analysis Batch: 697292

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697273

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	63		51 - 149

Lab Sample ID: 400-269539-5 MSD

Matrix: Water

Analysis Batch: 697292

Client Sample ID: MW16-ROX-011625

Prep Type: Total/NA

Prep Batch: 697273

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dibromo-3-Chloropropane	ND	*+	0.106	0.0829		ug/L		78	10 - 150	8	20
1,2-Dibromoethane	ND		0.106	0.109		ug/L		102	39 - 150	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	70		51 - 149

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-269539-1

Login Number: 269539

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Darrien

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	2.4°C. 2.1°C IR11
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-269539-1

Project/Site: ROXANA QUARTERLY GW

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269555-1

Site Name: Roxana

Prepared By and Date: Andrei Niculau 2/28/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 03/14/2025

Stage 2A Validation																																																																	
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																																																												
		Pass	Fail ¹	N/A																																																													
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.																																																												
Holding Times	Analyses were performed within holding time.	X																																																															
Surrogate	Surrogate recoveries met acceptance criteria.	X																																																															
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.			X																																																													
Matrix Spike	MS recoveries met acceptance criteria.		X																																																														
<table border="1"> <thead> <tr> <th>MS/MSD ID</th><th>Parameter</th><th>Analyte</th><th>MS/MSD Recovery (%)</th><th>RPD</th><th>MS/MSD/ RPD Criteria</th></tr> </thead> <tbody> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>VOCs</td><td>Acetone</td><td>40/40</td><td>1</td><td>43-150/30</td></tr> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>VOCs</td><td>Chloroethane</td><td>58/48</td><td>19</td><td>50-150/30</td></tr> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>VOCs</td><td>2-Chloroethyl vinyl ether</td><td>0/0</td><td>NC</td><td>10-150/50</td></tr> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>SVOCs</td><td>Aniline</td><td>29/24</td><td>16</td><td>50-150/40</td></tr> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>SVOCs</td><td>Benzoic acid</td><td>41/38</td><td>7</td><td>50-150/40</td></tr> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>SVOCs</td><td>3,3'-Dichlorobenzidine</td><td>147/155</td><td>7</td><td>50-150/40</td></tr> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>SVOCs</td><td>1,4-Dioxane</td><td>35/34</td><td>3</td><td>50-150/40</td></tr> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>SVOCs</td><td>N-Nitrosodimethylamine</td><td>38/38</td><td>0</td><td>50-150/40</td></tr> <tr> <td>MW9-ROX-011725 MS/MSD</td><td>SVOCs</td><td>Pyridine</td><td>14/14</td><td>6</td><td>50-150/40</td></tr> </tbody> </table>						MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria	MW9-ROX-011725 MS/MSD	VOCs	Acetone	40/40	1	43-150/30	MW9-ROX-011725 MS/MSD	VOCs	Chloroethane	58/48	19	50-150/30	MW9-ROX-011725 MS/MSD	VOCs	2-Chloroethyl vinyl ether	0/0	NC	10-150/50	MW9-ROX-011725 MS/MSD	SVOCs	Aniline	29/24	16	50-150/40	MW9-ROX-011725 MS/MSD	SVOCs	Benzoic acid	41/38	7	50-150/40	MW9-ROX-011725 MS/MSD	SVOCs	3,3'-Dichlorobenzidine	147/155	7	50-150/40	MW9-ROX-011725 MS/MSD	SVOCs	1,4-Dioxane	35/34	3	50-150/40	MW9-ROX-011725 MS/MSD	SVOCs	N-Nitrosodimethylamine	38/38	0	50-150/40	MW9-ROX-011725 MS/MSD	SVOCs	Pyridine	14/14	6	50-150/40
MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria																																																												
MW9-ROX-011725 MS/MSD	VOCs	Acetone	40/40	1	43-150/30																																																												
MW9-ROX-011725 MS/MSD	VOCs	Chloroethane	58/48	19	50-150/30																																																												
MW9-ROX-011725 MS/MSD	VOCs	2-Chloroethyl vinyl ether	0/0	NC	10-150/50																																																												
MW9-ROX-011725 MS/MSD	SVOCs	Aniline	29/24	16	50-150/40																																																												
MW9-ROX-011725 MS/MSD	SVOCs	Benzoic acid	41/38	7	50-150/40																																																												
MW9-ROX-011725 MS/MSD	SVOCs	3,3'-Dichlorobenzidine	147/155	7	50-150/40																																																												
MW9-ROX-011725 MS/MSD	SVOCs	1,4-Dioxane	35/34	3	50-150/40																																																												
MW9-ROX-011725 MS/MSD	SVOCs	N-Nitrosodimethylamine	38/38	0	50-150/40																																																												
MW9-ROX-011725 MS/MSD	SVOCs	Pyridine	14/14	6	50-150/40																																																												

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation																																																
Item Reviewed	Acceptable Criteria		Quality Condition			Comments																																										
			Pass	Fail ¹	N/A																																											
MW9-ROX-011725 MS/MSD	SVOCs	Quinoline		45/53	16	50-150/40																																										
Analytical data that required qualification based on MS/MSD data are referenced below. Analytical data reported as non-detect and associated with MS/MSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with MS/MSD RPD alone outside evaluation criteria did not require qualification. Method 8260D (VOCs) Professional judgement was used to qualify; however, not reject 2-chloroethyl vinyl ether due to the acid reactive nature of 2-chloroethyl vinyl ether. Acetone, chloroethane, and 2-chloroethyl vinyl ether in sample MW9-ROX-011725 were qualified as estimated (UJ). Method 8270E (SVOCs) Aniline, benzoic acid, 3,3'-dichlorobenzidine, 1,4-dioxane, n-nitrosodimethylamine, and quinoline in sample MW9-ROX-011725 were qualified as estimated (UJ). Pyridine in associated sample MW9-ROX-011725 was qualified due to LCS/LCSD recoveries outside of evaluation criteria. No further qualification is required.																																																
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.		X																																													
<table><tr><th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr><tr><td>LCS 400-697366/1002</td><td>VOCs</td><td>2-Chloroethyl vinyl ether</td><td>175</td><td>NC</td><td>10-150</td></tr><tr><td>LCS 400-697366/1002</td><td>VOCs</td><td>Chloromethane</td><td>150</td><td>NC</td><td>58-137</td></tr><tr><td>LCS 400-697366/1002</td><td>VOCs</td><td>Vinyl acetate</td><td>160</td><td>NC</td><td>26-150</td></tr><tr><td>LCS 400-697366/1002</td><td>VOCs</td><td>Vinyl chloride</td><td>145</td><td>NC</td><td>59-136</td></tr><tr><td>LCS/LCSD 400-697423/2-A/3-A</td><td>SVOCs</td><td>3,3'-Dichlorobenzidine</td><td>147/163</td><td>10</td><td>10-150/40</td></tr><tr><td>LCS/LCSD 400-697423/2-A/3-A</td><td>SVOCs</td><td>Pyridine</td><td>8/10</td><td>20</td><td>10-82/40</td></tr></table> Analytical data that required qualification based on LCS/LCSD data are referenced below. Analytical data reported as non-detect and associated with LCS/LCSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPD alone outside evaluation criteria did not require qualification. Trip blanks are quality control samples that do not require qualification. Method 8270E (SVOCs) Professional judgment was used to qualify, however not reject, data associated with pyridine below evaluation criteria; pyridine has been identified as a poor-performing analyte under Method 8270. Pyridine in samples MW1-ROX-011725, P54-ROX-011725, MW24-ROX-011725, MW9-ROX-011725, MW10-ROX-011725, MW28-ROX-011725, and MW27-ROX-011725 was qualified as estimated (UJ).							LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS 400-697366/1002	VOCs	2-Chloroethyl vinyl ether	175	NC	10-150	LCS 400-697366/1002	VOCs	Chloromethane	150	NC	58-137	LCS 400-697366/1002	VOCs	Vinyl acetate	160	NC	26-150	LCS 400-697366/1002	VOCs	Vinyl chloride	145	NC	59-136	LCS/LCSD 400-697423/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	147/163	10	10-150/40	LCS/LCSD 400-697423/2-A/3-A	SVOCs	Pyridine	8/10	20	10-82/40
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria																																											
LCS 400-697366/1002	VOCs	2-Chloroethyl vinyl ether	175	NC	10-150																																											
LCS 400-697366/1002	VOCs	Chloromethane	150	NC	58-137																																											
LCS 400-697366/1002	VOCs	Vinyl acetate	160	NC	26-150																																											
LCS 400-697366/1002	VOCs	Vinyl chloride	145	NC	59-136																																											
LCS/LCSD 400-697423/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	147/163	10	10-150/40																																											
LCS/LCSD 400-697423/2-A/3-A	SVOCs	Pyridine	8/10	20	10-82/40																																											

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X			
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X			
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			
Usability	No results qualified as unusable.	X			
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method		X		
Analytical data reported as non-detect and associated with ICV/CCV %D recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Method 8260D (VOCs) The initial calibration verification (ICV) for chloroethane was outside evaluation criteria, biased low. The associated results for samples MW1-ROX-011725, P54-ROX-011725, MW24-ROX-011725, MW10-ROX-011725, MW28-ROX-011725, and MW27-ROX-011725 were qualified as estimated (UJ). Chloroethane in associated sample MW9-ROX-011725 was qualified due to MS/MSD recoveries outside of evaluation criteria. No further qualification is required. Method 8270E (SVOC) The continuous calibration verification (CCV) for aniline and quinoline were outside evaluation criteria, biased low. The associated results for samples MW1-ROX-011725, P54-ROX-011725, MW24-ROX-011725, MW10-ROX-011725, MW28-ROX-011725 and MW27-ROX-011725 were qualified as estimated (UJ). Aniline and quinoline in associated sample MW9-ROX-011725 were qualified due to MS/MSD recoveries outside of evaluation criteria. No further qualification is required.					
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at			X	

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	concentrations greater than those in the ICSs.				
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.



ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 1/28/2025 6:58:44 AM

JOB DESCRIPTION

ROXANA QUARTERLY GW

JOB NUMBER

400-269555-1

Reviewed 2/27/2025
AN

Eurofins Pensacola

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 Southeast, LLC Project Manager.

Authorization



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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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Job Narrative 400-269555-1

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 1/18/2025 11:29 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0°C and 3.0°C.

GC/MS VOA

Method 8260D: The initial calibration verification (ICV) analyzed in batch 400-696561 was outside method criteria for the following analyte(s): Chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-697366 recovered above the upper control limit for 2-Chloroethyl vinyl ether, Acrolein, Chloromethane, Hexachlorobutadiene, Trichlorofluoromethane, Vinyl acetate and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 400-697366 recovered outside control limits for the following analytes: 2-Chloroethyl vinyl ether, Chloromethane, Vinyl acetate and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-697366 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-697366 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

Method 8260D: The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for analytical batch 400-697366 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

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

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-697502 recovered above the upper control limit for 4,6-Dinitro-ortho-cresol, 4-Bromophenyl phenyl ether and Hexachlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The laboratory control sample (LCS) for preparation batch 400-697423 and analytical batch 400-697502 recovered outside control limits for the following analyte(s): Pyridine. Pyridine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E: The laboratory control sample duplicate (LCSD) for preparation batch 400-697423 and analytical batch 400-697502 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-697423 and analytical batch 400-697502 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Job ID: 400-269555-1 (Continued)

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interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-697502 recovered outside acceptance criteria, low biased, for Quinoline and Aniline. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

GC Semi VOA

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

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Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269555-1	TB-ROX-011725-8260-A	Water	01/17/25 00:00	01/18/25 11:29
400-269555-2	TB-ROX-011725-8011-A	Water	01/17/25 00:00	01/18/25 11:29
400-269555-3	MW1-ROX-011725	Water	01/17/25 10:00	01/18/25 11:29
400-269555-4	P54-ROX-011725	Water	01/17/25 11:25	01/18/25 11:29
400-269555-5	MW24-ROX-011725	Water	01/17/25 13:10	01/18/25 11:29
400-269555-6	TB-ROX-011725-8260-B	Water	01/17/25 00:00	01/18/25 11:29
400-269555-7	TB-ROX-011725-8011-B	Water	01/17/25 00:00	01/18/25 11:29
400-269555-8	MW9-ROX-011725	Water	01/17/25 09:40	01/18/25 11:29
400-269555-9	MW10-ROX-011725	Water	01/17/25 11:00	01/18/25 11:29
400-269555-10	MW28-ROX-011725	Water	01/17/25 13:00	01/18/25 11:29
400-269555-11	MW27-ROX-011725	Water	01/17/25 14:00	01/18/25 11:29

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: TB-ROX-011725-8260-A

Lab Sample ID: 400-269555-1

No Detections.

Client Sample ID: TB-ROX-011725-8011-A

Lab Sample ID: 400-269555-2

No Detections.

Client Sample ID: MW1-ROX-011725

Lab Sample ID: 400-269555-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.1		1.0	0.50	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	1.0		1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: P54-ROX-011725

Lab Sample ID: 400-269555-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.5		1.0	0.50	ug/L	1		8260D	Total/NA

Client Sample ID: MW24-ROX-011725

Lab Sample ID: 400-269555-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		1.0	0.50	ug/L	1		8260D	Total/NA

Client Sample ID: TB-ROX-011725-8260-B

Lab Sample ID: 400-269555-6

No Detections.

Client Sample ID: TB-ROX-011725-8011-B

Lab Sample ID: 400-269555-7

No Detections.

Client Sample ID: MW9-ROX-011725

Lab Sample ID: 400-269555-8

No Detections.

Client Sample ID: MW10-ROX-011725

Lab Sample ID: 400-269555-9

No Detections.

Client Sample ID: MW28-ROX-011725

Lab Sample ID: 400-269555-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.28	J	1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: MW27-ROX-011725

Lab Sample ID: 400-269555-11

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: TB-ROX-011725-8260-A

Lab Sample ID: 400-269555-1

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 18:39	1
Acrolein	ND		20	3.3	ug/L			01/24/25 18:39	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 18:39	1
Benzene	ND		1.0	0.50	ug/L			01/24/25 18:39	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 18:39	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 18:39	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 18:39	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 18:39	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 18:39	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 18:39	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 18:39	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 18:39	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 18:39	1
Chloroethane	ND		1.0	0.76	ug/L			01/24/25 18:39	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			01/24/25 18:39	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 18:39	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 18:39	1
Chloromethane	ND	*+	1.0	0.40	ug/L			01/24/25 18:39	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 18:39	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 18:39	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 18:39	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 18:39	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 18:39	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 18:39	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 18:39	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 18:39	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 18:39	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 18:39	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 18:39	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 18:39	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 18:39	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 18:39	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 18:39	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 18:39	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 18:39	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 18:39	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 18:39	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 18:39	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 18:39	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/24/25 18:39	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 18:39	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 18:39	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 18:39	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 18:39	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 18:39	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 18:39	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 18:39	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 18:39	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: TB-ROX-011725-8260-A

Lab Sample ID: 400-269555-1

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 18:39	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 18:39	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 18:39	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 18:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 18:39	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 18:39	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 18:39	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 18:39	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 18:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 18:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 18:39	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 18:39	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 18:39	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 18:39	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 18:39	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 18:39	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 18:39	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 18:39	1
Vinyl acetate	ND	*+	25	0.93	ug/L			01/24/25 18:39	1
Vinyl chloride	ND	*+	1.0	0.50	ug/L			01/24/25 18:39	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		56 - 136					01/24/25 18:39	1
Dibromofluoromethane	107		79 - 130					01/24/25 18:39	1
Toluene-d8 (Surr)	96		64 - 132					01/24/25 18:39	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: TB-ROX-011725-8011-A

Lab Sample ID: 400-269555-2

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/25/25 10:53	01/25/25 14:40	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/25/25 10:53	01/25/25 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		51 - 149				01/25/25 10:53	01/25/25 14:40	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW1-ROX-011725

Lab Sample ID: 400-269555-3

Date Collected: 01/17/25 10:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 19:23	1
Acrolein	ND		20	3.3	ug/L			01/24/25 19:23	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 19:23	1
Benzene	4.1		1.0	0.50	ug/L			01/24/25 19:23	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 19:23	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 19:23	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 19:23	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 19:23	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 19:23	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 19:23	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 19:23	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 19:23	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 19:23	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			01/24/25 19:23	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			01/24/25 19:23	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 19:23	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 19:23	1
Chloromethane	ND	*+	1.0	0.40	ug/L			01/24/25 19:23	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 19:23	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 19:23	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 19:23	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 19:23	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 19:23	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 19:23	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 19:23	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 19:23	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 19:23	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 19:23	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:23	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:23	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:23	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 19:23	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 19:23	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 19:23	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 19:23	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 19:23	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 19:23	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 19:23	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 19:23	1
Methyl tert-butyl ether	1.0		1.0	0.22	ug/L			01/24/25 19:23	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 19:23	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 19:23	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 19:23	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 19:23	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 19:23	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 19:23	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 19:23	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 19:23	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW1-ROX-011725

Lab Sample ID: 400-269555-3

Date Collected: 01/17/25 10:00

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 19:23	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 19:23	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 19:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 19:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 19:23	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 19:23	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 19:23	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 19:23	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 19:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 19:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 19:23	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 19:23	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 19:23	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 19:23	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 19:23	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 19:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 19:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 19:23	1
Vinyl acetate	ND	+	25	0.93	ug/L			01/24/25 19:23	1
Vinyl chloride	ND	+	1.0	0.50	ug/L			01/24/25 19:23	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		56 - 136		01/24/25 19:23	1
Dibromofluoromethane	107		79 - 130		01/24/25 19:23	1
Toluene-d8 (Surr)	98		64 - 132		01/24/25 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.6	8.3	ug/L		01/24/25 18:27	01/26/25 12:51	1
Benzenethiol	ND		9.6	9.5	ug/L		01/24/25 18:27	01/26/25 12:51	1
Benzoic acid	ND		29	23	ug/L		01/24/25 18:27	01/26/25 12:51	1
Benzyl alcohol	ND		9.6	7.0	ug/L		01/24/25 18:27	01/26/25 12:51	1
Bis(2-chloroethoxy)methane	ND		9.6	4.4	ug/L		01/24/25 18:27	01/26/25 12:51	1
Bis(2-chloroethyl)ether	ND		9.6	3.7	ug/L		01/24/25 18:27	01/26/25 12:51	1
bis (2-chloroisopropyl) ether	ND		9.6	1.7	ug/L		01/24/25 18:27	01/26/25 12:51	1
Bis(2-ethylhexyl) phthalate	ND		9.6	8.5	ug/L		01/24/25 18:27	01/26/25 12:51	1
4-Bromophenyl phenyl ether	ND		9.6	8.2	ug/L		01/24/25 18:27	01/26/25 12:51	1
Butyl benzyl phthalate	ND		9.6	5.5	ug/L		01/24/25 18:27	01/26/25 12:51	1
4-Chloroaniline	ND		9.6	4.5	ug/L		01/24/25 18:27	01/26/25 12:51	1
4-Chloro-3-methylphenol	ND		9.6	5.1	ug/L		01/24/25 18:27	01/26/25 12:51	1
2-Chloronaphthalene	ND		9.6	3.6	ug/L		01/24/25 18:27	01/26/25 12:51	1
2-Chlorophenol	ND		9.6	3.9	ug/L		01/24/25 18:27	01/26/25 12:51	1
4-Chlorophenyl phenyl ether	ND		9.6	3.5	ug/L		01/24/25 18:27	01/26/25 12:51	1
Dibenz[a,h]acridine	ND		9.6	2.7	ug/L		01/24/25 18:27	01/26/25 12:51	1
Dibenzofuran	ND		9.6	3.8	ug/L		01/24/25 18:27	01/26/25 12:51	1
3,3'-Dichlorobenzidine	ND	+	11	11	ug/L		01/24/25 18:27	01/26/25 12:51	1
2,4-Dichlorophenol	ND		9.6	4.1	ug/L		01/24/25 18:27	01/26/25 12:51	1
Diethyl phthalate	ND		9.6	4.2	ug/L		01/24/25 18:27	01/26/25 12:51	1
2,4-Dimethylphenol	ND		9.6	5.0	ug/L		01/24/25 18:27	01/26/25 12:51	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW1-ROX-011725

Lab Sample ID: 400-269555-3

Date Collected: 01/17/25 10:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.6	4.0	ug/L		01/24/25 18:27	01/26/25 12:51	1
Di-n-butyl phthalate	ND		9.6	4.4	ug/L		01/24/25 18:27	01/26/25 12:51	1
4,6-Dinitro-ortho-cresol	ND		9.6	9.6	ug/L		01/24/25 18:27	01/26/25 12:51	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/24/25 18:27	01/26/25 12:51	1
2,4-Dinitrotoluene	ND		9.6	4.9	ug/L		01/24/25 18:27	01/26/25 12:51	1
2,6-Dinitrotoluene	ND		9.6	3.7	ug/L		01/24/25 18:27	01/26/25 12:51	1
Di-n-octyl phthalate	ND		9.6	5.7	ug/L		01/24/25 18:27	01/26/25 12:51	1
1,4-Dioxane	ND		9.6	4.1	ug/L		01/24/25 18:27	01/26/25 12:51	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	3.2	ug/L		01/24/25 18:27	01/26/25 12:51	1
Hexachlorobenzene	ND		9.6	9.3	ug/L		01/24/25 18:27	01/26/25 12:51	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/24/25 18:27	01/26/25 12:51	1
Hexachloroethane	ND		9.6	5.0	ug/L		01/24/25 18:27	01/26/25 12:51	1
Indene	ND		9.6	3.4	ug/L		01/24/25 18:27	01/26/25 12:51	1
Isophorone	ND		9.6	5.0	ug/L		01/24/25 18:27	01/26/25 12:51	1
2-Methylphenol	ND		9.6	3.1	ug/L		01/24/25 18:27	01/26/25 12:51	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/24/25 18:27	01/26/25 12:51	1
2-Nitroaniline	ND		9.6	4.8	ug/L		01/24/25 18:27	01/26/25 12:51	1
3-Nitroaniline	ND		9.6	4.5	ug/L		01/24/25 18:27	01/26/25 12:51	1
4-Nitroaniline	ND		9.6	3.9	ug/L		01/24/25 18:27	01/26/25 12:51	1
Nitrobenzene	ND		9.6	4.5	ug/L		01/24/25 18:27	01/26/25 12:51	1
2-Nitrophenol	ND		9.6	4.4	ug/L		01/24/25 18:27	01/26/25 12:51	1
4-Nitrophenol	ND		9.6	3.2	ug/L		01/24/25 18:27	01/26/25 12:51	1
N-Nitrosodimethylamine	ND		9.6	2.1	ug/L		01/24/25 18:27	01/26/25 12:51	1
N-Nitrosodi-n-propylamine	ND		9.6	2.4	ug/L		01/24/25 18:27	01/26/25 12:51	1
N-Nitrosodiphenylamine	ND		9.6	3.5	ug/L		01/24/25 18:27	01/26/25 12:51	1
Pentachlorophenol	ND		19	11	ug/L		01/24/25 18:27	01/26/25 12:51	1
Phenol	ND		9.6	4.0	ug/L		01/24/25 18:27	01/26/25 12:51	1
Pyridine	ND	*- UJ	9.6	9.6	ug/L		01/24/25 18:27	01/26/25 12:51	1
Quinoline	ND	UJ	9.6	2.3	ug/L		01/24/25 18:27	01/26/25 12:51	1
2,4,5-Trichlorophenol	ND		9.6	3.8	ug/L		01/24/25 18:27	01/26/25 12:51	1
2,4,6-Trichlorophenol	ND		9.6	3.3	ug/L		01/24/25 18:27	01/26/25 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		21 - 114	01/24/25 18:27	01/26/25 12:51	1
2-Fluorophenol	51		10 - 105	01/24/25 18:27	01/26/25 12:51	1
Nitrobenzene-d5	74		16 - 127	01/24/25 18:27	01/26/25 12:51	1
Phenol-d5	37		10 - 129	01/24/25 18:27	01/26/25 12:51	1
Terphenyl-d14	108		13 - 150	01/24/25 18:27	01/26/25 12:51	1
2,4,6-Tribromophenol	107		10 - 150	01/24/25 18:27	01/26/25 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/24/25 11:31	01/24/25 20:13	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/24/25 11:31	01/24/25 20:13	1
Anthracene	ND		0.20	0.073	ug/L		01/24/25 11:31	01/24/25 20:13	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 20:13	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/24/25 11:31	01/24/25 20:13	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/24/25 11:31	01/24/25 20:13	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/24/25 11:31	01/24/25 20:13	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW1-ROX-011725

Lab Sample ID: 400-269555-3

Date Collected: 01/17/25 10:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 20:13	1
Chrysene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/24/25 20:13	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 20:13	1
Fluoranthene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 20:13	1
Fluorene	ND		0.20	0.086	ug/L		01/24/25 11:31	01/24/25 20:13	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 20:13	1
1-Methylnaphthalene	ND		0.20	0.066	ug/L		01/24/25 11:31	01/24/25 20:13	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/24/25 11:31	01/24/25 20:13	1
Phenanthrene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 20:13	1
Pyrene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	107		50 - 150	01/24/25 11:31	01/24/25 20:13	1
Nitrobenzene-d5	100		50 - 150	01/24/25 11:31	01/24/25 20:13	1
Terphenyl-d14	119		50 - 150	01/24/25 11:31	01/24/25 20:13	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/25/25 10:53	01/25/25 15:01	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/25/25 10:53	01/25/25 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		51 - 149	01/25/25 10:53	01/25/25 15:01	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: P54-ROX-011725

Lab Sample ID: 400-269555-4

Date Collected: 01/17/25 11:25

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 19:45	1
Acrolein	ND		20	3.3	ug/L			01/24/25 19:45	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 19:45	1
Benzene	4.5		1.0	0.50	ug/L			01/24/25 19:45	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 19:45	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 19:45	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 19:45	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 19:45	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 19:45	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 19:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 19:45	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 19:45	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 19:45	1
Chloroethane	ND UJ		1.0	0.76	ug/L			01/24/25 19:45	1
2-Chloroethyl vinyl ether	ND *+		5.0	2.0	ug/L			01/24/25 19:45	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 19:45	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 19:45	1
Chloromethane	ND *+		1.0	0.40	ug/L			01/24/25 19:45	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 19:45	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 19:45	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 19:45	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 19:45	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 19:45	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 19:45	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 19:45	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 19:45	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 19:45	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 19:45	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:45	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:45	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:45	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 19:45	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 19:45	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 19:45	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 19:45	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 19:45	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 19:45	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 19:45	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 19:45	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 19:45	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/24/25 19:45	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 19:45	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 19:45	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 19:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 19:45	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 19:45	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 19:45	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 19:45	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 19:45	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: P54-ROX-011725

Lab Sample ID: 400-269555-4

Date Collected: 01/17/25 11:25

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 19:45	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 19:45	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 19:45	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 19:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 19:45	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 19:45	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 19:45	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 19:45	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 19:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 19:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 19:45	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 19:45	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 19:45	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 19:45	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 19:45	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 19:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 19:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 19:45	1
Vinyl acetate	ND	+	25	0.93	ug/L			01/24/25 19:45	1
Vinyl chloride	ND	+	1.0	0.50	ug/L			01/24/25 19:45	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		56 - 136		01/24/25 19:45	1
Dibromofluoromethane	107		79 - 130		01/24/25 19:45	1
Toluene-d8 (Surr)	96		64 - 132		01/24/25 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.5	8.2	ug/L		01/24/25 18:27	01/26/25 13:25	1
Benzenethiol	ND		9.5	9.4	ug/L		01/24/25 18:27	01/26/25 13:25	1
Benzoic acid	ND		28	23	ug/L		01/24/25 18:27	01/26/25 13:25	1
Benzyl alcohol	ND		9.5	6.9	ug/L		01/24/25 18:27	01/26/25 13:25	1
Bis(2-chloroethoxy)methane	ND		9.5	4.3	ug/L		01/24/25 18:27	01/26/25 13:25	1
Bis(2-chloroethyl)ether	ND		9.5	3.7	ug/L		01/24/25 18:27	01/26/25 13:25	1
bis (2-chloroisopropyl) ether	ND		9.5	1.7	ug/L		01/24/25 18:27	01/26/25 13:25	1
Bis(2-ethylhexyl) phthalate	ND		9.5	8.4	ug/L		01/24/25 18:27	01/26/25 13:25	1
4-Bromophenyl phenyl ether	ND		9.5	8.1	ug/L		01/24/25 18:27	01/26/25 13:25	1
Butyl benzyl phthalate	ND		9.5	5.5	ug/L		01/24/25 18:27	01/26/25 13:25	1
4-Chloroaniline	ND		9.5	4.4	ug/L		01/24/25 18:27	01/26/25 13:25	1
4-Chloro-3-methylphenol	ND		9.5	5.0	ug/L		01/24/25 18:27	01/26/25 13:25	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		01/24/25 18:27	01/26/25 13:25	1
2-Chlorophenol	ND		9.5	3.9	ug/L		01/24/25 18:27	01/26/25 13:25	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		01/24/25 18:27	01/26/25 13:25	1
Dibenz[a,h]acridine	ND		9.5	2.6	ug/L		01/24/25 18:27	01/26/25 13:25	1
Dibenzofuran	ND		9.5	3.8	ug/L		01/24/25 18:27	01/26/25 13:25	1
3,3'-Dichlorobenzidine	ND	+	10	10	ug/L		01/24/25 18:27	01/26/25 13:25	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		01/24/25 18:27	01/26/25 13:25	1
Diethyl phthalate	ND		9.5	4.2	ug/L		01/24/25 18:27	01/26/25 13:25	1
2,4-Dimethylphenol	ND		9.5	4.9	ug/L		01/24/25 18:27	01/26/25 13:25	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: P54-ROX-011725

Lab Sample ID: 400-269555-4

Date Collected: 01/17/25 11:25

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.5	4.0	ug/L		01/24/25 18:27	01/26/25 13:25	1
Di-n-butyl phthalate	ND		9.5	4.3	ug/L		01/24/25 18:27	01/26/25 13:25	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		01/24/25 18:27	01/26/25 13:25	1
2,4-Dinitrophenol	ND		28	4.3	ug/L		01/24/25 18:27	01/26/25 13:25	1
2,4-Dinitrotoluene	ND		9.5	4.8	ug/L		01/24/25 18:27	01/26/25 13:25	1
2,6-Dinitrotoluene	ND		9.5	3.7	ug/L		01/24/25 18:27	01/26/25 13:25	1
Di-n-octyl phthalate	ND		9.5	5.7	ug/L		01/24/25 18:27	01/26/25 13:25	1
1,4-Dioxane	ND		9.5	4.1	ug/L		01/24/25 18:27	01/26/25 13:25	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		01/24/25 18:27	01/26/25 13:25	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		01/24/25 18:27	01/26/25 13:25	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/24/25 18:27	01/26/25 13:25	1
Hexachloroethane	ND		9.5	4.9	ug/L		01/24/25 18:27	01/26/25 13:25	1
Indene	ND		9.5	3.4	ug/L		01/24/25 18:27	01/26/25 13:25	1
Isophorone	ND		9.5	4.9	ug/L		01/24/25 18:27	01/26/25 13:25	1
2-Methylphenol	ND		9.5	3.0	ug/L		01/24/25 18:27	01/26/25 13:25	1
3 & 4 Methylphenol	ND		19	4.3	ug/L		01/24/25 18:27	01/26/25 13:25	1
2-Nitroaniline	ND		9.5	4.7	ug/L		01/24/25 18:27	01/26/25 13:25	1
3-Nitroaniline	ND		9.5	4.4	ug/L		01/24/25 18:27	01/26/25 13:25	1
4-Nitroaniline	ND		9.5	3.9	ug/L		01/24/25 18:27	01/26/25 13:25	1
Nitrobenzene	ND		9.5	4.4	ug/L		01/24/25 18:27	01/26/25 13:25	1
2-Nitrophenol	ND		9.5	4.3	ug/L		01/24/25 18:27	01/26/25 13:25	1
4-Nitrophenol	ND		9.5	3.1	ug/L		01/24/25 18:27	01/26/25 13:25	1
N-Nitrosodimethylamine	ND		9.5	2.1	ug/L		01/24/25 18:27	01/26/25 13:25	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		01/24/25 18:27	01/26/25 13:25	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		01/24/25 18:27	01/26/25 13:25	1
Pentachlorophenol	ND		19	11	ug/L		01/24/25 18:27	01/26/25 13:25	1
Phenol	ND		9.5	4.0	ug/L		01/24/25 18:27	01/26/25 13:25	1
Pyridine	ND	*- UJ	9.5	9.5	ug/L		01/24/25 18:27	01/26/25 13:25	1
Quinoline	ND	UJ	9.5	2.3	ug/L		01/24/25 18:27	01/26/25 13:25	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		01/24/25 18:27	01/26/25 13:25	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		01/24/25 18:27	01/26/25 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		21 - 114	01/24/25 18:27	01/26/25 13:25	1
2-Fluorophenol	47		10 - 105	01/24/25 18:27	01/26/25 13:25	1
Nitrobenzene-d5	71		16 - 127	01/24/25 18:27	01/26/25 13:25	1
Phenol-d5	34		10 - 129	01/24/25 18:27	01/26/25 13:25	1
Terphenyl-d14	106		13 - 150	01/24/25 18:27	01/26/25 13:25	1
2,4,6-Tribromophenol	103		10 - 150	01/24/25 18:27	01/26/25 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.085	ug/L		01/24/25 11:31	01/24/25 20:42	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/24/25 11:31	01/24/25 20:42	1
Anthracene	ND		0.20	0.073	ug/L		01/24/25 11:31	01/24/25 20:42	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 20:42	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/24/25 11:31	01/24/25 20:42	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/24/25 11:31	01/24/25 20:42	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/24/25 11:31	01/24/25 20:42	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: P54-ROX-011725

Lab Sample ID: 400-269555-4

Date Collected: 01/17/25 11:25

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 20:42	1
Chrysene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/24/25 20:42	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 20:42	1
Fluoranthene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 20:42	1
Fluorene	ND		0.20	0.087	ug/L		01/24/25 11:31	01/24/25 20:42	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 20:42	1
1-Methylnaphthalene	ND		0.20	0.066	ug/L		01/24/25 11:31	01/24/25 20:42	1
2-Methylnaphthalene	ND		0.20	0.077	ug/L		01/24/25 11:31	01/24/25 20:42	1
Phenanthrene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 20:42	1
Pyrene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		50 - 150	01/24/25 11:31	01/24/25 20:42	1
Nitrobenzene-d5	94		50 - 150	01/24/25 11:31	01/24/25 20:42	1
Terphenyl-d14	123		50 - 150	01/24/25 11:31	01/24/25 20:42	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.018	ug/L		01/25/25 10:53	01/25/25 15:22	1
1,2-Dibromoethane	ND		0.021	0.015	ug/L		01/25/25 10:53	01/25/25 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	66	p	51 - 149	01/25/25 10:53	01/25/25 15:22	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW24-ROX-011725

Lab Sample ID: 400-269555-5

Date Collected: 01/17/25 13:10

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 20:07	1
Acrolein	ND		20	3.3	ug/L			01/24/25 20:07	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 20:07	1
Benzene	1.5		1.0	0.50	ug/L			01/24/25 20:07	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 20:07	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 20:07	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 20:07	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 20:07	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 20:07	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 20:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 20:07	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 20:07	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 20:07	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			01/24/25 20:07	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			01/24/25 20:07	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 20:07	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 20:07	1
Chloromethane	ND	*+	1.0	0.40	ug/L			01/24/25 20:07	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 20:07	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 20:07	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 20:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 20:07	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 20:07	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 20:07	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 20:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 20:07	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 20:07	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 20:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:07	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 20:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 20:07	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 20:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 20:07	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 20:07	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 20:07	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 20:07	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 20:07	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 20:07	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/24/25 20:07	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 20:07	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 20:07	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 20:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 20:07	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 20:07	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 20:07	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 20:07	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 20:07	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW24-ROX-011725

Lab Sample ID: 400-269555-5

Date Collected: 01/17/25 13:10

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 20:07	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 20:07	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 20:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 20:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 20:07	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 20:07	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 20:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 20:07	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 20:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 20:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 20:07	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 20:07	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 20:07	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 20:07	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 20:07	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 20:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 20:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 20:07	1
Vinyl acetate	ND	+	25	0.93	ug/L			01/24/25 20:07	1
Vinyl chloride	ND	+	1.0	0.50	ug/L			01/24/25 20:07	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		56 - 136		01/24/25 20:07	1
Dibromofluoromethane	106		79 - 130		01/24/25 20:07	1
Toluene-d8 (Surr)	96		64 - 132		01/24/25 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.7	8.4	ug/L		01/24/25 18:27	01/26/25 14:01	1
Benzenethiol	ND		9.7	9.6	ug/L		01/24/25 18:27	01/26/25 14:01	1
Benzoic acid	ND		29	23	ug/L		01/24/25 18:27	01/26/25 14:01	1
Benzyl alcohol	ND		9.7	7.0	ug/L		01/24/25 18:27	01/26/25 14:01	1
Bis(2-chloroethoxy)methane	ND		9.7	4.4	ug/L		01/24/25 18:27	01/26/25 14:01	1
Bis(2-chloroethyl)ether	ND		9.7	3.8	ug/L		01/24/25 18:27	01/26/25 14:01	1
bis (2-chloroisopropyl) ether	ND		9.7	1.7	ug/L		01/24/25 18:27	01/26/25 14:01	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.6	ug/L		01/24/25 18:27	01/26/25 14:01	1
4-Bromophenyl phenyl ether	ND		9.7	8.3	ug/L		01/24/25 18:27	01/26/25 14:01	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		01/24/25 18:27	01/26/25 14:01	1
4-Chloroaniline	ND		9.7	4.5	ug/L		01/24/25 18:27	01/26/25 14:01	1
4-Chloro-3-methylphenol	ND		9.7	5.1	ug/L		01/24/25 18:27	01/26/25 14:01	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		01/24/25 18:27	01/26/25 14:01	1
2-Chlorophenol	ND		9.7	4.0	ug/L		01/24/25 18:27	01/26/25 14:01	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		01/24/25 18:27	01/26/25 14:01	1
Dibenz[a,h]acridine	ND		9.7	2.7	ug/L		01/24/25 18:27	01/26/25 14:01	1
Dibenzofuran	ND		9.7	3.9	ug/L		01/24/25 18:27	01/26/25 14:01	1
3,3'-Dichlorobenzidine	ND	+	11	11	ug/L		01/24/25 18:27	01/26/25 14:01	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		01/24/25 18:27	01/26/25 14:01	1
Diethyl phthalate	ND		9.7	4.2	ug/L		01/24/25 18:27	01/26/25 14:01	1
2,4-Dimethylphenol	ND		9.7	5.0	ug/L		01/24/25 18:27	01/26/25 14:01	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW24-ROX-011725

Lab Sample ID: 400-269555-5

Date Collected: 01/17/25 13:10

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		01/24/25 18:27	01/26/25 14:01	1
Di-n-butyl phthalate	ND		9.7	4.4	ug/L		01/24/25 18:27	01/26/25 14:01	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		01/24/25 18:27	01/26/25 14:01	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/24/25 18:27	01/26/25 14:01	1
2,4-Dinitrotoluene	ND		9.7	4.9	ug/L		01/24/25 18:27	01/26/25 14:01	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		01/24/25 18:27	01/26/25 14:01	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		01/24/25 18:27	01/26/25 14:01	1
1,4-Dioxane	ND		9.7	4.2	ug/L		01/24/25 18:27	01/26/25 14:01	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		01/24/25 18:27	01/26/25 14:01	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		01/24/25 18:27	01/26/25 14:01	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/24/25 18:27	01/26/25 14:01	1
Hexachloroethane	ND		9.7	5.0	ug/L		01/24/25 18:27	01/26/25 14:01	1
Indene	ND		9.7	3.5	ug/L		01/24/25 18:27	01/26/25 14:01	1
Isophorone	ND		9.7	5.0	ug/L		01/24/25 18:27	01/26/25 14:01	1
2-Methylphenol	ND		9.7	3.1	ug/L		01/24/25 18:27	01/26/25 14:01	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/24/25 18:27	01/26/25 14:01	1
2-Nitroaniline	ND		9.7	4.8	ug/L		01/24/25 18:27	01/26/25 14:01	1
3-Nitroaniline	ND		9.7	4.5	ug/L		01/24/25 18:27	01/26/25 14:01	1
4-Nitroaniline	ND		9.7	4.0	ug/L		01/24/25 18:27	01/26/25 14:01	1
Nitrobenzene	ND		9.7	4.5	ug/L		01/24/25 18:27	01/26/25 14:01	1
2-Nitrophenol	ND		9.7	4.4	ug/L		01/24/25 18:27	01/26/25 14:01	1
4-Nitrophenol	ND		9.7	3.2	ug/L		01/24/25 18:27	01/26/25 14:01	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		01/24/25 18:27	01/26/25 14:01	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		01/24/25 18:27	01/26/25 14:01	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		01/24/25 18:27	01/26/25 14:01	1
Pentachlorophenol	ND		19	11	ug/L		01/24/25 18:27	01/26/25 14:01	1
Phenol	ND		9.7	4.1	ug/L		01/24/25 18:27	01/26/25 14:01	1
Pyridine	ND	*- UJ	9.7	9.7	ug/L		01/24/25 18:27	01/26/25 14:01	1
Quinoline	ND	UJ	9.7	2.3	ug/L		01/24/25 18:27	01/26/25 14:01	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		01/24/25 18:27	01/26/25 14:01	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		01/24/25 18:27	01/26/25 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		21 - 114	01/24/25 18:27	01/26/25 14:01	1
2-Fluorophenol	48		10 - 105	01/24/25 18:27	01/26/25 14:01	1
Nitrobenzene-d5	71		16 - 127	01/24/25 18:27	01/26/25 14:01	1
Phenol-d5	34		10 - 129	01/24/25 18:27	01/26/25 14:01	1
Terphenyl-d14	104		13 - 150	01/24/25 18:27	01/26/25 14:01	1
2,4,6-Tribromophenol	93		10 - 150	01/24/25 18:27	01/26/25 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/24/25 11:31	01/24/25 21:12	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/24/25 11:31	01/24/25 21:12	1
Anthracene	ND		0.20	0.072	ug/L		01/24/25 11:31	01/24/25 21:12	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 21:12	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/24/25 11:31	01/24/25 21:12	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/24/25 11:31	01/24/25 21:12	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/24/25 11:31	01/24/25 21:12	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW24-ROX-011725

Lab Sample ID: 400-269555-5

Date Collected: 01/17/25 13:10

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 21:12	1
Chrysene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/24/25 21:12	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 21:12	1
Fluoranthene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 21:12	1
Fluorene	ND		0.20	0.086	ug/L		01/24/25 11:31	01/24/25 21:12	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 21:12	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/24/25 11:31	01/24/25 21:12	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/24/25 11:31	01/24/25 21:12	1
Phenanthrene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 21:12	1
Pyrene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		50 - 150	01/24/25 11:31	01/24/25 21:12	1
Nitrobenzene-d5	90		50 - 150	01/24/25 11:31	01/24/25 21:12	1
Terphenyl-d14	124		50 - 150	01/24/25 11:31	01/24/25 21:12	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/25/25 10:53	01/25/25 15:43	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/25/25 10:53	01/25/25 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	74	p	51 - 149	01/25/25 10:53	01/25/25 15:43	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: TB-ROX-011725-8260-B

Lab Sample ID: 400-269555-6

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 19:01	1
Acrolein	ND		20	3.3	ug/L			01/24/25 19:01	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 19:01	1
Benzene	ND		1.0	0.50	ug/L			01/24/25 19:01	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 19:01	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 19:01	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 19:01	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 19:01	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 19:01	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 19:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 19:01	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 19:01	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 19:01	1
Chloroethane	ND		1.0	0.76	ug/L			01/24/25 19:01	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			01/24/25 19:01	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 19:01	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 19:01	1
Chloromethane	ND	*+	1.0	0.40	ug/L			01/24/25 19:01	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 19:01	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 19:01	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 19:01	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 19:01	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 19:01	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 19:01	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 19:01	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 19:01	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 19:01	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 19:01	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:01	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:01	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 19:01	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 19:01	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 19:01	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 19:01	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 19:01	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 19:01	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 19:01	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 19:01	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 19:01	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 19:01	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/24/25 19:01	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 19:01	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 19:01	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 19:01	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 19:01	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 19:01	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 19:01	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 19:01	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 19:01	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: TB-ROX-011725-8260-B

Lab Sample ID: 400-269555-6

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 19:01	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 19:01	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 19:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 19:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 19:01	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 19:01	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 19:01	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 19:01	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 19:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 19:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 19:01	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 19:01	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 19:01	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 19:01	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 19:01	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 19:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 19:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 19:01	1
Vinyl acetate	ND	*+	25	0.93	ug/L			01/24/25 19:01	1
Vinyl chloride	ND	*+	1.0	0.50	ug/L			01/24/25 19:01	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		56 - 136					01/24/25 19:01	1
Dibromofluoromethane	106		79 - 130					01/24/25 19:01	1
Toluene-d8 (Surr)	98		64 - 132					01/24/25 19:01	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: TB-ROX-011725-8011-B

Lab Sample ID: 400-269555-7

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/25/25 10:53	01/25/25 16:04	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/25/25 10:53	01/25/25 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	75		51 - 149				01/25/25 10:53	01/25/25 16:04	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW9-ROX-011725

Lab Sample ID: 400-269555-8

Date Collected: 01/17/25 09:40

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	F1 UJ	25	10	ug/L			01/24/25 16:49	1
Acrolein	ND		20	3.3	ug/L			01/24/25 16:49	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 16:49	1
Benzene	ND		1.0	0.50	ug/L			01/24/25 16:49	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 16:49	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 16:49	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 16:49	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 16:49	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 16:49	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 16:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 16:49	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 16:49	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 16:49	1
Chloroethane	ND	F1 UJ	1.0	0.76	ug/L			01/24/25 16:49	1
2-Chloroethyl vinyl ether	ND	*+ F1 UJ	5.0	2.0	ug/L			01/24/25 16:49	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 16:49	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 16:49	1
Chloromethane	ND	*+	1.0	0.40	ug/L			01/24/25 16:49	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 16:49	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 16:49	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 16:49	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 16:49	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 16:49	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 16:49	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 16:49	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 16:49	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 16:49	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 16:49	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 16:49	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 16:49	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 16:49	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 16:49	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 16:49	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 16:49	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 16:49	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 16:49	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 16:49	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 16:49	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 16:49	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 16:49	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/24/25 16:49	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 16:49	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 16:49	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 16:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 16:49	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 16:49	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 16:49	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 16:49	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 16:49	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW9-ROX-011725

Lab Sample ID: 400-269555-8

Date Collected: 01/17/25 09:40

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 16:49	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 16:49	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 16:49	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 16:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 16:49	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 16:49	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 16:49	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 16:49	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 16:49	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 16:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 16:49	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 16:49	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 16:49	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 16:49	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 16:49	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 16:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 16:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 16:49	1
Vinyl acetate	ND	+	25	0.93	ug/L			01/24/25 16:49	1
Vinyl chloride	ND	+	1.0	0.50	ug/L			01/24/25 16:49	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		56 - 136		01/24/25 16:49	1
Dibromofluoromethane	104		79 - 130		01/24/25 16:49	1
Toluene-d8 (Surr)	95		64 - 132		01/24/25 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	F1 UJ	10	8.7	ug/L		01/24/25 18:27	01/26/25 14:36	1
Benzenethiol	ND		10	9.9	ug/L		01/24/25 18:27	01/26/25 14:36	1
Benzoic acid	ND	F1 UJ	30	24	ug/L		01/24/25 18:27	01/26/25 14:36	1
Benzyl alcohol	ND		10	7.3	ug/L		01/24/25 18:27	01/26/25 14:36	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/24/25 18:27	01/26/25 14:36	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/24/25 18:27	01/26/25 14:36	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/24/25 18:27	01/26/25 14:36	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/24/25 18:27	01/26/25 14:36	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/24/25 18:27	01/26/25 14:36	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/24/25 18:27	01/26/25 14:36	1
4-Chloroaniline	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 14:36	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/24/25 18:27	01/26/25 14:36	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/24/25 18:27	01/26/25 14:36	1
2-Chlorophenol	ND		10	4.1	ug/L		01/24/25 18:27	01/26/25 14:36	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/24/25 18:27	01/26/25 14:36	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/24/25 18:27	01/26/25 14:36	1
Dibenzofuran	ND		10	4.0	ug/L		01/24/25 18:27	01/26/25 14:36	1
3,3'-Dichlorobenzidine	ND	+	11	11	ug/L		01/24/25 18:27	01/26/25 14:36	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/24/25 18:27	01/26/25 14:36	1
Diethyl phthalate	ND		10	4.4	ug/L		01/24/25 18:27	01/26/25 14:36	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/24/25 18:27	01/26/25 14:36	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW9-ROX-011725

Lab Sample ID: 400-269555-8

Date Collected: 01/17/25 09:40

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.2	ug/L		01/24/25 18:27	01/26/25 14:36	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/24/25 18:27	01/26/25 14:36	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/24/25 18:27	01/26/25 14:36	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/24/25 18:27	01/26/25 14:36	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/24/25 18:27	01/26/25 14:36	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/24/25 18:27	01/26/25 14:36	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/24/25 18:27	01/26/25 14:36	1
1,4-Dioxane	ND	F1 UJ	10	4.3	ug/L		01/24/25 18:27	01/26/25 14:36	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/24/25 18:27	01/26/25 14:36	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/24/25 18:27	01/26/25 14:36	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/24/25 18:27	01/26/25 14:36	1
Hexachloroethane	ND		10	5.2	ug/L		01/24/25 18:27	01/26/25 14:36	1
Indene	ND		10	3.6	ug/L		01/24/25 18:27	01/26/25 14:36	1
Isophorone	ND		10	5.2	ug/L		01/24/25 18:27	01/26/25 14:36	1
2-Methylphenol	ND		10	3.2	ug/L		01/24/25 18:27	01/26/25 14:36	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/24/25 18:27	01/26/25 14:36	1
2-Nitroaniline	ND		10	5.0	ug/L		01/24/25 18:27	01/26/25 14:36	1
3-Nitroaniline	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 14:36	1
4-Nitroaniline	ND		10	4.1	ug/L		01/24/25 18:27	01/26/25 14:36	1
Nitrobenzene	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 14:36	1
2-Nitrophenol	ND		10	4.6	ug/L		01/24/25 18:27	01/26/25 14:36	1
4-Nitrophenol	ND		10	3.3	ug/L		01/24/25 18:27	01/26/25 14:36	1
N-Nitrosodimethylamine	ND	F1 UJ	10	2.2	ug/L		01/24/25 18:27	01/26/25 14:36	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/24/25 18:27	01/26/25 14:36	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/24/25 18:27	01/26/25 14:36	1
Pentachlorophenol	ND		20	12	ug/L		01/24/25 18:27	01/26/25 14:36	1
Phenol	ND		10	4.2	ug/L		01/24/25 18:27	01/26/25 14:36	1
Pyridine	ND	*- F1 UJ	10	10	ug/L		01/24/25 18:27	01/26/25 14:36	1
Quinoline	ND	F1 UJ	10	2.4	ug/L		01/24/25 18:27	01/26/25 14:36	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/24/25 18:27	01/26/25 14:36	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/24/25 18:27	01/26/25 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		21 - 114	01/24/25 18:27	01/26/25 14:36	1
2-Fluorophenol	47		10 - 105	01/24/25 18:27	01/26/25 14:36	1
Nitrobenzene-d5	69		16 - 127	01/24/25 18:27	01/26/25 14:36	1
Phenol-d5	35		10 - 129	01/24/25 18:27	01/26/25 14:36	1
Terphenyl-d14	101		13 - 150	01/24/25 18:27	01/26/25 14:36	1
2,4,6-Tribromophenol	94		10 - 150	01/24/25 18:27	01/26/25 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/24/25 11:31	01/24/25 21:42	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/24/25 11:31	01/24/25 21:42	1
Anthracene	ND		0.20	0.072	ug/L		01/24/25 11:31	01/24/25 21:42	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 21:42	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/24/25 11:31	01/24/25 21:42	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/24/25 11:31	01/24/25 21:42	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/24/25 11:31	01/24/25 21:42	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW9-ROX-011725

Lab Sample ID: 400-269555-8

Date Collected: 01/17/25 09:40

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 21:42	1
Chrysene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/24/25 21:42	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 21:42	1
Fluoranthene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 21:42	1
Fluorene	ND		0.20	0.086	ug/L		01/24/25 11:31	01/24/25 21:42	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 21:42	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/24/25 11:31	01/24/25 21:42	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/24/25 11:31	01/24/25 21:42	1
Phenanthrene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 21:42	1
Pyrene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	111		50 - 150	01/24/25 11:31	01/24/25 21:42	1
Nitrobenzene-d5	94		50 - 150	01/24/25 11:31	01/24/25 21:42	1
Terphenyl-d14	122		50 - 150	01/24/25 11:31	01/24/25 21:42	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/25/25 10:53	01/25/25 16:26	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/25/25 10:53	01/25/25 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	70		51 - 149	01/25/25 10:53	01/25/25 16:26	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW10-ROX-011725

Lab Sample ID: 400-269555-9

Date Collected: 01/17/25 11:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 20:29	1
Acrolein	ND		20	3.3	ug/L			01/24/25 20:29	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 20:29	1
Benzene	ND		1.0	0.50	ug/L			01/24/25 20:29	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 20:29	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 20:29	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 20:29	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 20:29	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 20:29	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 20:29	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 20:29	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 20:29	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 20:29	1
Chloroethane	ND UJ		1.0	0.76	ug/L			01/24/25 20:29	1
2-Chloroethyl vinyl ether	ND *+		5.0	2.0	ug/L			01/24/25 20:29	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 20:29	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 20:29	1
Chloromethane	ND *+		1.0	0.40	ug/L			01/24/25 20:29	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 20:29	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 20:29	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 20:29	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 20:29	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 20:29	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 20:29	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 20:29	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 20:29	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 20:29	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 20:29	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:29	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:29	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:29	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 20:29	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 20:29	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 20:29	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 20:29	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 20:29	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 20:29	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 20:29	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 20:29	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 20:29	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/24/25 20:29	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 20:29	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 20:29	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 20:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 20:29	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 20:29	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 20:29	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 20:29	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 20:29	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW10-ROX-011725

Lab Sample ID: 400-269555-9

Date Collected: 01/17/25 11:00

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 20:29	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 20:29	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 20:29	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 20:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 20:29	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 20:29	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 20:29	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 20:29	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 20:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 20:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 20:29	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 20:29	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 20:29	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 20:29	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 20:29	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 20:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 20:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 20:29	1
Vinyl acetate	ND	+	25	0.93	ug/L			01/24/25 20:29	1
Vinyl chloride	ND	+	1.0	0.50	ug/L			01/24/25 20:29	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		56 - 136		01/24/25 20:29	1
Dibromofluoromethane	105		79 - 130		01/24/25 20:29	1
Toluene-d8 (Surr)	97		64 - 132		01/24/25 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.7	8.5	ug/L		01/24/25 18:27	01/26/25 16:20	1
Benzenethiol	ND		9.7	9.6	ug/L		01/24/25 18:27	01/26/25 16:20	1
Benzoic acid	ND		29	23	ug/L		01/24/25 18:27	01/26/25 16:20	1
Benzyl alcohol	ND		9.7	7.1	ug/L		01/24/25 18:27	01/26/25 16:20	1
Bis(2-chloroethoxy)methane	ND		9.7	4.5	ug/L		01/24/25 18:27	01/26/25 16:20	1
Bis(2-chloroethyl)ether	ND		9.7	3.8	ug/L		01/24/25 18:27	01/26/25 16:20	1
bis (2-chloroisopropyl) ether	ND		9.7	1.8	ug/L		01/24/25 18:27	01/26/25 16:20	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.7	ug/L		01/24/25 18:27	01/26/25 16:20	1
4-Bromophenyl phenyl ether	ND		9.7	8.4	ug/L		01/24/25 18:27	01/26/25 16:20	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		01/24/25 18:27	01/26/25 16:20	1
4-Chloroaniline	ND		9.7	4.6	ug/L		01/24/25 18:27	01/26/25 16:20	1
4-Chloro-3-methylphenol	ND		9.7	5.2	ug/L		01/24/25 18:27	01/26/25 16:20	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		01/24/25 18:27	01/26/25 16:20	1
2-Chlorophenol	ND		9.7	4.0	ug/L		01/24/25 18:27	01/26/25 16:20	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		01/24/25 18:27	01/26/25 16:20	1
Dibenz[a,h]acridine	ND		9.7	2.7	ug/L		01/24/25 18:27	01/26/25 16:20	1
Dibenzofuran	ND		9.7	3.9	ug/L		01/24/25 18:27	01/26/25 16:20	1
3,3'-Dichlorobenzidine	ND	+	11	11	ug/L		01/24/25 18:27	01/26/25 16:20	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		01/24/25 18:27	01/26/25 16:20	1
Diethyl phthalate	ND		9.7	4.3	ug/L		01/24/25 18:27	01/26/25 16:20	1
2,4-Dimethylphenol	ND		9.7	5.1	ug/L		01/24/25 18:27	01/26/25 16:20	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW10-ROX-011725

Lab Sample ID: 400-269555-9

Date Collected: 01/17/25 11:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		01/24/25 18:27	01/26/25 16:20	1
Di-n-butyl phthalate	ND		9.7	4.5	ug/L		01/24/25 18:27	01/26/25 16:20	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		01/24/25 18:27	01/26/25 16:20	1
2,4-Dinitrophenol	ND		29	4.5	ug/L		01/24/25 18:27	01/26/25 16:20	1
2,4-Dinitrotoluene	ND		9.7	5.0	ug/L		01/24/25 18:27	01/26/25 16:20	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		01/24/25 18:27	01/26/25 16:20	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		01/24/25 18:27	01/26/25 16:20	1
1,4-Dioxane	ND		9.7	4.2	ug/L		01/24/25 18:27	01/26/25 16:20	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		01/24/25 18:27	01/26/25 16:20	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		01/24/25 18:27	01/26/25 16:20	1
Hexachlorocyclopentadiene	ND		19	4.4	ug/L		01/24/25 18:27	01/26/25 16:20	1
Hexachloroethane	ND		9.7	5.1	ug/L		01/24/25 18:27	01/26/25 16:20	1
Indene	ND		9.7	3.5	ug/L		01/24/25 18:27	01/26/25 16:20	1
Isophorone	ND		9.7	5.1	ug/L		01/24/25 18:27	01/26/25 16:20	1
2-Methylphenol	ND		9.7	3.1	ug/L		01/24/25 18:27	01/26/25 16:20	1
3 & 4 Methylphenol	ND		19	4.5	ug/L		01/24/25 18:27	01/26/25 16:20	1
2-Nitroaniline	ND		9.7	4.9	ug/L		01/24/25 18:27	01/26/25 16:20	1
3-Nitroaniline	ND		9.7	4.6	ug/L		01/24/25 18:27	01/26/25 16:20	1
4-Nitroaniline	ND		9.7	4.0	ug/L		01/24/25 18:27	01/26/25 16:20	1
Nitrobenzene	ND		9.7	4.6	ug/L		01/24/25 18:27	01/26/25 16:20	1
2-Nitrophenol	ND		9.7	4.5	ug/L		01/24/25 18:27	01/26/25 16:20	1
4-Nitrophenol	ND		9.7	3.2	ug/L		01/24/25 18:27	01/26/25 16:20	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		01/24/25 18:27	01/26/25 16:20	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		01/24/25 18:27	01/26/25 16:20	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		01/24/25 18:27	01/26/25 16:20	1
Pentachlorophenol	ND		19	12	ug/L		01/24/25 18:27	01/26/25 16:20	1
Phenol	ND		9.7	4.1	ug/L		01/24/25 18:27	01/26/25 16:20	1
Pyridine	ND	*- UJ	9.7	9.7	ug/L		01/24/25 18:27	01/26/25 16:20	1
Quinoline	ND	UJ	9.7	2.3	ug/L		01/24/25 18:27	01/26/25 16:20	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		01/24/25 18:27	01/26/25 16:20	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		01/24/25 18:27	01/26/25 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		21 - 114	01/24/25 18:27	01/26/25 16:20	1
2-Fluorophenol	53		10 - 105	01/24/25 18:27	01/26/25 16:20	1
Nitrobenzene-d5	74		16 - 127	01/24/25 18:27	01/26/25 16:20	1
Phenol-d5	38		10 - 129	01/24/25 18:27	01/26/25 16:20	1
Terphenyl-d14	109		13 - 150	01/24/25 18:27	01/26/25 16:20	1
2,4,6-Tribromophenol	104		10 - 150	01/24/25 18:27	01/26/25 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/24/25 11:31	01/24/25 23:11	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/24/25 11:31	01/24/25 23:11	1
Anthracene	ND		0.20	0.072	ug/L		01/24/25 11:31	01/24/25 23:11	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 23:11	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/24/25 11:31	01/24/25 23:11	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/24/25 11:31	01/24/25 23:11	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/24/25 11:31	01/24/25 23:11	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW10-ROX-011725

Lab Sample ID: 400-269555-9

Date Collected: 01/17/25 11:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 23:11	1
Chrysene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/24/25 23:11	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 23:11	1
Fluoranthene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 23:11	1
Fluorene	ND		0.20	0.086	ug/L		01/24/25 11:31	01/24/25 23:11	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 23:11	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/24/25 11:31	01/24/25 23:11	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/24/25 11:31	01/24/25 23:11	1
Phenanthrene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 23:11	1
Pyrene	ND		0.20	0.040	ug/L		01/24/25 11:31	01/24/25 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		50 - 150	01/24/25 11:31	01/24/25 23:11	1
Nitrobenzene-d5	76		50 - 150	01/24/25 11:31	01/24/25 23:11	1
Terphenyl-d14	115		50 - 150	01/24/25 11:31	01/24/25 23:11	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.031	0.018	ug/L		01/25/25 10:53	01/25/25 17:50	1
1,2-Dibromoethane	ND		0.021	0.015	ug/L		01/25/25 10:53	01/25/25 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83	p	51 - 149	01/25/25 10:53	01/25/25 17:50	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW28-ROX-011725

Lab Sample ID: 400-269555-10

Date Collected: 01/17/25 13:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 20:51	1
Acrolein	ND		20	3.3	ug/L			01/24/25 20:51	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 20:51	1
Benzene	ND		1.0	0.50	ug/L			01/24/25 20:51	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 20:51	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 20:51	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 20:51	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 20:51	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 20:51	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 20:51	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 20:51	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 20:51	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 20:51	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			01/24/25 20:51	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			01/24/25 20:51	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 20:51	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 20:51	1
Chloromethane	ND	*+	1.0	0.40	ug/L			01/24/25 20:51	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 20:51	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 20:51	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 20:51	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 20:51	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 20:51	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 20:51	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 20:51	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 20:51	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 20:51	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 20:51	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:51	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:51	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 20:51	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 20:51	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 20:51	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 20:51	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 20:51	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 20:51	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 20:51	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 20:51	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 20:51	1
Methyl tert-butyl ether	0.28	J	1.0	0.22	ug/L			01/24/25 20:51	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 20:51	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 20:51	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 20:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 20:51	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 20:51	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 20:51	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 20:51	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 20:51	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW28-ROX-011725

Lab Sample ID: 400-269555-10

Date Collected: 01/17/25 13:00

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 20:51	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 20:51	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 20:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 20:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 20:51	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 20:51	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 20:51	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 20:51	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 20:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 20:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 20:51	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 20:51	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 20:51	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 20:51	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 20:51	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 20:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 20:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 20:51	1
Vinyl acetate	ND	+	25	0.93	ug/L			01/24/25 20:51	1
Vinyl chloride	ND	+	1.0	0.50	ug/L			01/24/25 20:51	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		56 - 136		01/24/25 20:51	1
Dibromofluoromethane	106		79 - 130		01/24/25 20:51	1
Toluene-d8 (Surr)	95		64 - 132		01/24/25 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	10	8.9	ug/L		01/24/25 18:27	01/26/25 16:55	1
Benzenethiol	ND		10	10	ug/L		01/24/25 18:27	01/26/25 16:55	1
Benzoic acid	ND		31	25	ug/L		01/24/25 18:27	01/26/25 16:55	1
Benzyl alcohol	ND		10	7.5	ug/L		01/24/25 18:27	01/26/25 16:55	1
Bis(2-chloroethoxy)methane	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 16:55	1
Bis(2-chloroethyl)ether	ND		10	4.0	ug/L		01/24/25 18:27	01/26/25 16:55	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/24/25 18:27	01/26/25 16:55	1
Bis(2-ethylhexyl) phthalate	ND		10	9.1	ug/L		01/24/25 18:27	01/26/25 16:55	1
4-Bromophenyl phenyl ether	ND		10	8.8	ug/L		01/24/25 18:27	01/26/25 16:55	1
Butyl benzyl phthalate	ND		10	5.9	ug/L		01/24/25 18:27	01/26/25 16:55	1
4-Chloroaniline	ND		10	4.8	ug/L		01/24/25 18:27	01/26/25 16:55	1
4-Chloro-3-methylphenol	ND		10	5.4	ug/L		01/24/25 18:27	01/26/25 16:55	1
2-Chloronaphthalene	ND		10	3.9	ug/L		01/24/25 18:27	01/26/25 16:55	1
2-Chlorophenol	ND		10	4.2	ug/L		01/24/25 18:27	01/26/25 16:55	1
4-Chlorophenyl phenyl ether	ND		10	3.8	ug/L		01/24/25 18:27	01/26/25 16:55	1
Dibenz[a,h]acridine	ND		10	2.9	ug/L		01/24/25 18:27	01/26/25 16:55	1
Dibenzofuran	ND		10	4.1	ug/L		01/24/25 18:27	01/26/25 16:55	1
3,3'-Dichlorobenzidine	ND	+	11	11	ug/L		01/24/25 18:27	01/26/25 16:55	1
2,4-Dichlorophenol	ND		10	4.4	ug/L		01/24/25 18:27	01/26/25 16:55	1
Diethyl phthalate	ND		10	4.5	ug/L		01/24/25 18:27	01/26/25 16:55	1
2,4-Dimethylphenol	ND		10	5.3	ug/L		01/24/25 18:27	01/26/25 16:55	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW28-ROX-011725

Lab Sample ID: 400-269555-10

Date Collected: 01/17/25 13:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.3	ug/L		01/24/25 18:27	01/26/25 16:55	1
Di-n-butyl phthalate	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 16:55	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/24/25 18:27	01/26/25 16:55	1
2,4-Dinitrophenol	ND		31	4.7	ug/L		01/24/25 18:27	01/26/25 16:55	1
2,4-Dinitrotoluene	ND		10	5.2	ug/L		01/24/25 18:27	01/26/25 16:55	1
2,6-Dinitrotoluene	ND		10	4.0	ug/L		01/24/25 18:27	01/26/25 16:55	1
Di-n-octyl phthalate	ND		10	6.1	ug/L		01/24/25 18:27	01/26/25 16:55	1
1,4-Dioxane	ND		10	4.4	ug/L		01/24/25 18:27	01/26/25 16:55	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.4	ug/L		01/24/25 18:27	01/26/25 16:55	1
Hexachlorobenzene	ND		10	9.9	ug/L		01/24/25 18:27	01/26/25 16:55	1
Hexachlorocyclopentadiene	ND		20	4.6	ug/L		01/24/25 18:27	01/26/25 16:55	1
Hexachloroethane	ND		10	5.3	ug/L		01/24/25 18:27	01/26/25 16:55	1
Indene	ND		10	3.7	ug/L		01/24/25 18:27	01/26/25 16:55	1
Isophorone	ND		10	5.3	ug/L		01/24/25 18:27	01/26/25 16:55	1
2-Methylphenol	ND		10	3.3	ug/L		01/24/25 18:27	01/26/25 16:55	1
3 & 4 Methylphenol	ND		20	4.7	ug/L		01/24/25 18:27	01/26/25 16:55	1
2-Nitroaniline	ND		10	5.1	ug/L		01/24/25 18:27	01/26/25 16:55	1
3-Nitroaniline	ND		10	4.8	ug/L		01/24/25 18:27	01/26/25 16:55	1
4-Nitroaniline	ND		10	4.2	ug/L		01/24/25 18:27	01/26/25 16:55	1
Nitrobenzene	ND		10	4.8	ug/L		01/24/25 18:27	01/26/25 16:55	1
2-Nitrophenol	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 16:55	1
4-Nitrophenol	ND		10	3.4	ug/L		01/24/25 18:27	01/26/25 16:55	1
N-Nitrosodimethylamine	ND		10	2.3	ug/L		01/24/25 18:27	01/26/25 16:55	1
N-Nitrosodi-n-propylamine	ND		10	2.6	ug/L		01/24/25 18:27	01/26/25 16:55	1
N-Nitrosodiphenylamine	ND		10	3.8	ug/L		01/24/25 18:27	01/26/25 16:55	1
Pentachlorophenol	ND		20	12	ug/L		01/24/25 18:27	01/26/25 16:55	1
Phenol	ND		10	4.3	ug/L		01/24/25 18:27	01/26/25 16:55	1
Pyridine	ND	*- UJ	10	10	ug/L		01/24/25 18:27	01/26/25 16:55	1
Quinoline	ND	UJ	10	2.5	ug/L		01/24/25 18:27	01/26/25 16:55	1
2,4,5-Trichlorophenol	ND		10	4.1	ug/L		01/24/25 18:27	01/26/25 16:55	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/24/25 18:27	01/26/25 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		21 - 114	01/24/25 18:27	01/26/25 16:55	1
2-Fluorophenol	56		10 - 105	01/24/25 18:27	01/26/25 16:55	1
Nitrobenzene-d5	80		16 - 127	01/24/25 18:27	01/26/25 16:55	1
Phenol-d5	41		10 - 129	01/24/25 18:27	01/26/25 16:55	1
Terphenyl-d14	116		13 - 150	01/24/25 18:27	01/26/25 16:55	1
2,4,6-Tribromophenol	110		10 - 150	01/24/25 18:27	01/26/25 16:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/24/25 11:31	01/24/25 23:41	1
Acenaphthylene	ND		0.20	0.046	ug/L		01/24/25 11:31	01/24/25 23:41	1
Anthracene	ND		0.20	0.072	ug/L		01/24/25 11:31	01/24/25 23:41	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/24/25 23:41	1
Benzo[a]pyrene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/24/25 23:41	1
Benzo[b]fluoranthene	ND		0.20	0.041	ug/L		01/24/25 11:31	01/24/25 23:41	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/24/25 11:31	01/24/25 23:41	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW28-ROX-011725

Lab Sample ID: 400-269555-10

Date Collected: 01/17/25 13:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/24/25 23:41	1
Chrysene	ND		0.20	0.038	ug/L		01/24/25 11:31	01/24/25 23:41	1
Dibenz(a,h)anthracene	ND		0.20	0.043	ug/L		01/24/25 11:31	01/24/25 23:41	1
Fluoranthene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 23:41	1
Fluorene	ND		0.20	0.086	ug/L		01/24/25 11:31	01/24/25 23:41	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/24/25 23:41	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/24/25 11:31	01/24/25 23:41	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/24/25 11:31	01/24/25 23:41	1
Phenanthrene	ND		0.20	0.043	ug/L		01/24/25 11:31	01/24/25 23:41	1
Pyrene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/24/25 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		50 - 150	01/24/25 11:31	01/24/25 23:41	1
Nitrobenzene-d5	82		50 - 150	01/24/25 11:31	01/24/25 23:41	1
Terphenyl-d14	107		50 - 150	01/24/25 11:31	01/24/25 23:41	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/25/25 10:53	01/25/25 18:11	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/25/25 10:53	01/25/25 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		51 - 149	01/25/25 10:53	01/25/25 18:11	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW27-ROX-011725

Lab Sample ID: 400-269555-11

Date Collected: 01/17/25 14:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 21:13	1
Acrolein	ND		20	3.3	ug/L			01/24/25 21:13	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 21:13	1
Benzene	ND		1.0	0.50	ug/L			01/24/25 21:13	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 21:13	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 21:13	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 21:13	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 21:13	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 21:13	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 21:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 21:13	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 21:13	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 21:13	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			01/24/25 21:13	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			01/24/25 21:13	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 21:13	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 21:13	1
Chloromethane	ND	*+	1.0	0.40	ug/L			01/24/25 21:13	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 21:13	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 21:13	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 21:13	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 21:13	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 21:13	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 21:13	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 21:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 21:13	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 21:13	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 21:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 21:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 21:13	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 21:13	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 21:13	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 21:13	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 21:13	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 21:13	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 21:13	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 21:13	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 21:13	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 21:13	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 21:13	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/24/25 21:13	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 21:13	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 21:13	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 21:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 21:13	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 21:13	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 21:13	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 21:13	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 21:13	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW27-ROX-011725

Lab Sample ID: 400-269555-11

Date Collected: 01/17/25 14:00

Matrix: Water

Date Received: 01/18/25 11:29

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 21:13	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 21:13	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 21:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 21:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 21:13	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 21:13	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 21:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 21:13	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 21:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 21:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 21:13	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 21:13	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 21:13	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 21:13	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 21:13	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 21:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 21:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 21:13	1
Vinyl acetate	ND	+	25	0.93	ug/L			01/24/25 21:13	1
Vinyl chloride	ND	+	1.0	0.50	ug/L			01/24/25 21:13	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		56 - 136		01/24/25 21:13	1
Dibromofluoromethane	106		79 - 130		01/24/25 21:13	1
Toluene-d8 (Surr)	97		64 - 132		01/24/25 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	10	9.1	ug/L		01/24/25 18:27	01/26/25 17:28	1
Benzenethiol	ND		10	10	ug/L		01/24/25 18:27	01/26/25 17:28	1
Benzoic acid	ND		31	25	ug/L		01/24/25 18:27	01/26/25 17:28	1
Benzyl alcohol	ND		10	7.6	ug/L		01/24/25 18:27	01/26/25 17:28	1
Bis(2-chloroethoxy)methane	ND		10	4.8	ug/L		01/24/25 18:27	01/26/25 17:28	1
Bis(2-chloroethyl)ether	ND		10	4.1	ug/L		01/24/25 18:27	01/26/25 17:28	1
bis (2-chloroisopropyl) ether	ND		10	1.9	ug/L		01/24/25 18:27	01/26/25 17:28	1
Bis(2-ethylhexyl) phthalate	ND		10	9.3	ug/L		01/24/25 18:27	01/26/25 17:28	1
4-Bromophenyl phenyl ether	ND		10	9.0	ug/L		01/24/25 18:27	01/26/25 17:28	1
Butyl benzyl phthalate	ND		10	6.0	ug/L		01/24/25 18:27	01/26/25 17:28	1
4-Chloroaniline	ND		10	4.9	ug/L		01/24/25 18:27	01/26/25 17:28	1
4-Chloro-3-methylphenol	ND		10	5.5	ug/L		01/24/25 18:27	01/26/25 17:28	1
2-Chloronaphthalene	ND		10	4.0	ug/L		01/24/25 18:27	01/26/25 17:28	1
2-Chlorophenol	ND		10	4.3	ug/L		01/24/25 18:27	01/26/25 17:28	1
4-Chlorophenyl phenyl ether	ND		10	3.9	ug/L		01/24/25 18:27	01/26/25 17:28	1
Dibenz[a,h]acridine	ND		10	2.9	ug/L		01/24/25 18:27	01/26/25 17:28	1
Dibenzofuran	ND		10	4.2	ug/L		01/24/25 18:27	01/26/25 17:28	1
3,3'-Dichlorobenzidine	ND	+	11	11	ug/L		01/24/25 18:27	01/26/25 17:28	1
2,4-Dichlorophenol	ND		10	4.5	ug/L		01/24/25 18:27	01/26/25 17:28	1
Diethyl phthalate	ND		10	4.6	ug/L		01/24/25 18:27	01/26/25 17:28	1
2,4-Dimethylphenol	ND		10	5.4	ug/L		01/24/25 18:27	01/26/25 17:28	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW27-ROX-011725

Lab Sample ID: 400-269555-11

Date Collected: 01/17/25 14:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.4	ug/L		01/24/25 18:27	01/26/25 17:28	1
Di-n-butyl phthalate	ND		10	4.8	ug/L		01/24/25 18:27	01/26/25 17:28	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/24/25 18:27	01/26/25 17:28	1
2,4-Dinitrophenol	ND		31	4.8	ug/L		01/24/25 18:27	01/26/25 17:28	1
2,4-Dinitrotoluene	ND		10	5.3	ug/L		01/24/25 18:27	01/26/25 17:28	1
2,6-Dinitrotoluene	ND		10	4.1	ug/L		01/24/25 18:27	01/26/25 17:28	1
Di-n-octyl phthalate	ND		10	6.3	ug/L		01/24/25 18:27	01/26/25 17:28	1
1,4-Dioxane	ND		10	4.5	ug/L		01/24/25 18:27	01/26/25 17:28	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.4	ug/L		01/24/25 18:27	01/26/25 17:28	1
Hexachlorobenzene	ND		10	10	ug/L		01/24/25 18:27	01/26/25 17:28	1
Hexachlorocyclopentadiene	ND		21	4.7	ug/L		01/24/25 18:27	01/26/25 17:28	1
Hexachloroethane	ND		10	5.4	ug/L		01/24/25 18:27	01/26/25 17:28	1
Indene	ND		10	3.8	ug/L		01/24/25 18:27	01/26/25 17:28	1
Isophorone	ND		10	5.4	ug/L		01/24/25 18:27	01/26/25 17:28	1
2-Methylphenol	ND		10	3.3	ug/L		01/24/25 18:27	01/26/25 17:28	1
3 & 4 Methylphenol	ND		21	4.8	ug/L		01/24/25 18:27	01/26/25 17:28	1
2-Nitroaniline	ND		10	5.2	ug/L		01/24/25 18:27	01/26/25 17:28	1
3-Nitroaniline	ND		10	4.9	ug/L		01/24/25 18:27	01/26/25 17:28	1
4-Nitroaniline	ND		10	4.3	ug/L		01/24/25 18:27	01/26/25 17:28	1
Nitrobenzene	ND		10	4.9	ug/L		01/24/25 18:27	01/26/25 17:28	1
2-Nitrophenol	ND		10	4.8	ug/L		01/24/25 18:27	01/26/25 17:28	1
4-Nitrophenol	ND		10	3.4	ug/L		01/24/25 18:27	01/26/25 17:28	1
N-Nitrosodimethylamine	ND		10	2.3	ug/L		01/24/25 18:27	01/26/25 17:28	1
N-Nitrosodi-n-propylamine	ND		10	2.6	ug/L		01/24/25 18:27	01/26/25 17:28	1
N-Nitrosodiphenylamine	ND		10	3.9	ug/L		01/24/25 18:27	01/26/25 17:28	1
Pentachlorophenol	ND		21	12	ug/L		01/24/25 18:27	01/26/25 17:28	1
Phenol	ND		10	4.4	ug/L		01/24/25 18:27	01/26/25 17:28	1
Pyridine	ND	*- UJ	10	10	ug/L		01/24/25 18:27	01/26/25 17:28	1
Quinoline	ND	UJ	10	2.5	ug/L		01/24/25 18:27	01/26/25 17:28	1
2,4,5-Trichlorophenol	ND		10	4.2	ug/L		01/24/25 18:27	01/26/25 17:28	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/24/25 18:27	01/26/25 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		21 - 114	01/24/25 18:27	01/26/25 17:28	1
2-Fluorophenol	48		10 - 105	01/24/25 18:27	01/26/25 17:28	1
Nitrobenzene-d5	71		16 - 127	01/24/25 18:27	01/26/25 17:28	1
Phenol-d5	34		10 - 129	01/24/25 18:27	01/26/25 17:28	1
Terphenyl-d14	103		13 - 150	01/24/25 18:27	01/26/25 17:28	1
2,4,6-Tribromophenol	95		10 - 150	01/24/25 18:27	01/26/25 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/24/25 11:31	01/25/25 00:10	1
Acenaphthylene	ND		0.20	0.046	ug/L		01/24/25 11:31	01/25/25 00:10	1
Anthracene	ND		0.20	0.072	ug/L		01/24/25 11:31	01/25/25 00:10	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/25/25 00:10	1
Benzo[a]pyrene	ND		0.20	0.044	ug/L		01/24/25 11:31	01/25/25 00:10	1
Benzo[b]fluoranthene	ND		0.20	0.041	ug/L		01/24/25 11:31	01/25/25 00:10	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/24/25 11:31	01/25/25 00:10	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW27-ROX-011725

Lab Sample ID: 400-269555-11

Date Collected: 01/17/25 14:00

Matrix: Water

Date Received: 01/18/25 11:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/25/25 00:10	1
Chrysene	ND		0.20	0.038	ug/L		01/24/25 11:31	01/25/25 00:10	1
Dibenz(a,h)anthracene	ND		0.20	0.043	ug/L		01/24/25 11:31	01/25/25 00:10	1
Fluoranthene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/25/25 00:10	1
Fluorene	ND		0.20	0.086	ug/L		01/24/25 11:31	01/25/25 00:10	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/24/25 11:31	01/25/25 00:10	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/24/25 11:31	01/25/25 00:10	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/24/25 11:31	01/25/25 00:10	1
Phenanthrene	ND		0.20	0.043	ug/L		01/24/25 11:31	01/25/25 00:10	1
Pyrene	ND		0.20	0.039	ug/L		01/24/25 11:31	01/25/25 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	120		50 - 150	01/24/25 11:31	01/25/25 00:10	1
Nitrobenzene-d5	96		50 - 150	01/24/25 11:31	01/25/25 00:10	1
Terphenyl-d14	127		50 - 150	01/24/25 11:31	01/25/25 00:10	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/25/25 10:53	01/25/25 18:32	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/25/25 10:53	01/25/25 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	77	p	51 - 149	01/25/25 10:53	01/25/25 18:32	1

Definitions/Glossary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	TOL
		(56-136)	(79-130)	(64-132)
400-269555-1	TB-ROX-011725-8260-A	93	107	96
400-269555-3	MW1-ROX-011725	92	107	98
400-269555-4	P54-ROX-011725	93	107	96
400-269555-5	MW24-ROX-011725	93	106	96
400-269555-6	TB-ROX-011725-8260-B	94	106	98
400-269555-8	MW9-ROX-011725	89	104	95
400-269555-8 MS	MW9-ROX-011725	100	92	97
400-269555-8 MSD	MW9-ROX-011725	100	93	96
400-269555-9	MW10-ROX-011725	92	105	97
400-269555-10	MW28-ROX-011725	91	106	95
400-269555-11	MW27-ROX-011725	93	106	97
LCS 400-697366/1002	Lab Control Sample	100	92	95
MB 400-697366/4	Method Blank	90	105	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(21-114)	(10-105)	(16-127)	(10-129)	(13-150)	(10-150)
400-269555-3	MW1-ROX-011725	97	51	74	37	108	107
400-269555-4	P54-ROX-011725	92	47	71	34	106	103
400-269555-5	MW24-ROX-011725	92	48	71	34	104	93
400-269555-8	MW9-ROX-011725	93	47	69	35	101	94
400-269555-8 MS	MW9-ROX-011725	92	57	76	47	105	115
400-269555-8 MSD	MW9-ROX-011725	96	56	79	44	104	115
400-269555-9	MW10-ROX-011725	97	53	74	38	109	104
400-269555-10	MW28-ROX-011725	103	56	80	41	116	110
400-269555-11	MW27-ROX-011725	93	48	71	34	103	95
LCS 400-697423/16-A	Lab Control Sample	85	49	68	36	99	93
LCS 400-697423/2-A	Lab Control Sample	94	51	78	39	112	118
LCSD 400-697423/17-A	Lab Control Sample Dup	89	50	71	37	105	95
LCSD 400-697423/3-A	Lab Control Sample Dup	95	57	81	44	112	120
MB 400-697423/1-A	Method Blank	89	45	72	31	105	98

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: AECOM

Job ID: 400-269555-1

Project/Site: ROXANA QUARTERLY GW

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (50-150)	NBZ (50-150)	TPHL (50-150)
400-269555-3	MW1-ROX-011725	107	100	119
400-269555-4	P54-ROX-011725	100	94	123
400-269555-5	MW24-ROX-011725	109	90	124
400-269555-8	MW9-ROX-011725	111	94	122
400-269555-8 MS	MW9-ROX-011725	117	104	132
400-269555-8 MSD	MW9-ROX-011725	110	93	118
400-269555-9	MW10-ROX-011725	99	76	115
400-269555-10	MW28-ROX-011725	100	82	107
400-269555-11	MW27-ROX-011725	120	96	127
LCS 400-697302/2-A	Lab Control Sample	117	86	123
MB 400-697302/1-A	Method Blank	98	84	113

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (51-149)
400-269555-2	TB-ROX-011725-8011-A	82
400-269555-3	MW1-ROX-011725	85
400-269555-4	P54-ROX-011725	66 p
400-269555-5	MW24-ROX-011725	74 p
400-269555-7	TB-ROX-011725-8011-B	75
400-269555-8	MW9-ROX-011725	70
400-269555-8 MS	MW9-ROX-011725	70 p
400-269555-8 MSD	MW9-ROX-011725	71 p
400-269555-9	MW10-ROX-011725	83 p
400-269555-10	MW28-ROX-011725	81
400-269555-11	MW27-ROX-011725	77 p
LCS 400-697450/2-A	Lab Control Sample	88 p
LCSD 400-697450/3-A	Lab Control Sample Dup	96
MB 400-697450/1-A	Method Blank	116

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM

Job ID: 400-269555-1

Project/Site: ROXANA QUARTERLY GW

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: TB-ROX-011725-8260-A

Lab Sample ID: 400-269555-1

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 18:39	BPO	EET PEN

Client Sample ID: TB-ROX-011725-8011-A

Lab Sample ID: 400-269555-2

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.2 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 14:40	DS	EET PEN

Client Sample ID: MW1-ROX-011725

Lab Sample ID: 400-269555-3

Date Collected: 01/17/25 10:00

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 19:23	BPO	EET PEN
Total/NA	Prep	3510C			261.4 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 12:51	S1B	EET PEN
Total/NA	Prep	3511			30.2 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 20:13	JAW	EET PEN
Total/NA	Prep	8011			32.1 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 15:01	DS	EET PEN

Client Sample ID: P54-ROX-011725

Lab Sample ID: 400-269555-4

Date Collected: 01/17/25 11:25

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 19:45	BPO	EET PEN
Total/NA	Prep	3510C			264.4 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 13:25	S1B	EET PEN
Total/NA	Prep	3511			30.1 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 20:42	JAW	EET PEN
Total/NA	Prep	8011			34 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 15:22	DS	EET PEN

Client Sample ID: MW24-ROX-011725

Lab Sample ID: 400-269555-5

Date Collected: 01/17/25 13:10

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 20:07	BPO	EET PEN
Total/NA	Prep	3510C			259 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 14:01	S1B	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW24-ROX-011725

Lab Sample ID: 400-269555-5

Date Collected: 01/17/25 13:10

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30.3 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 21:12	JAW	EET PEN
Total/NA	Prep	8011			31.6 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 15:43	DS	EET PEN

Client Sample ID: TB-ROX-011725-8260-B

Lab Sample ID: 400-269555-6

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 19:01	BPO	EET PEN

Client Sample ID: TB-ROX-011725-8011-B

Lab Sample ID: 400-269555-7

Date Collected: 01/17/25 00:00

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			32.9 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 16:04	DS	EET PEN

Client Sample ID: MW9-ROX-011725

Lab Sample ID: 400-269555-8

Date Collected: 01/17/25 09:40

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 16:49	BPO	EET PEN
Total/NA	Prep	3510C			250.4 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 14:36	S1B	EET PEN
Total/NA	Prep	3511			30.3 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1	0 mL	1.0 mL	697397	01/24/25 21:42	JAW	EET PEN
Total/NA	Prep	8011			32.5 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 16:26	DS	EET PEN

Client Sample ID: MW10-ROX-011725

Lab Sample ID: 400-269555-9

Date Collected: 01/17/25 11:00

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 20:29	BPO	EET PEN
Total/NA	Prep	3510C			256.8 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 16:20	S1B	EET PEN
Total/NA	Prep	3511			30.3 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 23:11	JAW	EET PEN
Total/NA	Prep	8011			34 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 17:50	DS	EET PEN

Eurofins Pensacola

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: MW28-ROX-011725

Lab Sample ID: 400-269555-10

Date Collected: 01/17/25 13:00

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 20:51	BPO	EET PEN
Total/NA	Prep	3510C			244.4 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 16:55	S1B	EET PEN
Total/NA	Prep	3511			30.4 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 23:41	JAW	EET PEN
Total/NA	Prep	8011			31.9 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 18:11	DS	EET PEN

Client Sample ID: MW27-ROX-011725

Lab Sample ID: 400-269555-11

Date Collected: 01/17/25 14:00

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 21:13	BPO	EET PEN
Total/NA	Prep	3510C			239.8 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 17:28	S1B	EET PEN
Total/NA	Prep	3511			30.4 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/25/25 00:10	JAW	EET PEN
Total/NA	Prep	8011			32.4 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 18:32	DS	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697302/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697302	01/23/25 15:30	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 16:39	JAW	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697366/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 16:05	BPO	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697423/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 10:15	S1B	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697450/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 13:38	DS	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697302/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697302	01/23/25 15:30	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 17:10	JAW	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697366/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 15:06	BPO	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697423/16-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697423	01/24/25 18:28	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 11:45	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697423/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 10:43	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697450/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 13:59	DS	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697423/17-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697423	01/24/25 18:28	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 12:18	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697423/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 11:13	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697450/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 14:20	DS	EET PEN

Client Sample ID: MW9-ROX-011725

Lab Sample ID: 400-269555-8 MS

Date Collected: 01/17/25 09:40

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 17:33	BPO	EET PEN
Total/NA	Prep	3510C			247.6 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 15:11	S1B	EET PEN
Total/NA	Prep	3511			30.4 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 22:12	JAW	EET PEN
Total/NA	Prep	8011			32.5 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 16:47	DS	EET PEN

Client Sample ID: MW9-ROX-011725

Lab Sample ID: 400-269555-8 MSD

Date Collected: 01/17/25 09:40

Matrix: Water

Date Received: 01/18/25 11:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697366	01/24/25 17:55	BPO	EET PEN
Total/NA	Prep	3510C			245.8 mL	1 mL	697423	01/24/25 18:27	STC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697502	01/26/25 15:45	S1B	EET PEN
Total/NA	Prep	3511			30.4 mL	2 mL	697302	01/24/25 11:31	RAW	EET PEN
Total/NA	Analysis	8270E		1			697397	01/24/25 22:41	JAW	EET PEN
Total/NA	Prep	8011			33.2 mL	35 mL	697450	01/25/25 10:53	KR	EET PEN
Total/NA	Analysis	8011		1			697456	01/25/25 17:29	DS	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

GC/MS VOA

Analysis Batch: 697366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-1	TB-ROX-011725-8260-A	Total/NA	Water	8260D	
400-269555-3	MW1-ROX-011725	Total/NA	Water	8260D	
400-269555-4	P54-ROX-011725	Total/NA	Water	8260D	
400-269555-5	MW24-ROX-011725	Total/NA	Water	8260D	
400-269555-6	TB-ROX-011725-8260-B	Total/NA	Water	8260D	
400-269555-8	MW9-ROX-011725	Total/NA	Water	8260D	
400-269555-9	MW10-ROX-011725	Total/NA	Water	8260D	
400-269555-10	MW28-ROX-011725	Total/NA	Water	8260D	
400-269555-11	MW27-ROX-011725	Total/NA	Water	8260D	
MB 400-697366/4	Method Blank	Total/NA	Water	8260D	
LCS 400-697366/1002	Lab Control Sample	Total/NA	Water	8260D	
400-269555-8 MS	MW9-ROX-011725	Total/NA	Water	8260D	
400-269555-8 MSD	MW9-ROX-011725	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 697302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-3	MW1-ROX-011725	Total/NA	Water	3511	
400-269555-4	P54-ROX-011725	Total/NA	Water	3511	
400-269555-5	MW24-ROX-011725	Total/NA	Water	3511	
400-269555-8	MW9-ROX-011725	Total/NA	Water	3511	
400-269555-9	MW10-ROX-011725	Total/NA	Water	3511	
400-269555-10	MW28-ROX-011725	Total/NA	Water	3511	
400-269555-11	MW27-ROX-011725	Total/NA	Water	3511	
MB 400-697302/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697302/2-A	Lab Control Sample	Total/NA	Water	3511	
400-269555-8 MS	MW9-ROX-011725	Total/NA	Water	3511	
400-269555-8 MSD	MW9-ROX-011725	Total/NA	Water	3511	

Analysis Batch: 697397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-3	MW1-ROX-011725	Total/NA	Water	8270E	697302
400-269555-4	P54-ROX-011725	Total/NA	Water	8270E	697302
400-269555-5	MW24-ROX-011725	Total/NA	Water	8270E	697302
400-269555-8	MW9-ROX-011725	Total/NA	Water	8270E	697302
400-269555-9	MW10-ROX-011725	Total/NA	Water	8270E	697302
400-269555-10	MW28-ROX-011725	Total/NA	Water	8270E	697302
400-269555-11	MW27-ROX-011725	Total/NA	Water	8270E	697302
MB 400-697302/1-A	Method Blank	Total/NA	Water	8270E	697302
LCS 400-697302/2-A	Lab Control Sample	Total/NA	Water	8270E	697302
400-269555-8 MS	MW9-ROX-011725	Total/NA	Water	8270E	697302
400-269555-8 MSD	MW9-ROX-011725	Total/NA	Water	8270E	697302

Prep Batch: 697423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-3	MW1-ROX-011725	Total/NA	Water	3510C	
400-269555-4	P54-ROX-011725	Total/NA	Water	3510C	
400-269555-5	MW24-ROX-011725	Total/NA	Water	3510C	
400-269555-8	MW9-ROX-011725	Total/NA	Water	3510C	
400-269555-9	MW10-ROX-011725	Total/NA	Water	3510C	

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

GC/MS Semi VOA (Continued)

Prep Batch: 697423 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-10	MW28-ROX-011725	Total/NA	Water	3510C	
400-269555-11	MW27-ROX-011725	Total/NA	Water	3510C	
MB 400-697423/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-697423/16-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-697423/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-697423/17-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 400-697423/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
400-269555-8 MS	MW9-ROX-011725	Total/NA	Water	3510C	
400-269555-8 MSD	MW9-ROX-011725	Total/NA	Water	3510C	

Analysis Batch: 697502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-3	MW1-ROX-011725	Total/NA	Water	8270E	697423
400-269555-4	P54-ROX-011725	Total/NA	Water	8270E	697423
400-269555-5	MW24-ROX-011725	Total/NA	Water	8270E	697423
400-269555-8	MW9-ROX-011725	Total/NA	Water	8270E	697423
400-269555-9	MW10-ROX-011725	Total/NA	Water	8270E	697423
400-269555-10	MW28-ROX-011725	Total/NA	Water	8270E	697423
400-269555-11	MW27-ROX-011725	Total/NA	Water	8270E	697423
MB 400-697423/1-A	Method Blank	Total/NA	Water	8270E	697423
LCS 400-697423/16-A	Lab Control Sample	Total/NA	Water	8270E	697423
LCS 400-697423/2-A	Lab Control Sample	Total/NA	Water	8270E	697423
LCSD 400-697423/17-A	Lab Control Sample Dup	Total/NA	Water	8270E	697423
LCSD 400-697423/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	697423
400-269555-8 MS	MW9-ROX-011725	Total/NA	Water	8270E	697423
400-269555-8 MSD	MW9-ROX-011725	Total/NA	Water	8270E	697423

GC Semi VOA

Prep Batch: 697450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-2	TB-ROX-011725-8011-A	Total/NA	Water	8011	
400-269555-3	MW1-ROX-011725	Total/NA	Water	8011	
400-269555-4	P54-ROX-011725	Total/NA	Water	8011	
400-269555-5	MW24-ROX-011725	Total/NA	Water	8011	
400-269555-7	TB-ROX-011725-8011-B	Total/NA	Water	8011	
400-269555-8	MW9-ROX-011725	Total/NA	Water	8011	
400-269555-9	MW10-ROX-011725	Total/NA	Water	8011	
400-269555-10	MW28-ROX-011725	Total/NA	Water	8011	
400-269555-11	MW27-ROX-011725	Total/NA	Water	8011	
MB 400-697450/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-697450/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-697450/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
400-269555-8 MS	MW9-ROX-011725	Total/NA	Water	8011	
400-269555-8 MSD	MW9-ROX-011725	Total/NA	Water	8011	

Analysis Batch: 697456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-2	TB-ROX-011725-8011-A	Total/NA	Water	8011	697450
400-269555-3	MW1-ROX-011725	Total/NA	Water	8011	697450
400-269555-4	P54-ROX-011725	Total/NA	Water	8011	697450

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

GC Semi VOA (Continued)

Analysis Batch: 697456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269555-5	MW24-ROX-011725	Total/NA	Water	8011	697450
400-269555-7	TB-ROX-011725-8011-B	Total/NA	Water	8011	697450
400-269555-8	MW9-ROX-011725	Total/NA	Water	8011	697450
400-269555-9	MW10-ROX-011725	Total/NA	Water	8011	697450
400-269555-10	MW28-ROX-011725	Total/NA	Water	8011	697450
400-269555-11	MW27-ROX-011725	Total/NA	Water	8011	697450
MB 400-697450/1-A	Method Blank	Total/NA	Water	8011	697450
LCS 400-697450/2-A	Lab Control Sample	Total/NA	Water	8011	697450
LCSD 400-697450/3-A	Lab Control Sample Dup	Total/NA	Water	8011	697450
400-269555-8 MS	MW9-ROX-011725	Total/NA	Water	8011	697450
400-269555-8 MSD	MW9-ROX-011725	Total/NA	Water	8011	697450

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: MB 400-697366/4

Matrix: Water

Analysis Batch: 697366

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/24/25 16:05	1
Acrolein	ND		20	3.3	ug/L			01/24/25 16:05	1
Acrylonitrile	ND		10	2.8	ug/L			01/24/25 16:05	1
Benzene	ND		1.0	0.50	ug/L			01/24/25 16:05	1
Bromobenzene	ND		1.0	0.54	ug/L			01/24/25 16:05	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/24/25 16:05	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/24/25 16:05	1
Bromoform	ND		5.0	0.25	ug/L			01/24/25 16:05	1
Bromomethane	ND		1.0	0.98	ug/L			01/24/25 16:05	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/24/25 16:05	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/24/25 16:05	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/24/25 16:05	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/24/25 16:05	1
Chloroethane	ND		1.0	0.76	ug/L			01/24/25 16:05	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/24/25 16:05	1
Chloroform	ND		1.0	0.90	ug/L			01/24/25 16:05	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/24/25 16:05	1
Chloromethane	ND		1.0	0.40	ug/L			01/24/25 16:05	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/24/25 16:05	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/24/25 16:05	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/24/25 16:05	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/24/25 16:05	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/24/25 16:05	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/24/25 16:05	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/24/25 16:05	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/24/25 16:05	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/24/25 16:05	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 16:05	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 16:05	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 16:05	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/24/25 16:05	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/24/25 16:05	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/24/25 16:05	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/24/25 16:05	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/24/25 16:05	1
2-Hexanone	ND		25	4.3	ug/L			01/24/25 16:05	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/24/25 16:05	1
Methylene bromide	ND		5.0	0.22	ug/L			01/24/25 16:05	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/24/25 16:05	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/24/25 16:05	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/24/25 16:05	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/24/25 16:05	1
Naphthalene	ND		5.0	3.0	ug/L			01/24/25 16:05	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/24/25 16:05	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/24/25 16:05	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/24/25 16:05	1
o-Xylene	ND		5.0	3.0	ug/L			01/24/25 16:05	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/24/25 16:05	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: MB 400-697366/4

Matrix: Water

Analysis Batch: 697366

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/24/25 16:05	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/24/25 16:05	1
Styrene	ND		1.0	1.0	ug/L			01/24/25 16:05	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/24/25 16:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/24/25 16:05	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/24/25 16:05	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/24/25 16:05	1
Toluene	ND		1.0	0.90	ug/L			01/24/25 16:05	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/24/25 16:05	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/24/25 16:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/24/25 16:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/24/25 16:05	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/24/25 16:05	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/24/25 16:05	1
Trichloroethene	ND		1.0	0.15	ug/L			01/24/25 16:05	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/24/25 16:05	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/24/25 16:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/24/25 16:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/24/25 16:05	1
Vinyl acetate	ND		25	0.93	ug/L			01/24/25 16:05	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/24/25 16:05	1
Xylenes, Total	ND		10	6.0	ug/L			01/24/25 16:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		56 - 136		01/24/25 16:05	1
Dibromofluoromethane	105		79 - 130		01/24/25 16:05	1
Toluene-d8 (Surr)	97		64 - 132		01/24/25 16:05	1

Lab Sample ID: LCS 400-697366/1002

Matrix: Water

Analysis Batch: 697366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	205		ug/L		103	43 - 150
Acrolein	250	362		ug/L		145	38 - 150
Acrylonitrile	500	432		ug/L		86	64 - 142
Benzene	50.0	50.2		ug/L		100	70 - 130
Bromobenzene	50.0	53.1		ug/L		106	70 - 132
Bromochloromethane	50.0	44.6		ug/L		89	70 - 130
Bromodichloromethane	50.0	45.5		ug/L		91	67 - 133
Bromoform	50.0	42.5		ug/L		85	57 - 140
Bromomethane	25.0	27.6		ug/L		111	10 - 150
2-Butanone (MEK)	200	211		ug/L		106	61 - 145
Carbon disulfide	50.0	45.3		ug/L		91	61 - 137
Carbon tetrachloride	50.0	44.2		ug/L		88	61 - 137
Chlorobenzene	50.0	50.2		ug/L		100	70 - 130
Chloroethane	25.0	20.2		ug/L		81	55 - 141
2-Chloroethyl vinyl ether	25.0	43.8	*+	ug/L		175	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: LCS 400-697366/1002

Matrix: Water

Analysis Batch: 697366

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	42.7		ug/L		85	69 - 130
1-Chlorohexane	50.0	49.1		ug/L		98	69 - 130
Chloromethane	25.0	37.6	*+	ug/L		150	58 - 137
cis-1,2-Dichloroethene	50.0	45.0		ug/L		90	68 - 130
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	69 - 132
Dibromochloromethane	50.0	43.3		ug/L		87	67 - 135
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	67 - 130
1,3-Dichlorobenzene	50.0	54.0		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	54.3		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	32.0		ug/L		128	41 - 146
1,1-Dichloroethane	50.0	46.2		ug/L		92	70 - 130
1,2-Dichloroethane	50.0	41.2		ug/L		82	69 - 130
1,1-Dichloroethene	50.0	48.2		ug/L		96	63 - 134
1,2-Dichloropropane	50.0	52.4		ug/L		105	70 - 130
1,3-Dichloropropane	50.0	46.9		ug/L		94	70 - 130
2,2-Dichloropropane	50.0	44.3		ug/L		89	52 - 135
1,1-Dichloropropene	50.0	51.1		ug/L		102	70 - 130
Ethylbenzene	50.0	51.7		ug/L		103	70 - 130
Ethyl methacrylate	50.0	46.1		ug/L		92	68 - 130
Hexachlorobutadiene	50.0	63.0		ug/L		126	53 - 140
2-Hexanone	200	208		ug/L		104	65 - 137
Isopropylbenzene	50.0	51.4		ug/L		103	70 - 130
Methylene bromide	50.0	43.9		ug/L		88	70 - 130
Methylene Chloride	50.0	47.6		ug/L		95	66 - 135
4-Methyl-2-pentanone (MIBK)	200	184		ug/L		92	69 - 138
Methyl tert-butyl ether	50.0	48.4		ug/L		97	66 - 130
m-Xylene & p-Xylene	50.0	51.9		ug/L		104	70 - 130
Naphthalene	50.0	51.5		ug/L		103	47 - 149
n-Butylbenzene	50.0	59.2		ug/L		118	67 - 130
N-Propylbenzene	50.0	55.8		ug/L		112	70 - 130
o-Chlorotoluene	50.0	52.6		ug/L		105	70 - 130
o-Xylene	50.0	49.7		ug/L		99	70 - 130
p-Chlorotoluene	50.0	52.5		ug/L		105	70 - 130
p-Isopropyltoluene	50.0	57.6		ug/L		115	65 - 130
sec-Butylbenzene	50.0	55.5		ug/L		111	66 - 130
Styrene	50.0	48.2		ug/L		96	70 - 130
tert-Butylbenzene	50.0	51.7		ug/L		103	64 - 139
1,1,1,2-Tetrachloroethane	50.0	47.2		ug/L		94	67 - 131
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/L		94	70 - 131
Tetrachloroethene	50.0	55.4		ug/L		111	65 - 130
Toluene	50.0	49.5		ug/L		99	70 - 130
trans-1,2-Dichloroethene	50.0	48.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	44.8		ug/L		90	63 - 130
1,2,3-Trichlorobenzene	50.0	55.4		ug/L		111	60 - 138
1,2,4-Trichlorobenzene	50.0	58.4		ug/L		117	60 - 140
1,1,1-Trichloroethane	50.0	44.2		ug/L		88	68 - 130
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	70 - 130
Trichloroethene	50.0	52.8		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	31.0		ug/L		124	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: LCS 400-697366/1002

Matrix: Water

Analysis Batch: 697366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	46.8		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	50.0	54.9		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	50.0	54.2		ug/L		108	69 - 130
Vinyl acetate	50.0	79.8	*+	ug/L		160	26 - 150
Vinyl chloride	25.0	36.2	*+	ug/L		145	59 - 136
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		56 - 136
Dibromofluoromethane	92		79 - 130
Toluene-d8 (Surr)	95		64 - 132

Lab Sample ID: 400-269555-8 MS

Matrix: Water

Analysis Batch: 697366

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	ND	F1	200	80.0	F1	ug/L		40	43 - 150
Acrolein	ND		500	657		ug/L		131	38 - 150
Acrylonitrile	ND		500	518		ug/L		104	62 - 149
Benzene	ND		50.0	54.8		ug/L		110	56 - 142
Bromobenzene	ND		50.0	54.8		ug/L		110	59 - 136
Bromochloromethane	ND		50.0	50.4		ug/L		101	64 - 140
Bromodichloromethane	ND		50.0	50.7		ug/L		101	59 - 143
Bromoform	ND		50.0	48.4		ug/L		97	50 - 140
Bromomethane	ND		50.0	29.0		ug/L		58	10 - 150
2-Butanone (MEK)	ND		200	129		ug/L		64	55 - 150
Carbon disulfide	ND		50.0	47.6		ug/L		95	48 - 150
Carbon tetrachloride	ND		50.0	47.6		ug/L		95	55 - 145
Chlorobenzene	ND		50.0	52.3		ug/L		105	64 - 130
Chloroethane	ND	F1	50.0	29.0		ug/L		58	50 - 150
2-Chloroethyl vinyl ether	ND	*+ F1	50.0	ND	F1	ug/L		0	10 - 150
Chloroform	ND		50.0	47.7		ug/L		95	60 - 141
1-Chlorohexane	ND		50.0	47.1		ug/L		94	56 - 136
Chloromethane	ND	*+	50.0	56.7		ug/L		113	49 - 148
cis-1,2-Dichloroethene	ND		50.0	51.0		ug/L		102	59 - 143
cis-1,3-Dichloropropene	ND		50.0	55.4		ug/L		111	57 - 140
Dibromochloromethane	ND		50.0	49.5		ug/L		99	56 - 143
1,2-Dichlorobenzene	ND		50.0	53.5		ug/L		107	52 - 137
1,3-Dichlorobenzene	ND		50.0	53.8		ug/L		108	54 - 135
1,4-Dichlorobenzene	ND		50.0	53.7		ug/L		107	53 - 135
Dichlorodifluoromethane	ND		50.0	52.3		ug/L		105	16 - 150
1,1-Dichloroethane	ND		50.0	51.0		ug/L		102	61 - 144
1,2-Dichloroethane	ND		50.0	47.5		ug/L		95	60 - 141
1,1-Dichloroethene	ND		50.0	50.3		ug/L		101	54 - 147
1,2-Dichloropropane	ND		50.0	58.9		ug/L		118	66 - 137
1,3-Dichloropropane	ND		50.0	55.0		ug/L		110	66 - 133
2,2-Dichloropropane	ND		50.0	47.8		ug/L		96	42 - 144

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: 400-269555-8 MS

Matrix: Water

Analysis Batch: 697366

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	ND		50.0	55.2		ug/L		110	65 - 136
Ethylbenzene	ND		50.0	52.1		ug/L		104	58 - 131
Ethyl methacrylate	ND		50.0	54.5		ug/L		109	64 - 130
Hexachlorobutadiene	ND		50.0	51.2		ug/L		102	31 - 149
2-Hexanone	ND		200	150		ug/L		75	65 - 140
Isopropylbenzene	ND		50.0	50.4		ug/L		101	56 - 133
Methylene bromide	ND		50.0	50.5		ug/L		101	63 - 138
Methylene Chloride	ND		50.0	52.3		ug/L		105	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	203		ug/L		101	63 - 146
Methyl tert-butyl ether	ND		50.0	56.2		ug/L		112	59 - 137
m-Xylene & p-Xylene	ND		50.0	50.4		ug/L		101	57 - 130
Naphthalene	ND		50.0	56.4		ug/L		113	25 - 150
n-Butylbenzene	ND		50.0	51.1		ug/L		102	41 - 142
N-Propylbenzene	ND		50.0	52.0		ug/L		104	51 - 138
o-Chlorotoluene	ND		50.0	52.0		ug/L		104	53 - 134
o-Xylene	ND		50.0	50.9		ug/L		102	61 - 130
p-Chlorotoluene	ND		50.0	50.9		ug/L		102	54 - 133
p-Isopropyltoluene	ND		50.0	51.7		ug/L		103	48 - 139
sec-Butylbenzene	ND		50.0	51.5		ug/L		103	50 - 138
Styrene	ND		50.0	49.6		ug/L		99	58 - 131
tert-Butylbenzene	ND		50.0	50.3		ug/L		101	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	52.0		ug/L		104	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	54.5		ug/L		109	66 - 135
Tetrachloroethene	ND		50.0	51.0		ug/L		102	52 - 133
Toluene	ND		50.0	52.8		ug/L		106	65 - 130
trans-1,2-Dichloroethene	ND		50.0	51.7		ug/L		103	61 - 143
trans-1,3-Dichloropropene	ND		50.0	50.6		ug/L		101	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	55.8		ug/L		112	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	56.5		ug/L		113	39 - 148
1,1,1-Trichloroethane	ND		50.0	48.9		ug/L		98	57 - 142
1,1,2-Trichloroethane	ND		50.0	55.0		ug/L		110	66 - 131
Trichloroethene	ND		50.0	55.7		ug/L		111	64 - 136
Trichlorofluoromethane	ND		50.0	50.2		ug/L		100	54 - 150
1,2,3-Trichloropropane	ND		50.0	55.6		ug/L		111	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	53.4		ug/L		107	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	52.5		ug/L		105	52 - 135
Vinyl acetate	ND	++	100	145		ug/L		145	26 - 150
Vinyl chloride	ND	++	50.0	58.3		ug/L		117	46 - 150
Xylenes, Total	ND		100	101		ug/L		101	59 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene	100		56 - 136						
Dibromofluoromethane	92		79 - 130						
Toluene-d8 (Surr)	97		64 - 132						

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: 400-269555-8 MSD

Matrix: Water

Analysis Batch: 697366

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND	F1	200	80.9	F1	ug/L		40	43 - 150	1	30
Acrolein	ND		500	563		ug/L		113	38 - 150	15	31
Acrylonitrile	ND		500	534		ug/L		107	62 - 149	3	30
Benzene	ND		50.0	56.7		ug/L		113	56 - 142	3	30
Bromobenzene	ND		50.0	58.8		ug/L		118	59 - 136	7	30
Bromochloromethane	ND		50.0	52.4		ug/L		105	64 - 140	4	30
Bromodichloromethane	ND		50.0	52.6		ug/L		105	59 - 143	4	30
Bromoform	ND		50.0	49.7		ug/L		99	50 - 140	3	30
Bromomethane	ND		50.0	31.8		ug/L		64	10 - 150	9	50
2-Butanone (MEK)	ND		200	134		ug/L		67	55 - 150	4	30
Carbon disulfide	ND		50.0	50.1		ug/L		100	48 - 150	5	30
Carbon tetrachloride	ND		50.0	49.7		ug/L		99	55 - 145	4	30
Chlorobenzene	ND		50.0	55.7		ug/L		111	64 - 130	6	30
Chloroethane	ND	F1	50.0	23.9	F1	ug/L		48	50 - 150	19	30
2-Chloroethyl vinyl ether	ND	*+ F1	50.0	ND	F1	ug/L		0	10 - 150	NC	50
Chloroform	ND		50.0	49.3		ug/L		99	60 - 141	3	30
1-Chlorohexane	ND		50.0	51.9		ug/L		104	56 - 136	10	30
Chloromethane	ND	*+	50.0	51.0		ug/L		102	49 - 148	11	31
cis-1,2-Dichloroethene	ND		50.0	52.9		ug/L		106	59 - 143	4	30
cis-1,3-Dichloropropene	ND		50.0	57.8		ug/L		116	57 - 140	4	30
Dibromochloromethane	ND		50.0	51.0		ug/L		102	56 - 143	3	30
1,2-Dichlorobenzene	ND		50.0	57.4		ug/L		115	52 - 137	7	30
1,3-Dichlorobenzene	ND		50.0	58.6		ug/L		117	54 - 135	9	30
1,4-Dichlorobenzene	ND		50.0	58.9		ug/L		118	53 - 135	9	30
Dichlorodifluoromethane	ND		50.0	44.8		ug/L		90	16 - 150	16	31
1,1-Dichloroethane	ND		50.0	53.0		ug/L		106	61 - 144	4	30
1,2-Dichloroethane	ND		50.0	48.7		ug/L		97	60 - 141	3	30
1,1-Dichloroethene	ND		50.0	52.7		ug/L		105	54 - 147	5	30
1,2-Dichloropropane	ND		50.0	60.5		ug/L		121	66 - 137	3	30
1,3-Dichloropropane	ND		50.0	56.5		ug/L		113	66 - 133	3	30
2,2-Dichloropropane	ND		50.0	50.2		ug/L		100	42 - 144	5	31
1,1-Dichloropropene	ND		50.0	56.9		ug/L		114	65 - 136	3	30
Ethylbenzene	ND		50.0	55.7		ug/L		111	58 - 131	7	30
Ethyl methacrylate	ND		50.0	55.5		ug/L		111	64 - 130	2	30
Hexachlorobutadiene	ND		50.0	62.7		ug/L		125	31 - 149	20	36
2-Hexanone	ND		200	153		ug/L		76	65 - 140	2	30
Isopropylbenzene	ND		50.0	55.6		ug/L		111	56 - 133	10	30
Methylene bromide	ND		50.0	52.2		ug/L		104	63 - 138	3	30
Methylene Chloride	ND		50.0	53.9		ug/L		108	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	207		ug/L		104	63 - 146	2	30
Methyl tert-butyl ether	ND		50.0	57.1		ug/L		114	59 - 137	2	30
m-Xylene & p-Xylene	ND		50.0	54.0		ug/L		108	57 - 130	7	30
Naphthalene	ND		50.0	60.8		ug/L		122	25 - 150	8	30
n-Butylbenzene	ND		50.0	59.3		ug/L		119	41 - 142	15	31
N-Propylbenzene	ND		50.0	58.4		ug/L		117	51 - 138	12	30
o-Chlorotoluene	ND		50.0	57.0		ug/L		114	53 - 134	9	30
o-Xylene	ND		50.0	54.3		ug/L		109	61 - 130	6	30
p-Chlorotoluene	ND		50.0	56.9		ug/L		114	54 - 133	11	30

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: 400-269555-8 MSD

Matrix: Water

Analysis Batch: 697366

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	59.6		ug/L		119	48 - 139	14	30
sec-Butylbenzene	ND		50.0	58.4		ug/L		117	50 - 138	13	30
Styrene	ND		50.0	53.5		ug/L		107	58 - 131	8	30
tert-Butylbenzene	ND		50.0	55.5		ug/L		111	54 - 146	10	30
1,1,1,2-Tetrachloroethane	ND		50.0	54.3		ug/L		109	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	55.7		ug/L		111	66 - 135	2	30
Tetrachloroethene	ND		50.0	54.9		ug/L		110	52 - 133	7	30
Toluene	ND		50.0	55.6		ug/L		111	65 - 130	5	30
trans-1,2-Dichloroethene	ND		50.0	53.9		ug/L		108	61 - 143	4	30
trans-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	53 - 133	3	30
1,2,3-Trichlorobenzene	ND		50.0	61.3		ug/L		123	43 - 145	9	30
1,2,4-Trichlorobenzene	ND		50.0	62.9		ug/L		126	39 - 148	11	30
1,1,1-Trichloroethane	ND		50.0	50.9		ug/L		102	57 - 142	4	30
1,1,2-Trichloroethane	ND		50.0	55.8		ug/L		112	66 - 131	1	30
Trichloroethene	ND		50.0	58.1		ug/L		116	64 - 136	4	30
Trichlorofluoromethane	ND		50.0	42.5		ug/L		85	54 - 150	17	30
1,2,3-Trichloropropane	ND		50.0	57.5		ug/L		115	65 - 133	3	30
1,2,4-Trimethylbenzene	ND		50.0	58.9		ug/L		118	50 - 139	10	30
1,3,5-Trimethylbenzene	ND		50.0	58.1		ug/L		116	52 - 135	10	30
Vinyl acetate	ND	+	100	124		ug/L		124	26 - 150	15	33
Vinyl chloride	ND	+	50.0	50.5		ug/L		101	46 - 150	14	30
Xylenes, Total	ND		100	108		ug/L		108	59 - 130	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	100		56 - 136
Dibromofluoromethane	93		79 - 130
Toluene-d8 (Surr)	96		64 - 132

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

Lab Sample ID: MB 400-697423/1-A

Matrix: Water

Analysis Batch: 697502

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		01/24/25 18:27	01/26/25 10:15	1
Benzenethiol	ND		10	9.9	ug/L		01/24/25 18:27	01/26/25 10:15	1
Benzoic acid	ND		30	24	ug/L		01/24/25 18:27	01/26/25 10:15	1
Benzyl alcohol	ND		10	7.3	ug/L		01/24/25 18:27	01/26/25 10:15	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/24/25 18:27	01/26/25 10:15	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/24/25 18:27	01/26/25 10:15	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/24/25 18:27	01/26/25 10:15	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/24/25 18:27	01/26/25 10:15	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/24/25 18:27	01/26/25 10:15	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/24/25 18:27	01/26/25 10:15	1
4-Chloroaniline	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 10:15	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/24/25 18:27	01/26/25 10:15	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/24/25 18:27	01/26/25 10:15	1
2-Chlorophenol	ND		10	4.1	ug/L		01/24/25 18:27	01/26/25 10:15	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: MB 400-697423/1-A

Matrix: Water

Analysis Batch: 697502

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/24/25 18:27	01/26/25 10:15	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/24/25 18:27	01/26/25 10:15	1
Dibenzofuran	ND		10	4.0	ug/L		01/24/25 18:27	01/26/25 10:15	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/24/25 18:27	01/26/25 10:15	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/24/25 18:27	01/26/25 10:15	1
Diethyl phthalate	ND		10	4.4	ug/L		01/24/25 18:27	01/26/25 10:15	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/24/25 18:27	01/26/25 10:15	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/24/25 18:27	01/26/25 10:15	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/24/25 18:27	01/26/25 10:15	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/24/25 18:27	01/26/25 10:15	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/24/25 18:27	01/26/25 10:15	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/24/25 18:27	01/26/25 10:15	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/24/25 18:27	01/26/25 10:15	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/24/25 18:27	01/26/25 10:15	1
1,4-Dioxane	ND		10	4.3	ug/L		01/24/25 18:27	01/26/25 10:15	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/24/25 18:27	01/26/25 10:15	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/24/25 18:27	01/26/25 10:15	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/24/25 18:27	01/26/25 10:15	1
Hexachloroethane	ND		10	5.2	ug/L		01/24/25 18:27	01/26/25 10:15	1
Indene	ND		10	3.6	ug/L		01/24/25 18:27	01/26/25 10:15	1
Isophorone	ND		10	5.2	ug/L		01/24/25 18:27	01/26/25 10:15	1
2-Methylphenol	ND		10	3.2	ug/L		01/24/25 18:27	01/26/25 10:15	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/24/25 18:27	01/26/25 10:15	1
2-Nitroaniline	ND		10	5.0	ug/L		01/24/25 18:27	01/26/25 10:15	1
3-Nitroaniline	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 10:15	1
4-Nitroaniline	ND		10	4.1	ug/L		01/24/25 18:27	01/26/25 10:15	1
Nitrobenzene	ND		10	4.7	ug/L		01/24/25 18:27	01/26/25 10:15	1
2-Nitrophenol	ND		10	4.6	ug/L		01/24/25 18:27	01/26/25 10:15	1
4-Nitrophenol	ND		10	3.3	ug/L		01/24/25 18:27	01/26/25 10:15	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/24/25 18:27	01/26/25 10:15	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/24/25 18:27	01/26/25 10:15	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/24/25 18:27	01/26/25 10:15	1
Pentachlorophenol	ND		20	12	ug/L		01/24/25 18:27	01/26/25 10:15	1
Phenol	ND		10	4.2	ug/L		01/24/25 18:27	01/26/25 10:15	1
Pyridine	ND		10	10	ug/L		01/24/25 18:27	01/26/25 10:15	1
Quinoline	ND		10	2.4	ug/L		01/24/25 18:27	01/26/25 10:15	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/24/25 18:27	01/26/25 10:15	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/24/25 18:27	01/26/25 10:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		21 - 114	01/24/25 18:27	01/26/25 10:15	1
2-Fluorophenol	45		10 - 105	01/24/25 18:27	01/26/25 10:15	1
Nitrobenzene-d5	72		16 - 127	01/24/25 18:27	01/26/25 10:15	1
Phenol-d5	31		10 - 129	01/24/25 18:27	01/26/25 10:15	1
Terphenyl-d14	105		13 - 150	01/24/25 18:27	01/26/25 10:15	1
2,4,6-Tribromophenol	98		10 - 150	01/24/25 18:27	01/26/25 10:15	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: LCS 400-697423/16-A
Matrix: Water
Analysis Batch: 697502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 697423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzenethiol	120	68.9		ug/L		57	10 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	85		21 - 114				
2-Fluorophenol	49		10 - 105				
Nitrobenzene-d5	68		16 - 127				
Phenol-d5	36		10 - 129				
Terphenyl-d14	99		13 - 150				
2,4,6-Tribromophenol	93		10 - 150				

Lab Sample ID: LCS 400-697423/2-A
Matrix: Water
Analysis Batch: 697502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 697423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	120	27.0		ug/L		23	10 - 127
Benzoic acid	493	162		ug/L		33	19 - 126
Benzyl alcohol	120	68.1		ug/L		57	17 - 109
Bis(2-chloroethoxy)methane	120	94.9		ug/L		79	24 - 125
Bis(2-chloroethyl)ether	120	111		ug/L		93	10 - 121
bis (2-chloroisopropyl) ether	120	71.3		ug/L		59	14 - 123
Bis(2-ethylhexyl) phthalate	120	103		ug/L		86	16 - 150
4-Bromophenyl phenyl ether	120	124		ug/L		103	17 - 150
Butyl benzyl phthalate	120	102		ug/L		85	21 - 150
4-Chloroaniline	120	86.0		ug/L		72	10 - 124
4-Chloro-3-methylphenol	120	103		ug/L		86	37 - 131
2-Chloronaphthalene	120	116		ug/L		97	24 - 132
2-Chlorophenol	120	88.1		ug/L		73	27 - 124
4-Chlorophenyl phenyl ether	120	119		ug/L		99	27 - 147
Dibenz[a,h]acridine	59.9	66.4		ug/L		111	40 - 140
Dibenzofuran	120	111		ug/L		93	30 - 135
3,3'-Dichlorobenzidine	160	236		ug/L		147	10 - 150
2,4-Dichlorophenol	120	106		ug/L		89	33 - 132
Diethyl phthalate	120	109		ug/L		91	37 - 145
2,4-Dimethylphenol	120	95.8		ug/L		80	38 - 132
Dimethyl phthalate	120	107		ug/L		89	32 - 137
Di-n-butyl phthalate	120	116		ug/L		97	27 - 150
4,6-Dinitro-ortho-cresol	240	274		ug/L		114	14 - 150
2,4-Dinitrophenol	240	306		ug/L		128	15 - 150
2,4-Dinitrotoluene	120	120		ug/L		100	35 - 136
2,6-Dinitrotoluene	120	110		ug/L		92	29 - 140
Di-n-octyl phthalate	120	107		ug/L		89	26 - 150
1,4-Dioxane	120	36.9		ug/L		31	10 - 87
1,2-Diphenylhydrazine (as Azobenzene)	120	89.1		ug/L		74	23 - 138
Hexachlorobenzene	120	136		ug/L		113	10 - 150
Hexachlorocyclopentadiene	120	97.7		ug/L		81	10 - 124
Hexachloroethane	120	79.1		ug/L		66	10 - 127

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: LCS 400-697423/2-A

Matrix: Water

Analysis Batch: 697502

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indene	120	82.5		ug/L		69	18 - 150
Isophorone	120	86.1		ug/L		72	28 - 127
2-Methylphenol	120	85.7		ug/L		71	34 - 124
3 & 4 Methylphenol	120	81.3		ug/L		68	32 - 122
2-Nitroaniline	120	103		ug/L		86	24 - 139
3-Nitroaniline	120	89.1		ug/L		74	10 - 128
4-Nitroaniline	120	106		ug/L		88	28 - 118
Nitrobenzene	120	76.4		ug/L		64	29 - 120
2-Nitrophenol	120	105		ug/L		87	25 - 148
4-Nitrophenol	240	159		ug/L		66	12 - 129
N-Nitrosodimethylamine	120	40.5		ug/L		34	10 - 115
N-Nitrosodi-n-propylamine	120	93.8		ug/L		78	24 - 142
N-Nitrosodiphenylamine	119	107		ug/L		90	29 - 138
Pentachlorophenol	240	255		ug/L		106	19 - 150
Phenol	120	51.7		ug/L		43	11 - 95
Pyridine	240	20.2	*-	ug/L		8	10 - 82
Quinoline	59.9	26.2		ug/L		44	10 - 141
2,4,5-Trichlorophenol	120	109		ug/L		91	30 - 144
2,4,6-Trichlorophenol	120	111		ug/L		93	27 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	94		21 - 114
2-Fluorophenol	51		10 - 105
Nitrobenzene-d5	78		16 - 127
Phenol-d5	39		10 - 129
Terphenyl-d14	112		13 - 150
2,4,6-Tribromophenol	118		10 - 150

Lab Sample ID: LCSD 400-697423/17-A

Matrix: Water

Analysis Batch: 697502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697423

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzenethiol	120	76.2		ug/L		64	10 - 140	10	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	89		21 - 114
2-Fluorophenol	50		10 - 105
Nitrobenzene-d5	71		16 - 127
Phenol-d5	37		10 - 129
Terphenyl-d14	105		13 - 150
2,4,6-Tribromophenol	95		10 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: LCSD 400-697423/3-A

Matrix: Water

Analysis Batch: 697502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697423

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	120	40.3		ug/L		34	10 - 127	39	40
Benzoic acid	493	169		ug/L		34	19 - 126	4	40
Benzyl alcohol	120	78.0		ug/L		65	17 - 109	14	40
Bis(2-chloroethoxy)methane	120	106		ug/L		88	24 - 125	11	40
Bis(2-chloroethyl)ether	120	84.6		ug/L		71	10 - 121	27	40
bis (2-chloroisopropyl) ether	120	78.0		ug/L		65	14 - 123	9	40
Bis(2-ethylhexyl) phthalate	120	108		ug/L		90	16 - 150	4	40
4-Bromophenyl phenyl ether	120	132		ug/L		110	17 - 150	7	40
Butyl benzyl phthalate	120	108		ug/L		90	21 - 150	5	40
4-Chloroaniline	120	104		ug/L		86	10 - 124	19	40
4-Chloro-3-methylphenol	120	113		ug/L		94	37 - 131	9	40
2-Chloronaphthalene	120	126		ug/L		105	24 - 132	8	40
2-Chlorophenol	120	98.7		ug/L		82	27 - 124	11	40
4-Chlorophenyl phenyl ether	120	126		ug/L		105	27 - 147	6	40
Dibenz[a,h]acridine	59.9	71.6		ug/L		120	40 - 140	8	40
Dibenzofuran	120	118		ug/L		99	30 - 135	6	40
3,3'-Dichlorobenzidine	160	262	*+	ug/L		163	10 - 150	10	40
2,4-Dichlorophenol	120	116		ug/L		96	33 - 132	8	40
Diethyl phthalate	120	116		ug/L		96	37 - 145	6	40
2,4-Dimethylphenol	120	103		ug/L		86	38 - 132	8	40
Dimethyl phthalate	120	115		ug/L		95	32 - 137	7	40
Di-n-butyl phthalate	120	121		ug/L		101	27 - 150	4	40
4,6-Dinitro-ortho-cresol	240	305		ug/L		127	14 - 150	11	40
2,4-Dinitrophenol	240	354		ug/L		148	15 - 150	15	40
2,4-Dinitrotoluene	120	128		ug/L		107	35 - 136	7	40
2,6-Dinitrotoluene	120	118		ug/L		99	29 - 140	7	40
Di-n-octyl phthalate	120	113		ug/L		95	26 - 150	6	40
1,4-Dioxane	120	43.6		ug/L		36	10 - 87	17	40
1,2-Diphenylhydrazine (as Azobenzene)	120	95.2		ug/L		79	23 - 138	7	40
Hexachlorobenzene	120	145		ug/L		120	10 - 150	6	40
Hexachlorocyclopentadiene	120	110		ug/L		92	10 - 124	12	40
Hexachloroethane	120	85.5		ug/L		71	10 - 127	8	40
Indene	120	92.8		ug/L		77	18 - 150	12	40
Isophorone	120	91.5		ug/L		76	28 - 127	6	40
2-Methylphenol	120	95.1		ug/L		79	34 - 124	10	40
3 & 4 Methylphenol	120	91.0		ug/L		76	32 - 122	11	40
2-Nitroaniline	120	82.6		ug/L		69	24 - 139	22	40
3-Nitroaniline	120	112		ug/L		93	10 - 128	22	40
4-Nitroaniline	120	114		ug/L		95	28 - 118	7	40
Nitrobenzene	120	83.9		ug/L		70	29 - 120	9	40
2-Nitrophenol	120	115		ug/L		95	25 - 148	9	40
4-Nitrophenol	240	173		ug/L		72	12 - 129	9	40
N-Nitrosodimethylamine	120	47.3		ug/L		39	10 - 115	15	40
N-Nitrosodi-n-propylamine	120	102		ug/L		85	24 - 142	8	40
N-Nitrosodiphenylamine	119	116		ug/L		97	29 - 138	8	40
Pentachlorophenol	240	277		ug/L		115	19 - 150	8	40
Phenol	120	59.0		ug/L		49	11 - 95	13	40
Pyridine	240	24.6		ug/L		10	10 - 82	20	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: LCSD 400-697423/3-A

Matrix: Water

Analysis Batch: 697502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697423

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Quinoline	59.9	32.8		ug/L		55	10 - 141	23	40
2,4,5-Trichlorophenol	120	109		ug/L		91	30 - 144	0	40
2,4,6-Trichlorophenol	120	133		ug/L		111	27 - 147	18	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	95		21 - 114
2-Fluorophenol	57		10 - 105
Nitrobenzene-d5	81		16 - 127
Phenol-d5	44		10 - 129
Terphenyl-d14	112		13 - 150
2,4,6-Tribromophenol	120		10 - 150

Lab Sample ID: 400-269555-8 MS

Matrix: Water

Analysis Batch: 697502

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	ND	F1	121	34.6	F1	ug/L		29	50 - 150
Benzoic acid	ND	F1	497	203	F1	ug/L		41	50 - 150
Benzyl alcohol	ND		121	76.7		ug/L		63	50 - 150
Bis(2-chloroethoxy)methane	ND		121	97.3		ug/L		80	50 - 150
Bis(2-chloroethyl)ether	ND		121	96.0		ug/L		79	50 - 150
bis (2-chloroisopropyl) ether	ND		121	74.2		ug/L		61	50 - 150
Bis(2-ethylhexyl) phthalate	ND		121	106		ug/L		87	50 - 150
4-Bromophenyl phenyl ether	ND		121	126		ug/L		104	50 - 150
Butyl benzyl phthalate	ND		121	104		ug/L		86	50 - 150
4-Chloroaniline	ND		121	88.2		ug/L		73	50 - 150
4-Chloro-3-methylphenol	ND		121	107		ug/L		88	50 - 150
2-Chloronaphthalene	ND		121	130		ug/L		107	50 - 150
2-Chlorophenol	ND		121	95.1		ug/L		79	50 - 150
4-Chlorophenyl phenyl ether	ND		121	122		ug/L		101	50 - 150
Dibenz[a,h]acridine	ND		60.4	61.9		ug/L		102	50 - 150
Dibenzofuran	ND		121	115		ug/L		95	50 - 150
3,3'-Dichlorobenzidine	ND	*+ F1	162	237		ug/L		147	50 - 150
2,4-Dichlorophenol	ND		121	111		ug/L		92	50 - 150
Diethyl phthalate	ND		121	112		ug/L		92	50 - 150
2,4-Dimethylphenol	ND		121	101		ug/L		83	50 - 150
Dimethyl phthalate	ND		121	110		ug/L		90	50 - 150
Di-n-butyl phthalate	ND		121	118		ug/L		97	50 - 150
4,6-Dinitro-ortho-cresol	ND		242	291		ug/L		120	50 - 150
2,4-Dinitrophenol	ND		242	346		ug/L		143	50 - 150
2,4-Dinitrotoluene	ND		121	124		ug/L		102	50 - 150
2,6-Dinitrotoluene	ND		121	113		ug/L		93	50 - 150
Di-n-octyl phthalate	ND		121	111		ug/L		92	50 - 150
1,4-Dioxane	ND	F1	121	42.5	F1	ug/L		35	50 - 150
1,2-Diphenylhydrazine (as Azobenzene)	ND		121	90.0		ug/L		74	50 - 150
Hexachlorobenzene	ND		121	138		ug/L		114	50 - 150
Hexachlorocyclopentadiene	ND		121	109		ug/L		90	50 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: 400-269555-8 MS

Matrix: Water

Analysis Batch: 697502

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	ND		121	85.6		ug/L		71	50 - 150
Indene	ND		121	85.0		ug/L		70	50 - 150
Isophorone	ND		121	87.2		ug/L		72	50 - 150
2-Methylphenol	ND		121	94.5		ug/L		78	50 - 150
3 & 4 Methylphenol	ND		121	90.8		ug/L		75	50 - 150
2-Nitroaniline	ND		121	107		ug/L		88	50 - 150
3-Nitroaniline	ND		121	93.4		ug/L		77	50 - 150
4-Nitroaniline	ND		121	104		ug/L		86	50 - 150
Nitrobenzene	ND		121	80.0		ug/L		66	50 - 150
2-Nitrophenol	ND		121	110		ug/L		91	50 - 150
4-Nitrophenol	ND		242	192		ug/L		79	50 - 150
N-Nitrosodimethylamine	ND	F1	121	46.6	F1	ug/L		38	50 - 150
N-Nitrosodi-n-propylamine	ND		121	96.7		ug/L		80	50 - 150
N-Nitrosodiphenylamine	ND		120	109		ug/L		90	50 - 150
Pentachlorophenol	ND		242	271		ug/L		112	50 - 150
Phenol	ND		121	64.1		ug/L		53	50 - 150
Pyridine	ND	*- F1	242	33.0	F1	ug/L		14	50 - 150
Quinoline	ND	F1	60.4	27.3	F1	ug/L		45	50 - 150
2,4,5-Trichlorophenol	ND		121	112		ug/L		93	50 - 150
2,4,6-Trichlorophenol	ND		121	118		ug/L		97	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	92		21 - 114
2-Fluorophenol	57		10 - 105
Nitrobenzene-d5	76		16 - 127
Phenol-d5	47		10 - 129
Terphenyl-d14	105		13 - 150
2,4,6-Tribromophenol	115		10 - 150

Lab Sample ID: 400-269555-8 MSD

Matrix: Water

Analysis Batch: 697502

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	ND	F1	122	29.6	F1	ug/L		24	50 - 150	16	40
Benzoic acid	ND	F1	501	190	F1	ug/L		38	50 - 150	7	40
Benzyl alcohol	ND		122	77.6		ug/L		64	50 - 150	1	40
Bis(2-chloroethoxy)methane	ND		122	107		ug/L		87	50 - 150	9	40
Bis(2-chloroethyl)ether	ND		122	130		ug/L		107	50 - 150	30	40
bis (2-chloroisopropyl) ether	ND		122	77.1		ug/L		63	50 - 150	4	40
Bis(2-ethylhexyl) phthalate	ND		122	106		ug/L		87	50 - 150	0	40
4-Bromophenyl phenyl ether	ND		122	135		ug/L		110	50 - 150	7	40
Butyl benzyl phthalate	ND		122	106		ug/L		87	50 - 150	2	40
4-Chloroaniline	ND		122	96.4		ug/L		79	50 - 150	9	40
4-Chloro-3-methylphenol	ND		122	109		ug/L		90	50 - 150	2	40
2-Chloronaphthalene	ND		122	121		ug/L		99	50 - 150	7	40
2-Chlorophenol	ND		122	97.6		ug/L		80	50 - 150	3	40
4-Chlorophenyl phenyl ether	ND		122	127		ug/L		104	50 - 150	3	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: 400-269555-8 MSD

Matrix: Water

Analysis Batch: 697502

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenz[a,h]acridine	ND		60.9	64.9		ug/L		107	50 - 150	5	40
Dibenzofuran	ND		122	119		ug/L		97	50 - 150	3	40
3,3'-Dichlorobenzidine	ND	*+ F1	163	253	F1	ug/L		155	50 - 150	7	40
2,4-Dichlorophenol	ND		122	115		ug/L		94	50 - 150	3	40
Diethyl phthalate	ND		122	116		ug/L		95	50 - 150	3	40
2,4-Dimethylphenol	ND		122	102		ug/L		84	50 - 150	2	40
Dimethyl phthalate	ND		122	115		ug/L		94	50 - 150	5	40
Di-n-butyl phthalate	ND		122	122		ug/L		100	50 - 150	4	40
4,6-Dinitro-ortho-cresol	ND		244	292		ug/L		120	50 - 150	0	40
2,4-Dinitrophenol	ND		244	321		ug/L		131	50 - 150	7	40
2,4-Dinitrotoluene	ND		122	127		ug/L		104	50 - 150	3	40
2,6-Dinitrotoluene	ND		122	119		ug/L		97	50 - 150	5	40
Di-n-octyl phthalate	ND		122	113		ug/L		93	50 - 150	2	40
1,4-Dioxane	ND	F1	122	41.3	F1	ug/L		34	50 - 150	3	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		122	97.5		ug/L		80	50 - 150	8	40
Hexachlorobenzene	ND		122	146		ug/L		120	50 - 150	6	40
Hexachlorocyclopentadiene	ND		122	104		ug/L		85	50 - 150	4	40
Hexachloroethane	ND		122	88.8		ug/L		73	50 - 150	4	40
Indene	ND		122	88.8		ug/L		73	50 - 150	4	40
Isophorone	ND		122	91.3		ug/L		75	50 - 150	5	40
2-Methylphenol	ND		122	94.9		ug/L		78	50 - 150	0	40
3 & 4 Methylphenol	ND		122	87.0		ug/L		71	50 - 150	4	40
2-Nitroaniline	ND		122	111		ug/L		91	50 - 150	3	40
3-Nitroaniline	ND		122	102		ug/L		84	50 - 150	9	40
4-Nitroaniline	ND		122	117		ug/L		96	50 - 150	11	40
Nitrobenzene	ND		122	82.5		ug/L		68	50 - 150	3	40
2-Nitrophenol	ND		122	112		ug/L		92	50 - 150	1	40
4-Nitrophenol	ND		244	176		ug/L		72	50 - 150	9	40
N-Nitrosodimethylamine	ND	F1	122	46.7	F1	ug/L		38	50 - 150	0	40
N-Nitrosodi-n-propylamine	ND		122	99.5		ug/L		81	50 - 150	3	40
N-Nitrosodiphenylamine	ND		121	116		ug/L		96	50 - 150	7	40
Pentachlorophenol	ND		244	271		ug/L		111	50 - 150	0	40
Phenol	ND		122	60.9		ug/L		50	50 - 150	5	40
Pyridine	ND	*- F1	244	35.0	F1	ug/L		14	50 - 150	6	40
Quinoline	ND	F1	60.9	32.2		ug/L		53	50 - 150	16	40
2,4,5-Trichlorophenol	ND		122	119		ug/L		97	50 - 150	5	40
2,4,6-Trichlorophenol	ND		122	118		ug/L		97	50 - 150	0	40

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl	96		21 - 114
2-Fluorophenol	56		10 - 105
Nitrobenzene-d5	79		16 - 127
Phenol-d5	44		10 - 129
Terphenyl-d14	104		13 - 150
2,4,6-Tribromophenol	115		10 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: MB 400-697302/1-A

Matrix: Water

Analysis Batch: 697397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.085	ug/L		01/23/25 15:30	01/24/25 16:39	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/23/25 15:30	01/24/25 16:39	1
Anthracene	ND		0.20	0.073	ug/L		01/23/25 15:30	01/24/25 16:39	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/23/25 15:30	01/24/25 16:39	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/23/25 15:30	01/24/25 16:39	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/23/25 15:30	01/24/25 16:39	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/23/25 15:30	01/24/25 16:39	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/23/25 15:30	01/24/25 16:39	1
Chrysene	ND		0.20	0.039	ug/L		01/23/25 15:30	01/24/25 16:39	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/23/25 15:30	01/24/25 16:39	1
Fluoranthene	ND		0.20	0.032	ug/L		01/23/25 15:30	01/24/25 16:39	1
Fluorene	ND		0.20	0.087	ug/L		01/23/25 15:30	01/24/25 16:39	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/23/25 15:30	01/24/25 16:39	1
1-Methylnaphthalene	ND		0.20	0.066	ug/L		01/23/25 15:30	01/24/25 16:39	1
2-Methylnaphthalene	ND		0.20	0.077	ug/L		01/23/25 15:30	01/24/25 16:39	1
Phenanthrene	ND		0.20	0.044	ug/L		01/23/25 15:30	01/24/25 16:39	1
Pyrene	ND		0.20	0.040	ug/L		01/23/25 15:30	01/24/25 16:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		50 - 150	01/23/25 15:30	01/24/25 16:39	1
Nitrobenzene-d5	84		50 - 150	01/23/25 15:30	01/24/25 16:39	1
Terphenyl-d14	113		50 - 150	01/23/25 15:30	01/24/25 16:39	1

Lab Sample ID: LCS 400-697302/2-A

Matrix: Water

Analysis Batch: 697397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	2.84		ug/L		85	50 - 150
Acenaphthylene	3.34	2.78		ug/L		83	50 - 150
Anthracene	3.34	2.99		ug/L		90	50 - 150
Benzo[a]anthracene	3.34	2.96		ug/L		89	50 - 150
Benzo[a]pyrene	3.34	2.89		ug/L		87	50 - 150
Benzo[b]fluoranthene	3.34	2.91		ug/L		87	50 - 150
Benzo[g,h,i]perylene	3.34	2.92		ug/L		88	50 - 150
Benzo[k]fluoranthene	3.34	3.09		ug/L		93	50 - 150
Chrysene	3.34	3.29		ug/L		99	50 - 150
Dibenz(a,h)anthracene	3.34	2.86		ug/L		86	50 - 150
Fluoranthene	3.34	2.96		ug/L		89	50 - 150
Fluorene	3.34	3.06		ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.21		ug/L		96	50 - 150
1-Methylnaphthalene	3.34	2.18		ug/L		65	50 - 150
2-Methylnaphthalene	3.34	2.07		ug/L		62	50 - 150
Phenanthrene	3.34	2.98		ug/L		89	50 - 150
Pyrene	3.34	2.97		ug/L		89	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	117		50 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: LCS 400-697302/2-A

Matrix: Water

Analysis Batch: 697397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697302

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	86		50 - 150
Terphenyl-d14	123		50 - 150

Lab Sample ID: 400-269555-8 MS

Matrix: Water

Analysis Batch: 697397

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	ND		3.29	3.05		ug/L		93	50 - 150
Acenaphthylene	ND		3.29	2.68		ug/L		81	50 - 150
Anthracene	ND		3.29	3.10		ug/L		94	50 - 150
Benzo[a]anthracene	ND		3.29	3.07		ug/L		93	50 - 150
Benzo[a]pyrene	ND		3.29	3.28		ug/L		100	50 - 150
Benzo[b]fluoranthene	ND		3.29	3.13		ug/L		95	50 - 150
Benzo[g,h,i]perylene	ND		3.29	3.48		ug/L		106	50 - 150
Benzo[k]fluoranthene	ND		3.29	3.51		ug/L		107	50 - 150
Chrysene	ND		3.29	3.49		ug/L		106	50 - 150
Dibenz(a,h)anthracene	ND		3.29	3.29		ug/L		100	50 - 150
Fluoranthene	ND		3.29	3.08		ug/L		94	50 - 150
Fluorene	ND		3.29	2.83		ug/L		86	50 - 150
Indeno[1,2,3-cd]pyrene	ND		3.29	3.68		ug/L		112	50 - 150
1-Methylnaphthalene	ND		3.29	2.39		ug/L		72	50 - 150
2-Methylnaphthalene	ND		3.29	2.21		ug/L		67	50 - 150
Phenanthrene	ND		3.29	3.02		ug/L		92	50 - 150
Pyrene	ND		3.29	3.14		ug/L		95	50 - 150

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	117		50 - 150
Nitrobenzene-d5	104		50 - 150
Terphenyl-d14	132		50 - 150

Lab Sample ID: 400-269555-8 MSD

Matrix: Water

Analysis Batch: 697397

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	ND		3.29	3.42		ug/L		104	50 - 150	11	40
Acenaphthylene	ND		3.29	3.15		ug/L		96	50 - 150	16	40
Anthracene	ND		3.29	3.31		ug/L		101	50 - 150	6	40
Benzo[a]anthracene	ND		3.29	3.27		ug/L		99	50 - 150	6	40
Benzo[a]pyrene	ND		3.29	3.23		ug/L		98	50 - 150	2	40
Benzo[b]fluoranthene	ND		3.29	3.05		ug/L		93	50 - 150	2	40
Benzo[g,h,i]perylene	ND		3.29	3.18		ug/L		97	50 - 150	9	40
Benzo[k]fluoranthene	ND		3.29	3.51		ug/L		107	50 - 150	0	40
Chrysene	ND		3.29	3.72		ug/L		113	50 - 150	6	40
Dibenz(a,h)anthracene	ND		3.29	3.12		ug/L		95	50 - 150	5	40
Fluoranthene	ND		3.29	3.26		ug/L		99	50 - 150	6	40
Fluorene	ND		3.29	3.34		ug/L		101	50 - 150	16	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

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

Lab Sample ID: 400-269555-8 MSD

Matrix: Water

Analysis Batch: 697397

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	ND		3.29	3.43		ug/L		104	50 - 150	7	40
1-Methylnaphthalene	ND		3.29	2.97		ug/L		90	50 - 150	22	40
2-Methylnaphthalene	ND		3.29	2.75		ug/L		84	50 - 150	22	40
Phenanthrene	ND		3.29	3.29		ug/L		100	50 - 150	9	40
Pyrene	ND		3.29	3.35		ug/L		102	50 - 150	7	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	110		50 - 150
Nitrobenzene-d5	93		50 - 150
Terphenyl-d14	118		50 - 150

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-697450/1-A

Matrix: Water

Analysis Batch: 697456

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/25/25 10:53	01/25/25 13:38	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/25/25 10:53	01/25/25 13:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	116		51 - 149	01/25/25 10:53	01/25/25 13:38	1

Lab Sample ID: LCS 400-697450/2-A

Matrix: Water

Analysis Batch: 697456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.101	0.0817		ug/L		81	60 - 140
1,2-Dibromoethane	0.100	0.0965		ug/L		96	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	88 p		51 - 149

Lab Sample ID: LCSD 400-697450/3-A

Matrix: Water

Analysis Batch: 697456

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.101	0.0908		ug/L		90	60 - 140	9	30
1,2-Dibromoethane	0.100	0.101		ug/L		101	60 - 140	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		51 - 149

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW

Job ID: 400-269555-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: 400-269555-8 MS

Matrix: Water

Analysis Batch: 697456

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	ND		0.108	0.0939		ug/L		87	10 - 150
1,2-Dibromoethane	ND		0.108	0.0883		ug/L		82	39 - 150
	MS MS								
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene	70	p	51 - 149						

Lab Sample ID: 400-269555-8 MSD

Matrix: Water

Analysis Batch: 697456

Client Sample ID: MW9-ROX-011725

Prep Type: Total/NA

Prep Batch: 697450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		0.106	0.0924		ug/L		87	10 - 150	2	20
1,2-Dibromoethane	ND		0.106	0.0875		ug/L		83	39 - 150	1	20
	MSD MSD										
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	71	p	51 - 149								

LAB (LOCATION)

☐ ROUTE ()
☐ CALSCIENCE ()
☒ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr.
Pensacola, FL 32514 (850-474-1001))
☐ Other ()

Lab Vendor # 1364589 (TestAmerica)



Shell Oil Products US Chain Of Custody Record

AECOM

Please Check Appropriate Box:				Print Bill To Contact Name:		PlanNet Site or Project ID		CHECK IF NO INCIDENT # APPLIES	
☐ PIPELINE ☐ RETAIL				Melissa Remiger		25278		DATE: 1/17/2025	
☐ CHEMICALS ☐ LUBES				PO #		GSAP Project ID		PAGE: 1 of 2	
☐ TRANSPORTATION				60738191 - 3.1.2		USPC00114/R/02			
SAMPLING COMPANY:				SITE ADDRESS: Street and City		State		AECOM Project / Task Number:	
AECOM				900 South Central Ave; ROXANA		IL		Roxana Quarry GW	
ADDRESS:				EDF DELIVERABLE TO (Name, Company, Office Location):		PHONE NO.:		AECOM Other ID:	
100 N. Broadway, 20th Floor, ST. LOUIS, MO 63102, USA				Melissa Remiger - please see special instructions 314-802-1207		314-802-1207		Roxana 1025 Groundwater	
PROJECT CONTACT (Hardcopy or PDF Report to):				SAMPLER NAME(S) (Print):		E-MAIL:		LAB USE ONLY	
Melissa Remiger, Mary Massa, Brett Howell				S.McLean, T.Jenkins		melissa.remiger@aecom.com		400-269555 COC	
TELEPHONE:				BILL TO CONTACT E-MAIL:		LOG CODE:		REQUESTED ANALYSIS	
314-425-0100				melissa.remiger@aecom.com				60738191 - 3.1.2	
FAX: 314-425-0462								FIELD NOTES:	
TURNAROUND TIME (CALENDAR DAYS):				RESULTS NEEDED ON				TEMPERATURE ON RECEIPT C°	
☒ STANDARD (1-4 DAY) ☐ DAYS ☐ DAYS ☐ WEEKEND				☐ 24 HOURS ☐ WEEKEND				Container PID Readings or Laboratory Notes:	
☒ LA - RWQCB REPORT FORMAT									
DELIVERABLES: ☐ LEVEL 1 ☒ LEVEL 2 ☐ LEVEL 3 ☒ LEVEL 4				☒ OTHER (SPECIFY) EDD					
TEMPERATURE ON RECEIPT C°				Cooler #1		Cooler #2		Cooler #3	
SPECIAL INSTRUCTIONS OR NOTES:									
Email reports to: melissa.remiger@aecom.com; mary.mass@aecom.com; brett.howell@aecom.com									
Include "J" values on Reports. Provide sample receipt upon login. Send EDDs to EDDSubmissions@aecomshell.com; Vlad.Virjan@aecom.com									
LAB USE ONLY									
SAMPLING				PRESERVATIVE		NO. OF CONT.			
DATE				TIME		HCL HNO3 H2SO4 NONE OTHER			
1/17/2025				0000		Water 2		2	
1/17/2025				0000		Water 2		2	
1/17/2025				1000		Water 6		12	
1/17/2025				1125		Water 6		12	
1/17/2025				1310		Water 6		12	
TB-ROX-011725-8260-A								X	
TB-ROX-011725-8011-A								X	
MW1-ROX-011725								X	
P54-ROX-011725								X	
MW24-ROX-011725								X	
VOC 8260								X	
SVOC 8270								X	
PAH 8270 SIMS								X	
8011 EDB + DBCP								X	
400-269555 COC									
RECEIVED ANALYSIS									
60738191 - 3.1.2									
TEMPERATURE ON RECEIPT C°									
Container PID Readings or Laboratory Notes:									
LAB USE ONLY									
SAMPLER NAME(S) (Print):									
S.McLean, T.Jenkins									
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melissa.remiger@aecom.com									
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AECOM Other ID:									

☐ ACQUITEST () ☐ CALSCIENCE () ☒ TESTAMERICA (TestAmerica Pensacola; 3355 McLennore Dr. Pensacola, FL 32514 (850-474-1001)) ☐ Other ()		Lab Vendor # 1384588 (TestAmerica)		Please Check Appropriate Box: ☐ PGW PDG ☐ PIPELINE ☐ RETAIL ☐ CHEMICALS ☐ CONSULTANT ☐ LUBES ☐ TRANSPORTATION ☒ OTHER - ENV. SERVICES		Print Bill To Contact Name: Melissa Remiger PO # 60738191 - 3.1.2 SITE ADDRESS: Street and City 900 South Central Ave; ROXANA E-MAIL: melissa.remiger@aecom.com		PlanNet Site or Project ID 25278 GSAP Project ID USP/C/00114/R/02		☐ CHECK IF NO INCIDENT # APPLIES DATE: 1/17/2025 PAGE: 2 of 2					
SAMPLING COMPANY: AECOM ADDRESS: 100 N. Broadway, 20th Floor, ST. LOUIS, MO 63102, USA PROJECT CONTACT (Hardcopy or PDF Report to): Melissa Remiger, Mary Massa, Brett Howell TELEPHONE: 314-429-0100 FAX: 314-429-0462 TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (14 DAY) ☐ DAYS ☐ DAYS ☐ DAYS ☐ WEEKEND ☐ LA - RIQC8 REPORT FORMAT				LOG CODE: Bill To Contact E-MAIL: melissa.remiger@aecom.com RESULTS NEEDED ON ☐ 24 HOURS ☐ DAYS ☐ WEEKEND				DELIVERABLES: ☐ LEVEL 1 ☒ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☒ OTHER (SPECIFY) EDD TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3				SPECIAL INSTRUCTIONS OR NOTES: Email reports to: melissa.remiger@aecom.com; mary.massa@aecom.com; brett.howell@aecom.com Include "J" values on Reports. Provide sample receipt upon login. Send EQUIS EDDs to EDDSubmissions@aecomshell.com; Vlad.Virjan@aecom.com			
REQUESTED ANALYSIS 60738191 - 3.1.2															
FIELD USE ONLY LAB USE ONLY Container PID Readings or Laboratory Notes:															
TEMPERATURE ON RECEIPT C°															
FIELD NOTES:															

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.
	DATE	TIME		HCL	HN03	H2SO4	
TB-ROX-011725-8260-B	1/17/2025	0000	Water	2			2
TB-ROX-011725-8011-B	1/17/2025	0000	Water	2			2
MW9-ROX-011725	1/17/2025	0940	Water	6		6	12
MW9-ROX-011725-MS	1/17/2025	0940	Water	6		6	12
MW9-ROX-011725-MSD	1/17/2025	0940	Water	6		6	12
MW10-ROX-011725	1/17/2025	1100	Water	6		6	12
MW28-ROX-011725	1/17/2025	1300	Water	6		6	12
MW27-ROX-011725	1/17/2025	1400	Water	6		6	12

Relinquished by: (Signature)
 MARY MASSA
 Relinquished by: (Signature)

Received by: (Signature)
 SEE PAGE 1
 Received by: (Signature)

Date: 1/17/2025
 Time: 1600

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-269555-1

Login Number: 269555

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Darrien

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C, 3.0°C IR10
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-269555-1

Project/Site: ROXANA QUARTERLY GW

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269749-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/4/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/16/2025

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.
Holding Times	Analyses were performed within holding time.	X			
Surrogate	Surrogate recoveries met acceptance criteria.	X			
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.			X	
Matrix Spike	MS recoveries met acceptance criteria.		X		

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW6C-ROX-012025 MS/MSD	VOCs	Acetone	37/44	17	43-150/30
MW6C-ROX-012025 MS/MSD	VOCs	2-Butanone (MEK)	52/61	15	55-150/30
MW6C-ROX-012025 MS/MSD	VOCs	2-Chloroethyl vinyl ether	4/0	NC	10-150/50
MW6C-ROX-012025 MS/MSD	VOCs	1,2-Dichlorobenzene	83/113	31	52-137/30
MW6C-ROX-012025 MS/MSD	VOCs	1,3-Dichlorobenzene	82/113	31	54-135/30
MW6C-ROX-012025 MS/MSD	VOCs	1,4-Dichlorobenzene	80/111	32	53-135/30
MW6C-ROX-012025 MS/MSD	VOCs	Hexachlorobutadiene	74/117	45	31-149/36
MW6C-ROX-012025 MS/MSD	VOCs	n-Butylbenzene	87/131	40	41-142/31

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation																		
Item Reviewed		Acceptable Criteria		Quality Condition			Comments											
				Pass	Fail ¹	N/A												
	MW6C-ROX-012025 MS/MSD	VOCs	N-Propylbenzene	85/118	33	51-138/30												
	MW6C-ROX-012025 MS/MSD	VOCs	p-Chlorotoluene	84/114	31	54-133/30												
	MW6C-ROX-012025 MS/MSD	VOCs	p-Isopropyltoluene	83/119	36	48-139/30												
	MW6C-ROX-012025 MS/MSD	VOCs	sec-Butylbenzene	85/122	36	50-138/30												
	MW6C-ROX-012025 MS/MSD	VOCs	tert-Butylbenzene	85/116	31	54-146/30												
	MW6C-ROX-012025 MS/MSD	VOCs	1,2,4-Trimethylbenzene	84/117	32	50-139/30												
	MW6C-ROX-012025 MS/MSD	VOCs	1,3,5-Trimethylbenzene	85/118	32	52-135/30												
Analytical data that required qualification based on MS/MSD data are referenced below. Analytical data associated with MS/MSD RPD alone outside evaluation criteria did not require qualification.																		
Method 8260D (VOCs)																		
Professional judgement was used to qualify; however, not rejecting 2-chloroethyl vinyl ether due to acceptable LCS recoveries and to the acid reactive nature of 2-chloroethyl vinyl ether.																		
2-Chloroethyl vinyl ether, acetone, and 2-butanone (MEK), in sample MW6C-ROX-012025 were qualified as estimated (UJ).																		
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.			X														
<table><tr><th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr><tr><td>LCS/LCSD 400-697545/2-A/3-A</td><td>SVOCs</td><td>Benzoic acid</td><td>15/15</td><td>5</td><td>19-126/40</td></tr></table>							LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS/LCSD 400-697545/2-A/3-A	SVOCs	Benzoic acid	15/15	5	19-126/40
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria													
LCS/LCSD 400-697545/2-A/3-A	SVOCs	Benzoic acid	15/15	5	19-126/40													
Analytical data that required qualification based on LCS/LCSD data are referenced below.																		
Method 8270E (SVOCs)																		
Benzoic acid in samples MW6C-ROX-012025, ROST3MW-ROX-012025, and ROST4PZE-ROX-012025 was qualified as estimated (UJ).																		
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.		X															
Laboratory Blank	Target analytes were not detected in the laboratory blank.		X															

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			
Usability	No results qualified as unusable.	X			
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analyte at the specified frequency and appropriate concentrations. Organics		X		

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method				
Method 8260D (VOCs) The continuing calibration verification (CCV) for carbon tetrachloride were outside evaluation criteria, biased low. The associated results for samples MW6C-ROX-012025, ROST3MW-ROX-012025, and ROST4PZE-ROX-012025 were qualified as estimated (UJ). Method 8270E(SVOCs) The continuing calibration verification (CCV) for aniline and quinoline were outside evaluation criteria, biased low. The associated results for samples MW6C-ROX-012025, ROST3MW-ROX-012025, and ROST4PZE-ROX-012025 were qualified as estimated (UJ). Method 8011 (VOCs by 8011) The continuing calibration verification (CCV) for 1,2-dibromo-3-chloropropane were outside evaluation criteria, biased low. The associated results for samples MW6C-ROX-012025, ROST3MW-ROX-012025, and ROST4PZE-ROX-012025 were qualified as estimated (UJ). Trip blanks are quality control samples that do not require qualification.					
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq$ 40% between			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	the primary and confirmation columns.				
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.



ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/5/2025 7:01:39 AM

JOB DESCRIPTION

ROXANA QUARTERLY GW 1Q25

JOB NUMBER

400-269749-1

Reviewed 03/04/2025
VA

Eurofins Pensacola

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 Southeast, LLC Project Manager.

Authorization



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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Job ID: 400-269749-1

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Job Narrative 400-269749-1

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 1/24/2025 12:30 PM. 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 1.9°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-697939 recovered outside acceptance criteria, low biased, for Carbon tetrachloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-697939 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 400-697939 was outside control limits. Sample matrix interference is suspected.

Method 8260D: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MW6C-ROX-012025 (400-269749-3), ROST3MW-ROX-012025 (400-269749-6) and ROST4PZE-ROX-012025 (400-269749-7). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile which are acid-labile compounds that degrade in an acidic medium.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-697939 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

Method 8260D: The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for analytical batch 400-697939 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

Method 8260D: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-012025-8260-A (400-269749-1) and TB-ROX-012025-8260-B (400-269749-4). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

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

GC/MS Semi VOA

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-691822 was outside method criteria for the following analyte(s): 2-Nitrophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-697998 recovered above the upper control limit for 4-Bromophenyl phenyl ether and Hexachlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 400-697545 and analytical batch 400-697998 recovered outside control limits for the following analyte(s): Benzoic acid. Benzoic

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Job ID: 400-269749-1 (Continued)

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acid has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-697998 recovered outside acceptance criteria, low biased, for Quinoline and Aniline. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

GC Semi VOA

Method 8011: The continuing calibration verification (CCV) associated with batch 400-697605 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

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Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269749-1	TB-ROX-012025-8260-A	Water	01/20/25 00:00	01/24/25 12:30
400-269749-2	TB-ROX-012025-8011-A	Water	01/20/25 00:00	01/24/25 12:30
400-269749-3	MW6C-ROX-012025	Water	01/20/25 14:00	01/24/25 12:30
400-269749-4	TB-ROX-012025-8260-B	Water	01/20/25 00:00	01/24/25 12:30
400-269749-5	TB-ROX-012025-8011-B	Water	01/20/25 00:00	01/24/25 12:30
400-269749-6	ROST3MW-ROX-012025	Water	01/20/25 11:40	01/24/25 12:30
400-269749-7	ROST4PZE-ROX-012025	Water	01/20/25 13:30	01/24/25 12:30

Detection Summary

Client: AECOM

Job ID: 400-269749-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012025-8260-A

Lab Sample ID: 400-269749-1

No Detections.

Client Sample ID: TB-ROX-012025-8011-A

Lab Sample ID: 400-269749-2

No Detections.

Client Sample ID: MW6C-ROX-012025

Lab Sample ID: 400-269749-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.050	J	0.20	0.043	ug/L	1		8270E	Total/NA

Client Sample ID: TB-ROX-012025-8260-B

Lab Sample ID: 400-269749-4

No Detections.

Client Sample ID: TB-ROX-012025-8011-B

Lab Sample ID: 400-269749-5

No Detections.

Client Sample ID: ROST3MW-ROX-012025

Lab Sample ID: 400-269749-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.16	J	0.20	0.085	ug/L	1		8270E	Total/NA
Fluorene	0.16	J	0.20	0.087	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	0.078	J	0.20	0.066	ug/L	1		8270E	Total/NA

Client Sample ID: ROST4PZE-ROX-012025

Lab Sample ID: 400-269749-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.032	J	0.20	0.032	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	0.080	J	0.20	0.065	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.093	J	0.20	0.076	ug/L	1		8270E	Total/NA
Phenanthrene	0.099	J	0.20	0.043	ug/L	1		8270E	Total/NA
Pyrene	0.094	J	0.20	0.039	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM

Job ID: 400-269749-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012025-8260-A

Lab Sample ID: 400-269749-1

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/31/25 13:38	1
Acrolein	ND		20	3.3	ug/L			01/31/25 13:38	1
Acrylonitrile	ND		10	2.8	ug/L			01/31/25 13:38	1
Benzene	ND		1.0	0.50	ug/L			01/31/25 13:38	1
Bromobenzene	ND		1.0	0.54	ug/L			01/31/25 13:38	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/31/25 13:38	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/31/25 13:38	1
Bromoform	ND		5.0	0.25	ug/L			01/31/25 13:38	1
Bromomethane	ND		1.0	0.98	ug/L			01/31/25 13:38	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/31/25 13:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/25 13:38	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/31/25 13:38	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/31/25 13:38	1
Chloroethane	ND		1.0	0.76	ug/L			01/31/25 13:38	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/31/25 13:38	1
Chloroform	ND		1.0	0.90	ug/L			01/31/25 13:38	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/31/25 13:38	1
Chloromethane	ND		1.0	0.40	ug/L			01/31/25 13:38	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/31/25 13:38	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/31/25 13:38	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/31/25 13:38	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/31/25 13:38	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/31/25 13:38	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/31/25 13:38	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/31/25 13:38	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/31/25 13:38	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/31/25 13:38	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/31/25 13:38	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 13:38	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 13:38	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 13:38	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/31/25 13:38	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/31/25 13:38	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/31/25 13:38	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/31/25 13:38	1
2-Hexanone	ND		25	4.3	ug/L			01/31/25 13:38	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/31/25 13:38	1
Methylene bromide	ND		5.0	0.22	ug/L			01/31/25 13:38	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/31/25 13:38	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/31/25 13:38	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/31/25 13:38	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/31/25 13:38	1
Naphthalene	ND		5.0	3.0	ug/L			01/31/25 13:38	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/31/25 13:38	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/31/25 13:38	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/31/25 13:38	1
o-Xylene	ND		5.0	3.0	ug/L			01/31/25 13:38	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/31/25 13:38	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/31/25 13:38	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: TB-ROX-012025-8260-A

Lab Sample ID: 400-269749-1

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/31/25 13:38	1
Styrene	ND		1.0	1.0	ug/L			01/31/25 13:38	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/31/25 13:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/31/25 13:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/31/25 13:38	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/31/25 13:38	1
Toluene	ND		1.0	0.90	ug/L			01/31/25 13:38	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/31/25 13:38	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/31/25 13:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/31/25 13:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/31/25 13:38	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/31/25 13:38	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/31/25 13:38	1
Trichloroethene	ND		1.0	0.15	ug/L			01/31/25 13:38	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/31/25 13:38	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/31/25 13:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/31/25 13:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/31/25 13:38	1
Vinyl acetate	ND		25	0.93	ug/L			01/31/25 13:38	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/31/25 13:38	1
Xylenes, Total	ND		10	6.0	ug/L			01/31/25 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		01/31/25 13:38	1
Dibromofluoromethane	96		79 - 130		01/31/25 13:38	1
Toluene-d8 (Surr)	98		64 - 132		01/31/25 13:38	1

Client Sample Results

Client: AECOM

Job ID: 400-269749-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012025-8011-A

Lab Sample ID: 400-269749-2

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/27/25 12:41	01/27/25 20:08	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/27/25 12:41	01/27/25 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	64		51 - 149				01/27/25 12:41	01/27/25 20:08	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: MW6C-ROX-012025

Lab Sample ID: 400-269749-3

Date Collected: 01/20/25 14:00

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	F1 UJ	25	10	ug/L			01/30/25 10:19	1
Acrolein	ND		20	3.3	ug/L			01/30/25 10:19	1
Acrylonitrile	ND		10	2.8	ug/L			01/30/25 10:19	1
Benzene	ND		1.0	0.50	ug/L			01/30/25 10:19	1
Bromobenzene	ND		1.0	0.54	ug/L			01/30/25 10:19	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/30/25 10:19	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/30/25 10:19	1
Bromoform	ND		5.0	0.25	ug/L			01/30/25 10:19	1
Bromomethane	ND		1.0	0.98	ug/L			01/30/25 10:19	1
2-Butanone (MEK)	ND	F1 UJ	25	2.6	ug/L			01/30/25 10:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/30/25 10:19	1
Carbon tetrachloride	ND	UJ	1.0	0.19	ug/L			01/30/25 10:19	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/30/25 10:19	1
Chloroethane	ND		1.0	0.76	ug/L			01/30/25 10:19	1
2-Chloroethyl vinyl ether	ND	F1 UJ	5.0	2.0	ug/L			01/30/25 10:19	1
Chloroform	ND		1.0	0.90	ug/L			01/30/25 10:19	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/30/25 10:19	1
Chloromethane	ND		1.0	0.40	ug/L			01/30/25 10:19	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/30/25 10:19	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/30/25 10:19	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/30/25 10:19	1
1,2-Dichlorobenzene	ND	F2	1.0	0.50	ug/L			01/30/25 10:19	1
1,3-Dichlorobenzene	ND	F2	1.0	0.54	ug/L			01/30/25 10:19	1
1,4-Dichlorobenzene	ND	F2	1.0	0.64	ug/L			01/30/25 10:19	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/30/25 10:19	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/30/25 10:19	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/30/25 10:19	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/30/25 10:19	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 10:19	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 10:19	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 10:19	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/30/25 10:19	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/30/25 10:19	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/30/25 10:19	1
Hexachlorobutadiene	ND	F2	5.0	0.90	ug/L			01/30/25 10:19	1
2-Hexanone	ND		25	4.3	ug/L			01/30/25 10:19	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/30/25 10:19	1
Methylene bromide	ND		5.0	0.22	ug/L			01/30/25 10:19	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/30/25 10:19	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/30/25 10:19	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/30/25 10:19	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/30/25 10:19	1
Naphthalene	ND		5.0	3.0	ug/L			01/30/25 10:19	1
n-Butylbenzene	ND	F2	1.0	0.76	ug/L			01/30/25 10:19	1
N-Propylbenzene	ND	F2	1.0	0.69	ug/L			01/30/25 10:19	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/30/25 10:19	1
o-Xylene	ND		5.0	3.0	ug/L			01/30/25 10:19	1
p-Chlorotoluene	ND	F2	1.0	0.56	ug/L			01/30/25 10:19	1
p-Isopropyltoluene	ND	F2	1.0	0.71	ug/L			01/30/25 10:19	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: MW6C-ROX-012025

Lab Sample ID: 400-269749-3

Date Collected: 01/20/25 14:00

Matrix: Water

Date Received: 01/24/25 12:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND	F2	1.0	0.70	ug/L			01/30/25 10:19	1
Styrene	ND		1.0	1.0	ug/L			01/30/25 10:19	1
tert-Butylbenzene	ND	F2	1.0	0.63	ug/L			01/30/25 10:19	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/30/25 10:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/30/25 10:19	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/30/25 10:19	1
Toluene	ND		1.0	0.90	ug/L			01/30/25 10:19	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/30/25 10:19	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/30/25 10:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/30/25 10:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/30/25 10:19	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/30/25 10:19	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/30/25 10:19	1
Trichloroethene	ND		1.0	0.15	ug/L			01/30/25 10:19	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/30/25 10:19	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/30/25 10:19	1
1,2,4-Trimethylbenzene	ND	F2	1.0	0.82	ug/L			01/30/25 10:19	1
1,3,5-Trimethylbenzene	ND	F2	1.0	0.56	ug/L			01/30/25 10:19	1
Vinyl acetate	ND		25	0.93	ug/L			01/30/25 10:19	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/30/25 10:19	1
Xylenes, Total	ND		10	6.0	ug/L			01/30/25 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		01/30/25 10:19	1
Dibromofluoromethane	94		79 - 130		01/30/25 10:19	1
Toluene-d8 (Surr)	101		64 - 132		01/30/25 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.6	8.4	ug/L		01/27/25 09:10	01/30/25 19:00	1
Benzenethiol	ND		9.6	9.5	ug/L		01/27/25 09:10	01/30/25 19:00	1
Benzoic acid	ND	*- UJ	29	23	ug/L		01/27/25 09:10	01/30/25 19:00	1
Benzyl alcohol	ND		9.6	7.0	ug/L		01/27/25 09:10	01/30/25 19:00	1
Bis(2-chloroethoxy)methane	ND		9.6	4.4	ug/L		01/27/25 09:10	01/30/25 19:00	1
Bis(2-chloroethyl)ether	ND		9.6	3.8	ug/L		01/27/25 09:10	01/30/25 19:00	1
bis (2-chloroisopropyl) ether	ND		9.6	1.7	ug/L		01/27/25 09:10	01/30/25 19:00	1
Bis(2-ethylhexyl) phthalate	ND		9.6	8.6	ug/L		01/27/25 09:10	01/30/25 19:00	1
4-Bromophenyl phenyl ether	ND		9.6	8.3	ug/L		01/27/25 09:10	01/30/25 19:00	1
Butyl benzyl phthalate	ND		9.6	5.6	ug/L		01/27/25 09:10	01/30/25 19:00	1
4-Chloroaniline	ND		9.6	4.5	ug/L		01/27/25 09:10	01/30/25 19:00	1
4-Chloro-3-methylphenol	ND		9.6	5.1	ug/L		01/27/25 09:10	01/30/25 19:00	1
2-Chloronaphthalene	ND		9.6	3.7	ug/L		01/27/25 09:10	01/30/25 19:00	1
2-Chlorophenol	ND		9.6	3.9	ug/L		01/27/25 09:10	01/30/25 19:00	1
4-Chlorophenyl phenyl ether	ND		9.6	3.6	ug/L		01/27/25 09:10	01/30/25 19:00	1
Dibenz[a,h]acridine	ND		9.6	2.7	ug/L		01/27/25 09:10	01/30/25 19:00	1
Dibenzofuran	ND		9.6	3.8	ug/L		01/27/25 09:10	01/30/25 19:00	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/27/25 09:10	01/30/25 19:00	1
2,4-Dichlorophenol	ND		9.6	4.1	ug/L		01/27/25 09:10	01/30/25 19:00	1
Diethyl phthalate	ND		9.6	4.2	ug/L		01/27/25 09:10	01/30/25 19:00	1
2,4-Dimethylphenol	ND		9.6	5.0	ug/L		01/27/25 09:10	01/30/25 19:00	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: MW6C-ROX-012025

Lab Sample ID: 400-269749-3

Date Collected: 01/20/25 14:00

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.6	4.0	ug/L		01/27/25 09:10	01/30/25 19:00	1
Di-n-butyl phthalate	ND		9.6	4.4	ug/L		01/27/25 09:10	01/30/25 19:00	1
4,6-Dinitro-ortho-cresol	ND		9.6	9.6	ug/L		01/27/25 09:10	01/30/25 19:00	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/27/25 09:10	01/30/25 19:00	1
2,4-Dinitrotoluene	ND		9.6	4.9	ug/L		01/27/25 09:10	01/30/25 19:00	1
2,6-Dinitrotoluene	ND		9.6	3.8	ug/L		01/27/25 09:10	01/30/25 19:00	1
Di-n-octyl phthalate	ND		9.6	5.8	ug/L		01/27/25 09:10	01/30/25 19:00	1
1,4-Dioxane	ND		9.6	4.1	ug/L		01/27/25 09:10	01/30/25 19:00	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	3.2	ug/L		01/27/25 09:10	01/30/25 19:00	1
Hexachlorobenzene	ND		9.6	9.3	ug/L		01/27/25 09:10	01/30/25 19:00	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/27/25 09:10	01/30/25 19:00	1
Hexachloroethane	ND		9.6	5.0	ug/L		01/27/25 09:10	01/30/25 19:00	1
Indene	ND		9.6	3.5	ug/L		01/27/25 09:10	01/30/25 19:00	1
Isophorone	ND		9.6	5.0	ug/L		01/27/25 09:10	01/30/25 19:00	1
2-Methylphenol	ND		9.6	3.1	ug/L		01/27/25 09:10	01/30/25 19:00	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/27/25 09:10	01/30/25 19:00	1
2-Nitroaniline	ND		9.6	4.8	ug/L		01/27/25 09:10	01/30/25 19:00	1
3-Nitroaniline	ND		9.6	4.5	ug/L		01/27/25 09:10	01/30/25 19:00	1
4-Nitroaniline	ND		9.6	3.9	ug/L		01/27/25 09:10	01/30/25 19:00	1
Nitrobenzene	ND		9.6	4.5	ug/L		01/27/25 09:10	01/30/25 19:00	1
2-Nitrophenol	ND		9.6	4.4	ug/L		01/27/25 09:10	01/30/25 19:00	1
4-Nitrophenol	ND		9.6	3.2	ug/L		01/27/25 09:10	01/30/25 19:00	1
N-Nitrosodimethylamine	ND		9.6	2.1	ug/L		01/27/25 09:10	01/30/25 19:00	1
N-Nitrosodi-n-propylamine	ND		9.6	2.4	ug/L		01/27/25 09:10	01/30/25 19:00	1
N-Nitrosodiphenylamine	ND		9.6	3.6	ug/L		01/27/25 09:10	01/30/25 19:00	1
Pentachlorophenol	ND		19	11	ug/L		01/27/25 09:10	01/30/25 19:00	1
Phenol	ND		9.6	4.0	ug/L		01/27/25 09:10	01/30/25 19:00	1
Pyridine	ND		9.6	9.6	ug/L		01/27/25 09:10	01/30/25 19:00	1
Quinoline	ND	UJ	9.6	2.3	ug/L		01/27/25 09:10	01/30/25 19:00	1
2,4,5-Trichlorophenol	ND		9.6	3.8	ug/L		01/27/25 09:10	01/30/25 19:00	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		01/27/25 09:10	01/30/25 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		21 - 114	01/27/25 09:10	01/30/25 19:00	1
2-Fluorophenol	41		10 - 105	01/27/25 09:10	01/30/25 19:00	1
Nitrobenzene-d5	64		16 - 127	01/27/25 09:10	01/30/25 19:00	1
Phenol-d5	28		10 - 129	01/27/25 09:10	01/30/25 19:00	1
Terphenyl-d14	99		13 - 150	01/27/25 09:10	01/30/25 19:00	1
2,4,6-Tribromophenol	102		10 - 150	01/27/25 09:10	01/30/25 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/25/25 12:55	01/29/25 16:31	1
Acenaphthylene	ND		0.20	0.046	ug/L		01/25/25 12:55	01/29/25 16:31	1
Anthracene	ND		0.20	0.072	ug/L		01/25/25 12:55	01/29/25 16:31	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		01/25/25 12:55	01/29/25 16:31	1
Benzo[a]pyrene	ND		0.20	0.044	ug/L		01/25/25 12:55	01/29/25 16:31	1
Benzo[b]fluoranthene	ND		0.20	0.041	ug/L		01/25/25 12:55	01/29/25 16:31	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/25/25 12:55	01/29/25 16:31	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: MW6C-ROX-012025

Lab Sample ID: 400-269749-3

Date Collected: 01/20/25 14:00

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		01/25/25 12:55	01/29/25 16:31	1
Chrysene	ND		0.20	0.038	ug/L		01/25/25 12:55	01/29/25 16:31	1
Dibenz(a,h)anthracene	ND		0.20	0.043	ug/L		01/25/25 12:55	01/29/25 16:31	1
Fluoranthene	ND		0.20	0.031	ug/L		01/25/25 12:55	01/29/25 16:31	1
Fluorene	ND		0.20	0.086	ug/L		01/25/25 12:55	01/29/25 16:31	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.031	ug/L		01/25/25 12:55	01/29/25 16:31	1
1-Methylnaphthalene	ND		0.20	0.065	ug/L		01/25/25 12:55	01/29/25 16:31	1
2-Methylnaphthalene	ND		0.20	0.076	ug/L		01/25/25 12:55	01/29/25 16:31	1
Phenanthrene	0.050	J	0.20	0.043	ug/L		01/25/25 12:55	01/29/25 16:31	1
Pyrene	ND		0.20	0.039	ug/L		01/25/25 12:55	01/29/25 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		15 - 150	01/25/25 12:55	01/29/25 16:31	1
Nitrobenzene-d5	116		50 - 150	01/25/25 12:55	01/29/25 16:31	1
Terphenyl-d14	117		43 - 147	01/25/25 12:55	01/29/25 16:31	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.018	ug/L		01/27/25 12:41	01/27/25 20:29	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/27/25 12:41	01/27/25 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	68		51 - 149	01/27/25 12:41	01/27/25 20:29	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: TB-ROX-012025-8260-B

Lab Sample ID: 400-269749-4

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/31/25 14:03	1
Acrolein	ND		20	3.3	ug/L			01/31/25 14:03	1
Acrylonitrile	ND		10	2.8	ug/L			01/31/25 14:03	1
Benzene	ND		1.0	0.50	ug/L			01/31/25 14:03	1
Bromobenzene	ND		1.0	0.54	ug/L			01/31/25 14:03	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/31/25 14:03	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/31/25 14:03	1
Bromoform	ND		5.0	0.25	ug/L			01/31/25 14:03	1
Bromomethane	ND		1.0	0.98	ug/L			01/31/25 14:03	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/31/25 14:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/25 14:03	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/31/25 14:03	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/31/25 14:03	1
Chloroethane	ND		1.0	0.76	ug/L			01/31/25 14:03	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/31/25 14:03	1
Chloroform	ND		1.0	0.90	ug/L			01/31/25 14:03	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/31/25 14:03	1
Chloromethane	ND		1.0	0.40	ug/L			01/31/25 14:03	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/31/25 14:03	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/31/25 14:03	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/31/25 14:03	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/31/25 14:03	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/31/25 14:03	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/31/25 14:03	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/31/25 14:03	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/31/25 14:03	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/31/25 14:03	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/31/25 14:03	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 14:03	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 14:03	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 14:03	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/31/25 14:03	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/31/25 14:03	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/31/25 14:03	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/31/25 14:03	1
2-Hexanone	ND		25	4.3	ug/L			01/31/25 14:03	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/31/25 14:03	1
Methylene bromide	ND		5.0	0.22	ug/L			01/31/25 14:03	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/31/25 14:03	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/31/25 14:03	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/31/25 14:03	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/31/25 14:03	1
Naphthalene	ND		5.0	3.0	ug/L			01/31/25 14:03	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/31/25 14:03	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/31/25 14:03	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/31/25 14:03	1
o-Xylene	ND		5.0	3.0	ug/L			01/31/25 14:03	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/31/25 14:03	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/31/25 14:03	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: TB-ROX-012025-8260-B

Lab Sample ID: 400-269749-4

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/31/25 14:03	1
Styrene	ND		1.0	1.0	ug/L			01/31/25 14:03	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/31/25 14:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/31/25 14:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/31/25 14:03	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/31/25 14:03	1
Toluene	ND		1.0	0.90	ug/L			01/31/25 14:03	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/31/25 14:03	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/31/25 14:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/31/25 14:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/31/25 14:03	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/31/25 14:03	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/31/25 14:03	1
Trichloroethene	ND		1.0	0.15	ug/L			01/31/25 14:03	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/31/25 14:03	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/31/25 14:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/31/25 14:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/31/25 14:03	1
Vinyl acetate	ND		25	0.93	ug/L			01/31/25 14:03	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/31/25 14:03	1
Xylenes, Total	ND		10	6.0	ug/L			01/31/25 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136					01/31/25 14:03	1
Dibromofluoromethane	94		79 - 130					01/31/25 14:03	1
Toluene-d8 (Surr)	100		64 - 132					01/31/25 14:03	1

Client Sample Results

Client: AECOM

Job ID: 400-269749-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012025-8011-B

Lab Sample ID: 400-269749-5

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/27/25 12:41	01/27/25 20:50	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/27/25 12:41	01/27/25 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	59		51 - 149				01/27/25 12:41	01/27/25 20:50	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST3MW-ROX-012025

Lab Sample ID: 400-269749-6

Date Collected: 01/20/25 11:40

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/30/25 10:43	1
Acrolein	ND		20	3.3	ug/L			01/30/25 10:43	1
Acrylonitrile	ND		10	2.8	ug/L			01/30/25 10:43	1
Benzene	ND		1.0	0.50	ug/L			01/30/25 10:43	1
Bromobenzene	ND		1.0	0.54	ug/L			01/30/25 10:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/30/25 10:43	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/30/25 10:43	1
Bromoform	ND		5.0	0.25	ug/L			01/30/25 10:43	1
Bromomethane	ND		1.0	0.98	ug/L			01/30/25 10:43	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/30/25 10:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/30/25 10:43	1
Carbon tetrachloride	ND	UJ	1.0	0.19	ug/L			01/30/25 10:43	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/30/25 10:43	1
Chloroethane	ND		1.0	0.76	ug/L			01/30/25 10:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/30/25 10:43	1
Chloroform	ND		1.0	0.90	ug/L			01/30/25 10:43	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/30/25 10:43	1
Chloromethane	ND		1.0	0.40	ug/L			01/30/25 10:43	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/30/25 10:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/30/25 10:43	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/30/25 10:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/30/25 10:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/30/25 10:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/30/25 10:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/30/25 10:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/30/25 10:43	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/30/25 10:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/30/25 10:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 10:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 10:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 10:43	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/30/25 10:43	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/30/25 10:43	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/30/25 10:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/30/25 10:43	1
2-Hexanone	ND		25	4.3	ug/L			01/30/25 10:43	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/30/25 10:43	1
Methylene bromide	ND		5.0	0.22	ug/L			01/30/25 10:43	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/30/25 10:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/30/25 10:43	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/30/25 10:43	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/30/25 10:43	1
Naphthalene	ND		5.0	3.0	ug/L			01/30/25 10:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/30/25 10:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/25 10:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/30/25 10:43	1
o-Xylene	ND		5.0	3.0	ug/L			01/30/25 10:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/30/25 10:43	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/30/25 10:43	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST3MW-ROX-012025

Lab Sample ID: 400-269749-6

Date Collected: 01/20/25 11:40

Matrix: Water

Date Received: 01/24/25 12:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/30/25 10:43	1
Styrene	ND		1.0	1.0	ug/L			01/30/25 10:43	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/30/25 10:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/30/25 10:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/30/25 10:43	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/30/25 10:43	1
Toluene	ND		1.0	0.90	ug/L			01/30/25 10:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/30/25 10:43	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/30/25 10:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/30/25 10:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/30/25 10:43	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/30/25 10:43	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/30/25 10:43	1
Trichloroethene	ND		1.0	0.15	ug/L			01/30/25 10:43	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/30/25 10:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/30/25 10:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/30/25 10:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/30/25 10:43	1
Vinyl acetate	ND		25	0.93	ug/L			01/30/25 10:43	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/30/25 10:43	1
Xylenes, Total	ND		10	6.0	ug/L			01/30/25 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		01/30/25 10:43	1
Dibromofluoromethane	95		79 - 130		01/30/25 10:43	1
Toluene-d8 (Surr)	100		64 - 132		01/30/25 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	10	8.9	ug/L		01/27/25 09:10	01/30/25 19:26	1
Benzenethiol	ND		10	10	ug/L		01/27/25 09:10	01/30/25 19:26	1
Benzoic acid	ND	*- UJ	31	25	ug/L		01/27/25 09:10	01/30/25 19:26	1
Benzyl alcohol	ND		10	7.5	ug/L		01/27/25 09:10	01/30/25 19:26	1
Bis(2-chloroethoxy)methane	ND		10	4.7	ug/L		01/27/25 09:10	01/30/25 19:26	1
Bis(2-chloroethyl)ether	ND		10	4.0	ug/L		01/27/25 09:10	01/30/25 19:26	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/27/25 09:10	01/30/25 19:26	1
Bis(2-ethylhexyl) phthalate	ND		10	9.1	ug/L		01/27/25 09:10	01/30/25 19:26	1
4-Bromophenyl phenyl ether	ND		10	8.8	ug/L		01/27/25 09:10	01/30/25 19:26	1
Butyl benzyl phthalate	ND		10	5.9	ug/L		01/27/25 09:10	01/30/25 19:26	1
4-Chloroaniline	ND		10	4.8	ug/L		01/27/25 09:10	01/30/25 19:26	1
4-Chloro-3-methylphenol	ND		10	5.4	ug/L		01/27/25 09:10	01/30/25 19:26	1
2-Chloronaphthalene	ND		10	3.9	ug/L		01/27/25 09:10	01/30/25 19:26	1
2-Chlorophenol	ND		10	4.2	ug/L		01/27/25 09:10	01/30/25 19:26	1
4-Chlorophenyl phenyl ether	ND		10	3.8	ug/L		01/27/25 09:10	01/30/25 19:26	1
Dibenz[a,h]acridine	ND		10	2.9	ug/L		01/27/25 09:10	01/30/25 19:26	1
Dibenzofuran	ND		10	4.1	ug/L		01/27/25 09:10	01/30/25 19:26	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/27/25 09:10	01/30/25 19:26	1
2,4-Dichlorophenol	ND		10	4.4	ug/L		01/27/25 09:10	01/30/25 19:26	1
Diethyl phthalate	ND		10	4.5	ug/L		01/27/25 09:10	01/30/25 19:26	1
2,4-Dimethylphenol	ND		10	5.3	ug/L		01/27/25 09:10	01/30/25 19:26	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST3MW-ROX-012025

Lab Sample ID: 400-269749-6

Date Collected: 01/20/25 11:40

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.3	ug/L		01/27/25 09:10	01/30/25 19:26	1
Di-n-butyl phthalate	ND		10	4.7	ug/L		01/27/25 09:10	01/30/25 19:26	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/27/25 09:10	01/30/25 19:26	1
2,4-Dinitrophenol	ND		31	4.7	ug/L		01/27/25 09:10	01/30/25 19:26	1
2,4-Dinitrotoluene	ND		10	5.2	ug/L		01/27/25 09:10	01/30/25 19:26	1
2,6-Dinitrotoluene	ND		10	4.0	ug/L		01/27/25 09:10	01/30/25 19:26	1
Di-n-octyl phthalate	ND		10	6.1	ug/L		01/27/25 09:10	01/30/25 19:26	1
1,4-Dioxane	ND		10	4.4	ug/L		01/27/25 09:10	01/30/25 19:26	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.4	ug/L		01/27/25 09:10	01/30/25 19:26	1
Hexachlorobenzene	ND		10	9.9	ug/L		01/27/25 09:10	01/30/25 19:26	1
Hexachlorocyclopentadiene	ND		20	4.6	ug/L		01/27/25 09:10	01/30/25 19:26	1
Hexachloroethane	ND		10	5.3	ug/L		01/27/25 09:10	01/30/25 19:26	1
Indene	ND		10	3.7	ug/L		01/27/25 09:10	01/30/25 19:26	1
Isophorone	ND		10	5.3	ug/L		01/27/25 09:10	01/30/25 19:26	1
2-Methylphenol	ND		10	3.3	ug/L		01/27/25 09:10	01/30/25 19:26	1
3 & 4 Methylphenol	ND		20	4.7	ug/L		01/27/25 09:10	01/30/25 19:26	1
2-Nitroaniline	ND		10	5.1	ug/L		01/27/25 09:10	01/30/25 19:26	1
3-Nitroaniline	ND		10	4.8	ug/L		01/27/25 09:10	01/30/25 19:26	1
4-Nitroaniline	ND		10	4.2	ug/L		01/27/25 09:10	01/30/25 19:26	1
Nitrobenzene	ND		10	4.8	ug/L		01/27/25 09:10	01/30/25 19:26	1
2-Nitrophenol	ND		10	4.7	ug/L		01/27/25 09:10	01/30/25 19:26	1
4-Nitrophenol	ND		10	3.4	ug/L		01/27/25 09:10	01/30/25 19:26	1
N-Nitrosodimethylamine	ND		10	2.3	ug/L		01/27/25 09:10	01/30/25 19:26	1
N-Nitrosodi-n-propylamine	ND		10	2.6	ug/L		01/27/25 09:10	01/30/25 19:26	1
N-Nitrosodiphenylamine	ND		10	3.8	ug/L		01/27/25 09:10	01/30/25 19:26	1
Pentachlorophenol	ND		20	12	ug/L		01/27/25 09:10	01/30/25 19:26	1
Phenol	ND		10	4.3	ug/L		01/27/25 09:10	01/30/25 19:26	1
Pyridine	ND		10	10	ug/L		01/27/25 09:10	01/30/25 19:26	1
Quinoline	ND	UJ	10	2.5	ug/L		01/27/25 09:10	01/30/25 19:26	1
2,4,5-Trichlorophenol	ND		10	4.1	ug/L		01/27/25 09:10	01/30/25 19:26	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/27/25 09:10	01/30/25 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		21 - 114	01/27/25 09:10	01/30/25 19:26	1
2-Fluorophenol	43		10 - 105	01/27/25 09:10	01/30/25 19:26	1
Nitrobenzene-d5	64		16 - 127	01/27/25 09:10	01/30/25 19:26	1
Phenol-d5	30		10 - 129	01/27/25 09:10	01/30/25 19:26	1
Terphenyl-d14	102		13 - 150	01/27/25 09:10	01/30/25 19:26	1
2,4,6-Tribromophenol	97		10 - 150	01/27/25 09:10	01/30/25 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.16	J	0.20	0.085	ug/L		01/25/25 12:55	01/29/25 17:01	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/25/25 12:55	01/29/25 17:01	1
Anthracene	ND		0.20	0.073	ug/L		01/25/25 12:55	01/29/25 17:01	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/25/25 12:55	01/29/25 17:01	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/25/25 12:55	01/29/25 17:01	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/25/25 12:55	01/29/25 17:01	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/25/25 12:55	01/29/25 17:01	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST3MW-ROX-012025

Lab Sample ID: 400-269749-6

Date Collected: 01/20/25 11:40

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/25/25 12:55	01/29/25 17:01	1
Chrysene	ND		0.20	0.039	ug/L		01/25/25 12:55	01/29/25 17:01	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/25/25 12:55	01/29/25 17:01	1
Fluoranthene	ND		0.20	0.032	ug/L		01/25/25 12:55	01/29/25 17:01	1
Fluorene	0.16	J	0.20	0.087	ug/L		01/25/25 12:55	01/29/25 17:01	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/25/25 12:55	01/29/25 17:01	1
1-Methylnaphthalene	0.078	J	0.20	0.066	ug/L		01/25/25 12:55	01/29/25 17:01	1
2-Methylnaphthalene	ND		0.20	0.077	ug/L		01/25/25 12:55	01/29/25 17:01	1
Phenanthrene	ND		0.20	0.044	ug/L		01/25/25 12:55	01/29/25 17:01	1
Pyrene	ND		0.20	0.040	ug/L		01/25/25 12:55	01/29/25 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		15 - 150	01/25/25 12:55	01/29/25 17:01	1
Nitrobenzene-d5	110		50 - 150	01/25/25 12:55	01/29/25 17:01	1
Terphenyl-d14	109		43 - 147	01/25/25 12:55	01/29/25 17:01	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.032	0.018	ug/L		01/27/25 12:41	01/27/25 21:11	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/27/25 12:41	01/27/25 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	72		51 - 149	01/27/25 12:41	01/27/25 21:11	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST4PZE-ROX-012025

Lab Sample ID: 400-269749-7

Date Collected: 01/20/25 13:30

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/30/25 11:08	1
Acrolein	ND		20	3.3	ug/L			01/30/25 11:08	1
Acrylonitrile	ND		10	2.8	ug/L			01/30/25 11:08	1
Benzene	ND		1.0	0.50	ug/L			01/30/25 11:08	1
Bromobenzene	ND		1.0	0.54	ug/L			01/30/25 11:08	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/30/25 11:08	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/30/25 11:08	1
Bromoform	ND		5.0	0.25	ug/L			01/30/25 11:08	1
Bromomethane	ND		1.0	0.98	ug/L			01/30/25 11:08	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/30/25 11:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/30/25 11:08	1
Carbon tetrachloride	ND	UJ	1.0	0.19	ug/L			01/30/25 11:08	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/30/25 11:08	1
Chloroethane	ND		1.0	0.76	ug/L			01/30/25 11:08	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/30/25 11:08	1
Chloroform	ND		1.0	0.90	ug/L			01/30/25 11:08	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/30/25 11:08	1
Chloromethane	ND		1.0	0.40	ug/L			01/30/25 11:08	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/30/25 11:08	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/30/25 11:08	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/30/25 11:08	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/30/25 11:08	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/30/25 11:08	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/30/25 11:08	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/30/25 11:08	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/30/25 11:08	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/30/25 11:08	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/30/25 11:08	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 11:08	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 11:08	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 11:08	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/30/25 11:08	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/30/25 11:08	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/30/25 11:08	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/30/25 11:08	1
2-Hexanone	ND		25	4.3	ug/L			01/30/25 11:08	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/30/25 11:08	1
Methylene bromide	ND		5.0	0.22	ug/L			01/30/25 11:08	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/30/25 11:08	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/30/25 11:08	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/30/25 11:08	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/30/25 11:08	1
Naphthalene	ND		5.0	3.0	ug/L			01/30/25 11:08	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/30/25 11:08	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/25 11:08	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/30/25 11:08	1
o-Xylene	ND		5.0	3.0	ug/L			01/30/25 11:08	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/30/25 11:08	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/30/25 11:08	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST4PZE-ROX-012025

Lab Sample ID: 400-269749-7

Date Collected: 01/20/25 13:30

Matrix: Water

Date Received: 01/24/25 12:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/30/25 11:08	1
Styrene	ND		1.0	1.0	ug/L			01/30/25 11:08	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/30/25 11:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/30/25 11:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/30/25 11:08	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/30/25 11:08	1
Toluene	ND		1.0	0.90	ug/L			01/30/25 11:08	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/30/25 11:08	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/30/25 11:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/30/25 11:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/30/25 11:08	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/30/25 11:08	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/30/25 11:08	1
Trichloroethene	ND		1.0	0.15	ug/L			01/30/25 11:08	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/30/25 11:08	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/30/25 11:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/30/25 11:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/30/25 11:08	1
Vinyl acetate	ND		25	0.93	ug/L			01/30/25 11:08	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/30/25 11:08	1
Xylenes, Total	ND		10	6.0	ug/L			01/30/25 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		01/30/25 11:08	1
Dibromofluoromethane	95		79 - 130		01/30/25 11:08	1
Toluene-d8 (Surr)	99		64 - 132		01/30/25 11:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.4	8.2	ug/L		01/27/25 09:10	01/30/25 19:51	1
Benzenethiol	ND		9.4	9.3	ug/L		01/27/25 09:10	01/30/25 19:51	1
Benzoic acid	ND	*- UJ	28	22	ug/L		01/27/25 09:10	01/30/25 19:51	1
Benzyl alcohol	ND		9.4	6.8	ug/L		01/27/25 09:10	01/30/25 19:51	1
Bis(2-chloroethoxy)methane	ND		9.4	4.3	ug/L		01/27/25 09:10	01/30/25 19:51	1
Bis(2-chloroethyl)ether	ND		9.4	3.7	ug/L		01/27/25 09:10	01/30/25 19:51	1
bis (2-chloroisopropyl) ether	ND		9.4	1.7	ug/L		01/27/25 09:10	01/30/25 19:51	1
Bis(2-ethylhexyl) phthalate	ND		9.4	8.3	ug/L		01/27/25 09:10	01/30/25 19:51	1
4-Bromophenyl phenyl ether	ND		9.4	8.1	ug/L		01/27/25 09:10	01/30/25 19:51	1
Butyl benzyl phthalate	ND		9.4	5.4	ug/L		01/27/25 09:10	01/30/25 19:51	1
4-Chloroaniline	ND		9.4	4.4	ug/L		01/27/25 09:10	01/30/25 19:51	1
4-Chloro-3-methylphenol	ND		9.4	5.0	ug/L		01/27/25 09:10	01/30/25 19:51	1
2-Chloronaphthalene	ND		9.4	3.6	ug/L		01/27/25 09:10	01/30/25 19:51	1
2-Chlorophenol	ND		9.4	3.8	ug/L		01/27/25 09:10	01/30/25 19:51	1
4-Chlorophenyl phenyl ether	ND		9.4	3.5	ug/L		01/27/25 09:10	01/30/25 19:51	1
Dibenz[a,h]acridine	ND		9.4	2.6	ug/L		01/27/25 09:10	01/30/25 19:51	1
Dibenzofuran	ND		9.4	3.7	ug/L		01/27/25 09:10	01/30/25 19:51	1
3,3'-Dichlorobenzidine	ND		10	10	ug/L		01/27/25 09:10	01/30/25 19:51	1
2,4-Dichlorophenol	ND		9.4	4.0	ug/L		01/27/25 09:10	01/30/25 19:51	1
Diethyl phthalate	ND		9.4	4.1	ug/L		01/27/25 09:10	01/30/25 19:51	1
2,4-Dimethylphenol	ND		9.4	4.9	ug/L		01/27/25 09:10	01/30/25 19:51	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST4PZE-ROX-012025

Lab Sample ID: 400-269749-7

Date Collected: 01/20/25 13:30

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.4	3.9	ug/L		01/27/25 09:10	01/30/25 19:51	1
Di-n-butyl phthalate	ND		9.4	4.3	ug/L		01/27/25 09:10	01/30/25 19:51	1
4,6-Dinitro-ortho-cresol	ND		9.4	9.4	ug/L		01/27/25 09:10	01/30/25 19:51	1
2,4-Dinitrophenol	ND		28	4.3	ug/L		01/27/25 09:10	01/30/25 19:51	1
2,4-Dinitrotoluene	ND		9.4	4.8	ug/L		01/27/25 09:10	01/30/25 19:51	1
2,6-Dinitrotoluene	ND		9.4	3.7	ug/L		01/27/25 09:10	01/30/25 19:51	1
Di-n-octyl phthalate	ND		9.4	5.6	ug/L		01/27/25 09:10	01/30/25 19:51	1
1,4-Dioxane	ND		9.4	4.0	ug/L		01/27/25 09:10	01/30/25 19:51	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.4	3.1	ug/L		01/27/25 09:10	01/30/25 19:51	1
Hexachlorobenzene	ND		9.4	9.1	ug/L		01/27/25 09:10	01/30/25 19:51	1
Hexachlorocyclopentadiene	ND		19	4.2	ug/L		01/27/25 09:10	01/30/25 19:51	1
Hexachloroethane	ND		9.4	4.9	ug/L		01/27/25 09:10	01/30/25 19:51	1
Indene	ND		9.4	3.4	ug/L		01/27/25 09:10	01/30/25 19:51	1
Isophorone	ND		9.4	4.9	ug/L		01/27/25 09:10	01/30/25 19:51	1
2-Methylphenol	ND		9.4	3.0	ug/L		01/27/25 09:10	01/30/25 19:51	1
3 & 4 Methylphenol	ND		19	4.3	ug/L		01/27/25 09:10	01/30/25 19:51	1
2-Nitroaniline	ND		9.4	4.7	ug/L		01/27/25 09:10	01/30/25 19:51	1
3-Nitroaniline	ND		9.4	4.4	ug/L		01/27/25 09:10	01/30/25 19:51	1
4-Nitroaniline	ND		9.4	3.8	ug/L		01/27/25 09:10	01/30/25 19:51	1
Nitrobenzene	ND		9.4	4.4	ug/L		01/27/25 09:10	01/30/25 19:51	1
2-Nitrophenol	ND		9.4	4.3	ug/L		01/27/25 09:10	01/30/25 19:51	1
4-Nitrophenol	ND		9.4	3.1	ug/L		01/27/25 09:10	01/30/25 19:51	1
N-Nitrosodimethylamine	ND		9.4	2.1	ug/L		01/27/25 09:10	01/30/25 19:51	1
N-Nitrosodi-n-propylamine	ND		9.4	2.3	ug/L		01/27/25 09:10	01/30/25 19:51	1
N-Nitrosodiphenylamine	ND		9.4	3.5	ug/L		01/27/25 09:10	01/30/25 19:51	1
Pentachlorophenol	ND		19	11	ug/L		01/27/25 09:10	01/30/25 19:51	1
Phenol	ND		9.4	3.9	ug/L		01/27/25 09:10	01/30/25 19:51	1
Pyridine	ND		9.4	9.4	ug/L		01/27/25 09:10	01/30/25 19:51	1
Quinoline	ND	UJ	9.4	2.2	ug/L		01/27/25 09:10	01/30/25 19:51	1
2,4,5-Trichlorophenol	ND		9.4	3.7	ug/L		01/27/25 09:10	01/30/25 19:51	1
2,4,6-Trichlorophenol	ND		9.4	3.3	ug/L		01/27/25 09:10	01/30/25 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		21 - 114	01/27/25 09:10	01/30/25 19:51	1
2-Fluorophenol	36		10 - 105	01/27/25 09:10	01/30/25 19:51	1
Nitrobenzene-d5	59		16 - 127	01/27/25 09:10	01/30/25 19:51	1
Phenol-d5	25		10 - 129	01/27/25 09:10	01/30/25 19:51	1
Terphenyl-d14	95		13 - 150	01/27/25 09:10	01/30/25 19:51	1
2,4,6-Tribromophenol	98		10 - 150	01/27/25 09:10	01/30/25 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.084	ug/L		01/25/25 12:55	01/29/25 17:32	1
Acenaphthylene	ND		0.20	0.046	ug/L		01/25/25 12:55	01/29/25 17:32	1
Anthracene	ND		0.20	0.072	ug/L		01/25/25 12:55	01/29/25 17:32	1
Benzo[a]anthracene	ND		0.20	0.039	ug/L		01/25/25 12:55	01/29/25 17:32	1
Benzo[a]pyrene	ND		0.20	0.044	ug/L		01/25/25 12:55	01/29/25 17:32	1
Benzo[b]fluoranthene	ND		0.20	0.041	ug/L		01/25/25 12:55	01/29/25 17:32	1
Benzo[g,h,i]perylene	ND		0.20	0.051	ug/L		01/25/25 12:55	01/29/25 17:32	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST4PZE-ROX-012025

Lab Sample ID: 400-269749-7

Date Collected: 01/20/25 13:30

Matrix: Water

Date Received: 01/24/25 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.039	ug/L		01/25/25 12:55	01/29/25 17:32	1
Chrysene	ND		0.20	0.038	ug/L		01/25/25 12:55	01/29/25 17:32	1
Dibenz(a,h)anthracene	ND		0.20	0.043	ug/L		01/25/25 12:55	01/29/25 17:32	1
Fluoranthene	0.032	J	0.20	0.032	ug/L		01/25/25 12:55	01/29/25 17:32	1
Fluorene	ND		0.20	0.086	ug/L		01/25/25 12:55	01/29/25 17:32	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/25/25 12:55	01/29/25 17:32	1
1-Methylnaphthalene	0.080	J	0.20	0.065	ug/L		01/25/25 12:55	01/29/25 17:32	1
2-Methylnaphthalene	0.093	J	0.20	0.076	ug/L		01/25/25 12:55	01/29/25 17:32	1
Phenanthrene	0.099	J	0.20	0.043	ug/L		01/25/25 12:55	01/29/25 17:32	1
Pyrene	0.094	J	0.20	0.039	ug/L		01/25/25 12:55	01/29/25 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		15 - 150	01/25/25 12:55	01/29/25 17:32	1
Nitrobenzene-d5	118		50 - 150	01/25/25 12:55	01/29/25 17:32	1
Terphenyl-d14	116		43 - 147	01/25/25 12:55	01/29/25 17:32	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.035	0.020	ug/L		01/27/25 12:41	01/27/25 21:32	1
1,2-Dibromoethane	ND		0.023	0.017	ug/L		01/27/25 12:41	01/27/25 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	70		51 - 149	01/27/25 12:41	01/27/25 21:32	1

Definitions/Glossary

Client: AECOM

Job ID: 400-269749-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-269749-1	TB-ROX-012025-8260-A	101	96	98
400-269749-3	MW6C-ROX-012025	102	94	101
400-269749-3 MS	MW6C-ROX-012025	103	97	101
400-269749-3 MSD	MW6C-ROX-012025	103	97	100
400-269749-4	TB-ROX-012025-8260-B	101	94	100
400-269749-6	ROST3MW-ROX-012025	101	95	100
400-269749-7	ROST4PZE-ROX-012025	102	95	99
LCS 400-697939/1002	Lab Control Sample	103	96	101
LCS 400-698066/1002	Lab Control Sample	103	97	100
MB 400-697939/4	Method Blank	102	93	100
MB 400-698066/4	Method Blank	103	95	99

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (21-114)	2FP (10-105)	NBZ (16-127)	PHL (10-129)	TPHL (13-150)	TBP (10-150)
400-269749-3	MW6C-ROX-012025	83	41	64	28	99	102
400-269749-6	ROST3MW-ROX-012025	83	43	64	30	102	97
400-269749-7	ROST4PZE-ROX-012025	79	36	59	25	95	98
LCS 400-697545/21-A	Lab Control Sample	74	30	59	19	99	89
LCS 400-697545/2-A	Lab Control Sample	80	35	65	25	96	103
LCSD 400-697545/22-A	Lab Control Sample Dup	74	33	62	22	98	90
LCSD 400-697545/3-A	Lab Control Sample Dup	81	35	65	26	102	111
MB 400-697545/1-A	Method Blank	64	25	53	17	86	79

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (15-150)	NBZ (50-150)	TPHL (43-147)
400-269749-3	MW6C-ROX-012025	96	116	117
400-269749-6	ROST3MW-ROX-012025	96	110	109
400-269749-7	ROST4PZE-ROX-012025	89	118	116
LCS 400-697457/2-A	Lab Control Sample	105	121	117
LCSD 400-697457/3-A	Lab Control Sample Dup	103	122	118

Eurofins Pensacola

Surrogate Summary

Client: AECOM

Job ID: 400-269749-1

Project/Site: ROXANA QUARTERLY GW 1Q25

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (15-150)	NBZ (50-150)	TPHL (43-147)
MB 400-697457/1-A	Method Blank	104	127	124
Surrogate Legend				
FBP = 2-Fluorobiphenyl				
NBZ = Nitrobenzene-d5				
TPHL = Terphenyl-d14				

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (51-149)		
400-269749-2	TB-ROX-012025-8011-A	64		
400-269749-3	MW6C-ROX-012025	68		
400-269749-5	TB-ROX-012025-8011-B	59		
400-269749-6	ROST3MW-ROX-012025	72		
400-269749-7	ROST4PZE-ROX-012025	70		
LCS 400-697583/2-A	Lab Control Sample	90		
LCSD 400-697583/3-A	Lab Control Sample Dup	87		
MB 400-697583/1-A	Method Blank	103		
Surrogate Legend				
BFB = 4-Bromofluorobenzene				

Method Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: TB-ROX-012025-8260-A

Lab Sample ID: 400-269749-1

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698066	01/31/25 13:38	WPD	EET PEN

Client Sample ID: TB-ROX-012025-8011-A

Lab Sample ID: 400-269749-2

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			31.4 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 20:08	KR	EET PEN

Client Sample ID: MW6C-ROX-012025

Lab Sample ID: 400-269749-3

Date Collected: 01/20/25 14:00

Matrix: Water

Date Received: 01/24/25 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697939	01/30/25 10:19	WPD	EET PEN
Total/NA	Prep	3510C			259.8 mL	1 mL	697545	01/27/25 09:10	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697998	01/30/25 19:00	S1B	EET PEN
Total/NA	Prep	3511			30.5 mL	2 mL	697457	01/25/25 12:55	RAW	EET PEN
Total/NA	Analysis	8270E		1			697870	01/29/25 16:31	S1B	EET PEN
Total/NA	Prep	8011			32.2 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 20:29	KR	EET PEN

Client Sample ID: TB-ROX-012025-8260-B

Lab Sample ID: 400-269749-4

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698066	01/31/25 14:03	WPD	EET PEN

Client Sample ID: TB-ROX-012025-8011-B

Lab Sample ID: 400-269749-5

Date Collected: 01/20/25 00:00

Matrix: Water

Date Received: 01/24/25 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			32.1 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 20:50	KR	EET PEN

Client Sample ID: ROST3MW-ROX-012025

Lab Sample ID: 400-269749-6

Date Collected: 01/20/25 11:40

Matrix: Water

Date Received: 01/24/25 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697939	01/30/25 10:43	WPD	EET PEN
Total/NA	Prep	3510C			244.4 mL	1 mL	697545	01/27/25 09:10	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697998	01/30/25 19:26	S1B	EET PEN

Eurofins Pensacola

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: ROST3MW-ROX-012025

Lab Sample ID: 400-269749-6

Date Collected: 01/20/25 11:40

Matrix: Water

Date Received: 01/24/25 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697457	01/25/25 12:55	RAW	EET PEN
Total/NA	Analysis	8270E		1			697870	01/29/25 17:01	S1B	EET PEN
Total/NA	Prep	8011			33 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 21:11	KR	EET PEN

Client Sample ID: ROST4PZE-ROX-012025

Lab Sample ID: 400-269749-7

Date Collected: 01/20/25 13:30

Matrix: Water

Date Received: 01/24/25 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697939	01/30/25 11:08	WPD	EET PEN
Total/NA	Prep	3510C			266.8 mL	1 mL	697545	01/27/25 09:10	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697998	01/30/25 19:51	S1B	EET PEN
Total/NA	Prep	3511			30.4 mL	2 mL	697457	01/25/25 12:55	RAW	EET PEN
Total/NA	Analysis	8270E		1			697870	01/29/25 17:32	S1B	EET PEN
Total/NA	Prep	8011			30.2 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 21:32	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697457/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	4 mL	697457	01/25/25 12:53	RAW	EET PEN
Total/NA	Analysis	8270E		1			697870	01/29/25 15:01	S1B	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697545/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697545	01/27/25 09:10	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697998	01/30/25 16:50	S1B	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697583/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 15:53	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697939/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697939	01/30/25 08:41	WPD	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698066/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698066	01/31/25 07:56	WPD	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697457/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697457	01/25/25 12:53	RAW	EET PEN
Total/NA	Analysis	8270E		1			697870	01/29/25 15:31	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697545/21-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697545	01/27/25 09:26	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697998	01/30/25 18:09	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697545/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697545	01/27/25 09:10	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697998	01/30/25 17:17	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697583/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 16:14	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697939/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697939	01/30/25 07:45	WPD	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698066/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698066	01/31/25 07:02	WPD	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697457/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697457	01/25/25 12:53	RAW	EET PEN
Total/NA	Analysis	8270E		1			697870	01/29/25 16:01	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697545/22-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697545	01/27/25 09:26	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697998	01/30/25 18:34	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697545/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697545	01/27/25 09:10	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	697998	01/30/25 17:42	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697583/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 16:36	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Client Sample ID: MW6C-ROX-012025
Date Collected: 01/20/25 14:00
Date Received: 01/24/25 12:30

Lab Sample ID: 400-269749-3 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697939	01/30/25 12:21	WPD	EET PEN

Client Sample ID: MW6C-ROX-012025
Date Collected: 01/20/25 14:00
Date Received: 01/24/25 12:30

Lab Sample ID: 400-269749-3 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	697939	01/30/25 12:45	WPD	EET PEN

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

GC/MS VOA

Analysis Batch: 697939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269749-3	MW6C-ROX-012025	Total/NA	Water	8260D	
400-269749-6	ROST3MW-ROX-012025	Total/NA	Water	8260D	
400-269749-7	ROST4PZE-ROX-012025	Total/NA	Water	8260D	
MB 400-697939/4	Method Blank	Total/NA	Water	8260D	
LCS 400-697939/1002	Lab Control Sample	Total/NA	Water	8260D	
400-269749-3 MS	MW6C-ROX-012025	Total/NA	Water	8260D	
400-269749-3 MSD	MW6C-ROX-012025	Total/NA	Water	8260D	

Analysis Batch: 698066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269749-1	TB-ROX-012025-8260-A	Total/NA	Water	8260D	
400-269749-4	TB-ROX-012025-8260-B	Total/NA	Water	8260D	
MB 400-698066/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698066/1002	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 697457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269749-3	MW6C-ROX-012025	Total/NA	Water	3511	
400-269749-6	ROST3MW-ROX-012025	Total/NA	Water	3511	
400-269749-7	ROST4PZE-ROX-012025	Total/NA	Water	3511	
MB 400-697457/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697457/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 400-697457/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 697545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269749-3	MW6C-ROX-012025	Total/NA	Water	3510C	
400-269749-6	ROST3MW-ROX-012025	Total/NA	Water	3510C	
400-269749-7	ROST4PZE-ROX-012025	Total/NA	Water	3510C	
MB 400-697545/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-697545/21-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-697545/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-697545/22-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 400-697545/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 697870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269749-3	MW6C-ROX-012025	Total/NA	Water	8270E	697457
400-269749-6	ROST3MW-ROX-012025	Total/NA	Water	8270E	697457
400-269749-7	ROST4PZE-ROX-012025	Total/NA	Water	8270E	697457
MB 400-697457/1-A	Method Blank	Total/NA	Water	8270E	697457
LCS 400-697457/2-A	Lab Control Sample	Total/NA	Water	8270E	697457
LCSD 400-697457/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	697457

Analysis Batch: 697998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269749-3	MW6C-ROX-012025	Total/NA	Water	8270E	697545
400-269749-6	ROST3MW-ROX-012025	Total/NA	Water	8270E	697545
400-269749-7	ROST4PZE-ROX-012025	Total/NA	Water	8270E	697545

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

GC/MS Semi VOA (Continued)

Analysis Batch: 697998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-697545/1-A	Method Blank	Total/NA	Water	8270E	697545
LCS 400-697545/21-A	Lab Control Sample	Total/NA	Water	8270E	697545
LCS 400-697545/2-A	Lab Control Sample	Total/NA	Water	8270E	697545
LCSD 400-697545/22-A	Lab Control Sample Dup	Total/NA	Water	8270E	697545
LCSD 400-697545/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	697545

GC Semi VOA

Prep Batch: 697583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269749-2	TB-ROX-012025-8011-A	Total/NA	Water	8011	
400-269749-3	MW6C-ROX-012025	Total/NA	Water	8011	
400-269749-5	TB-ROX-012025-8011-B	Total/NA	Water	8011	
400-269749-6	ROST3MW-ROX-012025	Total/NA	Water	8011	
400-269749-7	ROST4PZE-ROX-012025	Total/NA	Water	8011	
MB 400-697583/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-697583/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-697583/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 697605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269749-2	TB-ROX-012025-8011-A	Total/NA	Water	8011	697583
400-269749-3	MW6C-ROX-012025	Total/NA	Water	8011	697583
400-269749-5	TB-ROX-012025-8011-B	Total/NA	Water	8011	697583
400-269749-6	ROST3MW-ROX-012025	Total/NA	Water	8011	697583
400-269749-7	ROST4PZE-ROX-012025	Total/NA	Water	8011	697583
MB 400-697583/1-A	Method Blank	Total/NA	Water	8011	697583
LCS 400-697583/2-A	Lab Control Sample	Total/NA	Water	8011	697583
LCSD 400-697583/3-A	Lab Control Sample Dup	Total/NA	Water	8011	697583

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: MB 400-697939/4

Matrix: Water

Analysis Batch: 697939

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/30/25 08:41	1
Acrolein	ND		20	3.3	ug/L			01/30/25 08:41	1
Acrylonitrile	ND		10	2.8	ug/L			01/30/25 08:41	1
Benzene	ND		1.0	0.50	ug/L			01/30/25 08:41	1
Bromobenzene	ND		1.0	0.54	ug/L			01/30/25 08:41	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/30/25 08:41	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/30/25 08:41	1
Bromoform	ND		5.0	0.25	ug/L			01/30/25 08:41	1
Bromomethane	ND		1.0	0.98	ug/L			01/30/25 08:41	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/30/25 08:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/30/25 08:41	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/30/25 08:41	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/30/25 08:41	1
Chloroethane	ND		1.0	0.76	ug/L			01/30/25 08:41	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/30/25 08:41	1
Chloroform	ND		1.0	0.90	ug/L			01/30/25 08:41	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/30/25 08:41	1
Chloromethane	ND		1.0	0.40	ug/L			01/30/25 08:41	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/30/25 08:41	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/30/25 08:41	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/30/25 08:41	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/30/25 08:41	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/30/25 08:41	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/30/25 08:41	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/30/25 08:41	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/30/25 08:41	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/30/25 08:41	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/30/25 08:41	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 08:41	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 08:41	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/30/25 08:41	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/30/25 08:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/30/25 08:41	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/30/25 08:41	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/30/25 08:41	1
2-Hexanone	ND		25	4.3	ug/L			01/30/25 08:41	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/30/25 08:41	1
Methylene bromide	ND		5.0	0.22	ug/L			01/30/25 08:41	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/30/25 08:41	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/30/25 08:41	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/30/25 08:41	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/30/25 08:41	1
Naphthalene	ND		5.0	3.0	ug/L			01/30/25 08:41	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/30/25 08:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/30/25 08:41	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/30/25 08:41	1
o-Xylene	ND		5.0	3.0	ug/L			01/30/25 08:41	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/30/25 08:41	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: MB 400-697939/4

Matrix: Water

Analysis Batch: 697939

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/30/25 08:41	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/30/25 08:41	1
Styrene	ND		1.0	1.0	ug/L			01/30/25 08:41	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/30/25 08:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/30/25 08:41	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/30/25 08:41	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/30/25 08:41	1
Toluene	ND		1.0	0.90	ug/L			01/30/25 08:41	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/30/25 08:41	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/30/25 08:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/30/25 08:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/30/25 08:41	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/30/25 08:41	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/30/25 08:41	1
Trichloroethene	ND		1.0	0.15	ug/L			01/30/25 08:41	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/30/25 08:41	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/30/25 08:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/30/25 08:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/30/25 08:41	1
Vinyl acetate	ND		25	0.93	ug/L			01/30/25 08:41	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/30/25 08:41	1
Xylenes, Total	ND		10	6.0	ug/L			01/30/25 08:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		01/30/25 08:41	1
Dibromofluoromethane	93		79 - 130		01/30/25 08:41	1
Toluene-d8 (Surr)	100		64 - 132		01/30/25 08:41	1

Lab Sample ID: LCS 400-697939/1002

Matrix: Water

Analysis Batch: 697939

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	199		ug/L		99	43 - 150
Acrolein	500	517		ug/L		103	38 - 150
Acrylonitrile	500	561		ug/L		112	64 - 142
Benzene	50.0	46.9		ug/L		94	70 - 130
Bromobenzene	50.0	47.6		ug/L		95	70 - 132
Bromochloromethane	50.0	46.2		ug/L		92	70 - 130
Bromodichloromethane	50.0	43.4		ug/L		87	67 - 133
Bromoform	50.0	43.4		ug/L		87	57 - 140
Bromomethane	50.0	40.8		ug/L		82	10 - 150
2-Butanone (MEK)	200	189		ug/L		95	61 - 145
Carbon disulfide	50.0	38.1		ug/L		76	61 - 137
Carbon tetrachloride	50.0	39.5		ug/L		79	61 - 137
Chlorobenzene	50.0	46.9		ug/L		94	70 - 130
Chloroethane	50.0	45.5		ug/L		91	55 - 141
2-Chloroethyl vinyl ether	50.0	51.9		ug/L		104	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: LCS 400-697939/1002

Matrix: Water

Analysis Batch: 697939

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	44.9		ug/L		90	69 - 130
1-Chlorohexane	50.0	51.3		ug/L		103	69 - 130
Chloromethane	50.0	45.6		ug/L		91	58 - 137
cis-1,2-Dichloroethene	50.0	45.6		ug/L		91	68 - 130
cis-1,3-Dichloropropene	50.0	47.2		ug/L		94	69 - 132
Dibromochloromethane	50.0	44.7		ug/L		89	67 - 135
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	67 - 130
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	34.3		ug/L		69	41 - 146
1,1-Dichloroethane	50.0	47.2		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	42.6		ug/L		85	69 - 130
1,1-Dichloroethene	50.0	44.9		ug/L		90	63 - 134
1,2-Dichloropropane	50.0	48.1		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	49.6		ug/L		99	70 - 130
2,2-Dichloropropane	50.0	42.0		ug/L		84	52 - 135
1,1-Dichloropropene	50.0	44.3		ug/L		89	70 - 130
Ethylbenzene	50.0	48.9		ug/L		98	70 - 130
Ethyl methacrylate	50.0	51.8		ug/L		104	68 - 130
Hexachlorobutadiene	50.0	52.5		ug/L		105	53 - 140
2-Hexanone	200	212		ug/L		106	65 - 137
Isopropylbenzene	50.0	49.9		ug/L		100	70 - 130
Methylene bromide	50.0	47.0		ug/L		94	70 - 130
Methylene Chloride	50.0	46.9		ug/L		94	66 - 135
4-Methyl-2-pentanone (MIBK)	200	212		ug/L		106	69 - 138
Methyl tert-butyl ether	50.0	48.0		ug/L		96	66 - 130
m-Xylene & p-Xylene	50.0	47.8		ug/L		96	70 - 130
Naphthalene	50.0	53.9		ug/L		108	47 - 149
n-Butylbenzene	50.0	59.1		ug/L		118	67 - 130
N-Propylbenzene	50.0	53.5		ug/L		107	70 - 130
o-Chlorotoluene	50.0	53.4		ug/L		107	70 - 130
o-Xylene	50.0	49.0		ug/L		98	70 - 130
p-Chlorotoluene	50.0	52.0		ug/L		104	70 - 130
p-Isopropyltoluene	50.0	53.7		ug/L		107	65 - 130
sec-Butylbenzene	50.0	54.1		ug/L		108	66 - 130
Styrene	50.0	47.2		ug/L		94	70 - 130
tert-Butylbenzene	50.0	52.5		ug/L		105	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.6		ug/L		91	67 - 131
1,1,2,2-Tetrachloroethane	50.0	54.1		ug/L		108	70 - 131
Tetrachloroethene	50.0	45.4		ug/L		91	65 - 130
Toluene	50.0	46.9		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	45.8		ug/L		92	70 - 130
trans-1,3-Dichloropropene	50.0	46.8		ug/L		94	63 - 130
1,2,3-Trichlorobenzene	50.0	51.3		ug/L		103	60 - 138
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	60 - 140
1,1,1-Trichloroethane	50.0	42.4		ug/L		85	68 - 130
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	70 - 130
Trichloroethene	50.0	46.1		ug/L		92	70 - 130
Trichlorofluoromethane	50.0	45.7		ug/L		91	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: LCS 400-697939/1002

Matrix: Water

Analysis Batch: 697939

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	52.3		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	50.0	51.7		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	50.0	53.1		ug/L		106	69 - 130
Vinyl acetate	100	114		ug/L		114	26 - 150
Vinyl chloride	50.0	43.6		ug/L		87	59 - 136
Xylenes, Total	100	96.8		ug/L		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	96		79 - 130
Toluene-d8 (Surr)	101		64 - 132

Lab Sample ID: 400-269749-3 MS

Matrix: Water

Analysis Batch: 697939

Client Sample ID: MW6C-ROX-012025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	ND	F1	200	73.5	F1	ug/L		37	43 - 150
Acrolein	ND		500	415		ug/L		83	38 - 150
Acrylonitrile	ND		500	490		ug/L		98	62 - 149
Benzene	ND		50.0	43.1		ug/L		86	56 - 142
Bromobenzene	ND		50.0	41.1		ug/L		82	59 - 136
Bromochloromethane	ND		50.0	43.7		ug/L		87	64 - 140
Bromodichloromethane	ND		50.0	40.9		ug/L		82	59 - 143
Bromoform	ND		50.0	40.0		ug/L		80	50 - 140
Bromomethane	ND		50.0	34.5		ug/L		69	10 - 150
2-Butanone (MEK)	ND	F1	200	105	F1	ug/L		52	55 - 150
Carbon disulfide	ND		50.0	35.4		ug/L		71	48 - 150
Carbon tetrachloride	ND		50.0	37.5		ug/L		75	55 - 145
Chlorobenzene	ND		50.0	41.4		ug/L		83	64 - 130
Chloroethane	ND		50.0	42.3		ug/L		85	50 - 150
2-Chloroethyl vinyl ether	ND	F1	50.0	2.13	J F1	ug/L		4	10 - 150
Chloroform	ND		50.0	42.2		ug/L		84	60 - 141
1-Chlorohexane	ND		50.0	43.3		ug/L		87	56 - 136
Chloromethane	ND		50.0	39.0		ug/L		78	49 - 148
cis-1,2-Dichloroethene	ND		50.0	42.1		ug/L		84	59 - 143
cis-1,3-Dichloropropene	ND		50.0	42.5		ug/L		85	57 - 140
Dibromochloromethane	ND		50.0	42.2		ug/L		84	56 - 143
1,2-Dichlorobenzene	ND	F2	50.0	41.4		ug/L		83	52 - 137
1,3-Dichlorobenzene	ND	F2	50.0	41.2		ug/L		82	54 - 135
1,4-Dichlorobenzene	ND	F2	50.0	40.1		ug/L		80	53 - 135
Dichlorodifluoromethane	ND		50.0	27.7		ug/L		55	16 - 150
1,1-Dichloroethane	ND		50.0	44.2		ug/L		88	61 - 144
1,2-Dichloroethane	ND		50.0	39.6		ug/L		79	60 - 141
1,1-Dichloroethene	ND		50.0	44.1		ug/L		88	54 - 147
1,2-Dichloropropane	ND		50.0	44.8		ug/L		90	66 - 137
1,3-Dichloropropane	ND		50.0	45.8		ug/L		92	66 - 133
2,2-Dichloropropane	ND		50.0	39.5		ug/L		79	42 - 144

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: 400-269749-3 MS

Matrix: Water

Analysis Batch: 697939

Client Sample ID: MW6C-ROX-012025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	ND		50.0	41.0		ug/L		82	65 - 136
Ethylbenzene	ND		50.0	42.3		ug/L		85	58 - 131
Ethyl methacrylate	ND		50.0	46.7		ug/L		93	64 - 130
Hexachlorobutadiene	ND	F2	50.0	37.0		ug/L		74	31 - 149
2-Hexanone	ND		200	141		ug/L		71	65 - 140
Isopropylbenzene	ND		50.0	41.4		ug/L		83	56 - 133
Methylene bromide	ND		50.0	42.7		ug/L		85	63 - 138
Methylene Chloride	ND		50.0	43.4		ug/L		87	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	179		ug/L		89	63 - 146
Methyl tert-butyl ether	ND		50.0	45.7		ug/L		91	59 - 137
m-Xylene & p-Xylene	ND		50.0	40.6		ug/L		81	57 - 130
Naphthalene	ND		50.0	40.5		ug/L		81	25 - 150
n-Butylbenzene	ND	F2	50.0	43.7		ug/L		87	41 - 142
N-Propylbenzene	ND	F2	50.0	42.4		ug/L		85	51 - 138
o-Chlorotoluene	ND		50.0	43.4		ug/L		87	53 - 134
o-Xylene	ND		50.0	42.3		ug/L		85	61 - 130
p-Chlorotoluene	ND	F2	50.0	41.8		ug/L		84	54 - 133
p-Isopropyltoluene	ND	F2	50.0	41.3		ug/L		83	48 - 139
sec-Butylbenzene	ND	F2	50.0	42.3		ug/L		85	50 - 138
Styrene	ND		50.0	40.5		ug/L		81	58 - 131
tert-Butylbenzene	ND	F2	50.0	42.6		ug/L		85	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	41.3		ug/L		83	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	48.6		ug/L		97	66 - 135
Tetrachloroethene	ND		50.0	39.3		ug/L		79	52 - 133
Toluene	ND		50.0	42.6		ug/L		85	65 - 130
trans-1,2-Dichloroethene	ND		50.0	43.5		ug/L		87	61 - 143
trans-1,3-Dichloropropene	ND		50.0	43.4		ug/L		87	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	39.2		ug/L		78	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	39.6		ug/L		79	39 - 148
1,1,1-Trichloroethane	ND		50.0	39.8		ug/L		80	57 - 142
1,1,2-Trichloroethane	ND		50.0	46.8		ug/L		94	66 - 131
Trichloroethene	ND		50.0	41.3		ug/L		83	64 - 136
Trichlorofluoromethane	ND		50.0	37.5		ug/L		75	54 - 150
1,2,3-Trichloropropane	ND		50.0	46.5		ug/L		93	65 - 133
1,2,4-Trimethylbenzene	ND	F2	50.0	42.1		ug/L		84	50 - 139
1,3,5-Trimethylbenzene	ND	F2	50.0	42.6		ug/L		85	52 - 135
Vinyl acetate	ND		100	97.5		ug/L		98	26 - 150
Vinyl chloride	ND		50.0	37.9		ug/L		76	46 - 150
Xylenes, Total	ND		100	82.9		ug/L		83	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	97		79 - 130
Toluene-d8 (Surr)	101		64 - 132

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: 400-269749-3 MSD

Matrix: Water

Analysis Batch: 697939

Client Sample ID: MW6C-ROX-012025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND	F1	200	87.3		ug/L		44	43 - 150	17	30
Acrolein	ND		500	501		ug/L		100	38 - 150	19	31
Acrylonitrile	ND		500	601		ug/L		120	62 - 149	20	30
Benzene	ND		50.0	50.9		ug/L		102	56 - 142	17	30
Bromobenzene	ND		50.0	52.8		ug/L		106	59 - 136	25	30
Bromochloromethane	ND		50.0	51.5		ug/L		103	64 - 140	17	30
Bromodichloromethane	ND		50.0	50.2		ug/L		100	59 - 143	20	30
Bromoform	ND		50.0	51.1		ug/L		102	50 - 140	24	30
Bromomethane	ND		50.0	38.9		ug/L		78	10 - 150	12	50
2-Butanone (MEK)	ND	F1	200	121		ug/L		61	55 - 150	15	30
Carbon disulfide	ND		50.0	42.3		ug/L		85	48 - 150	18	30
Carbon tetrachloride	ND		50.0	45.5		ug/L		91	55 - 145	19	30
Chlorobenzene	ND		50.0	52.7		ug/L		105	64 - 130	24	30
Chloroethane	ND		50.0	46.9		ug/L		94	50 - 150	10	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 150	NC	50
Chloroform	ND		50.0	50.1		ug/L		100	60 - 141	17	30
1-Chlorohexane	ND		50.0	57.2		ug/L		114	56 - 136	28	30
Chloromethane	ND		50.0	45.4		ug/L		91	49 - 148	15	31
cis-1,2-Dichloroethene	ND		50.0	56.3		ug/L		113	59 - 143	29	30
cis-1,3-Dichloropropene	ND		50.0	52.6		ug/L		105	57 - 140	21	30
Dibromochloromethane	ND		50.0	51.9		ug/L		104	56 - 143	21	30
1,2-Dichlorobenzene	ND	F2	50.0	56.7	F2	ug/L		113	52 - 137	31	30
1,3-Dichlorobenzene	ND	F2	50.0	56.5	F2	ug/L		113	54 - 135	31	30
1,4-Dichlorobenzene	ND	F2	50.0	55.5	F2	ug/L		111	53 - 135	32	30
Dichlorodifluoromethane	ND		50.0	33.7		ug/L		67	16 - 150	19	31
1,1-Dichloroethane	ND		50.0	51.5		ug/L		103	61 - 144	15	30
1,2-Dichloroethane	ND		50.0	47.4		ug/L		95	60 - 141	18	30
1,1-Dichloroethene	ND		50.0	44.8		ug/L		90	54 - 147	1	30
1,2-Dichloropropane	ND		50.0	53.5		ug/L		107	66 - 137	18	30
1,3-Dichloropropane	ND		50.0	54.3		ug/L		109	66 - 133	17	30
2,2-Dichloropropane	ND		50.0	46.4		ug/L		93	42 - 144	16	31
1,1-Dichloropropene	ND		50.0	48.7		ug/L		97	65 - 136	17	30
Ethylbenzene	ND		50.0	54.5		ug/L		109	58 - 131	25	30
Ethyl methacrylate	ND		50.0	55.8		ug/L		112	64 - 130	18	30
Hexachlorobutadiene	ND	F2	50.0	58.6	F2	ug/L		117	31 - 149	45	36
2-Hexanone	ND		200	169		ug/L		84	65 - 140	18	30
Isopropylbenzene	ND		50.0	55.5		ug/L		111	56 - 133	29	30
Methylene bromide	ND		50.0	51.6		ug/L		103	63 - 138	19	30
Methylene Chloride	ND		50.0	50.8		ug/L		102	60 - 146	16	32
4-Methyl-2-pentanone (MIBK)	ND		200	217		ug/L		109	63 - 146	19	30
Methyl tert-butyl ether	ND		50.0	54.9		ug/L		110	59 - 137	18	30
m-Xylene & p-Xylene	ND		50.0	52.9		ug/L		106	57 - 130	26	30
Naphthalene	ND		50.0	53.0		ug/L		106	25 - 150	27	30
n-Butylbenzene	ND	F2	50.0	65.3	F2	ug/L		131	41 - 142	40	31
N-Propylbenzene	ND	F2	50.0	58.9	F2	ug/L		118	51 - 138	33	30
o-Chlorotoluene	ND		50.0	59.0		ug/L		118	53 - 134	30	30
o-Xylene	ND		50.0	54.8		ug/L		110	61 - 130	26	30
p-Chlorotoluene	ND	F2	50.0	57.1	F2	ug/L		114	54 - 133	31	30

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: 400-269749-3 MSD

Matrix: Water

Analysis Batch: 697939

Client Sample ID: MW6C-ROX-012025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
p-Isopropyltoluene	ND	F2	50.0	59.5	F2	ug/L		119	48 - 139	36	30
sec-Butylbenzene	ND	F2	50.0	60.8	F2	ug/L		122	50 - 138	36	30
Styrene	ND		50.0	53.0		ug/L		106	58 - 131	27	30
tert-Butylbenzene	ND	F2	50.0	58.0	F2	ug/L		116	54 - 146	31	30
1,1,1,2-Tetrachloroethane	ND		50.0	51.3		ug/L		103	59 - 137	22	30
1,1,2,2-Tetrachloroethane	ND		50.0	56.8		ug/L		114	66 - 135	16	30
Tetrachloroethene	ND		50.0	49.0		ug/L		98	52 - 133	22	30
Toluene	ND		50.0	52.1		ug/L		104	65 - 130	20	30
trans-1,2-Dichloroethene	ND		50.0	51.3		ug/L		103	61 - 143	17	30
trans-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	53 - 133	18	30
1,2,3-Trichlorobenzene	ND		50.0	52.8		ug/L		106	43 - 145	30	30
1,2,4-Trichlorobenzene	ND		50.0	53.8		ug/L		108	39 - 148	30	30
1,1,1-Trichloroethane	ND		50.0	46.8		ug/L		94	57 - 142	16	30
1,1,2-Trichloroethane	ND		50.0	55.4		ug/L		111	66 - 131	17	30
Trichloroethene	ND		50.0	50.2		ug/L		100	64 - 136	19	30
Trichlorofluoromethane	ND		50.0	31.1		ug/L		62	54 - 150	19	30
1,2,3-Trichloropropane	ND		50.0	55.0		ug/L		110	65 - 133	17	30
1,2,4-Trimethylbenzene	ND	F2	50.0	58.4	F2	ug/L		117	50 - 139	32	30
1,3,5-Trimethylbenzene	ND	F2	50.0	59.1	F2	ug/L		118	52 - 135	32	30
Vinyl acetate	ND		100	113		ug/L		113	26 - 150	15	33
Vinyl chloride	ND		50.0	43.0		ug/L		86	46 - 150	13	30
Xylenes, Total	ND		100	108		ug/L		108	59 - 130	26	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	97		79 - 130
Toluene-d8 (Surr)	100		64 - 132

Lab Sample ID: MB 400-698066/4

Matrix: Water

Analysis Batch: 698066

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			01/31/25 07:56	1
Acrolein	ND		20	3.3	ug/L			01/31/25 07:56	1
Acrylonitrile	ND		10	2.8	ug/L			01/31/25 07:56	1
Benzene	ND		1.0	0.50	ug/L			01/31/25 07:56	1
Bromobenzene	ND		1.0	0.54	ug/L			01/31/25 07:56	1
Bromochloromethane	ND		1.0	0.52	ug/L			01/31/25 07:56	1
Bromodichloromethane	ND		1.0	0.50	ug/L			01/31/25 07:56	1
Bromoform	ND		5.0	0.25	ug/L			01/31/25 07:56	1
Bromomethane	ND		1.0	0.98	ug/L			01/31/25 07:56	1
2-Butanone (MEK)	ND		25	2.6	ug/L			01/31/25 07:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			01/31/25 07:56	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			01/31/25 07:56	1
Chlorobenzene	ND		1.0	0.42	ug/L			01/31/25 07:56	1
Chloroethane	ND		1.0	0.76	ug/L			01/31/25 07:56	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			01/31/25 07:56	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: MB 400-698066/4

Matrix: Water

Analysis Batch: 698066

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.90	ug/L			01/31/25 07:56	1
1-Chlorohexane	ND		1.0	0.32	ug/L			01/31/25 07:56	1
Chloromethane	ND		1.0	0.40	ug/L			01/31/25 07:56	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			01/31/25 07:56	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			01/31/25 07:56	1
Dibromochloromethane	ND		1.0	0.24	ug/L			01/31/25 07:56	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			01/31/25 07:56	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			01/31/25 07:56	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			01/31/25 07:56	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			01/31/25 07:56	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			01/31/25 07:56	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			01/31/25 07:56	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			01/31/25 07:56	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 07:56	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 07:56	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			01/31/25 07:56	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			01/31/25 07:56	1
Ethylbenzene	ND		1.0	0.50	ug/L			01/31/25 07:56	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			01/31/25 07:56	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			01/31/25 07:56	1
2-Hexanone	ND		25	4.3	ug/L			01/31/25 07:56	1
Isopropylbenzene	ND		1.0	0.53	ug/L			01/31/25 07:56	1
Methylene bromide	ND		5.0	0.22	ug/L			01/31/25 07:56	1
Methylene Chloride	ND		5.0	3.0	ug/L			01/31/25 07:56	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			01/31/25 07:56	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			01/31/25 07:56	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			01/31/25 07:56	1
Naphthalene	ND		5.0	3.0	ug/L			01/31/25 07:56	1
n-Butylbenzene	ND		1.0	0.76	ug/L			01/31/25 07:56	1
N-Propylbenzene	ND		1.0	0.69	ug/L			01/31/25 07:56	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			01/31/25 07:56	1
o-Xylene	ND		5.0	3.0	ug/L			01/31/25 07:56	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			01/31/25 07:56	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			01/31/25 07:56	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			01/31/25 07:56	1
Styrene	ND		1.0	1.0	ug/L			01/31/25 07:56	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			01/31/25 07:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			01/31/25 07:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			01/31/25 07:56	1
Tetrachloroethene	ND		1.0	0.33	ug/L			01/31/25 07:56	1
Toluene	ND		1.0	0.90	ug/L			01/31/25 07:56	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			01/31/25 07:56	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			01/31/25 07:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			01/31/25 07:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			01/31/25 07:56	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			01/31/25 07:56	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			01/31/25 07:56	1
Trichloroethene	ND		1.0	0.15	ug/L			01/31/25 07:56	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			01/31/25 07:56	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: MB 400-698066/4

Matrix: Water

Analysis Batch: 698066

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			01/31/25 07:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			01/31/25 07:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			01/31/25 07:56	1
Vinyl acetate	ND		25	0.93	ug/L			01/31/25 07:56	1
Vinyl chloride	ND		1.0	0.50	ug/L			01/31/25 07:56	1
Xylenes, Total	ND		10	6.0	ug/L			01/31/25 07:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		01/31/25 07:56	1
Dibromofluoromethane	95		79 - 130		01/31/25 07:56	1
Toluene-d8 (Surr)	99		64 - 132		01/31/25 07:56	1

Lab Sample ID: LCS 400-698066/1002

Matrix: Water

Analysis Batch: 698066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	219		ug/L		110	43 - 150
Acrolein	500	449		ug/L		90	38 - 150
Acrylonitrile	500	493		ug/L		99	64 - 142
Benzene	50.0	49.2		ug/L		98	70 - 130
Bromobenzene	50.0	52.2		ug/L		104	70 - 132
Bromochloromethane	50.0	48.4		ug/L		97	70 - 130
Bromodichloromethane	50.0	48.1		ug/L		96	67 - 133
Bromoform	50.0	45.4		ug/L		91	57 - 140
Bromomethane	50.0	44.4		ug/L		89	10 - 150
2-Butanone (MEK)	200	198		ug/L		99	61 - 145
Carbon disulfide	50.0	39.7		ug/L		79	61 - 137
Carbon tetrachloride	50.0	44.2		ug/L		88	61 - 137
Chlorobenzene	50.0	51.7		ug/L		103	70 - 130
Chloroethane	50.0	47.9		ug/L		96	55 - 141
2-Chloroethyl vinyl ether	50.0	50.5		ug/L		101	10 - 150
Chloroform	50.0	49.3		ug/L		99	69 - 130
1-Chlorohexane	50.0	55.5		ug/L		111	69 - 130
Chloromethane	50.0	48.9		ug/L		98	58 - 137
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	68 - 130
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	69 - 132
Dibromochloromethane	50.0	49.7		ug/L		99	67 - 135
1,2-Dichlorobenzene	50.0	55.3		ug/L		111	67 - 130
1,3-Dichlorobenzene	50.0	56.6		ug/L		113	70 - 130
1,4-Dichlorobenzene	50.0	55.4		ug/L		111	70 - 130
Dichlorodifluoromethane	50.0	37.4		ug/L		75	41 - 146
1,1-Dichloroethane	50.0	50.7		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	46.1		ug/L		92	69 - 130
1,1-Dichloroethene	50.0	48.9		ug/L		98	63 - 134
1,2-Dichloropropane	50.0	51.0		ug/L		102	70 - 130
1,3-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
2,2-Dichloropropane	50.0	46.7		ug/L		93	52 - 135

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: LCS 400-698066/1002

Matrix: Water

Analysis Batch: 698066

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	50.0	47.5		ug/L		95	70 - 130
Ethylbenzene	50.0	53.3		ug/L		107	70 - 130
Ethyl methacrylate	50.0	51.4		ug/L		103	68 - 130
Hexachlorobutadiene	50.0	60.0		ug/L		120	53 - 140
2-Hexanone	200	237		ug/L		118	65 - 137
Isopropylbenzene	50.0	54.9		ug/L		110	70 - 130
Methylene bromide	50.0	49.0		ug/L		98	70 - 130
Methylene Chloride	50.0	48.4		ug/L		97	66 - 135
4-Methyl-2-pentanone (MIBK)	200	215		ug/L		108	69 - 138
Methyl tert-butyl ether	50.0	47.6		ug/L		95	66 - 130
m-Xylene & p-Xylene	50.0	52.0		ug/L		104	70 - 130
Naphthalene	50.0	51.1		ug/L		102	47 - 149
n-Butylbenzene	50.0	63.8		ug/L		128	67 - 130
N-Propylbenzene	50.0	58.1		ug/L		116	70 - 130
o-Chlorotoluene	50.0	56.8		ug/L		114	70 - 130
o-Xylene	50.0	52.6		ug/L		105	70 - 130
p-Chlorotoluene	50.0	56.2		ug/L		112	70 - 130
p-Isopropyltoluene	50.0	59.4		ug/L		119	65 - 130
sec-Butylbenzene	50.0	59.1		ug/L		118	66 - 130
Styrene	50.0	51.1		ug/L		102	70 - 130
tert-Butylbenzene	50.0	56.5		ug/L		113	64 - 139
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L		99	67 - 131
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/L		106	70 - 131
Tetrachloroethene	50.0	48.5		ug/L		97	65 - 130
Toluene	50.0	50.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	46.5		ug/L		93	70 - 130
trans-1,3-Dichloropropene	50.0	50.7		ug/L		101	63 - 130
1,2,3-Trichlorobenzene	50.0	54.8		ug/L		110	60 - 138
1,2,4-Trichlorobenzene	50.0	55.3		ug/L		111	60 - 140
1,1,1-Trichloroethane	50.0	46.6		ug/L		93	68 - 130
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	70 - 130
Trichloroethene	50.0	49.2		ug/L		98	70 - 130
Trichlorofluoromethane	50.0	49.2		ug/L		98	65 - 138
1,2,3-Trichloropropane	50.0	52.7		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	50.0	56.6		ug/L		113	70 - 130
1,3,5-Trimethylbenzene	50.0	57.8		ug/L		116	69 - 130
Vinyl acetate	100	111		ug/L		111	26 - 150
Vinyl chloride	50.0	44.5		ug/L		89	59 - 136
Xylenes, Total	100	105		ug/L		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	97		79 - 130
Toluene-d8 (Surr)	100		64 - 132

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: MB 400-697545/1-A

Matrix: Water

Analysis Batch: 697998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697545

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		01/27/25 09:10	01/30/25 16:50	1
Benzenethiol	ND		10	9.9	ug/L		01/27/25 09:10	01/30/25 16:50	1
Benzoic acid	ND		30	24	ug/L		01/27/25 09:10	01/30/25 16:50	1
Benzyl alcohol	ND		10	7.3	ug/L		01/27/25 09:10	01/30/25 16:50	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/27/25 09:10	01/30/25 16:50	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/27/25 09:10	01/30/25 16:50	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/27/25 09:10	01/30/25 16:50	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/27/25 09:10	01/30/25 16:50	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/27/25 09:10	01/30/25 16:50	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/27/25 09:10	01/30/25 16:50	1
4-Chloroaniline	ND		10	4.7	ug/L		01/27/25 09:10	01/30/25 16:50	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/27/25 09:10	01/30/25 16:50	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/27/25 09:10	01/30/25 16:50	1
2-Chlorophenol	ND		10	4.1	ug/L		01/27/25 09:10	01/30/25 16:50	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/27/25 09:10	01/30/25 16:50	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/27/25 09:10	01/30/25 16:50	1
Dibenzofuran	ND		10	4.0	ug/L		01/27/25 09:10	01/30/25 16:50	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/27/25 09:10	01/30/25 16:50	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/27/25 09:10	01/30/25 16:50	1
Diethyl phthalate	ND		10	4.4	ug/L		01/27/25 09:10	01/30/25 16:50	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/27/25 09:10	01/30/25 16:50	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/27/25 09:10	01/30/25 16:50	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/27/25 09:10	01/30/25 16:50	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/27/25 09:10	01/30/25 16:50	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/27/25 09:10	01/30/25 16:50	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/27/25 09:10	01/30/25 16:50	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/27/25 09:10	01/30/25 16:50	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/27/25 09:10	01/30/25 16:50	1
1,4-Dioxane	ND		10	4.3	ug/L		01/27/25 09:10	01/30/25 16:50	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/27/25 09:10	01/30/25 16:50	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/27/25 09:10	01/30/25 16:50	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/27/25 09:10	01/30/25 16:50	1
Hexachloroethane	ND		10	5.2	ug/L		01/27/25 09:10	01/30/25 16:50	1
Indene	ND		10	3.6	ug/L		01/27/25 09:10	01/30/25 16:50	1
Isophorone	ND		10	5.2	ug/L		01/27/25 09:10	01/30/25 16:50	1
2-Methylphenol	ND		10	3.2	ug/L		01/27/25 09:10	01/30/25 16:50	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/27/25 09:10	01/30/25 16:50	1
2-Nitroaniline	ND		10	5.0	ug/L		01/27/25 09:10	01/30/25 16:50	1
3-Nitroaniline	ND		10	4.7	ug/L		01/27/25 09:10	01/30/25 16:50	1
4-Nitroaniline	ND		10	4.1	ug/L		01/27/25 09:10	01/30/25 16:50	1
Nitrobenzene	ND		10	4.7	ug/L		01/27/25 09:10	01/30/25 16:50	1
2-Nitrophenol	ND		10	4.6	ug/L		01/27/25 09:10	01/30/25 16:50	1
4-Nitrophenol	ND		10	3.3	ug/L		01/27/25 09:10	01/30/25 16:50	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/27/25 09:10	01/30/25 16:50	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/27/25 09:10	01/30/25 16:50	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/27/25 09:10	01/30/25 16:50	1
Pentachlorophenol	ND		20	12	ug/L		01/27/25 09:10	01/30/25 16:50	1
Phenol	ND		10	4.2	ug/L		01/27/25 09:10	01/30/25 16:50	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: MB 400-697545/1-A

Matrix: Water

Analysis Batch: 697998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697545

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		10	10	ug/L		01/27/25 09:10	01/30/25 16:50	1
Quinoline	ND		10	2.4	ug/L		01/27/25 09:10	01/30/25 16:50	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/27/25 09:10	01/30/25 16:50	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/27/25 09:10	01/30/25 16:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		21 - 114	01/27/25 09:10	01/30/25 16:50	1
2-Fluorophenol	25		10 - 105	01/27/25 09:10	01/30/25 16:50	1
Nitrobenzene-d5	53		16 - 127	01/27/25 09:10	01/30/25 16:50	1
Phenol-d5	17		10 - 129	01/27/25 09:10	01/30/25 16:50	1
Terphenyl-d14	86		13 - 150	01/27/25 09:10	01/30/25 16:50	1
2,4,6-Tribromophenol	79		10 - 150	01/27/25 09:10	01/30/25 16:50	1

Lab Sample ID: LCS 400-697545/21-A

Matrix: Water

Analysis Batch: 697998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzenethiol	120	53.7		ug/L		45	10 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	74		21 - 114
2-Fluorophenol	30		10 - 105
Nitrobenzene-d5	59		16 - 127
Phenol-d5	19		10 - 129
Terphenyl-d14	99		13 - 150
2,4,6-Tribromophenol	89		10 - 150

Lab Sample ID: LCS 400-697545/2-A

Matrix: Water

Analysis Batch: 697998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	120	30.7		ug/L		26	10 - 127
Benzoic acid	493	72.4	*-	ug/L		15	19 - 126
Benzyl alcohol	120	48.7		ug/L		41	17 - 109
Bis(2-chloroethoxy)methane	120	73.6		ug/L		61	24 - 125
Bis(2-chloroethyl)ether	120	73.0		ug/L		61	10 - 121
bis (2-chloroisopropyl) ether	120	59.5		ug/L		50	14 - 123
Bis(2-ethylhexyl) phthalate	120	96.7		ug/L		81	16 - 150
4-Bromophenyl phenyl ether	120	116		ug/L		96	17 - 150
Butyl benzyl phthalate	120	93.4		ug/L		78	21 - 150
4-Chloroaniline	120	83.2		ug/L		69	10 - 124
4-Chloro-3-methylphenol	120	79.3		ug/L		66	37 - 131
2-Chloronaphthalene	120	87.7		ug/L		73	24 - 132
2-Chlorophenol	120	66.6		ug/L		55	27 - 124
4-Chlorophenyl phenyl ether	120	110		ug/L		92	27 - 147
Dibenz[a,h]acridine	120	127		ug/L		106	40 - 140

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: LCS 400-697545/2-A

Matrix: Water

Analysis Batch: 697998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenzofuran	120	100		ug/L		84	30 - 135
3,3'-Dichlorobenzidine	160	223		ug/L		140	10 - 150
2,4-Dichlorophenol	120	85.3		ug/L		71	33 - 132
Diethyl phthalate	120	104		ug/L		87	37 - 145
2,4-Dimethylphenol	120	75.7		ug/L		63	38 - 132
Dimethyl phthalate	120	98.9		ug/L		82	32 - 137
Di-n-butyl phthalate	120	110		ug/L		92	27 - 150
4,6-Dinitro-ortho-cresol	240	235		ug/L		98	14 - 150
2,4-Dinitrophenol	240	247		ug/L		103	15 - 150
2,4-Dinitrotoluene	120	109		ug/L		91	35 - 136
2,6-Dinitrotoluene	120	99.2		ug/L		83	29 - 140
Di-n-octyl phthalate	120	102		ug/L		85	26 - 150
1,4-Dioxane	120	32.5		ug/L		27	10 - 87
1,2-Diphenylhydrazine (as Azobenzene)	120	78.9		ug/L		66	23 - 138
Hexachlorobenzene	120	131		ug/L		109	10 - 150
Hexachlorocyclopentadiene	120	72.0		ug/L		60	10 - 124
Hexachloroethane	120	64.3		ug/L		54	10 - 127
Indene	120	68.1		ug/L		57	18 - 150
Isophorone	120	74.1		ug/L		62	28 - 127
2-Methylphenol	120	61.8		ug/L		51	34 - 124
3 & 4 Methylphenol	120	52.7		ug/L		44	32 - 122
2-Nitroaniline	120	78.9		ug/L		66	24 - 139
3-Nitroaniline	120	85.9		ug/L		72	10 - 128
4-Nitroaniline	120	91.1		ug/L		76	28 - 118
Nitrobenzene	120	65.9		ug/L		55	29 - 120
2-Nitrophenol	120	86.6		ug/L		72	25 - 148
4-Nitrophenol	240	110		ug/L		46	12 - 129
N-Nitrosodimethylamine	120	31.4		ug/L		26	10 - 115
N-Nitrosodi-n-propylamine	120	78.1		ug/L		65	24 - 142
N-Nitrosodiphenylamine	119	95.2		ug/L		80	29 - 138
Pentachlorophenol	240	215		ug/L		90	19 - 150
Phenol	120	32.3		ug/L		27	11 - 95
Pyridine	240	27.4		ug/L		11	10 - 82
Quinoline	120	51.4		ug/L		43	10 - 141
2,4,5-Trichlorophenol	120	94.4		ug/L		79	30 - 144
2,4,6-Trichlorophenol	120	95.8		ug/L		80	27 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	80		21 - 114
2-Fluorophenol	35		10 - 105
Nitrobenzene-d5	65		16 - 127
Phenol-d5	25		10 - 129
Terphenyl-d14	96		13 - 150
2,4,6-Tribromophenol	103		10 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: LCSD 400-697545/22-A

Matrix: Water

Analysis Batch: 697998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697545

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzenethiol	120	54.4		ug/L		45	10 - 140	1	40
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2-Fluorobiphenyl	74		21 - 114						
2-Fluorophenol	33		10 - 105						
Nitrobenzene-d5	62		16 - 127						
Phenol-d5	22		10 - 129						
Terphenyl-d14	98		13 - 150						
2,4,6-Tribromophenol	90		10 - 150						

Lab Sample ID: LCSD 400-697545/3-A

Matrix: Water

Analysis Batch: 697998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697545

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	120	32.4		ug/L		27	10 - 127	5	40
Benzoic acid	493	75.8	*-	ug/L		15	19 - 126	5	40
Benzyl alcohol	120	50.2		ug/L		42	17 - 109	3	40
Bis(2-chloroethoxy)methane	120	74.5		ug/L		62	24 - 125	1	40
Bis(2-chloroethyl)ether	120	68.5		ug/L		57	10 - 121	6	40
bis (2-chloroisopropyl) ether	120	59.3		ug/L		49	14 - 123	0	40
Bis(2-ethylhexyl) phthalate	120	99.1		ug/L		83	16 - 150	2	40
4-Bromophenyl phenyl ether	120	120		ug/L		100	17 - 150	3	40
Butyl benzyl phthalate	120	99.0		ug/L		82	21 - 150	6	40
4-Chloroaniline	120	79.9		ug/L		67	10 - 124	4	40
4-Chloro-3-methylphenol	120	84.9		ug/L		71	37 - 131	7	40
2-Chloronaphthalene	120	94.1		ug/L		78	24 - 132	7	40
2-Chlorophenol	120	68.3		ug/L		57	27 - 124	3	40
4-Chlorophenyl phenyl ether	120	114		ug/L		95	27 - 147	4	40
Dibenz[a,h]acridine	120	125		ug/L		105	40 - 140	1	40
Dibenzofuran	120	104		ug/L		86	30 - 135	3	40
3,3'-Dichlorobenzidine	160	220		ug/L		137	10 - 150	2	40
2,4-Dichlorophenol	120	89.1		ug/L		74	33 - 132	4	40
Diethyl phthalate	120	106		ug/L		89	37 - 145	2	40
2,4-Dimethylphenol	120	78.4		ug/L		65	38 - 132	4	40
Dimethyl phthalate	120	102		ug/L		85	32 - 137	3	40
Di-n-butyl phthalate	120	111		ug/L		92	27 - 150	0	40
4,6-Dinitro-ortho-cresol	240	247		ug/L		103	14 - 150	5	40
2,4-Dinitrophenol	240	265		ug/L		110	15 - 150	7	40
2,4-Dinitrotoluene	120	114		ug/L		95	35 - 136	5	40
2,6-Dinitrotoluene	120	104		ug/L		87	29 - 140	5	40
Di-n-octyl phthalate	120	103		ug/L		86	26 - 150	1	40
1,4-Dioxane	120	30.1		ug/L		25	10 - 87	8	40
1,2-Diphenylhydrazine (as Azobenzene)	120	80.8		ug/L		67	23 - 138	2	40
Hexachlorobenzene	120	135		ug/L		113	10 - 150	3	40
Hexachlorocyclopentadiene	120	72.7		ug/L		61	10 - 124	1	40
Hexachloroethane	120	69.9		ug/L		58	10 - 127	8	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: LCSD 400-697545/3-A

Matrix: Water

Analysis Batch: 697998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697545

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indene	120	67.2		ug/L		56	18 - 150	1	40
Isophorone	120	74.2		ug/L		62	28 - 127	0	40
2-Methylphenol	120	63.6		ug/L		53	34 - 124	3	40
3 & 4 Methylphenol	120	56.6		ug/L		47	32 - 122	7	40
2-Nitroaniline	120	80.8		ug/L		67	24 - 139	2	40
3-Nitroaniline	120	88.7		ug/L		74	10 - 128	3	40
4-Nitroaniline	120	94.5		ug/L		79	28 - 118	4	40
Nitrobenzene	120	65.4		ug/L		54	29 - 120	1	40
2-Nitrophenol	120	89.8		ug/L		75	25 - 148	4	40
4-Nitrophenol	240	115		ug/L		48	12 - 129	5	40
N-Nitrosodimethylamine	120	30.8		ug/L		26	10 - 115	2	40
N-Nitrosodi-n-propylamine	120	80.2		ug/L		67	24 - 142	3	40
N-Nitrosodiphenylamine	119	101		ug/L		85	29 - 138	6	40
Pentachlorophenol	240	229		ug/L		95	19 - 150	6	40
Phenol	120	36.0		ug/L		30	11 - 95	11	40
Pyridine	240	23.7		ug/L		10	10 - 82	14	40
Quinoline	120	44.2		ug/L		37	10 - 141	15	40
2,4,5-Trichlorophenol	120	101		ug/L		84	30 - 144	7	40
2,4,6-Trichlorophenol	120	102		ug/L		85	27 - 147	6	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	81		21 - 114
2-Fluorophenol	35		10 - 105
Nitrobenzene-d5	65		16 - 127
Phenol-d5	26		10 - 129
Terphenyl-d14	102		13 - 150
2,4,6-Tribromophenol	111		10 - 150

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

Lab Sample ID: MB 400-697457/1-A

Matrix: Water

Analysis Batch: 697870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.40	0.17	ug/L		01/25/25 12:53	01/29/25 15:01	1
Acenaphthylene	ND		0.40	0.094	ug/L		01/25/25 12:53	01/29/25 15:01	1
Anthracene	ND		0.40	0.15	ug/L		01/25/25 12:53	01/29/25 15:01	1
Benzo[a]anthracene	ND		0.40	0.080	ug/L		01/25/25 12:53	01/29/25 15:01	1
Benzo[a]pyrene	ND		0.40	0.090	ug/L		01/25/25 12:53	01/29/25 15:01	1
Benzo[b]fluoranthene	ND		0.40	0.084	ug/L		01/25/25 12:53	01/29/25 15:01	1
Benzo[g,h,i]perylene	ND		0.40	0.10	ug/L		01/25/25 12:53	01/29/25 15:01	1
Benzo[k]fluoranthene	ND		0.40	0.080	ug/L		01/25/25 12:53	01/29/25 15:01	1
Chrysene	ND		0.40	0.078	ug/L		01/25/25 12:53	01/29/25 15:01	1
Dibenz(a,h)anthracene	ND		0.40	0.088	ug/L		01/25/25 12:53	01/29/25 15:01	1
Fluoranthene	ND		0.40	0.064	ug/L		01/25/25 12:53	01/29/25 15:01	1
Fluorene	ND		0.40	0.17	ug/L		01/25/25 12:53	01/29/25 15:01	1
Indeno[1,2,3-cd]pyrene	ND		0.40	0.064	ug/L		01/25/25 12:53	01/29/25 15:01	1
1-Methylnaphthalene	ND		0.40	0.13	ug/L		01/25/25 12:53	01/29/25 15:01	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: MB 400-697457/1-A

Matrix: Water

Analysis Batch: 697870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.40	0.15	ug/L		01/25/25 12:53	01/29/25 15:01	1
Phenanthrene	ND		0.40	0.088	ug/L		01/25/25 12:53	01/29/25 15:01	1
Pyrene	ND		0.40	0.080	ug/L		01/25/25 12:53	01/29/25 15:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		15 - 150	01/25/25 12:53	01/29/25 15:01	1
Nitrobenzene-d5	127		50 - 150	01/25/25 12:53	01/29/25 15:01	1
Terphenyl-d14	124		43 - 147	01/25/25 12:53	01/29/25 15:01	1

Lab Sample ID: LCS 400-697457/2-A

Matrix: Water

Analysis Batch: 697870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	3.21		ug/L		96	50 - 150
Acenaphthylene	3.34	3.29		ug/L		99	50 - 150
Anthracene	3.34	3.54		ug/L		106	50 - 150
Benzo[a]anthracene	3.34	3.50		ug/L		105	50 - 150
Benzo[a]pyrene	3.34	3.39		ug/L		102	50 - 150
Benzo[b]fluoranthene	3.34	3.30		ug/L		99	50 - 150
Benzo[g,h,i]perylene	3.34	3.39		ug/L		102	50 - 150
Benzo[k]fluoranthene	3.34	3.37		ug/L		101	50 - 150
Chrysene	3.34	3.48		ug/L		104	50 - 150
Dibenz(a,h)anthracene	3.34	3.34		ug/L		100	50 - 150
Fluoranthene	3.34	3.64		ug/L		109	50 - 150
Fluorene	3.34	3.54		ug/L		106	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.39		ug/L		102	50 - 150
1-Methylnaphthalene	3.34	3.14		ug/L		94	50 - 150
2-Methylnaphthalene	3.34	3.10		ug/L		93	50 - 150
Phenanthrene	3.34	3.48		ug/L		104	50 - 150
Pyrene	3.34	3.67		ug/L		110	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	105		15 - 150
Nitrobenzene-d5	121		50 - 150
Terphenyl-d14	117		43 - 147

Lab Sample ID: LCSD 400-697457/3-A

Matrix: Water

Analysis Batch: 697870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697457

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	3.34	3.11		ug/L		93	50 - 150	3	40
Acenaphthylene	3.34	3.15		ug/L		94	50 - 150	5	40
Anthracene	3.34	3.44		ug/L		103	50 - 150	3	40
Benzo[a]anthracene	3.34	3.40		ug/L		102	50 - 150	3	40
Benzo[a]pyrene	3.34	3.28		ug/L		98	50 - 150	4	40
Benzo[b]fluoranthene	3.34	3.18		ug/L		95	50 - 150	4	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

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

Lab Sample ID: LCSD 400-697457/3-A

Matrix: Water

Analysis Batch: 697870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697457

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	3.34	3.31		ug/L		99	50 - 150	2	40
Benzo[k]fluoranthene	3.34	3.38		ug/L		101	50 - 150	0	40
Chrysene	3.34	3.37		ug/L		101	50 - 150	3	40
Dibenz(a,h)anthracene	3.34	3.31		ug/L		99	50 - 150	1	40
Fluoranthene	3.34	3.55		ug/L		106	50 - 150	2	40
Fluorene	3.34	3.30		ug/L		99	50 - 150	7	40
Indeno[1,2,3-cd]pyrene	3.34	3.32		ug/L		100	50 - 150	2	40
1-Methylnaphthalene	3.34	2.86		ug/L		86	50 - 150	10	40
2-Methylnaphthalene	3.34	2.72		ug/L		82	50 - 150	13	40
Phenanthrene	3.34	3.32		ug/L		99	50 - 150	5	40
Pyrene	3.34	3.59		ug/L		108	50 - 150	2	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	103		15 - 150
Nitrobenzene-d5	122		50 - 150
Terphenyl-d14	118		43 - 147

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-697583/1-A

Matrix: Water

Analysis Batch: 697605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/27/25 12:41	01/27/25 15:53	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/27/25 12:41	01/27/25 15:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		51 - 149	01/27/25 12:41	01/27/25 15:53	1

Lab Sample ID: LCS 400-697583/2-A

Matrix: Water

Analysis Batch: 697605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.101	0.0800		ug/L		79	60 - 140
1,2-Dibromoethane	0.100	0.0987		ug/L		98	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	90		51 - 149

Lab Sample ID: LCSD 400-697583/3-A

Matrix: Water

Analysis Batch: 697605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697583

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.101	0.0707		ug/L		70	60 - 140	10	30
1,2-Dibromoethane	0.100	0.0977		ug/L		97	60 - 140	1	30

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269749-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-697583/3-A
Matrix: Water
Analysis Batch: 697605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 697583

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	87		51 - 149

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Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-269749-1

Login Number: 269749

List Source: Eurofins Pensacola

List Number: 1

Creator: Beecher (Roberts), Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.9°C IR8
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-269749-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269764-1

Site Name: Roxana

Prepared By and Date: Andrei Niculau 3/4/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/14/2025

Stage 2A Validation																	
Item Reviewed	Acceptable Criteria	Quality Condition			Comments												
		Pass	Fail ¹	N/A													
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.												
Holding Times	Analyses were performed within holding time.	X															
Surrogate	Surrogate recoveries met acceptance criteria.	X															
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.			X													
Matrix Spike	MS recoveries met acceptance criteria.			X													
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.		X														
<table border="1"> <thead> <tr> <th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr> </thead> <tbody> <tr> <td>LCS/LCSD 400-697974/2-A/3-A</td><td>SVOCs</td><td>N-Nitrosodimethylamine</td><td>20/31</td><td>41</td><td>10-115/40</td></tr> </tbody> </table> Analytical data reported as non-detect and associated with LCS/LCSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPD alone outside evaluation criteria did not require qualification.						LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS/LCSD 400-697974/2-A/3-A	SVOCs	N-Nitrosodimethylamine	20/31	41	10-115/40
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria												
LCS/LCSD 400-697974/2-A/3-A	SVOCs	N-Nitrosodimethylamine	20/31	41	10-115/40												
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X															
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X															

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			
Usability	No results qualified as unusable.	X			
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations.		X		Analytical data reported as non-detect and associated with ICV/CCV %D recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation																	
Item Reviewed	Acceptable Criteria	Quality Condition			Comments												
		Pass	Fail ¹	N/A													
	Organics The associated percent difference (%D) was within method criteria.																
Method 8260D (VOCs) The continuous calibration verification (CCV) for chloromethane, vinyl chloride, chloroethane, acrolein, and bromoform were outside evaluation criteria, biased low. The associated results for sample MW23-ROX-012325 were qualified as estimated (UJ). Method 8270E (SVOC) The continuous calibration verification (CCV) for aniline was outside evaluation criteria, biased low. The associated result for sample MW23-ROX-012325 was qualified as estimated (UJ). Method 8011 (VOCs by 8011) The continuous calibration verification (CCV) for 1,2-dibromo-3-chloropropane was outside evaluation criteria, biased low. The associated result for sample MW23-ROX-012325 was qualified as estimated (UJ).																	
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.												
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X													
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.		X														
Method 8270E (SVOC) <table border="1" data-bbox="207 1507 1372 1644"> <thead> <tr> <th>Sample ID</th><th>Parameter</th><th>Analyte</th><th>IS Area Recovery</th><th>12/24 Hour Standard</th><th>IS Criteria</th></tr> </thead> <tbody> <tr> <td>MB 400-697974/1-A</td><td>SVOCs</td><td>Chrysene-d12</td><td>539319</td><td>1088622</td><td>544311-2177244</td></tr> </tbody> </table>						Sample ID	Parameter	Analyte	IS Area Recovery	12/24 Hour Standard	IS Criteria	MB 400-697974/1-A	SVOCs	Chrysene-d12	539319	1088622	544311-2177244
Sample ID	Parameter	Analyte	IS Area Recovery	12/24 Hour Standard	IS Criteria												
MB 400-697974/1-A	SVOCs	Chrysene-d12	539319	1088622	544311-2177244												
Method blanks are quality control samples and do not require qualification.																	
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.												

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/5/2025 7:11:12 AM

JOB DESCRIPTION

ROXANA QUARTERLY GW 1Q25

JOB NUMBER

400-269764-1

Reviewed 3/4/2025
AN

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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 Southeast, LLC Project Manager.

Authorization



Generated
2/5/2025 7:11:12 AM

Authorized for release by
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(615)301-5038



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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Job ID: 400-269764-1

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Job Narrative 400-269764-1

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 1/25/2025 8:22 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 0.0°C.

GC/MS VOA

Method 8260D: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid : TB-ROX-012325-8260-BP (400-269764-1) and MW23-ROX-012325 (400-269764-3). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and acrylonitrile, which are acid-labile compounds that degrades in an acidic medium.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-698252 recovered outside acceptance criteria, low biased, for Acrolein, Bromoform, Chloroethane, Chloromethane and Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

GC/MS Semi VOA

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-694707 was outside method criteria for the following analyte(s): 3,3'-Dichlorobenzidine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698145 recovered above the upper control limit for Bis(2-chloroethyl)ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698145 recovered outside acceptance criteria, low biased, for Aniline. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-697974 and analytical batch 400-698145 recovered outside control limits for the following analytes: N-Nitrosodimethylamine.

Method 8270E: The internal standard Perylene-d12 response were outside of acceptance limits for the following sample: (MB 400-697974/1-A). Results for the affected analytes are possibly biased high, non-detect are qualified accordingly; therefore, the data have been reported.

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-694893 was outside method criteria for the following analyte(s): Dibenz[a,h]acridine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

GC Semi VOA

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Job ID: 400-269764-1 (Continued)

Eurofins Pensacola

Method 8011: The continuing calibration verification (CCV) associated with batch 400-697605 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

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Eurofins Pensacola

Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269764-1	TB-ROX-012325-8260-BP	Water	01/23/25 00:00	01/25/25 08:22
400-269764-2	TB-ROX-012325-8011-BP	Water	01/23/25 00:00	01/25/25 08:22
400-269764-3	MW23-ROX-012325	Water	01/23/25 13:15	01/25/25 08:22

Detection Summary

Client: AECOM

Job ID: 400-269764-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012325-8260-BP

Lab Sample ID: 400-269764-1

No Detections.

Client Sample ID: TB-ROX-012325-8011-BP

Lab Sample ID: 400-269764-2

No Detections.

Client Sample ID: MW23-ROX-012325

Lab Sample ID: 400-269764-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.31	J	1.0	0.20	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	0.76	J	1.0	0.22	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Client Sample ID: TB-ROX-012325-8260-BP

Lab Sample ID: 400-269764-1

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 16:03	1
Acrolein	ND		20	3.3	ug/L			02/03/25 16:03	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 16:03	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 16:03	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 16:03	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 16:03	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 16:03	1
Bromoform	ND		5.0	0.25	ug/L			02/03/25 16:03	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 16:03	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 16:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 16:03	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 16:03	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 16:03	1
Chloroethane	ND		1.0	0.76	ug/L			02/03/25 16:03	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 16:03	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 16:03	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 16:03	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 16:03	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 16:03	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 16:03	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 16:03	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 16:03	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 16:03	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 16:03	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 16:03	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 16:03	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 16:03	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 16:03	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:03	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:03	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:03	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 16:03	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 16:03	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 16:03	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 16:03	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 16:03	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 16:03	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 16:03	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 16:03	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 16:03	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 16:03	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 16:03	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 16:03	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 16:03	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 16:03	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 16:03	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 16:03	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 16:03	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 16:03	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Client Sample ID: TB-ROX-012325-8260-BP

Lab Sample ID: 400-269764-1

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 16:03	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 16:03	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 16:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 16:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 16:03	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 16:03	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 16:03	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 16:03	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 16:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 16:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 16:03	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 16:03	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 16:03	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 16:03	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 16:03	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 16:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 16:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 16:03	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 16:03	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 16:03	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136					02/03/25 16:03	1
Dibromofluoromethane	94		79 - 130					02/03/25 16:03	1
Toluene-d8 (Surr)	101		64 - 132					02/03/25 16:03	1

Client Sample Results

Client: AECOM

Job ID: 400-269764-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012325-8011-BP

Lab Sample ID: 400-269764-2

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.034	0.019	ug/L		01/27/25 12:41	01/27/25 21:54	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/27/25 12:41	01/27/25 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	76		51 - 149				01/27/25 12:41	01/27/25 21:54	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Client Sample ID: MW23-ROX-012325

Lab Sample ID: 400-269764-3

Date Collected: 01/23/25 13:15

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 16:27	1
Acrolein	ND	UJ	20	3.3	ug/L			02/03/25 16:27	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 16:27	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 16:27	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 16:27	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 16:27	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 16:27	1
Bromoform	ND	UJ	5.0	0.25	ug/L			02/03/25 16:27	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 16:27	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 16:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 16:27	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 16:27	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 16:27	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			02/03/25 16:27	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 16:27	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 16:27	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 16:27	1
Chloromethane	ND	UJ	1.0	0.40	ug/L			02/03/25 16:27	1
cis-1,2-Dichloroethene	0.31	J	1.0	0.20	ug/L			02/03/25 16:27	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 16:27	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 16:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 16:27	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 16:27	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 16:27	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 16:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 16:27	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 16:27	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 16:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:27	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:27	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 16:27	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 16:27	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 16:27	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 16:27	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 16:27	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 16:27	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 16:27	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 16:27	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 16:27	1
Methyl tert-butyl ether	0.76	J	1.0	0.22	ug/L			02/03/25 16:27	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 16:27	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 16:27	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 16:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 16:27	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 16:27	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 16:27	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 16:27	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 16:27	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Client Sample ID: MW23-ROX-012325

Lab Sample ID: 400-269764-3

Date Collected: 01/23/25 13:15

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 16:27	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 16:27	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 16:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 16:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 16:27	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 16:27	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 16:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 16:27	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 16:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 16:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 16:27	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 16:27	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 16:27	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 16:27	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 16:27	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 16:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 16:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 16:27	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 16:27	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/03/25 16:27	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/03/25 16:27	1
Dibromofluoromethane	94		79 - 130		02/03/25 16:27	1
Toluene-d8 (Surr)	100		64 - 132		02/03/25 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.5	8.3	ug/L		01/30/25 10:40	01/31/25 23:08	1
Benzenethiol	ND		9.5	9.4	ug/L		01/30/25 10:40	01/31/25 23:08	1
Benzoic acid	ND		29	23	ug/L		01/30/25 10:40	01/31/25 23:08	1
Benzyl alcohol	ND		9.5	6.9	ug/L		01/30/25 10:40	01/31/25 23:08	1
Bis(2-chloroethoxy)methane	ND		9.5	4.4	ug/L		01/30/25 10:40	01/31/25 23:08	1
Bis(2-chloroethyl)ether	ND		9.5	3.7	ug/L		01/30/25 10:40	01/31/25 23:08	1
bis (2-chloroisopropyl) ether	ND		9.5	1.7	ug/L		01/30/25 10:40	01/31/25 23:08	1
Bis(2-ethylhexyl) phthalate	ND		9.5	8.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
4-Bromophenyl phenyl ether	ND		9.5	8.2	ug/L		01/30/25 10:40	01/31/25 23:08	1
Butyl benzyl phthalate	ND		9.5	5.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
4-Chloroaniline	ND		9.5	4.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
4-Chloro-3-methylphenol	ND		9.5	5.0	ug/L		01/30/25 10:40	01/31/25 23:08	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		01/30/25 10:40	01/31/25 23:08	1
2-Chlorophenol	ND		9.5	3.9	ug/L		01/30/25 10:40	01/31/25 23:08	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
Dibenz[a,h]acridine	ND		9.5	2.7	ug/L		01/30/25 10:40	01/31/25 23:08	1
Dibenzofuran	ND		9.5	3.8	ug/L		01/30/25 10:40	01/31/25 23:08	1
3,3'-Dichlorobenzidine	ND		10	10	ug/L		01/30/25 10:40	01/31/25 23:08	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		01/30/25 10:40	01/31/25 23:08	1
Diethyl phthalate	ND		9.5	4.2	ug/L		01/30/25 10:40	01/31/25 23:08	1
2,4-Dimethylphenol	ND		9.5	5.0	ug/L		01/30/25 10:40	01/31/25 23:08	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Client Sample ID: MW23-ROX-012325

Lab Sample ID: 400-269764-3

Date Collected: 01/23/25 13:15

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.5	4.0	ug/L		01/30/25 10:40	01/31/25 23:08	1
Di-n-butyl phthalate	ND		9.5	4.4	ug/L		01/30/25 10:40	01/31/25 23:08	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/30/25 10:40	01/31/25 23:08	1
2,4-Dinitrotoluene	ND		9.5	4.9	ug/L		01/30/25 10:40	01/31/25 23:08	1
2,6-Dinitrotoluene	ND		9.5	3.7	ug/L		01/30/25 10:40	01/31/25 23:08	1
Di-n-octyl phthalate	ND		9.5	5.7	ug/L		01/30/25 10:40	01/31/25 23:08	1
1,4-Dioxane	ND		9.5	4.1	ug/L		01/30/25 10:40	01/31/25 23:08	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		01/30/25 10:40	01/31/25 23:08	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		01/30/25 10:40	01/31/25 23:08	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/30/25 10:40	01/31/25 23:08	1
Hexachloroethane	ND		9.5	5.0	ug/L		01/30/25 10:40	01/31/25 23:08	1
Indene	ND		9.5	3.4	ug/L		01/30/25 10:40	01/31/25 23:08	1
Isophorone	ND		9.5	5.0	ug/L		01/30/25 10:40	01/31/25 23:08	1
2-Methylphenol	ND		9.5	3.0	ug/L		01/30/25 10:40	01/31/25 23:08	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/30/25 10:40	01/31/25 23:08	1
2-Nitroaniline	ND		9.5	4.8	ug/L		01/30/25 10:40	01/31/25 23:08	1
3-Nitroaniline	ND		9.5	4.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
4-Nitroaniline	ND		9.5	3.9	ug/L		01/30/25 10:40	01/31/25 23:08	1
Nitrobenzene	ND		9.5	4.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
2-Nitrophenol	ND		9.5	4.4	ug/L		01/30/25 10:40	01/31/25 23:08	1
4-Nitrophenol	ND		9.5	3.1	ug/L		01/30/25 10:40	01/31/25 23:08	1
N-Nitrosodimethylamine	ND *1		9.5	2.1	ug/L		01/30/25 10:40	01/31/25 23:08	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		01/30/25 10:40	01/31/25 23:08	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
Pentachlorophenol	ND		19	11	ug/L		01/30/25 10:40	01/31/25 23:08	1
Phenol	ND		9.5	4.0	ug/L		01/30/25 10:40	01/31/25 23:08	1
Pyridine	ND		9.5	9.5	ug/L		01/30/25 10:40	01/31/25 23:08	1
Quinoline	ND		9.5	2.3	ug/L		01/30/25 10:40	01/31/25 23:08	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		01/30/25 10:40	01/31/25 23:08	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		01/30/25 10:40	01/31/25 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		21 - 114	01/30/25 10:40	01/31/25 23:08	1
2-Fluorophenol	38		10 - 105	01/30/25 10:40	01/31/25 23:08	1
Nitrobenzene-d5	60		16 - 127	01/30/25 10:40	01/31/25 23:08	1
Phenol-d5	28		10 - 129	01/30/25 10:40	01/31/25 23:08	1
Terphenyl-d14	86		13 - 150	01/30/25 10:40	01/31/25 23:08	1
2,4,6-Tribromophenol	79		10 - 150	01/30/25 10:40	01/31/25 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.086	ug/L		01/28/25 14:13	01/30/25 11:46	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 11:46	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 11:46	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 11:46	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 11:46	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 11:46	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 11:46	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Client Sample ID: MW23-ROX-012325

Lab Sample ID: 400-269764-3

Date Collected: 01/23/25 13:15

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 11:46	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 11:46	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 11:46	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 11:46	1
Fluorene	ND		10	0.088	ug/L		01/28/25 14:13	01/30/25 11:46	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 11:46	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 11:46	1
2-Methylnaphthalene	ND		10	0.078	ug/L		01/28/25 14:13	01/30/25 11:46	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 11:46	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		15 - 150	01/28/25 14:13	01/30/25 11:46	1
Nitrobenzene-d5	81		50 - 150	01/28/25 14:13	01/30/25 11:46	1
Terphenyl-d14	101		43 - 147	01/28/25 14:13	01/30/25 11:46	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.032	0.018	ug/L		01/27/25 12:41	01/27/25 22:15	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/27/25 12:41	01/27/25 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	62		51 - 149	01/27/25 12:41	01/27/25 22:15	1

Definitions/Glossary

Client: AECOM

Job ID: 400-269764-1

Project/Site: ROXANA QUARTERLY GW 1Q25

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-269764-1	TB-ROX-012325-8260-BP	102	94	101
400-269764-3	MW23-ROX-012325	102	94	100
LCS 400-698252/1002	Lab Control Sample	101	98	97
MB 400-698252/4	Method Blank	103	99	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (21-114)	2FP (10-105)	NBZ (16-127)	PHL (10-129)	TPHL (13-150)	TBP (10-150)
400-269764-3	MW23-ROX-012325	70	38	60	28	86	79
LCS 400-697974/2-A	Lab Control Sample	73	38	77	29	95	107
LCS 400-697974/4-A	Lab Control Sample	70	39	65	27	99	67
LCSD 400-697974/3-A	Lab Control Sample Dup	74	43	78	33	94	105
LCSD 400-697974/5-A	Lab Control Sample Dup	63	35	62	25	90	62
MB 400-697974/1-A	Method Blank	69	20	62	19	93 *3	41

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (15-150)	NBZ (50-150)	TPHL (43-147)
400-269764-3	MW23-ROX-012325	83	81	101
LCS 400-697715/2-A	Lab Control Sample	101	81	100
MB 400-697715/1-A	Method Blank	94	86	99

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (51-149)
400-269764-2	TB-ROX-012325-8011-BP	76
400-269764-3	MW23-ROX-012325	62
LCS 400-697583/2-A	Lab Control Sample	90
LCSD 400-697583/3-A	Lab Control Sample Dup	87
MB 400-697583/1-A	Method Blank	103
Surrogate Legend		
BFB = 4-Bromofluorobenzene		

Method Summary

Client: AECOM

Job ID: 400-269764-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Client Sample ID: TB-ROX-012325-8260-BP

Lab Sample ID: 400-269764-1

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 16:03	BPO	EET PEN

Client Sample ID: TB-ROX-012325-8011-BP

Lab Sample ID: 400-269764-2

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			31.2 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 21:54	KR	EET PEN

Client Sample ID: MW23-ROX-012325

Lab Sample ID: 400-269764-3

Date Collected: 01/23/25 13:15

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 16:27	BPO	EET PEN
Total/NA	Prep	3511			29.8 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 11:46	JAW	EET PEN
Total/NA	Prep	3510C			262.6 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 23:08	S1B	EET PEN
Total/NA	Prep	8011			33 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 22:15	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697583/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 15:53	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697715/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1	0 mL	1.0 mL	697964	01/30/25 10:45	JAW	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697974/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 21:17	S1B	EET PEN

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Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698252/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 11:09	BPO	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697583/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 16:14	KR	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697715/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 11:16	JAW	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697974/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 21:40	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697974/4-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 22:24	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698252/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 09:57	BPO	EET PEN

Lab Chronicle

Client: AECOM

Job ID: 400-269764-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697583/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697583	01/27/25 12:41	KR	EET PEN
Total/NA	Analysis	8011		1			697605	01/27/25 16:36	KR	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697974/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 22:02	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697974/5-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 22:46	S1B	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

GC/MS VOA

Analysis Batch: 698252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269764-1	TB-ROX-012325-8260-BP	Total/NA	Water	8260D	
400-269764-3	MW23-ROX-012325	Total/NA	Water	8260D	
MB 400-698252/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698252/1002	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 697715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269764-3	MW23-ROX-012325	Total/NA	Water	3511	
MB 400-697715/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697715/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 697964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269764-3	MW23-ROX-012325	Total/NA	Water	8270E	697715
MB 400-697715/1-A	Method Blank	Total/NA	Water	8270E	697715
LCS 400-697715/2-A	Lab Control Sample	Total/NA	Water	8270E	697715

Prep Batch: 697974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269764-3	MW23-ROX-012325	Total/NA	Water	3510C	
MB 400-697974/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-697974/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-697974/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-697974/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 400-697974/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 698145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269764-3	MW23-ROX-012325	Total/NA	Water	8270E	697974
MB 400-697974/1-A	Method Blank	Total/NA	Water	8270E	697974
LCS 400-697974/2-A	Lab Control Sample	Total/NA	Water	8270E	697974
LCS 400-697974/4-A	Lab Control Sample	Total/NA	Water	8270E	697974
LCSD 400-697974/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	697974
LCSD 400-697974/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	697974

GC Semi VOA

Prep Batch: 697583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269764-2	TB-ROX-012325-8011-BP	Total/NA	Water	8011	
400-269764-3	MW23-ROX-012325	Total/NA	Water	8011	
MB 400-697583/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-697583/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-697583/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 697605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269764-2	TB-ROX-012325-8011-BP	Total/NA	Water	8011	697583
400-269764-3	MW23-ROX-012325	Total/NA	Water	8011	697583
MB 400-697583/1-A	Method Blank	Total/NA	Water	8011	697583

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QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

GC Semi VOA (Continued)

Analysis Batch: 697605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-697583/2-A	Lab Control Sample	Total/NA	Water	8011	697583
LCSD 400-697583/3-A	Lab Control Sample Dup	Total/NA	Water	8011	697583

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: MB 400-698252/4

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 11:09	1
Acrolein	ND		20	3.3	ug/L			02/03/25 11:09	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 11:09	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 11:09	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 11:09	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Bromoform	ND		5.0	0.25	ug/L			02/03/25 11:09	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 11:09	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 11:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 11:09	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 11:09	1
Chloroethane	ND		1.0	0.76	ug/L			02/03/25 11:09	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 11:09	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 11:09	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 11:09	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 11:09	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 11:09	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 11:09	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 11:09	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 11:09	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 11:09	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 11:09	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 11:09	1
1,1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 11:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 11:09	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 11:09	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 11:09	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 11:09	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 11:09	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 11:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 11:09	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 11:09	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 11:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 11:09	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 11:09	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 11:09	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: MB 400-698252/4

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 11:09	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 11:09	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 11:09	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 11:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 11:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 11:09	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 11:09	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 11:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 11:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 11:09	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 11:09	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 11:09	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 11:09	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 11:09	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 11:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 11:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 11:09	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 11:09	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/03/25 11:09	1
Dibromofluoromethane	99		79 - 130		02/03/25 11:09	1
Toluene-d8 (Surr)	97		64 - 132		02/03/25 11:09	1

Lab Sample ID: LCS 400-698252/1002

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	132		ug/L		66	43 - 150
Acrolein	500	386		ug/L		77	38 - 150
Acrylonitrile	500	492		ug/L		98	64 - 142
Benzene	50.0	45.3		ug/L		91	70 - 130
Bromobenzene	50.0	44.5		ug/L		89	70 - 132
Bromochloromethane	50.0	44.0		ug/L		88	70 - 130
Bromodichloromethane	50.0	45.1		ug/L		90	67 - 133
Bromoform	50.0	39.4		ug/L		79	57 - 140
Bromomethane	50.0	33.5		ug/L		67	10 - 150
2-Butanone (MEK)	200	126		ug/L		63	61 - 145
Carbon disulfide	50.0	33.7		ug/L		67	61 - 137
Carbon tetrachloride	50.0	43.0		ug/L		86	61 - 137
Chlorobenzene	50.0	45.1		ug/L		90	70 - 130
Chloroethane	50.0	39.4		ug/L		79	55 - 141
2-Chloroethyl vinyl ether	50.0	41.7		ug/L		83	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: LCS 400-698252/1002

Matrix: Water

Analysis Batch: 698252

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	46.4		ug/L		93	69 - 130
1-Chlorohexane	50.0	48.6		ug/L		97	69 - 130
Chloromethane	50.0	38.7		ug/L		77	58 - 137
cis-1,2-Dichloroethene	50.0	46.9		ug/L		94	68 - 130
cis-1,3-Dichloropropene	50.0	45.5		ug/L		91	69 - 132
Dibromochloromethane	50.0	43.7		ug/L		87	67 - 135
1,2-Dichlorobenzene	50.0	47.3		ug/L		95	67 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 130
Dichlorodifluoromethane	50.0	29.6		ug/L		59	41 - 146
1,1-Dichloroethane	50.0	46.6		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	42.8		ug/L		86	69 - 130
1,1-Dichloroethene	50.0	42.3		ug/L		85	63 - 134
1,2-Dichloropropane	50.0	47.6		ug/L		95	70 - 130
1,3-Dichloropropane	50.0	45.2		ug/L		90	70 - 130
2,2-Dichloropropane	50.0	43.6		ug/L		87	52 - 135
1,1-Dichloropropene	50.0	43.4		ug/L		87	70 - 130
Ethylbenzene	50.0	47.3		ug/L		95	70 - 130
Ethyl methacrylate	50.0	45.6		ug/L		91	68 - 130
Hexachlorobutadiene	50.0	47.4		ug/L		95	53 - 140
2-Hexanone	200	151		ug/L		75	65 - 137
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 130
Methylene bromide	50.0	45.1		ug/L		90	70 - 130
Methylene Chloride	50.0	42.7		ug/L		85	66 - 135
4-Methyl-2-pentanone (MIBK)	200	180		ug/L		90	69 - 138
Methyl tert-butyl ether	50.0	45.7		ug/L		91	66 - 130
m-Xylene & p-Xylene	50.0	46.2		ug/L		92	70 - 130
Naphthalene	50.0	36.7		ug/L		73	47 - 149
n-Butylbenzene	50.0	52.7		ug/L		105	67 - 130
N-Propylbenzene	50.0	49.6		ug/L		99	70 - 130
o-Chlorotoluene	50.0	49.5		ug/L		99	70 - 130
o-Xylene	50.0	47.1		ug/L		94	70 - 130
p-Chlorotoluene	50.0	47.8		ug/L		96	70 - 130
p-Isopropyltoluene	50.0	49.1		ug/L		98	65 - 130
sec-Butylbenzene	50.0	49.6		ug/L		99	66 - 130
Styrene	50.0	45.8		ug/L		92	70 - 130
tert-Butylbenzene	50.0	48.1		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.1		ug/L		90	67 - 131
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/L		88	70 - 131
Tetrachloroethene	50.0	42.3		ug/L		85	65 - 130
Toluene	50.0	44.2		ug/L		88	70 - 130
trans-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 130
trans-1,3-Dichloropropene	50.0	44.0		ug/L		88	63 - 130
1,2,3-Trichlorobenzene	50.0	41.0		ug/L		82	60 - 138
1,2,4-Trichlorobenzene	50.0	44.6		ug/L		89	60 - 140
1,1,1-Trichloroethane	50.0	44.1		ug/L		88	68 - 130
1,1,2-Trichloroethane	50.0	46.1		ug/L		92	70 - 130
Trichloroethene	50.0	46.1		ug/L		92	70 - 130
Trichlorofluoromethane	50.0	40.5		ug/L		81	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: LCS 400-698252/1002

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	43.9		ug/L		88	70 - 130
1,2,4-Trimethylbenzene	50.0	47.7		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	69 - 130
Vinyl acetate	100	90.9		ug/L		91	26 - 150
Vinyl chloride	50.0	36.1		ug/L		72	59 - 136
Xylenes, Total	100	93.4		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		56 - 136
Dibromofluoromethane	98		79 - 130
Toluene-d8 (Surr)	97		64 - 132

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

Lab Sample ID: MB 400-697974/1-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
Benzenethiol	ND		10	9.9	ug/L		01/30/25 10:40	01/31/25 21:17	1
Benzoic acid	ND		30	24	ug/L		01/30/25 10:40	01/31/25 21:17	1
Benzyl alcohol	ND		10	7.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/30/25 10:40	01/31/25 21:17	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/30/25 10:40	01/31/25 21:17	1
Bis(2-ethylhexyl) phthalate	ND *3		10	8.9	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
Butyl benzyl phthalate	ND *3		10	5.8	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Chloroaniline	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Chlorophenol	ND		10	4.1	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/30/25 10:40	01/31/25 21:17	1
Dibenzofuran	ND		10	4.0	ug/L		01/30/25 10:40	01/31/25 21:17	1
3,3'-Dichlorobenzidine	ND *3		11	11	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
Diethyl phthalate	ND		10	4.4	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/30/25 10:40	01/31/25 21:17	1
Di-n-octyl phthalate	ND *3		10	6.0	ug/L		01/30/25 10:40	01/31/25 21:17	1
1,4-Dioxane	ND		10	4.3	ug/L		01/30/25 10:40	01/31/25 21:17	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: MB 400-697974/1-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/30/25 10:40	01/31/25 21:17	1
Hexachloroethane	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
Indene	ND		10	3.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
Isophorone	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Methylphenol	ND		10	3.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Nitroaniline	ND		10	5.0	ug/L		01/30/25 10:40	01/31/25 21:17	1
3-Nitroaniline	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Nitroaniline	ND		10	4.1	ug/L		01/30/25 10:40	01/31/25 21:17	1
Nitrobenzene	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Nitrophenol	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Nitrophenol	ND		10	3.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/30/25 10:40	01/31/25 21:17	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
Pentachlorophenol	ND		20	12	ug/L		01/30/25 10:40	01/31/25 21:17	1
Phenol	ND		10	4.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
Pyridine	ND		10	10	ug/L		01/30/25 10:40	01/31/25 21:17	1
Quinoline	ND		10	2.4	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/30/25 10:40	01/31/25 21:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		21 - 114	01/30/25 10:40	01/31/25 21:17	1
2-Fluorophenol	20		10 - 105	01/30/25 10:40	01/31/25 21:17	1
Nitrobenzene-d5	62		16 - 127	01/30/25 10:40	01/31/25 21:17	1
Phenol-d5	19		10 - 129	01/30/25 10:40	01/31/25 21:17	1
Terphenyl-d14	93	*3	13 - 150	01/30/25 10:40	01/31/25 21:17	1
2,4,6-Tribromophenol	41		10 - 150	01/30/25 10:40	01/31/25 21:17	1

Lab Sample ID: LCS 400-697974/2-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	120	37.6		ug/L		31	10 - 127
Benzoic acid	493	115		ug/L		23	19 - 126
Benzyl alcohol	120	66.2		ug/L		55	17 - 109
Bis(2-chloroethoxy)methane	120	94.9		ug/L		79	24 - 125
Bis(2-chloroethyl)ether	120	110		ug/L		91	10 - 121
bis (2-chloroisopropyl) ether	120	96.7		ug/L		81	14 - 123
Bis(2-ethylhexyl) phthalate	120	123		ug/L		103	16 - 150
4-Bromophenyl phenyl ether	120	107		ug/L		89	17 - 150
Butyl benzyl phthalate	120	124		ug/L		104	21 - 150
4-Chloroaniline	120	91.1		ug/L		76	10 - 124
4-Chloro-3-methylphenol	120	97.0		ug/L		81	37 - 131

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: LCS 400-697974/2-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	120	101		ug/L		84	24 - 132
2-Chlorophenol	120	80.8		ug/L		67	27 - 124
4-Chlorophenyl phenyl ether	120	115		ug/L		96	27 - 147
Dibenz[a,h]acridine	120	55.8		ug/L		47	40 - 140
Dibenzofuran	120	111		ug/L		93	30 - 135
3,3'-Dichlorobenzidine	160	236		ug/L		148	10 - 150
2,4-Dichlorophenol	120	94.1		ug/L		78	33 - 132
Diethyl phthalate	120	115		ug/L		96	37 - 145
2,4-Dimethylphenol	120	82.5		ug/L		69	38 - 132
Dimethyl phthalate	120	107		ug/L		89	32 - 137
Di-n-butyl phthalate	120	125		ug/L		104	27 - 150
4,6-Dinitro-ortho-cresol	240	254		ug/L		106	14 - 150
2,4-Dinitrophenol	240	248		ug/L		103	15 - 150
2,4-Dinitrotoluene	120	113		ug/L		94	35 - 136
2,6-Dinitrotoluene	120	113		ug/L		94	29 - 140
Di-n-octyl phthalate	120	122		ug/L		102	26 - 150
1,4-Dioxane	120	37.5		ug/L		31	10 - 87
1,2-Diphenylhydrazine (as Azobenzene)	120	103		ug/L		86	23 - 138
Hexachlorobenzene	120	111		ug/L		93	10 - 150
Hexachlorocyclopentadiene	120	98.4		ug/L		82	10 - 124
Hexachloroethane	120	80.6		ug/L		67	10 - 127
Indene	120	89.0		ug/L		74	18 - 150
Isophorone	120	97.4		ug/L		81	28 - 127
2-Methylphenol	120	66.9		ug/L		56	34 - 124
3 & 4 Methylphenol	120	64.7		ug/L		54	32 - 122
2-Nitroaniline	120	101		ug/L		84	24 - 139
3-Nitroaniline	120	87.5		ug/L		73	10 - 128
4-Nitroaniline	120	104		ug/L		87	28 - 118
Nitrobenzene	120	89.1		ug/L		74	29 - 120
2-Nitrophenol	120	91.7		ug/L		76	25 - 148
4-Nitrophenol	240	104		ug/L		43	12 - 129
N-Nitrosodimethylamine	120	24.4		ug/L		20	10 - 115
N-Nitrosodi-n-propylamine	120	95.0		ug/L		79	24 - 142
N-Nitrosodiphenylamine	119	106		ug/L		89	29 - 138
Pentachlorophenol	240	193		ug/L		81	19 - 150
Phenol	120	34.3		ug/L		29	11 - 95
Pyridine	240	50.3		ug/L		21	10 - 82
Quinoline	120	36.3		ug/L		30	10 - 141
2,4,5-Trichlorophenol	120	106		ug/L		88	30 - 144
2,4,6-Trichlorophenol	120	102		ug/L		85	27 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	73		21 - 114
2-Fluorophenol	38		10 - 105
Nitrobenzene-d5	77		16 - 127
Phenol-d5	29		10 - 129
Terphenyl-d14	95		13 - 150

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: LCS 400-697974/2-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697974

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	107		10 - 150

Lab Sample ID: LCS 400-697974/4-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzenethiol	120	74.3		ug/L		62	10 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	70		21 - 114
2-Fluorophenol	39		10 - 105
Nitrobenzene-d5	65		16 - 127
Phenol-d5	27		10 - 129
Terphenyl-d14	99		13 - 150
2,4,6-Tribromophenol	67		10 - 150

Lab Sample ID: LCSD 400-697974/3-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Aniline	120	46.2		ug/L		38	10 - 127	21	40
Benzoic acid	493	140		ug/L		28	19 - 126	19	40
Benzyl alcohol	120	73.0		ug/L		61	17 - 109	10	40
Bis(2-chloroethoxy)methane	120	95.4		ug/L		80	24 - 125	1	40
Bis(2-chloroethyl)ether	120	111		ug/L		92	10 - 121	1	40
bis (2-chloroisopropyl) ether	120	98.0		ug/L		82	14 - 123	1	40
Bis(2-ethylhexyl) phthalate	120	121		ug/L		101	16 - 150	2	40
4-Bromophenyl phenyl ether	120	108		ug/L		90	17 - 150	0	40
Butyl benzyl phthalate	120	123		ug/L		103	21 - 150	1	40
4-Chloroaniline	120	94.8		ug/L		79	10 - 124	4	40
4-Chloro-3-methylphenol	120	96.7		ug/L		81	37 - 131	0	40
2-Chloronaphthalene	120	98.8		ug/L		82	24 - 132	2	40
2-Chlorophenol	120	85.3		ug/L		71	27 - 124	5	40
4-Chlorophenyl phenyl ether	120	112		ug/L		94	27 - 147	2	40
Dibenz[a,h]acridine	120	54.0		ug/L		45	40 - 140	3	40
Dibenzofuran	120	111		ug/L		92	30 - 135	1	40
3,3'-Dichlorobenzidine	160	239		ug/L		150	10 - 150	1	40
2,4-Dichlorophenol	120	95.5		ug/L		80	33 - 132	1	40
Diethyl phthalate	120	113		ug/L		94	37 - 145	2	40
2,4-Dimethylphenol	120	84.8		ug/L		71	38 - 132	3	40
Dimethyl phthalate	120	108		ug/L		90	32 - 137	1	40
Di-n-butyl phthalate	120	122		ug/L		102	27 - 150	2	40
4,6-Dinitro-ortho-cresol	240	262		ug/L		109	14 - 150	3	40
2,4-Dinitrophenol	240	267		ug/L		111	15 - 150	8	40
2,4-Dinitrotoluene	120	113		ug/L		94	35 - 136	0	40
2,6-Dinitrotoluene	120	115		ug/L		96	29 - 140	1	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: LCSD 400-697974/3-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-octyl phthalate	120	123		ug/L		102	26 - 150	0	40
1,4-Dioxane	120	43.8		ug/L		36	10 - 87	15	40
1,2-Diphenylhydrazine (as Azobenzene)	120	103		ug/L		86	23 - 138	0	40
Hexachlorobenzene	120	112		ug/L		93	10 - 150	1	40
Hexachlorocyclopentadiene	120	102		ug/L		85	10 - 124	4	40
Hexachloroethane	120	83.1		ug/L		69	10 - 127	3	40
Indene	120	91.1		ug/L		76	18 - 150	2	40
Isophorone	120	99.1		ug/L		83	28 - 127	2	40
2-Methylphenol	120	72.5		ug/L		60	34 - 124	8	40
3 & 4 Methylphenol	120	70.5		ug/L		59	32 - 122	9	40
2-Nitroaniline	120	104		ug/L		87	24 - 139	3	40
3-Nitroaniline	120	94.5		ug/L		79	10 - 128	8	40
4-Nitroaniline	120	109		ug/L		91	28 - 118	5	40
Nitrobenzene	120	90.9		ug/L		76	29 - 120	2	40
2-Nitrophenol	120	98.8		ug/L		82	25 - 148	7	40
4-Nitrophenol	240	112		ug/L		47	12 - 129	8	40
N-Nitrosodimethylamine	120	36.8	*1	ug/L		31	10 - 115	41	40
N-Nitrosodi-n-propylamine	120	98.5		ug/L		82	24 - 142	4	40
N-Nitrosodiphenylamine	119	105		ug/L		88	29 - 138	1	40
Pentachlorophenol	240	199		ug/L		83	19 - 150	3	40
Phenol	120	38.7		ug/L		32	11 - 95	12	40
Pyridine	240	58.3		ug/L		24	10 - 82	15	40
Quinoline	120	37.7		ug/L		32	10 - 141	4	40
2,4,5-Trichlorophenol	120	107		ug/L		89	30 - 144	1	40
2,4,6-Trichlorophenol	120	106		ug/L		89	27 - 147	4	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	74		21 - 114
2-Fluorophenol	43		10 - 105
Nitrobenzene-d5	78		16 - 127
Phenol-d5	33		10 - 129
Terphenyl-d14	94		13 - 150
2,4,6-Tribromophenol	105		10 - 150

Lab Sample ID: LCSD 400-697974/5-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzenethiol	120	72.5		ug/L		60	10 - 140	2	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	63		21 - 114
2-Fluorophenol	35		10 - 105
Nitrobenzene-d5	62		16 - 127
Phenol-d5	25		10 - 129
Terphenyl-d14	90		13 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: LCSD 400-697974/5-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697974

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	62		10 - 150

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

Lab Sample ID: MB 400-697715/1-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 10:45	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 10:45	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 10:45	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 10:45	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 10:45	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 10:45	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 10:45	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 10:45	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 10:45	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 10:45	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/28/25 14:13	01/30/25 10:45	1
Nitrobenzene-d5	86		50 - 150	01/28/25 14:13	01/30/25 10:45	1
Terphenyl-d14	99		43 - 147	01/28/25 14:13	01/30/25 10:45	1

Lab Sample ID: LCS 400-697715/2-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	3.20	J	ug/L		96	50 - 150
Acenaphthylene	3.34	3.30	J	ug/L		99	50 - 150
Anthracene	3.34	3.65	J	ug/L		110	50 - 150
Benzo[a]anthracene	3.34	3.35	J	ug/L		100	50 - 150
Benzo[a]pyrene	3.34	3.39	J	ug/L		102	50 - 150
Benzo[b]fluoranthene	3.34	3.38	J	ug/L		101	50 - 150
Benzo[g,h,i]perylene	3.34	3.35	J	ug/L		100	50 - 150
Benzo[k]fluoranthene	3.34	3.41	J	ug/L		102	50 - 150
Chrysene	3.34	3.86	J	ug/L		116	50 - 150
Dibenz(a,h)anthracene	3.34	3.33	J	ug/L		100	50 - 150
Fluoranthene	3.34	3.46	J	ug/L		104	50 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269764-1

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

Lab Sample ID: LCS 400-697715/2-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	3.34	3.49	J	ug/L		105	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.68	J	ug/L		110	50 - 150
1-Methylnaphthalene	3.34	3.10	J	ug/L		93	50 - 150
2-Methylnaphthalene	3.34	3.00	J	ug/L		90	50 - 150
Phenanthrene	3.34	3.49	J	ug/L		105	50 - 150
Pyrene	3.34	3.55	J	ug/L		107	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	101		15 - 150
Nitrobenzene-d5	81		50 - 150
Terphenyl-d14	100		43 - 147

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-697583/1-A

Matrix: Water

Analysis Batch: 697605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/27/25 12:41	01/27/25 15:53	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/27/25 12:41	01/27/25 15:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		51 - 149	01/27/25 12:41	01/27/25 15:53	1

Lab Sample ID: LCS 400-697583/2-A

Matrix: Water

Analysis Batch: 697605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.101	0.0800		ug/L		79	60 - 140
1,2-Dibromoethane	0.100	0.0987		ug/L		98	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	90		51 - 149

Lab Sample ID: LCSD 400-697583/3-A

Matrix: Water

Analysis Batch: 697605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697583

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.101	0.0707		ug/L		70	60 - 140	10	30
1,2-Dibromoethane	0.100	0.0977		ug/L		97	60 - 140	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	87		51 - 149

Eurofins Pensacola

[illegible]

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-269764-1

Login Number: 269764

List Source: Eurofins Pensacola

List Number: 1

Creator: Beecher (Roberts), Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C IR8
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-269764-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269766-1

Site Name: Roxana

Prepared By and Date: Andrei Niculau 3/4/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/17/2025

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.
Holding Times	Analyses were performed within holding time.	X			
Surrogate	Surrogate recoveries met acceptance criteria.	X			
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X			
Matrix Spike	MS recoveries met acceptance criteria.			X	
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.	X			
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X			
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X			
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Analytes were detected in samples that were diluted.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			
Usability	No results qualified as unusable.	X			

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria.		X		



Analytical data reported as non-detect and associated with ICV/CCV %D recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Method 8260D (VOCs)

The continuous calibration verification (CCV) for chloromethane, vinyl chloride, chloroethane, acrolein, and bromoform were outside evaluation criteria, biased low. The associated results for samples MW13-ROX-012325, MW13-ROX-012325-DUP, P114R-ROX-012325, P56-ROX-012325, P93D-ROX-012325 and P57-ROX-012325 were qualified as estimated (UJ). Trip blanks and equipment blanks are quality control samples that do not require qualification.

Method 8270E (SVOC)

The initial calibration verification (ICV) for 3,3'-dichlorobenzidine was outside evaluation criteria, biased low. The associated results for samples P56-ROX-012325, P93D-ROX-012325, and P57-ROX-012325 were qualified as estimated (UJ).

The continuous calibration verification (CCV) for multiple analytes were outside evaluation criteria, biased low. The associated results for samples P56-ROX-012325, P93D-ROX-012325 and P57-ROX-012325 were qualified as estimated (UJ).

The continuous calibration verification (CCV) for aniline was outside evaluation criteria, biased low. The associated results for samples MW13-ROX-012325, MW13-ROX-012325-DUP and P114R-ROX-012325 were qualified as estimated (UJ).

Method 8011 (VOCs by 8011)

The continuous calibration verification (CCV) for 1,2-dibromo-3-chloropropane was outside evaluation criteria, biased low. The associated results for multiple samples were qualified as estimated (UJ).

Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.		X		

Sample ID	Parameter	Analyte	IS Area Recovery	12/24 Hour Standard	IS Criteria
MW13-ROX-012325-DUP	SVOCs	Chrysene-d12	524661	1088622	544311-2177244
P114R-ROX-012325	SVOCs	Chrysene-d12	516591	1088622	544311-2177244

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

The internal standard for chrysene-d12 was below the evaluation criteria. The associated results for samples MW13-ROX-012325-DUP and P114R-ROX-012325 were qualified as estimated (UJ). Method blanks are quality control samples and do not require qualification.					
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated, and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.



ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/5/2025 7:17:33 AM

JOB DESCRIPTION

ROXANA QUARTERLY GW 1Q25

JOB NUMBER

400-269766-1

Reviewed 3/4/2025
AN

Eurofins Pensacola

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 Southeast, LLC Project Manager.

Authorization



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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Job ID: 400-269766-1

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Job Narrative 400-269766-1

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 1/25/2025 8:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0°C and 0.0°C.

Receipt Exceptions

One 40ml Amber UP containers for the following sample was received broken

GC/MS VOA

Method 8260D: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid : TB-ROX-012325-8260-A (400-269766-1), MW13-ROX-012325 (400-269766-3), MW13-ROX-012325-DUP (400-269766-4), P114R-ROX-012325 (400-269766-5), TB-TOX-012325-8260-B (400-269766-6), P56-ROX-012325-EB (400-269766-8), P56-ROX-012325 (400-269766-9), P93D-ROX-012325 (400-269766-10) and P57-ROX-012325 (400-269766-11). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and acrylonitrile, which are acid-labile compounds that degrades in an acidic medium.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-698252 recovered outside acceptance criteria, low biased, for Acrolein, Bromoform, Chloroethane, Chloromethane and Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: P56-ROX-012325 (400-269766-9). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-694707 was outside method criteria for the following analyte(s): 3,3'-Dichlorobenzidine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698106 recovered above the upper control limit for 4-Chlorophenyl phenyl ether, 2,4-Dimethylphenol and Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698106 recovered outside acceptance criteria, low biased, for 1,4-Dioxane, bis (2-chloroisopropyl) ether, 2,6-Dinitrotoluene, 2-Chlorophenol, 4-Chloro-3-methylphenol, Aniline, Benzyl alcohol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Hexachloroethane, Isophorone, Phenol and Pyridine. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698145 recovered above the upper control limit for Bis(2-chloroethyl)ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Job ID: 400-269766-1 (Continued)

Eurofins Pensacola

Method 8270E: The internal standard Perylene-d12 response were outside of acceptance limits for the following samples: MW13-ROX-012325-DUP (400-269766-4), P114R-ROX-012325 (400-269766-5) and (MB 400-697974/1-A). Results for the affected analytes are possibly biased high, non-detect are qualified accordingly; therefore, the data have been reported.

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-687931 was outside method criteria for the following analyte(s): 3,3'-Dichlorobenzidine, 2,4-Dimethylphenol and Hexachlorocyclopentadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

GC Semi VOA

Method 8011: The continuing calibration verification (CCV) associated with batch 400-697712 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269766-1	TB-ROX-012325-8260-A	Water	01/23/25 00:00	01/25/25 08:22
400-269766-2	TB-ROX-012325-8011-A	Water	01/23/25 00:00	01/25/25 08:22
400-269766-3	MW13-ROX-012325	Water	01/23/25 10:35	01/25/25 08:22
400-269766-4	MW13-ROX-012325-DUP	Water	01/23/25 10:35	01/25/25 08:22
400-269766-5	P114R-ROX-012325	Water	01/23/25 11:40	01/25/25 08:22
400-269766-6	TB-TOX-012325-8260-B	Water	01/23/25 00:00	01/25/25 08:22
400-269766-7	TB-TOX-012325-8011-B	Water	01/23/25 00:00	01/25/25 08:22
400-269766-8	P56-ROX-012325-EB	Water	01/23/25 10:25	01/25/25 08:22
400-269766-9	P56-ROX-012325	Water	01/23/25 11:50	01/25/25 08:22
400-269766-10	P93D-ROX-012325	Water	01/23/25 12:50	01/25/25 08:22
400-269766-11	P57-ROX-012325	Water	01/23/25 13:45	01/25/25 08:22

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: TB-ROX-012325-8260-A

Lab Sample ID: 400-269766-1

No Detections.

Client Sample ID: TB-ROX-012325-8011-A

Lab Sample ID: 400-269766-2

No Detections.

Client Sample ID: MW13-ROX-012325

Lab Sample ID: 400-269766-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.56	J	1.0	0.50	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	0.81	J	1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: MW13-ROX-012325-DUP

Lab Sample ID: 400-269766-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.77	J	1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: P114R-ROX-012325

Lab Sample ID: 400-269766-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.96	J	1.0	0.22	ug/L	1		8260D	Total/NA
Acenaphthene	0.53	J	10	0.085	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	0.11	J	10	0.066	ug/L	1		8270E	Total/NA

Client Sample ID: TB-TOX-012325-8260-B

Lab Sample ID: 400-269766-6

No Detections.

Client Sample ID: TB-TOX-012325-8011-B

Lab Sample ID: 400-269766-7

No Detections.

Client Sample ID: P56-ROX-012325-EB

Lab Sample ID: 400-269766-8

No Detections.

Client Sample ID: P56-ROX-012325

Lab Sample ID: 400-269766-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropylbenzene	53		1.0	0.53	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	260		5.0	3.0	ug/L	1		8260D	Total/NA
Naphthalene	39		5.0	3.0	ug/L	1		8260D	Total/NA
n-Butylbenzene	3.6		1.0	0.76	ug/L	1		8260D	Total/NA
N-Propylbenzene	60		1.0	0.69	ug/L	1		8260D	Total/NA
o-Xylene	14		5.0	3.0	ug/L	1		8260D	Total/NA
p-Isopropyltoluene	3.0		1.0	0.71	ug/L	1		8260D	Total/NA
sec-Butylbenzene	4.5		1.0	0.70	ug/L	1		8260D	Total/NA
Toluene	4.9		1.0	0.90	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene	120		1.0	0.82	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	38		1.0	0.56	ug/L	1		8260D	Total/NA
Xylenes, Total	280		10	6.0	ug/L	1		8260D	Total/NA
Ethylbenzene - DL	460		2.0	1.0	ug/L	2		8260D	Total/NA
Acenaphthene	1.4	J	10	0.085	ug/L	1		8270E	Total/NA
Acenaphthylene	0.10	J	10	0.047	ug/L	1		8270E	Total/NA
Anthracene	0.14	J	10	0.073	ug/L	1		8270E	Total/NA
Fluorene	0.71	J	10	0.087	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	23		10	0.066	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: AECOM

Job ID: 400-269766-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: P56-ROX-012325 (Continued)

Lab Sample ID: 400-269766-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	28		10	0.077	ug/L	1		8270E	Total/NA
Phenanthrene	1.4	J	10	0.044	ug/L	1		8270E	Total/NA

Client Sample ID: P93D-ROX-012325

Lab Sample ID: 400-269766-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.77	J	1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: P57-ROX-012325

Lab Sample ID: 400-269766-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	100		1.0	0.50	ug/L	1		8260D	Total/NA
Ethylbenzene	4.5		1.0	0.50	ug/L	1		8260D	Total/NA
Isopropylbenzene	43		1.0	0.53	ug/L	1		8260D	Total/NA
Naphthalene	32		5.0	3.0	ug/L	1		8260D	Total/NA
n-Butylbenzene	5.9		1.0	0.76	ug/L	1		8260D	Total/NA
N-Propylbenzene	54		1.0	0.69	ug/L	1		8260D	Total/NA
p-Isopropyltoluene	0.88	J	1.0	0.71	ug/L	1		8260D	Total/NA
sec-Butylbenzene	11		1.0	0.70	ug/L	1		8260D	Total/NA
tert-Butylbenzene	12		1.0	0.63	ug/L	1		8260D	Total/NA
Toluene	5.8		1.0	0.90	ug/L	1		8260D	Total/NA
Acenaphthene	0.68	J	10	0.086	ug/L	1		8270E	Total/NA
Acenaphthylene	0.089	J	10	0.048	ug/L	1		8270E	Total/NA
Fluorene	0.82	J	10	0.088	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	28		10	0.067	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	30		10	0.078	ug/L	1		8270E	Total/NA
Phenanthrene	0.49	J	10	0.045	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Client Sample Results

Client: AECOM

Job ID: 400-269766-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012325-8260-A

Lab Sample ID: 400-269766-1

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 16:52	1
Acrolein	ND		20	3.3	ug/L			02/03/25 16:52	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 16:52	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 16:52	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 16:52	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 16:52	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 16:52	1
Bromoform	ND		5.0	0.25	ug/L			02/03/25 16:52	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 16:52	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 16:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 16:52	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 16:52	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 16:52	1
Chloroethane	ND		1.0	0.76	ug/L			02/03/25 16:52	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 16:52	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 16:52	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 16:52	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 16:52	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 16:52	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 16:52	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 16:52	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 16:52	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 16:52	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 16:52	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 16:52	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 16:52	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 16:52	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 16:52	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:52	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:52	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 16:52	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 16:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 16:52	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 16:52	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 16:52	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 16:52	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 16:52	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 16:52	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 16:52	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 16:52	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 16:52	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 16:52	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 16:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 16:52	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 16:52	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 16:52	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 16:52	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 16:52	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: TB-ROX-012325-8260-A

Lab Sample ID: 400-269766-1

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 16:52	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 16:52	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 16:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 16:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 16:52	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 16:52	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 16:52	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 16:52	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 16:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 16:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 16:52	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 16:52	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 16:52	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 16:52	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 16:52	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 16:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 16:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 16:52	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 16:52	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 16:52	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136					02/03/25 16:52	1
Dibromofluoromethane	96		79 - 130					02/03/25 16:52	1
Toluene-d8 (Surr)	100		64 - 132					02/03/25 16:52	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: TB-ROX-012325-8011-A

Lab Sample ID: 400-269766-2

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.018	ug/L		01/28/25 10:54	01/28/25 16:18	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/28/25 10:54	01/28/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	57		51 - 149				01/28/25 10:54	01/28/25 16:18	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: MW13-ROX-012325

Lab Sample ID: 400-269766-3

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 17:16	1
Acrolein	ND	UJ	20	3.3	ug/L			02/03/25 17:16	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 17:16	1
Benzene	0.56	J	1.0	0.50	ug/L			02/03/25 17:16	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 17:16	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 17:16	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 17:16	1
Bromoform	ND	UJ	5.0	0.25	ug/L			02/03/25 17:16	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 17:16	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 17:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 17:16	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 17:16	1
Chlorobenzene	ND	UJ	1.0	0.42	ug/L			02/03/25 17:16	1
Chloroethane	ND		1.0	0.76	ug/L			02/03/25 17:16	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 17:16	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 17:16	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 17:16	1
Chloromethane	ND	UJ	1.0	0.40	ug/L			02/03/25 17:16	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 17:16	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 17:16	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 17:16	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 17:16	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 17:16	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 17:16	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 17:16	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 17:16	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 17:16	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 17:16	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 17:16	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 17:16	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 17:16	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 17:16	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 17:16	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 17:16	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 17:16	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 17:16	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 17:16	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 17:16	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 17:16	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 17:16	1
Methyl tert-butyl ether	0.81	J	1.0	0.22	ug/L			02/03/25 17:16	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 17:16	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 17:16	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 17:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 17:16	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 17:16	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 17:16	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 17:16	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 17:16	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: MW13-ROX-012325

Lab Sample ID: 400-269766-3

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 17:16	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 17:16	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 17:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 17:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 17:16	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 17:16	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 17:16	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 17:16	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 17:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 17:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 17:16	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 17:16	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 17:16	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 17:16	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 17:16	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 17:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 17:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 17:16	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 17:16	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/03/25 17:16	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/03/25 17:16	1
Dibromofluoromethane	95		79 - 130		02/03/25 17:16	1
Toluene-d8 (Surr)	101		64 - 132		02/03/25 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.6	8.4	ug/L		01/30/25 10:40	01/31/25 23:30	1
Benzenethiol	ND		9.6	9.5	ug/L		01/30/25 10:40	01/31/25 23:30	1
Benzoic acid	ND		29	23	ug/L		01/30/25 10:40	01/31/25 23:30	1
Benzyl alcohol	ND		9.6	7.0	ug/L		01/30/25 10:40	01/31/25 23:30	1
Bis(2-chloroethoxy)methane	ND		9.6	4.4	ug/L		01/30/25 10:40	01/31/25 23:30	1
Bis(2-chloroethyl)ether	ND		9.6	3.7	ug/L		01/30/25 10:40	01/31/25 23:30	1
bis (2-chloroisopropyl) ether	ND		9.6	1.7	ug/L		01/30/25 10:40	01/31/25 23:30	1
Bis(2-ethylhexyl) phthalate	ND		9.6	8.6	ug/L		01/30/25 10:40	01/31/25 23:30	1
4-Bromophenyl phenyl ether	ND		9.6	8.3	ug/L		01/30/25 10:40	01/31/25 23:30	1
Butyl benzyl phthalate	ND		9.6	5.6	ug/L		01/30/25 10:40	01/31/25 23:30	1
4-Chloroaniline	ND		9.6	4.5	ug/L		01/30/25 10:40	01/31/25 23:30	1
4-Chloro-3-methylphenol	ND		9.6	5.1	ug/L		01/30/25 10:40	01/31/25 23:30	1
2-Chloronaphthalene	ND		9.6	3.7	ug/L		01/30/25 10:40	01/31/25 23:30	1
2-Chlorophenol	ND		9.6	3.9	ug/L		01/30/25 10:40	01/31/25 23:30	1
4-Chlorophenyl phenyl ether	ND		9.6	3.6	ug/L		01/30/25 10:40	01/31/25 23:30	1
Dibenz[a,h]acridine	ND		9.6	2.7	ug/L		01/30/25 10:40	01/31/25 23:30	1
Dibenzofuran	ND		9.6	3.8	ug/L		01/30/25 10:40	01/31/25 23:30	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/30/25 10:40	01/31/25 23:30	1
2,4-Dichlorophenol	ND		9.6	4.1	ug/L		01/30/25 10:40	01/31/25 23:30	1
Diethyl phthalate	ND		9.6	4.2	ug/L		01/30/25 10:40	01/31/25 23:30	1
2,4-Dimethylphenol	ND		9.6	5.0	ug/L		01/30/25 10:40	01/31/25 23:30	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: MW13-ROX-012325

Lab Sample ID: 400-269766-3

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.6	4.0	ug/L		01/30/25 10:40	01/31/25 23:30	1
Di-n-butyl phthalate	ND		9.6	4.4	ug/L		01/30/25 10:40	01/31/25 23:30	1
4,6-Dinitro-ortho-cresol	ND		9.6	9.6	ug/L		01/30/25 10:40	01/31/25 23:30	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/30/25 10:40	01/31/25 23:30	1
2,4-Dinitrotoluene	ND		9.6	4.9	ug/L		01/30/25 10:40	01/31/25 23:30	1
2,6-Dinitrotoluene	ND		9.6	3.7	ug/L		01/30/25 10:40	01/31/25 23:30	1
Di-n-octyl phthalate	ND		9.6	5.8	ug/L		01/30/25 10:40	01/31/25 23:30	1
1,4-Dioxane	ND		9.6	4.1	ug/L		01/30/25 10:40	01/31/25 23:30	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	3.2	ug/L		01/30/25 10:40	01/31/25 23:30	1
Hexachlorobenzene	ND		9.6	9.3	ug/L		01/30/25 10:40	01/31/25 23:30	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/30/25 10:40	01/31/25 23:30	1
Hexachloroethane	ND		9.6	5.0	ug/L		01/30/25 10:40	01/31/25 23:30	1
Indene	ND		9.6	3.5	ug/L		01/30/25 10:40	01/31/25 23:30	1
Isophorone	ND		9.6	5.0	ug/L		01/30/25 10:40	01/31/25 23:30	1
2-Methylphenol	ND		9.6	3.1	ug/L		01/30/25 10:40	01/31/25 23:30	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/30/25 10:40	01/31/25 23:30	1
2-Nitroaniline	ND		9.6	4.8	ug/L		01/30/25 10:40	01/31/25 23:30	1
3-Nitroaniline	ND		9.6	4.5	ug/L		01/30/25 10:40	01/31/25 23:30	1
4-Nitroaniline	ND		9.6	3.9	ug/L		01/30/25 10:40	01/31/25 23:30	1
Nitrobenzene	ND		9.6	4.5	ug/L		01/30/25 10:40	01/31/25 23:30	1
2-Nitrophenol	ND		9.6	4.4	ug/L		01/30/25 10:40	01/31/25 23:30	1
4-Nitrophenol	ND		9.6	3.2	ug/L		01/30/25 10:40	01/31/25 23:30	1
N-Nitrosodimethylamine	ND		9.6	2.1	ug/L		01/30/25 10:40	01/31/25 23:30	1
N-Nitrosodi-n-propylamine	ND		9.6	2.4	ug/L		01/30/25 10:40	01/31/25 23:30	1
N-Nitrosodiphenylamine	ND		9.6	3.6	ug/L		01/30/25 10:40	01/31/25 23:30	1
Pentachlorophenol	ND		19	11	ug/L		01/30/25 10:40	01/31/25 23:30	1
Phenol	ND		9.6	4.0	ug/L		01/30/25 10:40	01/31/25 23:30	1
Pyridine	ND		9.6	9.6	ug/L		01/30/25 10:40	01/31/25 23:30	1
Quinoline	ND		9.6	2.3	ug/L		01/30/25 10:40	01/31/25 23:30	1
2,4,5-Trichlorophenol	ND		9.6	3.8	ug/L		01/30/25 10:40	01/31/25 23:30	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		01/30/25 10:40	01/31/25 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		21 - 114	01/30/25 10:40	01/31/25 23:30	1
2-Fluorophenol	38		10 - 105	01/30/25 10:40	01/31/25 23:30	1
Nitrobenzene-d5	62		16 - 127	01/30/25 10:40	01/31/25 23:30	1
Phenol-d5	29		10 - 129	01/30/25 10:40	01/31/25 23:30	1
Terphenyl-d14	90		13 - 150	01/30/25 10:40	01/31/25 23:30	1
2,4,6-Tribromophenol	103		10 - 150	01/30/25 10:40	01/31/25 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.9	0.084	ug/L		01/28/25 14:13	01/30/25 12:17	1
Acenaphthylene	ND		9.9	0.047	ug/L		01/28/25 14:13	01/30/25 12:17	1
Anthracene	ND		9.9	0.073	ug/L		01/28/25 14:13	01/30/25 12:17	1
Benzo[a]anthracene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 12:17	1
Benzo[a]pyrene	ND		9.9	0.045	ug/L		01/28/25 14:13	01/30/25 12:17	1
Benzo[b]fluoranthene	ND		9.9	0.042	ug/L		01/28/25 14:13	01/30/25 12:17	1
Benzo[g,h,i]perylene	ND		9.9	0.052	ug/L		01/28/25 14:13	01/30/25 12:17	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: MW13-ROX-012325

Lab Sample ID: 400-269766-3

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 12:17	1
Chrysene	ND		9.9	0.039	ug/L		01/28/25 14:13	01/30/25 12:17	1
Dibenz(a,h)anthracene	ND		9.9	0.044	ug/L		01/28/25 14:13	01/30/25 12:17	1
Fluoranthene	ND		9.9	0.032	ug/L		01/28/25 14:13	01/30/25 12:17	1
Fluorene	ND		9.9	0.086	ug/L		01/28/25 14:13	01/30/25 12:17	1
Indeno[1,2,3-cd]pyrene	ND		9.9	0.032	ug/L		01/28/25 14:13	01/30/25 12:17	1
1-Methylnaphthalene	ND		9.9	0.066	ug/L		01/28/25 14:13	01/30/25 12:17	1
2-Methylnaphthalene	ND		9.9	0.076	ug/L		01/28/25 14:13	01/30/25 12:17	1
Phenanthrene	ND		9.9	0.044	ug/L		01/28/25 14:13	01/30/25 12:17	1
Pyrene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		15 - 150	01/28/25 14:13	01/30/25 12:17	1
Nitrobenzene-d5	80		50 - 150	01/28/25 14:13	01/30/25 12:17	1
Terphenyl-d14	95		43 - 147	01/28/25 14:13	01/30/25 12:17	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.031	0.018	ug/L		01/28/25 10:54	01/28/25 16:39	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/28/25 10:54	01/28/25 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	59		51 - 149	01/28/25 10:54	01/28/25 16:39	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: MW13-ROX-012325-DUP

Lab Sample ID: 400-269766-4

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 17:41	1
Acrolein	ND	UJ	20	3.3	ug/L			02/03/25 17:41	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 17:41	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 17:41	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 17:41	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 17:41	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 17:41	1
Bromoform	ND	UJ	5.0	0.25	ug/L			02/03/25 17:41	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 17:41	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 17:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 17:41	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 17:41	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 17:41	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			02/03/25 17:41	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 17:41	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 17:41	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 17:41	1
Chloromethane	ND	UJ	1.0	0.40	ug/L			02/03/25 17:41	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 17:41	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 17:41	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 17:41	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 17:41	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 17:41	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 17:41	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 17:41	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 17:41	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 17:41	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 17:41	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 17:41	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 17:41	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 17:41	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 17:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 17:41	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 17:41	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 17:41	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 17:41	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 17:41	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 17:41	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 17:41	1
Methyl tert-butyl ether	0.77	J	1.0	0.22	ug/L			02/03/25 17:41	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 17:41	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 17:41	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 17:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 17:41	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 17:41	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 17:41	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 17:41	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 17:41	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: MW13-ROX-012325-DUP

Lab Sample ID: 400-269766-4

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 17:41	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 17:41	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 17:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 17:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 17:41	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 17:41	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 17:41	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 17:41	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 17:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 17:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 17:41	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 17:41	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 17:41	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 17:41	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 17:41	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 17:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 17:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 17:41	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 17:41	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/03/25 17:41	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/03/25 17:41	1
Dibromofluoromethane	95		79 - 130		02/03/25 17:41	1
Toluene-d8 (Surr)	100		64 - 132		02/03/25 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.6	8.3	ug/L		01/30/25 10:40	01/31/25 23:52	1
Benzenethiol	ND		9.6	9.5	ug/L		01/30/25 10:40	01/31/25 23:52	1
Benzoic acid	ND		29	23	ug/L		01/30/25 10:40	01/31/25 23:52	1
Benzyl alcohol	ND		9.6	7.0	ug/L		01/30/25 10:40	01/31/25 23:52	1
Bis(2-chloroethoxy)methane	ND		9.6	4.4	ug/L		01/30/25 10:40	01/31/25 23:52	1
Bis(2-chloroethyl)ether	ND		9.6	3.7	ug/L		01/30/25 10:40	01/31/25 23:52	1
bis (2-chloroisopropyl) ether	ND		9.6	1.7	ug/L		01/30/25 10:40	01/31/25 23:52	1
Bis(2-ethylhexyl) phthalate	ND	*3 UJ	9.6	8.5	ug/L		01/30/25 10:40	01/31/25 23:52	1
4-Bromophenyl phenyl ether	ND		9.6	8.2	ug/L		01/30/25 10:40	01/31/25 23:52	1
Butyl benzyl phthalate	ND	*3 UJ	9.6	5.6	ug/L		01/30/25 10:40	01/31/25 23:52	1
4-Chloroaniline	ND		9.6	4.5	ug/L		01/30/25 10:40	01/31/25 23:52	1
4-Chloro-3-methylphenol	ND		9.6	5.1	ug/L		01/30/25 10:40	01/31/25 23:52	1
2-Chloronaphthalene	ND		9.6	3.6	ug/L		01/30/25 10:40	01/31/25 23:52	1
2-Chlorophenol	ND		9.6	3.9	ug/L		01/30/25 10:40	01/31/25 23:52	1
4-Chlorophenyl phenyl ether	ND		9.6	3.5	ug/L		01/30/25 10:40	01/31/25 23:52	1
Dibenz[a,h]acridine	ND		9.6	2.7	ug/L		01/30/25 10:40	01/31/25 23:52	1
Dibenzofuran	ND		9.6	3.8	ug/L		01/30/25 10:40	01/31/25 23:52	1
3,3'-Dichlorobenzidine	ND	*3 UJ	11	11	ug/L		01/30/25 10:40	01/31/25 23:52	1
2,4-Dichlorophenol	ND		9.6	4.1	ug/L		01/30/25 10:40	01/31/25 23:52	1
Diethyl phthalate	ND		9.6	4.2	ug/L		01/30/25 10:40	01/31/25 23:52	1
2,4-Dimethylphenol	ND		9.6	5.0	ug/L		01/30/25 10:40	01/31/25 23:52	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: MW13-ROX-012325-DUP

Lab Sample ID: 400-269766-4

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.6	4.0	ug/L		01/30/25 10:40	01/31/25 23:52	1
Di-n-butyl phthalate	ND		9.6	4.4	ug/L		01/30/25 10:40	01/31/25 23:52	1
4,6-Dinitro-ortho-cresol	ND		9.6	9.6	ug/L		01/30/25 10:40	01/31/25 23:52	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/30/25 10:40	01/31/25 23:52	1
2,4-Dinitrotoluene	ND		9.6	4.9	ug/L		01/30/25 10:40	01/31/25 23:52	1
2,6-Dinitrotoluene	ND		9.6	3.7	ug/L		01/30/25 10:40	01/31/25 23:52	1
Di-n-octyl phthalate	ND	*3 UJ	9.6	5.7	ug/L		01/30/25 10:40	01/31/25 23:52	1
1,4-Dioxane	ND		9.6	4.1	ug/L		01/30/25 10:40	01/31/25 23:52	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	3.2	ug/L		01/30/25 10:40	01/31/25 23:52	1
Hexachlorobenzene	ND		9.6	9.3	ug/L		01/30/25 10:40	01/31/25 23:52	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/30/25 10:40	01/31/25 23:52	1
Hexachloroethane	ND		9.6	5.0	ug/L		01/30/25 10:40	01/31/25 23:52	1
Indene	ND		9.6	3.4	ug/L		01/30/25 10:40	01/31/25 23:52	1
Isophorone	ND		9.6	5.0	ug/L		01/30/25 10:40	01/31/25 23:52	1
2-Methylphenol	ND		9.6	3.1	ug/L		01/30/25 10:40	01/31/25 23:52	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/30/25 10:40	01/31/25 23:52	1
2-Nitroaniline	ND		9.6	4.8	ug/L		01/30/25 10:40	01/31/25 23:52	1
3-Nitroaniline	ND		9.6	4.5	ug/L		01/30/25 10:40	01/31/25 23:52	1
4-Nitroaniline	ND		9.6	3.9	ug/L		01/30/25 10:40	01/31/25 23:52	1
Nitrobenzene	ND		9.6	4.5	ug/L		01/30/25 10:40	01/31/25 23:52	1
2-Nitrophenol	ND		9.6	4.4	ug/L		01/30/25 10:40	01/31/25 23:52	1
4-Nitrophenol	ND		9.6	3.2	ug/L		01/30/25 10:40	01/31/25 23:52	1
N-Nitrosodimethylamine	ND		9.6	2.1	ug/L		01/30/25 10:40	01/31/25 23:52	1
N-Nitrosodi-n-propylamine	ND		9.6	2.4	ug/L		01/30/25 10:40	01/31/25 23:52	1
N-Nitrosodiphenylamine	ND		9.6	3.5	ug/L		01/30/25 10:40	01/31/25 23:52	1
Pentachlorophenol	ND		19	11	ug/L		01/30/25 10:40	01/31/25 23:52	1
Phenol	ND		9.6	4.0	ug/L		01/30/25 10:40	01/31/25 23:52	1
Pyridine	ND		9.6	9.6	ug/L		01/30/25 10:40	01/31/25 23:52	1
Quinoline	ND		9.6	2.3	ug/L		01/30/25 10:40	01/31/25 23:52	1
2,4,5-Trichlorophenol	ND		9.6	3.8	ug/L		01/30/25 10:40	01/31/25 23:52	1
2,4,6-Trichlorophenol	ND		9.6	3.3	ug/L		01/30/25 10:40	01/31/25 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		21 - 114	01/30/25 10:40	01/31/25 23:52	1
2-Fluorophenol	21		10 - 105	01/30/25 10:40	01/31/25 23:52	1
Nitrobenzene-d5	67		16 - 127	01/30/25 10:40	01/31/25 23:52	1
Phenol-d5	33		10 - 129	01/30/25 10:40	01/31/25 23:52	1
Terphenyl-d14	100	*3	13 - 150	01/30/25 10:40	01/31/25 23:52	1
2,4,6-Tribromophenol	109		10 - 150	01/30/25 10:40	01/31/25 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 12:47	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 12:47	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 12:47	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 12:47	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 12:47	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 12:47	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 12:47	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: MW13-ROX-012325-DUP

Lab Sample ID: 400-269766-4

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 12:47	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 12:47	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 12:47	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 12:47	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 12:47	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 12:47	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 12:47	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 12:47	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 12:47	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		15 - 150	01/28/25 14:13	01/30/25 12:47	1
Nitrobenzene-d5	73		50 - 150	01/28/25 14:13	01/30/25 12:47	1
Terphenyl-d14	96		43 - 147	01/28/25 14:13	01/30/25 12:47	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/28/25 10:54	01/28/25 17:00	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/28/25 10:54	01/28/25 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	54		51 - 149	01/28/25 10:54	01/28/25 17:00	1

Client Sample Results

Client: AECOM

Job ID: 400-269766-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: P114R-ROX-012325

Lab Sample ID: 400-269766-5

Date Collected: 01/23/25 11:40

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 18:05	1
Acrolein	ND	UJ	20	3.3	ug/L			02/03/25 18:05	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 18:05	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 18:05	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 18:05	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 18:05	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 18:05	1
Bromoform	ND	UJ	5.0	0.25	ug/L			02/03/25 18:05	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 18:05	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 18:05	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 18:05	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 18:05	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 18:05	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			02/03/25 18:05	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 18:05	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 18:05	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 18:05	1
Chloromethane	ND	UJ	1.0	0.40	ug/L			02/03/25 18:05	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 18:05	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 18:05	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 18:05	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 18:05	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 18:05	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 18:05	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 18:05	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 18:05	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 18:05	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 18:05	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:05	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:05	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:05	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 18:05	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 18:05	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 18:05	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 18:05	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 18:05	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 18:05	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 18:05	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 18:05	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 18:05	1
Methyl tert-butyl ether	0.96	J	1.0	0.22	ug/L			02/03/25 18:05	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 18:05	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 18:05	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 18:05	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 18:05	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 18:05	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 18:05	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 18:05	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 18:05	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P114R-ROX-012325

Lab Sample ID: 400-269766-5

Date Collected: 01/23/25 11:40

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 18:05	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 18:05	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 18:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 18:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 18:05	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 18:05	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 18:05	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 18:05	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 18:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 18:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 18:05	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 18:05	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 18:05	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 18:05	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 18:05	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 18:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 18:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 18:05	1
Vinyl acetate	ND	UJ	25	0.93	ug/L			02/03/25 18:05	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 18:05	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		56 - 136		02/03/25 18:05	1
Dibromofluoromethane	96		79 - 130		02/03/25 18:05	1
Toluene-d8 (Surr)	101		64 - 132		02/03/25 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.6	8.3	ug/L		01/30/25 10:40	02/01/25 00:14	1
Benzenethiol	ND		9.6	9.5	ug/L		01/30/25 10:40	02/01/25 00:14	1
Benzoic acid	ND		29	23	ug/L		01/30/25 10:40	02/01/25 00:14	1
Benzyl alcohol	ND		9.6	7.0	ug/L		01/30/25 10:40	02/01/25 00:14	1
Bis(2-chloroethoxy)methane	ND		9.6	4.4	ug/L		01/30/25 10:40	02/01/25 00:14	1
Bis(2-chloroethyl)ether	ND		9.6	3.7	ug/L		01/30/25 10:40	02/01/25 00:14	1
bis (2-chloroisopropyl) ether	ND		9.6	1.7	ug/L		01/30/25 10:40	02/01/25 00:14	1
Bis(2-ethylhexyl) phthalate	ND	*3 UJ	9.6	8.5	ug/L		01/30/25 10:40	02/01/25 00:14	1
4-Bromophenyl phenyl ether	ND		9.6	8.2	ug/L		01/30/25 10:40	02/01/25 00:14	1
Butyl benzyl phthalate	ND	*3 UJ	9.6	5.6	ug/L		01/30/25 10:40	02/01/25 00:14	1
4-Chloroaniline	ND		9.6	4.5	ug/L		01/30/25 10:40	02/01/25 00:14	1
4-Chloro-3-methylphenol	ND		9.6	5.1	ug/L		01/30/25 10:40	02/01/25 00:14	1
2-Chloronaphthalene	ND		9.6	3.6	ug/L		01/30/25 10:40	02/01/25 00:14	1
2-Chlorophenol	ND		9.6	3.9	ug/L		01/30/25 10:40	02/01/25 00:14	1
4-Chlorophenyl phenyl ether	ND		9.6	3.5	ug/L		01/30/25 10:40	02/01/25 00:14	1
Dibenz[a,h]acridine	ND		9.6	2.7	ug/L		01/30/25 10:40	02/01/25 00:14	1
Dibenzofuran	ND		9.6	3.8	ug/L		01/30/25 10:40	02/01/25 00:14	1
3,3'-Dichlorobenzidine	ND	*3 UJ	11	11	ug/L		01/30/25 10:40	02/01/25 00:14	1
2,4-Dichlorophenol	ND		9.6	4.1	ug/L		01/30/25 10:40	02/01/25 00:14	1
Diethyl phthalate	ND		9.6	4.2	ug/L		01/30/25 10:40	02/01/25 00:14	1
2,4-Dimethylphenol	ND		9.6	5.0	ug/L		01/30/25 10:40	02/01/25 00:14	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P114R-ROX-012325

Lab Sample ID: 400-269766-5

Date Collected: 01/23/25 11:40

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.6	4.0	ug/L		01/30/25 10:40	02/01/25 00:14	1
Di-n-butyl phthalate	ND		9.6	4.4	ug/L		01/30/25 10:40	02/01/25 00:14	1
4,6-Dinitro-ortho-cresol	ND		9.6	9.6	ug/L		01/30/25 10:40	02/01/25 00:14	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/30/25 10:40	02/01/25 00:14	1
2,4-Dinitrotoluene	ND		9.6	4.9	ug/L		01/30/25 10:40	02/01/25 00:14	1
2,6-Dinitrotoluene	ND		9.6	3.7	ug/L		01/30/25 10:40	02/01/25 00:14	1
Di-n-octyl phthalate	ND	*3 UJ	9.6	5.7	ug/L		01/30/25 10:40	02/01/25 00:14	1
1,4-Dioxane	ND		9.6	4.1	ug/L		01/30/25 10:40	02/01/25 00:14	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	3.2	ug/L		01/30/25 10:40	02/01/25 00:14	1
Hexachlorobenzene	ND		9.6	9.3	ug/L		01/30/25 10:40	02/01/25 00:14	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/30/25 10:40	02/01/25 00:14	1
Hexachloroethane	ND		9.6	5.0	ug/L		01/30/25 10:40	02/01/25 00:14	1
Indene	ND		9.6	3.4	ug/L		01/30/25 10:40	02/01/25 00:14	1
Isophorone	ND		9.6	5.0	ug/L		01/30/25 10:40	02/01/25 00:14	1
2-Methylphenol	ND		9.6	3.1	ug/L		01/30/25 10:40	02/01/25 00:14	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/30/25 10:40	02/01/25 00:14	1
2-Nitroaniline	ND		9.6	4.8	ug/L		01/30/25 10:40	02/01/25 00:14	1
3-Nitroaniline	ND		9.6	4.5	ug/L		01/30/25 10:40	02/01/25 00:14	1
4-Nitroaniline	ND		9.6	3.9	ug/L		01/30/25 10:40	02/01/25 00:14	1
Nitrobenzene	ND		9.6	4.5	ug/L		01/30/25 10:40	02/01/25 00:14	1
2-Nitrophenol	ND		9.6	4.4	ug/L		01/30/25 10:40	02/01/25 00:14	1
4-Nitrophenol	ND		9.6	3.2	ug/L		01/30/25 10:40	02/01/25 00:14	1
N-Nitrosodimethylamine	ND		9.6	2.1	ug/L		01/30/25 10:40	02/01/25 00:14	1
N-Nitrosodi-n-propylamine	ND		9.6	2.4	ug/L		01/30/25 10:40	02/01/25 00:14	1
N-Nitrosodiphenylamine	ND		9.6	3.5	ug/L		01/30/25 10:40	02/01/25 00:14	1
Pentachlorophenol	ND		19	11	ug/L		01/30/25 10:40	02/01/25 00:14	1
Phenol	ND		9.6	4.0	ug/L		01/30/25 10:40	02/01/25 00:14	1
Pyridine	ND		9.6	9.6	ug/L		01/30/25 10:40	02/01/25 00:14	1
Quinoline	ND		9.6	2.3	ug/L		01/30/25 10:40	02/01/25 00:14	1
2,4,5-Trichlorophenol	ND		9.6	3.8	ug/L		01/30/25 10:40	02/01/25 00:14	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		01/30/25 10:40	02/01/25 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		21 - 114	01/30/25 10:40	02/01/25 00:14	1
2-Fluorophenol	43		10 - 105	01/30/25 10:40	02/01/25 00:14	1
Nitrobenzene-d5	69		16 - 127	01/30/25 10:40	02/01/25 00:14	1
Phenol-d5	33		10 - 129	01/30/25 10:40	02/01/25 00:14	1
Terphenyl-d14	94	*3	13 - 150	01/30/25 10:40	02/01/25 00:14	1
2,4,6-Tribromophenol	114		10 - 150	01/30/25 10:40	02/01/25 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.53	J	10	0.085	ug/L		01/28/25 14:13	01/30/25 13:18	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 13:18	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 13:18	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 13:18	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 13:18	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 13:18	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 13:18	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P114R-ROX-012325

Lab Sample ID: 400-269766-5

Date Collected: 01/23/25 11:40

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 13:18	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 13:18	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 13:18	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 13:18	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 13:18	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 13:18	1
1-Methylnaphthalene	0.11	J	10	0.066	ug/L		01/28/25 14:13	01/30/25 13:18	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 13:18	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 13:18	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		15 - 150	01/28/25 14:13	01/30/25 13:18	1
Nitrobenzene-d5	79		50 - 150	01/28/25 14:13	01/30/25 13:18	1
Terphenyl-d14	98		43 - 147	01/28/25 14:13	01/30/25 13:18	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.034	0.019	ug/L		01/28/25 10:54	01/28/25 17:21	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/28/25 10:54	01/28/25 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	58		51 - 149	01/28/25 10:54	01/28/25 17:21	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: TB-TOX-012325-8260-B

Lab Sample ID: 400-269766-6

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 18:30	1
Acrolein	ND		20	3.3	ug/L			02/03/25 18:30	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 18:30	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 18:30	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 18:30	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 18:30	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 18:30	1
Bromoform	ND		5.0	0.25	ug/L			02/03/25 18:30	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 18:30	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 18:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 18:30	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 18:30	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 18:30	1
Chloroethane	ND		1.0	0.76	ug/L			02/03/25 18:30	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 18:30	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 18:30	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 18:30	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 18:30	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 18:30	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 18:30	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 18:30	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 18:30	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 18:30	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 18:30	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 18:30	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 18:30	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 18:30	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 18:30	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:30	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:30	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:30	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 18:30	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 18:30	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 18:30	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 18:30	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 18:30	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 18:30	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 18:30	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 18:30	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 18:30	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 18:30	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 18:30	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 18:30	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 18:30	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 18:30	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 18:30	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 18:30	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 18:30	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: TB-TOX-012325-8260-B

Lab Sample ID: 400-269766-6

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 18:30	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 18:30	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 18:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 18:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 18:30	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 18:30	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 18:30	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 18:30	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 18:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 18:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 18:30	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 18:30	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 18:30	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 18:30	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 18:30	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 18:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 18:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 18:30	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 18:30	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 18:30	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/03/25 18:30	1
Dibromofluoromethane	95		79 - 130		02/03/25 18:30	1
Toluene-d8 (Surr)	100		64 - 132		02/03/25 18:30	1

Client Sample Results

Client: AECOM

Job ID: 400-269766-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-TOX-012325-8011-B

Lab Sample ID: 400-269766-7

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/28/25 10:54	01/28/25 17:43	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/28/25 10:54	01/28/25 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	68		51 - 149				01/28/25 10:54	01/28/25 17:43	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325-EB

Lab Sample ID: 400-269766-8

Date Collected: 01/23/25 10:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 18:54	1
Acrolein	ND		20	3.3	ug/L			02/03/25 18:54	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 18:54	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 18:54	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 18:54	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 18:54	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 18:54	1
Bromoform	ND		5.0	0.25	ug/L			02/03/25 18:54	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 18:54	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 18:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 18:54	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 18:54	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 18:54	1
Chloroethane	ND		1.0	0.76	ug/L			02/03/25 18:54	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 18:54	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 18:54	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 18:54	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 18:54	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 18:54	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 18:54	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 18:54	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 18:54	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 18:54	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 18:54	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 18:54	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 18:54	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 18:54	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 18:54	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:54	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:54	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 18:54	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 18:54	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 18:54	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 18:54	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 18:54	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 18:54	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 18:54	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 18:54	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 18:54	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 18:54	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 18:54	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 18:54	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 18:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 18:54	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 18:54	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 18:54	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 18:54	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 18:54	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325-EB

Lab Sample ID: 400-269766-8

Date Collected: 01/23/25 10:25

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 18:54	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 18:54	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 18:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 18:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 18:54	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 18:54	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 18:54	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 18:54	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 18:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 18:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 18:54	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 18:54	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 18:54	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 18:54	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 18:54	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 18:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 18:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 18:54	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 18:54	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 18:54	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/03/25 18:54	1
Dibromofluoromethane	94		79 - 130		02/03/25 18:54	1
Toluene-d8 (Surr)	101		64 - 132		02/03/25 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		01/30/25 10:40	01/31/25 19:31	1
Benzenethiol	ND		10	9.9	ug/L		01/30/25 10:40	01/31/25 19:31	1
Benzoic acid	ND		30	24	ug/L		01/30/25 10:40	01/31/25 19:31	1
Benzyl alcohol	ND		10	7.3	ug/L		01/30/25 10:40	01/31/25 19:31	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 19:31	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/30/25 10:40	01/31/25 19:31	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/30/25 10:40	01/31/25 19:31	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/30/25 10:40	01/31/25 19:31	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/30/25 10:40	01/31/25 19:31	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/30/25 10:40	01/31/25 19:31	1
4-Chloroaniline	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 19:31	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/30/25 10:40	01/31/25 19:31	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/30/25 10:40	01/31/25 19:31	1
2-Chlorophenol	ND		10	4.1	ug/L		01/30/25 10:40	01/31/25 19:31	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/30/25 10:40	01/31/25 19:31	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/30/25 10:40	01/31/25 19:31	1
Dibenzofuran	ND		10	4.0	ug/L		01/30/25 10:40	01/31/25 19:31	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/30/25 10:40	01/31/25 19:31	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/30/25 10:40	01/31/25 19:31	1
Diethyl phthalate	ND		10	4.4	ug/L		01/30/25 10:40	01/31/25 19:31	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 19:31	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325-EB

Lab Sample ID: 400-269766-8

Date Collected: 01/23/25 10:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.2	ug/L		01/30/25 10:40	01/31/25 19:31	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 19:31	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/30/25 10:40	01/31/25 19:31	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/30/25 10:40	01/31/25 19:31	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/30/25 10:40	01/31/25 19:31	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/30/25 10:40	01/31/25 19:31	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/30/25 10:40	01/31/25 19:31	1
1,4-Dioxane	ND		10	4.3	ug/L		01/30/25 10:40	01/31/25 19:31	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/30/25 10:40	01/31/25 19:31	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/30/25 10:40	01/31/25 19:31	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/30/25 10:40	01/31/25 19:31	1
Hexachloroethane	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 19:31	1
Indene	ND		10	3.6	ug/L		01/30/25 10:40	01/31/25 19:31	1
Isophorone	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 19:31	1
2-Methylphenol	ND		10	3.2	ug/L		01/30/25 10:40	01/31/25 19:31	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/30/25 10:40	01/31/25 19:31	1
2-Nitroaniline	ND		10	5.0	ug/L		01/30/25 10:40	01/31/25 19:31	1
3-Nitroaniline	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 19:31	1
4-Nitroaniline	ND		10	4.1	ug/L		01/30/25 10:40	01/31/25 19:31	1
Nitrobenzene	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 19:31	1
2-Nitrophenol	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 19:31	1
4-Nitrophenol	ND		10	3.3	ug/L		01/30/25 10:40	01/31/25 19:31	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/30/25 10:40	01/31/25 19:31	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/30/25 10:40	01/31/25 19:31	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/30/25 10:40	01/31/25 19:31	1
Pentachlorophenol	ND		20	12	ug/L		01/30/25 10:40	01/31/25 19:31	1
Phenol	ND		10	4.2	ug/L		01/30/25 10:40	01/31/25 19:31	1
Pyridine	ND		10	10	ug/L		01/30/25 10:40	01/31/25 19:31	1
Quinoline	ND		10	2.4	ug/L		01/30/25 10:40	01/31/25 19:31	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/30/25 10:40	01/31/25 19:31	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/30/25 10:40	01/31/25 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		21 - 114	01/30/25 10:40	01/31/25 19:31	1
2-Fluorophenol	19		10 - 105	01/30/25 10:40	01/31/25 19:31	1
Nitrobenzene-d5	58		16 - 127	01/30/25 10:40	01/31/25 19:31	1
Phenol-d5	15		10 - 129	01/30/25 10:40	01/31/25 19:31	1
Terphenyl-d14	90		13 - 150	01/30/25 10:40	01/31/25 19:31	1
2,4,6-Tribromophenol	84		10 - 150	01/30/25 10:40	01/31/25 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 13:49	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 13:49	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 13:49	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 13:49	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 13:49	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 13:49	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 13:49	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325-EB

Lab Sample ID: 400-269766-8

Date Collected: 01/23/25 10:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 13:49	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 13:49	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 13:49	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 13:49	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 13:49	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 13:49	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 13:49	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 13:49	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 13:49	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		15 - 150	01/28/25 14:13	01/30/25 13:49	1
Nitrobenzene-d5	82		50 - 150	01/28/25 14:13	01/30/25 13:49	1
Terphenyl-d14	96		43 - 147	01/28/25 14:13	01/30/25 13:49	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/28/25 10:54	01/28/25 18:04	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/28/25 10:54	01/28/25 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	58		51 - 149	01/28/25 10:54	01/28/25 18:04	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325

Lab Sample ID: 400-269766-9

Date Collected: 01/23/25 11:50

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 19:19	1
Acrolein	ND	UJ	20	3.3	ug/L			02/03/25 19:19	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 19:19	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 19:19	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 19:19	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 19:19	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 19:19	1
Bromoform	ND	UJ	5.0	0.25	ug/L			02/03/25 19:19	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 19:19	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 19:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 19:19	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 19:19	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 19:19	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			02/03/25 19:19	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 19:19	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 19:19	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 19:19	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 19:19	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 19:19	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 19:19	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 19:19	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 19:19	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 19:19	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 19:19	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 19:19	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 19:19	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 19:19	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 19:19	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 19:19	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 19:19	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 19:19	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 19:19	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 19:19	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 19:19	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 19:19	1
Isopropylbenzene	53		1.0	0.53	ug/L			02/03/25 19:19	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 19:19	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 19:19	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 19:19	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 19:19	1
m-Xylene & p-Xylene	260		5.0	3.0	ug/L			02/03/25 19:19	1
Naphthalene	39		5.0	3.0	ug/L			02/03/25 19:19	1
n-Butylbenzene	3.6		1.0	0.76	ug/L			02/03/25 19:19	1
N-Propylbenzene	60		1.0	0.69	ug/L			02/03/25 19:19	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 19:19	1
o-Xylene	14		5.0	3.0	ug/L			02/03/25 19:19	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 19:19	1
p-Isopropyltoluene	3.0		1.0	0.71	ug/L			02/03/25 19:19	1
sec-Butylbenzene	4.5		1.0	0.70	ug/L			02/03/25 19:19	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325

Lab Sample ID: 400-269766-9

Date Collected: 01/23/25 11:50

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	1.0	ug/L			02/03/25 19:19	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 19:19	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 19:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 19:19	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 19:19	1
Toluene	4.9		1.0	0.90	ug/L			02/03/25 19:19	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 19:19	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 19:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 19:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 19:19	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 19:19	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 19:19	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 19:19	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 19:19	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 19:19	1
1,2,4-Trimethylbenzene	120		1.0	0.82	ug/L			02/03/25 19:19	1
1,3,5-Trimethylbenzene	38		1.0	0.56	ug/L			02/03/25 19:19	1
Vinyl acetate	ND	UJ	25	0.93	ug/L			02/03/25 19:19	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 19:19	1
Xylenes, Total	280		10	6.0	ug/L			02/03/25 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/03/25 19:19	1
Dibromofluoromethane	100		79 - 130		02/03/25 19:19	1
Toluene-d8 (Surr)	100		64 - 132		02/03/25 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	460		2.0	1.0	ug/L			02/04/25 10:41	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/04/25 10:41	2
Dibromofluoromethane	97		79 - 130		02/04/25 10:41	2
Toluene-d8 (Surr)	101		64 - 132		02/04/25 10:41	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.9	8.6	ug/L		01/30/25 10:40	01/31/25 19:56	1
Benzenethiol	ND		9.9	9.8	ug/L		01/30/25 10:40	01/31/25 19:56	1
Benzoic acid	ND		30	24	ug/L		01/30/25 10:40	01/31/25 19:56	1
Benzyl alcohol	ND	UJ	9.9	7.2	ug/L		01/30/25 10:40	01/31/25 19:56	1
Bis(2-chloroethoxy)methane	ND	UJ	9.9	4.5	ug/L		01/30/25 10:40	01/31/25 19:56	1
Bis(2-chloroethyl)ether	ND	UJ	9.9	3.9	ug/L		01/30/25 10:40	01/31/25 19:56	1
bis (2-chloroisopropyl) ether	ND	UJ	9.9	1.8	ug/L		01/30/25 10:40	01/31/25 19:56	1
Bis(2-ethylhexyl) phthalate	ND	UJ	9.9	8.8	ug/L		01/30/25 10:40	01/31/25 19:56	1
4-Bromophenyl phenyl ether	ND		9.9	8.5	ug/L		01/30/25 10:40	01/31/25 19:56	1
Butyl benzyl phthalate	ND	UJ	9.9	5.7	ug/L		01/30/25 10:40	01/31/25 19:56	1
4-Chloroaniline	ND		9.9	4.6	ug/L		01/30/25 10:40	01/31/25 19:56	1
4-Chloro-3-methylphenol	ND	UJ	9.9	5.2	ug/L		01/30/25 10:40	01/31/25 19:56	1
2-Chloronaphthalene	ND		9.9	3.8	ug/L		01/30/25 10:40	01/31/25 19:56	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325

Lab Sample ID: 400-269766-9

Date Collected: 01/23/25 11:50

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND	UJ	9.9	4.0	ug/L		01/30/25 10:40	01/31/25 19:56	1
4-Chlorophenyl phenyl ether	ND		9.9	3.7	ug/L		01/30/25 10:40	01/31/25 19:56	1
Dibenz[a,h]acridine	ND		9.9	2.8	ug/L		01/30/25 10:40	01/31/25 19:56	1
Dibenzofuran	ND		9.9	3.9	ug/L		01/30/25 10:40	01/31/25 19:56	1
3,3'-Dichlorobenzidine	ND	UJ	11	11	ug/L		01/30/25 10:40	01/31/25 19:56	1
2,4-Dichlorophenol	ND		9.9	4.2	ug/L		01/30/25 10:40	01/31/25 19:56	1
Diethyl phthalate	ND		9.9	4.3	ug/L		01/30/25 10:40	01/31/25 19:56	1
2,4-Dimethylphenol	ND		9.9	5.1	ug/L		01/30/25 10:40	01/31/25 19:56	1
Dimethyl phthalate	ND		9.9	4.1	ug/L		01/30/25 10:40	01/31/25 19:56	1
Di-n-butyl phthalate	ND	UJ	9.9	4.5	ug/L		01/30/25 10:40	01/31/25 19:56	1
4,6-Dinitro-ortho-cresol	ND		9.9	9.9	ug/L		01/30/25 10:40	01/31/25 19:56	1
2,4-Dinitrophenol	ND		30	4.5	ug/L		01/30/25 10:40	01/31/25 19:56	1
2,4-Dinitrotoluene	ND		9.9	5.0	ug/L		01/30/25 10:40	01/31/25 19:56	1
2,6-Dinitrotoluene	ND	UJ	9.9	3.9	ug/L		01/30/25 10:40	01/31/25 19:56	1
Di-n-octyl phthalate	ND	UJ	9.9	5.9	ug/L		01/30/25 10:40	01/31/25 19:56	1
1,4-Dioxane	ND	UJ	9.9	4.2	ug/L		01/30/25 10:40	01/31/25 19:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	3.3	ug/L		01/30/25 10:40	01/31/25 19:56	1
Hexachlorobenzene	ND		9.9	9.6	ug/L		01/30/25 10:40	01/31/25 19:56	1
Hexachlorocyclopentadiene	ND		20	4.4	ug/L		01/30/25 10:40	01/31/25 19:56	1
Hexachloroethane	ND	UJ	9.9	5.1	ug/L		01/30/25 10:40	01/31/25 19:56	1
Indene	ND		9.9	3.6	ug/L		01/30/25 10:40	01/31/25 19:56	1
Isophorone	ND	UJ	9.9	5.1	ug/L		01/30/25 10:40	01/31/25 19:56	1
2-Methylphenol	ND		9.9	3.2	ug/L		01/30/25 10:40	01/31/25 19:56	1
3 & 4 Methylphenol	ND		20	4.5	ug/L		01/30/25 10:40	01/31/25 19:56	1
2-Nitroaniline	ND		9.9	4.9	ug/L		01/30/25 10:40	01/31/25 19:56	1
3-Nitroaniline	ND		9.9	4.6	ug/L		01/30/25 10:40	01/31/25 19:56	1
4-Nitroaniline	ND		9.9	4.0	ug/L		01/30/25 10:40	01/31/25 19:56	1
Nitrobenzene	ND		9.9	4.6	ug/L		01/30/25 10:40	01/31/25 19:56	1
2-Nitrophenol	ND		9.9	4.5	ug/L		01/30/25 10:40	01/31/25 19:56	1
4-Nitrophenol	ND		9.9	3.3	ug/L		01/30/25 10:40	01/31/25 19:56	1
N-Nitrosodimethylamine	ND		9.9	2.2	ug/L		01/30/25 10:40	01/31/25 19:56	1
N-Nitrosodi-n-propylamine	ND		9.9	2.5	ug/L		01/30/25 10:40	01/31/25 19:56	1
N-Nitrosodiphenylamine	ND		9.9	3.7	ug/L		01/30/25 10:40	01/31/25 19:56	1
Pentachlorophenol	ND		20	12	ug/L		01/30/25 10:40	01/31/25 19:56	1
Phenol	ND	UJ	9.9	4.1	ug/L		01/30/25 10:40	01/31/25 19:56	1
Pyridine	ND	UJ	9.9	9.9	ug/L		01/30/25 10:40	01/31/25 19:56	1
Quinoline	ND		9.9	2.4	ug/L		01/30/25 10:40	01/31/25 19:56	1
2,4,5-Trichlorophenol	ND		9.9	3.9	ug/L		01/30/25 10:40	01/31/25 19:56	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		01/30/25 10:40	01/31/25 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		21 - 114	01/30/25 10:40	01/31/25 19:56	1
2-Fluorophenol	20		10 - 105	01/30/25 10:40	01/31/25 19:56	1
Nitrobenzene-d5	57		16 - 127	01/30/25 10:40	01/31/25 19:56	1
Phenol-d5	14		10 - 129	01/30/25 10:40	01/31/25 19:56	1
Terphenyl-d14	89		13 - 150	01/30/25 10:40	01/31/25 19:56	1
2,4,6-Tribromophenol	88		10 - 150	01/30/25 10:40	01/31/25 19:56	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325

Lab Sample ID: 400-269766-9

Date Collected: 01/23/25 11:50

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.4	J	10	0.085	ug/L		01/28/25 14:13	01/30/25 14:19	1
Acenaphthylene	0.10	J	10	0.047	ug/L		01/28/25 14:13	01/30/25 14:19	1
Anthracene	0.14	J	10	0.073	ug/L		01/28/25 14:13	01/30/25 14:19	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 14:19	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 14:19	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 14:19	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 14:19	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 14:19	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 14:19	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 14:19	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 14:19	1
Fluorene	0.71	J	10	0.087	ug/L		01/28/25 14:13	01/30/25 14:19	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 14:19	1
1-Methylnaphthalene	23		10	0.066	ug/L		01/28/25 14:13	01/30/25 14:19	1
2-Methylnaphthalene	28		10	0.077	ug/L		01/28/25 14:13	01/30/25 14:19	1
Phenanthrene	1.4	J	10	0.044	ug/L		01/28/25 14:13	01/30/25 14:19	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		15 - 150	01/28/25 14:13	01/30/25 14:19	1
Nitrobenzene-d5	85		50 - 150	01/28/25 14:13	01/30/25 14:19	1
Terphenyl-d14	77		43 - 147	01/28/25 14:13	01/30/25 14:19	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.032	0.018	ug/L		01/28/25 10:54	01/28/25 18:25	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/28/25 10:54	01/28/25 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	79		51 - 149	01/28/25 10:54	01/28/25 18:25	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P93D-ROX-012325

Lab Sample ID: 400-269766-10

Date Collected: 01/23/25 12:50

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 19:43	1
Acrolein	ND	UJ	20	3.3	ug/L			02/03/25 19:43	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 19:43	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 19:43	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 19:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 19:43	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 19:43	1
Bromoform	ND	UJ	5.0	0.25	ug/L			02/03/25 19:43	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 19:43	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 19:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 19:43	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 19:43	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 19:43	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			02/03/25 19:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 19:43	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 19:43	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 19:43	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 19:43	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 19:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 19:43	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 19:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 19:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 19:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 19:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 19:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 19:43	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 19:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 19:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 19:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 19:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 19:43	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 19:43	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/04/25 10:17	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 19:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 19:43	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 19:43	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 19:43	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 19:43	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 19:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 19:43	1
Methyl tert-butyl ether	0.77	J	1.0	0.22	ug/L			02/03/25 19:43	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 19:43	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 19:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 19:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 19:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 19:43	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 19:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 19:43	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 19:43	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P93D-ROX-012325

Lab Sample ID: 400-269766-10

Date Collected: 01/23/25 12:50

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 19:43	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 19:43	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 19:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 19:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 19:43	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 19:43	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 19:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 19:43	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 19:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 19:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 19:43	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 19:43	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 19:43	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 19:43	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 19:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 19:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 19:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 19:43	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 19:43	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/03/25 19:43	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/03/25 19:43	1
4-Bromofluorobenzene	101		56 - 136		02/04/25 10:17	1
Dibromofluoromethane	94		79 - 130		02/03/25 19:43	1
Dibromofluoromethane	95		79 - 130		02/04/25 10:17	1
Toluene-d8 (Surr)	101		64 - 132		02/03/25 19:43	1
Toluene-d8 (Surr)	100		64 - 132		02/04/25 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	10	8.7	ug/L		01/30/25 10:40	01/31/25 20:23	1
Benzenethiol	ND		10	9.9	ug/L		01/30/25 10:40	01/31/25 20:23	1
Benzoic acid	ND		30	24	ug/L		01/30/25 10:40	01/31/25 20:23	1
Benzyl alcohol	ND	UJ	10	7.3	ug/L		01/30/25 10:40	01/31/25 20:23	1
Bis(2-chloroethoxy)methane	ND	UJ	10	4.6	ug/L		01/30/25 10:40	01/31/25 20:23	1
Bis(2-chloroethyl)ether	ND	UJ	10	3.9	ug/L		01/30/25 10:40	01/31/25 20:23	1
bis (2-chloroisopropyl) ether	ND	UJ	10	1.8	ug/L		01/30/25 10:40	01/31/25 20:23	1
Bis(2-ethylhexyl) phthalate	ND	UJ	10	8.9	ug/L		01/30/25 10:40	01/31/25 20:23	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/30/25 10:40	01/31/25 20:23	1
Butyl benzyl phthalate	ND	UJ	10	5.8	ug/L		01/30/25 10:40	01/31/25 20:23	1
4-Chloroaniline	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 20:23	1
4-Chloro-3-methylphenol	ND	UJ	10	5.3	ug/L		01/30/25 10:40	01/31/25 20:23	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/30/25 10:40	01/31/25 20:23	1
2-Chlorophenol	ND	UJ	10	4.1	ug/L		01/30/25 10:40	01/31/25 20:23	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/30/25 10:40	01/31/25 20:23	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/30/25 10:40	01/31/25 20:23	1
Dibenzofuran	ND		10	4.0	ug/L		01/30/25 10:40	01/31/25 20:23	1
3,3'-Dichlorobenzidine	ND	UJ	11	11	ug/L		01/30/25 10:40	01/31/25 20:23	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P93D-ROX-012325

Lab Sample ID: 400-269766-10

Date Collected: 01/23/25 12:50

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/30/25 10:40	01/31/25 20:23	1
Diethyl phthalate	ND		10	4.4	ug/L		01/30/25 10:40	01/31/25 20:23	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 20:23	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/30/25 10:40	01/31/25 20:23	1
Di-n-butyl phthalate	ND UJ		10	4.6	ug/L		01/30/25 10:40	01/31/25 20:23	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/30/25 10:40	01/31/25 20:23	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/30/25 10:40	01/31/25 20:23	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/30/25 10:40	01/31/25 20:23	1
2,6-Dinitrotoluene	ND UJ		10	3.9	ug/L		01/30/25 10:40	01/31/25 20:23	1
Di-n-octyl phthalate	ND UJ		10	6.0	ug/L		01/30/25 10:40	01/31/25 20:23	1
1,4-Dioxane	ND UJ		10	4.3	ug/L		01/30/25 10:40	01/31/25 20:23	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/30/25 10:40	01/31/25 20:23	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/30/25 10:40	01/31/25 20:23	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/30/25 10:40	01/31/25 20:23	1
Hexachloroethane	ND UJ		10	5.2	ug/L		01/30/25 10:40	01/31/25 20:23	1
Indene	ND		10	3.6	ug/L		01/30/25 10:40	01/31/25 20:23	1
Isophorone	ND UJ		10	5.2	ug/L		01/30/25 10:40	01/31/25 20:23	1
2-Methylphenol	ND		10	3.2	ug/L		01/30/25 10:40	01/31/25 20:23	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/30/25 10:40	01/31/25 20:23	1
2-Nitroaniline	ND		10	5.0	ug/L		01/30/25 10:40	01/31/25 20:23	1
3-Nitroaniline	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 20:23	1
4-Nitroaniline	ND		10	4.1	ug/L		01/30/25 10:40	01/31/25 20:23	1
Nitrobenzene	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 20:23	1
2-Nitrophenol	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 20:23	1
4-Nitrophenol	ND		10	3.3	ug/L		01/30/25 10:40	01/31/25 20:23	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/30/25 10:40	01/31/25 20:23	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/30/25 10:40	01/31/25 20:23	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/30/25 10:40	01/31/25 20:23	1
Pentachlorophenol	ND		20	12	ug/L		01/30/25 10:40	01/31/25 20:23	1
Phenol	ND UJ		10	4.2	ug/L		01/30/25 10:40	01/31/25 20:23	1
Pyridine	ND UJ		10	10	ug/L		01/30/25 10:40	01/31/25 20:23	1
Quinoline	ND		10	2.4	ug/L		01/30/25 10:40	01/31/25 20:23	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/30/25 10:40	01/31/25 20:23	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/30/25 10:40	01/31/25 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		21 - 114	01/30/25 10:40	01/31/25 20:23	1
2-Fluorophenol	18		10 - 105	01/30/25 10:40	01/31/25 20:23	1
Nitrobenzene-d5	56		16 - 127	01/30/25 10:40	01/31/25 20:23	1
Phenol-d5	15		10 - 129	01/30/25 10:40	01/31/25 20:23	1
Terphenyl-d14	94		13 - 150	01/30/25 10:40	01/31/25 20:23	1
2,4,6-Tribromophenol	83		10 - 150	01/30/25 10:40	01/31/25 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.086	ug/L		01/28/25 14:13	01/30/25 14:50	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 14:50	1
Anthracene	ND		10	0.074	ug/L		01/28/25 14:13	01/30/25 14:50	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 14:50	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P93D-ROX-012325

Lab Sample ID: 400-269766-10

Date Collected: 01/23/25 12:50

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 14:50	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 14:50	1
Benzo[g,h,i]perylene	ND		10	0.053	ug/L		01/28/25 14:13	01/30/25 14:50	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 14:50	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 14:50	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 14:50	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 14:50	1
Fluorene	ND		10	0.088	ug/L		01/28/25 14:13	01/30/25 14:50	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 14:50	1
1-Methylnaphthalene	ND		10	0.067	ug/L		01/28/25 14:13	01/30/25 14:50	1
2-Methylnaphthalene	ND		10	0.078	ug/L		01/28/25 14:13	01/30/25 14:50	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 14:50	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86		15 - 150	01/28/25 14:13	01/30/25 14:50	1
Nitrobenzene-d5	85		50 - 150	01/28/25 14:13	01/30/25 14:50	1
Terphenyl-d14	93		43 - 147	01/28/25 14:13	01/30/25 14:50	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.031	0.018	ug/L		01/28/25 10:54	01/28/25 19:07	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/28/25 10:54	01/28/25 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	71		51 - 149	01/28/25 10:54	01/28/25 19:07	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P57-ROX-012325

Lab Sample ID: 400-269766-11

Date Collected: 01/23/25 13:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 20:08	1
Acrolein	ND	UJ	20	3.3	ug/L			02/03/25 20:08	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 20:08	1
Benzene	100		1.0	0.50	ug/L			02/03/25 20:08	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 20:08	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 20:08	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 20:08	1
Bromoform	ND	UJ	5.0	0.25	ug/L			02/03/25 20:08	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 20:08	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 20:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 20:08	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 20:08	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 20:08	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			02/03/25 20:08	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 20:08	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 20:08	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 20:08	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 20:08	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 20:08	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 20:08	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 20:08	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 20:08	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 20:08	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 20:08	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 20:08	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 20:08	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 20:08	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 20:08	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 20:08	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 20:08	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 20:08	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 20:08	1
Ethylbenzene	4.5		1.0	0.50	ug/L			02/03/25 20:08	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 20:08	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 20:08	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 20:08	1
Isopropylbenzene	43		1.0	0.53	ug/L			02/03/25 20:08	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 20:08	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 20:08	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 20:08	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 20:08	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 20:08	1
Naphthalene	32		5.0	3.0	ug/L			02/03/25 20:08	1
n-Butylbenzene	5.9		1.0	0.76	ug/L			02/03/25 20:08	1
N-Propylbenzene	54		1.0	0.69	ug/L			02/03/25 20:08	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 20:08	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 20:08	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 20:08	1
p-Isopropyltoluene	0.88	J	1.0	0.71	ug/L			02/03/25 20:08	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P57-ROX-012325

Lab Sample ID: 400-269766-11

Date Collected: 01/23/25 13:45

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	11		1.0	0.70	ug/L			02/03/25 20:08	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 20:08	1
tert-Butylbenzene	12		1.0	0.63	ug/L			02/03/25 20:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 20:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 20:08	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 20:08	1
Toluene	5.8		1.0	0.90	ug/L			02/03/25 20:08	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 20:08	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 20:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 20:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 20:08	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 20:08	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 20:08	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 20:08	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 20:08	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 20:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 20:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 20:08	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 20:08	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/03/25 20:08	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/03/25 20:08	1
Dibromofluoromethane	96		79 - 130		02/03/25 20:08	1
Toluene-d8 (Surr)	100		64 - 132		02/03/25 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.5	8.3	ug/L		01/30/25 10:40	01/31/25 20:48	1
Benzenethiol	ND		9.5	9.4	ug/L		01/30/25 10:40	01/31/25 20:48	1
Benzoic acid	ND		29	23	ug/L		01/30/25 10:40	01/31/25 20:48	1
Benzyl alcohol	ND	UJ	9.5	6.9	ug/L		01/30/25 10:40	01/31/25 20:48	1
Bis(2-chloroethoxy)methane	ND	UJ	9.5	4.4	ug/L		01/30/25 10:40	01/31/25 20:48	1
Bis(2-chloroethyl)ether	ND	UJ	9.5	3.7	ug/L		01/30/25 10:40	01/31/25 20:48	1
bis (2-chloroisopropyl) ether	ND	UJ	9.5	1.7	ug/L		01/30/25 10:40	01/31/25 20:48	1
Bis(2-ethylhexyl) phthalate	ND	UJ	9.5	8.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
4-Bromophenyl phenyl ether	ND		9.5	8.2	ug/L		01/30/25 10:40	01/31/25 20:48	1
Butyl benzyl phthalate	ND	UJ	9.5	5.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
4-Chloroaniline	ND		9.5	4.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
4-Chloro-3-methylphenol	ND	UJ	9.5	5.0	ug/L		01/30/25 10:40	01/31/25 20:48	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		01/30/25 10:40	01/31/25 20:48	1
2-Chlorophenol	ND	UJ	9.5	3.9	ug/L		01/30/25 10:40	01/31/25 20:48	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
Dibenz[a,h]acridine	ND		9.5	2.7	ug/L		01/30/25 10:40	01/31/25 20:48	1
Dibenzofuran	ND		9.5	3.8	ug/L		01/30/25 10:40	01/31/25 20:48	1
3,3'-Dichlorobenzidine	ND	UJ	10	10	ug/L		01/30/25 10:40	01/31/25 20:48	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		01/30/25 10:40	01/31/25 20:48	1
Diethyl phthalate	ND		9.5	4.2	ug/L		01/30/25 10:40	01/31/25 20:48	1
2,4-Dimethylphenol	ND		9.5	4.9	ug/L		01/30/25 10:40	01/31/25 20:48	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P57-ROX-012325

Lab Sample ID: 400-269766-11

Date Collected: 01/23/25 13:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.5	4.0	ug/L		01/30/25 10:40	01/31/25 20:48	1
Di-n-butyl phthalate	ND	UJ	9.5	4.4	ug/L		01/30/25 10:40	01/31/25 20:48	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/30/25 10:40	01/31/25 20:48	1
2,4-Dinitrotoluene	ND		9.5	4.9	ug/L		01/30/25 10:40	01/31/25 20:48	1
2,6-Dinitrotoluene	ND	UJ	9.5	3.7	ug/L		01/30/25 10:40	01/31/25 20:48	1
Di-n-octyl phthalate	ND	UJ	9.5	5.7	ug/L		01/30/25 10:40	01/31/25 20:48	1
1,4-Dioxane	ND	UJ	9.5	4.1	ug/L		01/30/25 10:40	01/31/25 20:48	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		01/30/25 10:40	01/31/25 20:48	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		01/30/25 10:40	01/31/25 20:48	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/30/25 10:40	01/31/25 20:48	1
Hexachloroethane	ND	UJ	9.5	4.9	ug/L		01/30/25 10:40	01/31/25 20:48	1
Indene	ND		9.5	3.4	ug/L		01/30/25 10:40	01/31/25 20:48	1
Isophorone	ND	UJ	9.5	4.9	ug/L		01/30/25 10:40	01/31/25 20:48	1
2-Methylphenol	ND		9.5	3.0	ug/L		01/30/25 10:40	01/31/25 20:48	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/30/25 10:40	01/31/25 20:48	1
2-Nitroaniline	ND		9.5	4.8	ug/L		01/30/25 10:40	01/31/25 20:48	1
3-Nitroaniline	ND		9.5	4.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
4-Nitroaniline	ND		9.5	3.9	ug/L		01/30/25 10:40	01/31/25 20:48	1
Nitrobenzene	ND		9.5	4.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
2-Nitrophenol	ND		9.5	4.4	ug/L		01/30/25 10:40	01/31/25 20:48	1
4-Nitrophenol	ND		9.5	3.1	ug/L		01/30/25 10:40	01/31/25 20:48	1
N-Nitrosodimethylamine	ND		9.5	2.1	ug/L		01/30/25 10:40	01/31/25 20:48	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		01/30/25 10:40	01/31/25 20:48	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
Pentachlorophenol	ND		19	11	ug/L		01/30/25 10:40	01/31/25 20:48	1
Phenol	ND	UJ	9.5	4.0	ug/L		01/30/25 10:40	01/31/25 20:48	1
Pyridine	ND	UJ	9.5	9.5	ug/L		01/30/25 10:40	01/31/25 20:48	1
Quinoline	ND		9.5	2.3	ug/L		01/30/25 10:40	01/31/25 20:48	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		01/30/25 10:40	01/31/25 20:48	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		01/30/25 10:40	01/31/25 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		21 - 114	01/30/25 10:40	01/31/25 20:48	1
2-Fluorophenol	17		10 - 105	01/30/25 10:40	01/31/25 20:48	1
Nitrobenzene-d5	56		16 - 127	01/30/25 10:40	01/31/25 20:48	1
Phenol-d5	13		10 - 129	01/30/25 10:40	01/31/25 20:48	1
Terphenyl-d14	86		13 - 150	01/30/25 10:40	01/31/25 20:48	1
2,4,6-Tribromophenol	93		10 - 150	01/30/25 10:40	01/31/25 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.68	J	10	0.086	ug/L		01/28/25 14:13	01/30/25 15:21	1
Acenaphthylene	0.089	J	10	0.048	ug/L		01/28/25 14:13	01/30/25 15:21	1
Anthracene	ND		10	0.074	ug/L		01/28/25 14:13	01/30/25 15:21	1
Benzo[a]anthracene	ND		10	0.041	ug/L		01/28/25 14:13	01/30/25 15:21	1
Benzo[a]pyrene	ND		10	0.046	ug/L		01/28/25 14:13	01/30/25 15:21	1
Benzo[b]fluoranthene	ND		10	0.043	ug/L		01/28/25 14:13	01/30/25 15:21	1
Benzo[g,h,i]perylene	ND		10	0.053	ug/L		01/28/25 14:13	01/30/25 15:21	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P57-ROX-012325

Lab Sample ID: 400-269766-11

Date Collected: 01/23/25 13:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.041	ug/L		01/28/25 14:13	01/30/25 15:21	1
Chrysene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 15:21	1
Dibenz(a,h)anthracene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 15:21	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 15:21	1
Fluorene	0.82	J	10	0.088	ug/L		01/28/25 14:13	01/30/25 15:21	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 15:21	1
1-Methylnaphthalene	28		10	0.067	ug/L		01/28/25 14:13	01/30/25 15:21	1
2-Methylnaphthalene	30		10	0.078	ug/L		01/28/25 14:13	01/30/25 15:21	1
Phenanthrene	0.49	J	10	0.045	ug/L		01/28/25 14:13	01/30/25 15:21	1
Pyrene	ND		10	0.041	ug/L		01/28/25 14:13	01/30/25 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		15 - 150	01/28/25 14:13	01/30/25 15:21	1
Nitrobenzene-d5	76		50 - 150	01/28/25 14:13	01/30/25 15:21	1
Terphenyl-d14	90		43 - 147	01/28/25 14:13	01/30/25 15:21	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/28/25 10:54	01/28/25 19:28	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/28/25 10:54	01/28/25 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	78		51 - 149	01/28/25 10:54	01/28/25 19:28	1

Definitions/Glossary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-269766-1	TB-ROX-012325-8260-A	102	96	100
400-269766-3	MW13-ROX-012325	103	95	101
400-269766-4	MW13-ROX-012325-DUP	102	95	100
400-269766-5	P114R-ROX-012325	104	96	101
400-269766-6	TB-TOX-012325-8260-B	102	95	100
400-269766-8	P56-ROX-012325-EB	102	94	101
400-269766-9	P56-ROX-012325	102	100	100
400-269766-9 - DL	P56-ROX-012325	101	97	101
400-269766-10	P93D-ROX-012325	102	94	101
400-269766-10	P93D-ROX-012325	101	95	100
400-269766-11	P57-ROX-012325	103	96	100
LCS 400-698252/1002	Lab Control Sample	101	98	97
LCS 400-698330/1002	Lab Control Sample	103	98	101
MB 400-698252/4	Method Blank	103	99	97
MB 400-698330/4	Method Blank	104	95	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (21-114)	2FP (10-105)	NBZ (16-127)	PHL (10-129)	TPHL (13-150)	TBP (10-150)
400-269766-3	MW13-ROX-012325	72	38	62	29	90	103
400-269766-4	MW13-ROX-012325-DUP	78	21	67	33	100 *3	109
400-269766-5	P114R-ROX-012325	79	43	69	33	94 *3	114
400-269766-8	P56-ROX-012325-EB	63	19	58	15	90	84
400-269766-9	P56-ROX-012325	60	20	57	14	89	88
400-269766-10	P93D-ROX-012325	59	18	56	15	94	83
400-269766-11	P57-ROX-012325	59	17	56	13	86	93
LCS 400-697974/4-A	Lab Control Sample	70	39	65	27	99	67
LCSD 400-697974/5-A	Lab Control Sample Dup	63	35	62	25	90	62
MB 400-697974/1-A	Method Blank	69	20	62	19	93 *3	41

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: AECOM

Job ID: 400-269766-1

Project/Site: ROXANA QUARTERLY GW 1Q25

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (15-150)	NBZ (50-150)	TPHL (43-147)
400-269766-3	MW13-ROX-012325	91	80	95
400-269766-4	MW13-ROX-012325-DUP	83	73	96
400-269766-5	P114R-ROX-012325	86	79	98
400-269766-8	P56-ROX-012325-EB	98	82	96
400-269766-9	P56-ROX-012325	91	85	77
400-269766-10	P93D-ROX-012325	86	85	93
400-269766-11	P57-ROX-012325	88	76	90
LCS 400-697715/2-A	Lab Control Sample	101	81	100
MB 400-697715/1-A	Method Blank	94	86	99

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (51-149)
400-269766-2	TB-ROX-012325-8011-A	57
400-269766-3	MW13-ROX-012325	59
400-269766-4	MW13-ROX-012325-DUP	54
400-269766-5	P114R-ROX-012325	58
400-269766-7	TB-TOX-012325-8011-B	68
400-269766-8	P56-ROX-012325-EB	58
400-269766-9	P56-ROX-012325	79
400-269766-10	P93D-ROX-012325	71
400-269766-11	P57-ROX-012325	78
LCS 400-697683/2-A	Lab Control Sample	71
LCSD 400-697683/3-A	Lab Control Sample Dup	74
MB 400-697683/1-A	Method Blank	92

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM

Job ID: 400-269766-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: TB-ROX-012325-8260-A

Lab Sample ID: 400-269766-1

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 16:52	BPO	EET PEN

Client Sample ID: TB-ROX-012325-8011-A

Lab Sample ID: 400-269766-2

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			32.2 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 16:18	KR	EET PEN

Client Sample ID: MW13-ROX-012325

Lab Sample ID: 400-269766-3

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 17:16	BPO	EET PEN
Total/NA	Prep	3511			30.2 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 12:17	JAW	EET PEN
Total/NA	Prep	3510C			260.2 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 23:30	S1B	EET PEN
Total/NA	Prep	8011			33.5 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 16:39	KR	EET PEN

Client Sample ID: MW13-ROX-012325-DUP

Lab Sample ID: 400-269766-4

Date Collected: 01/23/25 10:35

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 17:41	BPO	EET PEN
Total/NA	Prep	3511			30.1 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 12:47	JAW	EET PEN
Total/NA	Prep	3510C			261.2 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 23:52	S1B	EET PEN
Total/NA	Prep	8011			31.8 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 17:00	KR	EET PEN

Client Sample ID: P114R-ROX-012325

Lab Sample ID: 400-269766-5

Date Collected: 01/23/25 11:40

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 18:05	BPO	EET PEN
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 13:18	JAW	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P114R-ROX-012325

Lab Sample ID: 400-269766-5

Date Collected: 01/23/25 11:40

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			261 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	02/01/25 00:14	S1B	EET PEN
Total/NA	Prep	8011			31.3 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 17:21	KR	EET PEN

Client Sample ID: TB-TOX-012325-8260-B

Lab Sample ID: 400-269766-6

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 18:30	BPO	EET PEN

Client Sample ID: TB-TOX-012325-8011-B

Lab Sample ID: 400-269766-7

Date Collected: 01/23/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.1 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 17:43	KR	EET PEN

Client Sample ID: P56-ROX-012325-EB

Lab Sample ID: 400-269766-8

Date Collected: 01/23/25 10:25

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 18:54	BPO	EET PEN
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 13:49	JAW	EET PEN
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698106	01/31/25 19:31	S1B	EET PEN
Total/NA	Prep	8011			32.4 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 18:04	KR	EET PEN

Client Sample ID: P56-ROX-012325

Lab Sample ID: 400-269766-9

Date Collected: 01/23/25 11:50

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 19:19	BPO	EET PEN
Total/NA	Analysis	8260D	DL	2	5 mL	5 mL	698330	02/04/25 10:41	WPD	EET PEN
Total/NA	Prep	3511			29.9 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 14:19	JAW	EET PEN
Total/NA	Prep	3510C			253.2 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698106	01/31/25 19:56	S1B	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: P56-ROX-012325

Lab Sample ID: 400-269766-9

Date Collected: 01/23/25 11:50

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			32.8 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 18:25	KR	EET PEN

Client Sample ID: P93D-ROX-012325

Lab Sample ID: 400-269766-10

Date Collected: 01/23/25 12:50

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 19:43	BPO	EET PEN
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 10:17	WPD	EET PEN
Total/NA	Prep	3511			29.7 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 14:50	JAW	EET PEN
Total/NA	Prep	3510C			250.8 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698106	01/31/25 20:23	S1B	EET PEN
Total/NA	Prep	8011			33.4 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 19:07	KR	EET PEN

Client Sample ID: P57-ROX-012325

Lab Sample ID: 400-269766-11

Date Collected: 01/23/25 13:45

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 20:08	BPO	EET PEN
Total/NA	Prep	3511			29.6 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 15:21	JAW	EET PEN
Total/NA	Prep	3510C			262.8 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698106	01/31/25 20:48	S1B	EET PEN
Total/NA	Prep	8011			32 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 19:28	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697683/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 15:14	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697715/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1	0 mL	1.0 mL	697964	01/30/25 10:45	JAW	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697974/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 21:17	S1B	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698252/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 11:09	BPO	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698330/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 07:50	WPD	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697683/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 15:36	KR	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697715/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 11:16	JAW	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697974/4-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 22:24	S1B	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698252/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 09:57	BPO	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698330/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 06:53	WPD	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697683/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 15:57	KR	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697974/5-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697974	01/30/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698145	01/31/25 22:46	S1B	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

GC/MS VOA

Analysis Batch: 698252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-1	TB-ROX-012325-8260-A	Total/NA	Water	8260D	
400-269766-3	MW13-ROX-012325	Total/NA	Water	8260D	
400-269766-4	MW13-ROX-012325-DUP	Total/NA	Water	8260D	
400-269766-5	P114R-ROX-012325	Total/NA	Water	8260D	
400-269766-6	TB-TOX-012325-8260-B	Total/NA	Water	8260D	
400-269766-8	P56-ROX-012325-EB	Total/NA	Water	8260D	
400-269766-9	P56-ROX-012325	Total/NA	Water	8260D	
400-269766-10	P93D-ROX-012325	Total/NA	Water	8260D	
400-269766-11	P57-ROX-012325	Total/NA	Water	8260D	
MB 400-698252/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698252/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 698330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-9 - DL	P56-ROX-012325	Total/NA	Water	8260D	
400-269766-10	P93D-ROX-012325	Total/NA	Water	8260D	
MB 400-698330/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698330/1002	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 697715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-3	MW13-ROX-012325	Total/NA	Water	3511	
400-269766-4	MW13-ROX-012325-DUP	Total/NA	Water	3511	
400-269766-5	P114R-ROX-012325	Total/NA	Water	3511	
400-269766-8	P56-ROX-012325-EB	Total/NA	Water	3511	
400-269766-9	P56-ROX-012325	Total/NA	Water	3511	
400-269766-10	P93D-ROX-012325	Total/NA	Water	3511	
400-269766-11	P57-ROX-012325	Total/NA	Water	3511	
MB 400-697715/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697715/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 697964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-3	MW13-ROX-012325	Total/NA	Water	8270E	697715
400-269766-4	MW13-ROX-012325-DUP	Total/NA	Water	8270E	697715
400-269766-5	P114R-ROX-012325	Total/NA	Water	8270E	697715
400-269766-8	P56-ROX-012325-EB	Total/NA	Water	8270E	697715
400-269766-9	P56-ROX-012325	Total/NA	Water	8270E	697715
400-269766-10	P93D-ROX-012325	Total/NA	Water	8270E	697715
400-269766-11	P57-ROX-012325	Total/NA	Water	8270E	697715
MB 400-697715/1-A	Method Blank	Total/NA	Water	8270E	697715
LCS 400-697715/2-A	Lab Control Sample	Total/NA	Water	8270E	697715

Prep Batch: 697974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-3	MW13-ROX-012325	Total/NA	Water	3510C	
400-269766-4	MW13-ROX-012325-DUP	Total/NA	Water	3510C	
400-269766-5	P114R-ROX-012325	Total/NA	Water	3510C	
400-269766-8	P56-ROX-012325-EB	Total/NA	Water	3510C	

Eurofins Pensacola

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

GC/MS Semi VOA (Continued)

Prep Batch: 697974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-9	P56-ROX-012325	Total/NA	Water	3510C	
400-269766-10	P93D-ROX-012325	Total/NA	Water	3510C	
400-269766-11	P57-ROX-012325	Total/NA	Water	3510C	
MB 400-697974/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-697974/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-697974/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 698106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-8	P56-ROX-012325-EB	Total/NA	Water	8270E	697974
400-269766-9	P56-ROX-012325	Total/NA	Water	8270E	697974
400-269766-10	P93D-ROX-012325	Total/NA	Water	8270E	697974
400-269766-11	P57-ROX-012325	Total/NA	Water	8270E	697974

Analysis Batch: 698145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-3	MW13-ROX-012325	Total/NA	Water	8270E	697974
400-269766-4	MW13-ROX-012325-DUP	Total/NA	Water	8270E	697974
400-269766-5	P114R-ROX-012325	Total/NA	Water	8270E	697974
MB 400-697974/1-A	Method Blank	Total/NA	Water	8270E	697974
LCS 400-697974/4-A	Lab Control Sample	Total/NA	Water	8270E	697974
LCSD 400-697974/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	697974

GC Semi VOA

Prep Batch: 697683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-2	TB-ROX-012325-8011-A	Total/NA	Water	8011	
400-269766-3	MW13-ROX-012325	Total/NA	Water	8011	
400-269766-4	MW13-ROX-012325-DUP	Total/NA	Water	8011	
400-269766-5	P114R-ROX-012325	Total/NA	Water	8011	
400-269766-7	TB-TOX-012325-8011-B	Total/NA	Water	8011	
400-269766-8	P56-ROX-012325-EB	Total/NA	Water	8011	
400-269766-9	P56-ROX-012325	Total/NA	Water	8011	
400-269766-10	P93D-ROX-012325	Total/NA	Water	8011	
400-269766-11	P57-ROX-012325	Total/NA	Water	8011	
MB 400-697683/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-697683/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-697683/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 697712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269766-2	TB-ROX-012325-8011-A	Total/NA	Water	8011	697683
400-269766-3	MW13-ROX-012325	Total/NA	Water	8011	697683
400-269766-4	MW13-ROX-012325-DUP	Total/NA	Water	8011	697683
400-269766-5	P114R-ROX-012325	Total/NA	Water	8011	697683
400-269766-7	TB-TOX-012325-8011-B	Total/NA	Water	8011	697683
400-269766-8	P56-ROX-012325-EB	Total/NA	Water	8011	697683
400-269766-9	P56-ROX-012325	Total/NA	Water	8011	697683
400-269766-10	P93D-ROX-012325	Total/NA	Water	8011	697683
400-269766-11	P57-ROX-012325	Total/NA	Water	8011	697683

Eurofins Pensacola

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

GC Semi VOA (Continued)

Analysis Batch: 697712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-697683/1-A	Method Blank	Total/NA	Water	8011	697683
LCS 400-697683/2-A	Lab Control Sample	Total/NA	Water	8011	697683
LCSD 400-697683/3-A	Lab Control Sample Dup	Total/NA	Water	8011	697683

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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

Lab Sample ID: MB 400-698252/4

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 11:09	1
Acrolein	ND		20	3.3	ug/L			02/03/25 11:09	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 11:09	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 11:09	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 11:09	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Bromoform	ND		5.0	0.25	ug/L			02/03/25 11:09	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 11:09	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 11:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 11:09	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 11:09	1
Chloroethane	ND		1.0	0.76	ug/L			02/03/25 11:09	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 11:09	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 11:09	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 11:09	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 11:09	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 11:09	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 11:09	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 11:09	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 11:09	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 11:09	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 11:09	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 11:09	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 11:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 11:09	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 11:09	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 11:09	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 11:09	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 11:09	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 11:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 11:09	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 11:09	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 11:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 11:09	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 11:09	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 11:09	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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

Lab Sample ID: MB 400-698252/4

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 11:09	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 11:09	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 11:09	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 11:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 11:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 11:09	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 11:09	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 11:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 11:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 11:09	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 11:09	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 11:09	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 11:09	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 11:09	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 11:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 11:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 11:09	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 11:09	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/03/25 11:09	1
Dibromofluoromethane	99		79 - 130		02/03/25 11:09	1
Toluene-d8 (Surr)	97		64 - 132		02/03/25 11:09	1

Lab Sample ID: LCS 400-698252/1002

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	132		ug/L		66	43 - 150
Acrolein	500	386		ug/L		77	38 - 150
Acrylonitrile	500	492		ug/L		98	64 - 142
Benzene	50.0	45.3		ug/L		91	70 - 130
Bromobenzene	50.0	44.5		ug/L		89	70 - 132
Bromochloromethane	50.0	44.0		ug/L		88	70 - 130
Bromodichloromethane	50.0	45.1		ug/L		90	67 - 133
Bromoform	50.0	39.4		ug/L		79	57 - 140
Bromomethane	50.0	33.5		ug/L		67	10 - 150
2-Butanone (MEK)	200	126		ug/L		63	61 - 145
Carbon disulfide	50.0	33.7		ug/L		67	61 - 137
Carbon tetrachloride	50.0	43.0		ug/L		86	61 - 137
Chlorobenzene	50.0	45.1		ug/L		90	70 - 130
Chloroethane	50.0	39.4		ug/L		79	55 - 141
2-Chloroethyl vinyl ether	50.0	41.7		ug/L		83	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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

Lab Sample ID: LCS 400-698252/1002

Matrix: Water

Analysis Batch: 698252

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	46.4		ug/L		93	69 - 130
1-Chlorohexane	50.0	48.6		ug/L		97	69 - 130
Chloromethane	50.0	38.7		ug/L		77	58 - 137
cis-1,2-Dichloroethene	50.0	46.9		ug/L		94	68 - 130
cis-1,3-Dichloropropene	50.0	45.5		ug/L		91	69 - 132
Dibromochloromethane	50.0	43.7		ug/L		87	67 - 135
1,2-Dichlorobenzene	50.0	47.3		ug/L		95	67 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 130
Dichlorodifluoromethane	50.0	29.6		ug/L		59	41 - 146
1,1-Dichloroethane	50.0	46.6		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	42.8		ug/L		86	69 - 130
1,1-Dichloroethene	50.0	42.3		ug/L		85	63 - 134
1,2-Dichloropropane	50.0	47.6		ug/L		95	70 - 130
1,3-Dichloropropane	50.0	45.2		ug/L		90	70 - 130
2,2-Dichloropropane	50.0	43.6		ug/L		87	52 - 135
1,1-Dichloropropene	50.0	43.4		ug/L		87	70 - 130
Ethylbenzene	50.0	47.3		ug/L		95	70 - 130
Ethyl methacrylate	50.0	45.6		ug/L		91	68 - 130
Hexachlorobutadiene	50.0	47.4		ug/L		95	53 - 140
2-Hexanone	200	151		ug/L		75	65 - 137
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 130
Methylene bromide	50.0	45.1		ug/L		90	70 - 130
Methylene Chloride	50.0	42.7		ug/L		85	66 - 135
4-Methyl-2-pentanone (MIBK)	200	180		ug/L		90	69 - 138
Methyl tert-butyl ether	50.0	45.7		ug/L		91	66 - 130
m-Xylene & p-Xylene	50.0	46.2		ug/L		92	70 - 130
Naphthalene	50.0	36.7		ug/L		73	47 - 149
n-Butylbenzene	50.0	52.7		ug/L		105	67 - 130
N-Propylbenzene	50.0	49.6		ug/L		99	70 - 130
o-Chlorotoluene	50.0	49.5		ug/L		99	70 - 130
o-Xylene	50.0	47.1		ug/L		94	70 - 130
p-Chlorotoluene	50.0	47.8		ug/L		96	70 - 130
p-Isopropyltoluene	50.0	49.1		ug/L		98	65 - 130
sec-Butylbenzene	50.0	49.6		ug/L		99	66 - 130
Styrene	50.0	45.8		ug/L		92	70 - 130
tert-Butylbenzene	50.0	48.1		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.1		ug/L		90	67 - 131
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/L		88	70 - 131
Tetrachloroethene	50.0	42.3		ug/L		85	65 - 130
Toluene	50.0	44.2		ug/L		88	70 - 130
trans-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 130
trans-1,3-Dichloropropene	50.0	44.0		ug/L		88	63 - 130
1,2,3-Trichlorobenzene	50.0	41.0		ug/L		82	60 - 138
1,2,4-Trichlorobenzene	50.0	44.6		ug/L		89	60 - 140
1,1,1-Trichloroethane	50.0	44.1		ug/L		88	68 - 130
1,1,2-Trichloroethane	50.0	46.1		ug/L		92	70 - 130
Trichloroethene	50.0	46.1		ug/L		92	70 - 130
Trichlorofluoromethane	50.0	40.5		ug/L		81	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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

Lab Sample ID: LCS 400-698252/1002

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	43.9		ug/L		88	70 - 130
1,2,4-Trimethylbenzene	50.0	47.7		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	69 - 130
Vinyl acetate	100	90.9		ug/L		91	26 - 150
Vinyl chloride	50.0	36.1		ug/L		72	59 - 136
Xylenes, Total	100	93.4		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		56 - 136
Dibromofluoromethane	98		79 - 130
Toluene-d8 (Surr)	97		64 - 132

Lab Sample ID: MB 400-698330/4

Matrix: Water

Analysis Batch: 698330

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.50	ug/L			02/04/25 07:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		56 - 136		02/04/25 07:50	1
Dibromofluoromethane	95		79 - 130		02/04/25 07:50	1
Toluene-d8 (Surr)	101		64 - 132		02/04/25 07:50	1

Lab Sample ID: LCS 400-698330/1002

Matrix: Water

Analysis Batch: 698330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	50.0	51.3		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	98		79 - 130
Toluene-d8 (Surr)	101		64 - 132

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

Lab Sample ID: MB 400-697974/1-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
Benzenethiol	ND		10	9.9	ug/L		01/30/25 10:40	01/31/25 21:17	1
Benzoic acid	ND		30	24	ug/L		01/30/25 10:40	01/31/25 21:17	1
Benzyl alcohol	ND		10	7.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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

Lab Sample ID: MB 400-697974/1-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/30/25 10:40	01/31/25 21:17	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/30/25 10:40	01/31/25 21:17	1
Bis(2-ethylhexyl) phthalate	ND	*3	10	8.9	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
Butyl benzyl phthalate	ND	*3	10	5.8	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Chloroaniline	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Chlorophenol	ND		10	4.1	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/30/25 10:40	01/31/25 21:17	1
Dibenzofuran	ND		10	4.0	ug/L		01/30/25 10:40	01/31/25 21:17	1
3,3'-Dichlorobenzidine	ND	*3	11	11	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
Diethyl phthalate	ND		10	4.4	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/30/25 10:40	01/31/25 21:17	1
Di-n-octyl phthalate	ND	*3	10	6.0	ug/L		01/30/25 10:40	01/31/25 21:17	1
1,4-Dioxane	ND		10	4.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/30/25 10:40	01/31/25 21:17	1
Hexachloroethane	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
Indene	ND		10	3.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
Isophorone	ND		10	5.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Methylphenol	ND		10	3.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Nitroaniline	ND		10	5.0	ug/L		01/30/25 10:40	01/31/25 21:17	1
3-Nitroaniline	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Nitroaniline	ND		10	4.1	ug/L		01/30/25 10:40	01/31/25 21:17	1
Nitrobenzene	ND		10	4.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
2-Nitrophenol	ND		10	4.6	ug/L		01/30/25 10:40	01/31/25 21:17	1
4-Nitrophenol	ND		10	3.3	ug/L		01/30/25 10:40	01/31/25 21:17	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/30/25 10:40	01/31/25 21:17	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/30/25 10:40	01/31/25 21:17	1
Pentachlorophenol	ND		20	12	ug/L		01/30/25 10:40	01/31/25 21:17	1
Phenol	ND		10	4.2	ug/L		01/30/25 10:40	01/31/25 21:17	1
Pyridine	ND		10	10	ug/L		01/30/25 10:40	01/31/25 21:17	1
Quinoline	ND		10	2.4	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/30/25 10:40	01/31/25 21:17	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/30/25 10:40	01/31/25 21:17	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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

Lab Sample ID: MB 400-697974/1-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697974

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		21 - 114	01/30/25 10:40	01/31/25 21:17	1
2-Fluorophenol	20		10 - 105	01/30/25 10:40	01/31/25 21:17	1
Nitrobenzene-d5	62		16 - 127	01/30/25 10:40	01/31/25 21:17	1
Phenol-d5	19		10 - 129	01/30/25 10:40	01/31/25 21:17	1
Terphenyl-d14	93	*3	13 - 150	01/30/25 10:40	01/31/25 21:17	1
2,4,6-Tribromophenol	41		10 - 150	01/30/25 10:40	01/31/25 21:17	1

Lab Sample ID: LCS 400-697974/4-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzenethiol	120	74.3		ug/L		62	10 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	70		21 - 114
2-Fluorophenol	39		10 - 105
Nitrobenzene-d5	65		16 - 127
Phenol-d5	27		10 - 129
Terphenyl-d14	99		13 - 150
2,4,6-Tribromophenol	67		10 - 150

Lab Sample ID: LCSD 400-697974/5-A

Matrix: Water

Analysis Batch: 698145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzenethiol	120	72.5		ug/L		60	10 - 140	2	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	63		21 - 114
2-Fluorophenol	35		10 - 105
Nitrobenzene-d5	62		16 - 127
Phenol-d5	25		10 - 129
Terphenyl-d14	90		13 - 150
2,4,6-Tribromophenol	62		10 - 150

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

Lab Sample ID: MB 400-697715/1-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 10:45	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 10:45	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269766-1

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

Lab Sample ID: MB 400-697715/1-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 10:45	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 10:45	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 10:45	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 10:45	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 10:45	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 10:45	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 10:45	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 10:45	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/28/25 14:13	01/30/25 10:45	1
Nitrobenzene-d5	86		50 - 150	01/28/25 14:13	01/30/25 10:45	1
Terphenyl-d14	99		43 - 147	01/28/25 14:13	01/30/25 10:45	1

Lab Sample ID: LCS 400-697715/2-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	3.20	J	ug/L		96	50 - 150
Acenaphthylene	3.34	3.30	J	ug/L		99	50 - 150
Anthracene	3.34	3.65	J	ug/L		110	50 - 150
Benzo[a]anthracene	3.34	3.35	J	ug/L		100	50 - 150
Benzo[a]pyrene	3.34	3.39	J	ug/L		102	50 - 150
Benzo[b]fluoranthene	3.34	3.38	J	ug/L		101	50 - 150
Benzo[g,h,i]perylene	3.34	3.35	J	ug/L		100	50 - 150
Benzo[k]fluoranthene	3.34	3.41	J	ug/L		102	50 - 150
Chrysene	3.34	3.86	J	ug/L		116	50 - 150
Dibenz(a,h)anthracene	3.34	3.33	J	ug/L		100	50 - 150
Fluoranthene	3.34	3.46	J	ug/L		104	50 - 150
Fluorene	3.34	3.49	J	ug/L		105	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.68	J	ug/L		110	50 - 150
1-Methylnaphthalene	3.34	3.10	J	ug/L		93	50 - 150
2-Methylnaphthalene	3.34	3.00	J	ug/L		90	50 - 150
Phenanthrene	3.34	3.49	J	ug/L		105	50 - 150
Pyrene	3.34	3.55	J	ug/L		107	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	101		15 - 150
Nitrobenzene-d5	81		50 - 150
Terphenyl-d14	100		43 - 147

QC Sample Results

Client: AECOM

Job ID: 400-269766-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-697683/1-A

Matrix: Water

Analysis Batch: 697712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/28/25 10:54	01/28/25 15:14	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/28/25 10:54	01/28/25 15:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		51 - 149				01/28/25 10:54	01/28/25 15:14	1

Lab Sample ID: LCS 400-697683/2-A

Matrix: Water

Analysis Batch: 697712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.101	0.0637		ug/L		63	60 - 140
1,2-Dibromoethane	0.100	0.0924		ug/L		92	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	71		51 - 149				

Lab Sample ID: LCSD 400-697683/3-A

Matrix: Water

Analysis Batch: 697712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.101	0.0654		ug/L		65	60 - 140	5	30
1,2-Dibromoethane	0.100	0.0910		ug/L		91	60 - 140	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	74		51 - 149						

LAB (LOCATION)

☐ ACUTEST ()
☐ CALSCIENCE ()
☒ TESTAMERICA (TestAmerica Pensacola: 3355 McLemore Dr., Pensacola, FL 32514 (850-474-1001))
☐ Other ()

Lab Vendor # 1364589 (TestAmerica)

Please Check Appropriate Box:

☐ GOW FDG ☐ PIPELINE ☐ RETAIL
☐ CHEMICALS ☐ CONSULTANT ☐ LUBES
☐ TRANSPORTATION ☒ OTHER ENV. SERVICES

LOG CODE:

BILL TO CONTACT E-MAIL: melissa.remiger@aecom.com

RESULTS NEEDED ON WEEKEND ☐

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY) ☐ DAYS ☐ DAYS ☐ DAYSLA - RIWQCB REPORT FORMAT ☒DELIVERABLES: ☐ LEVEL 1 ☒ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

Email reports to: melissa.remiger@aecom.com;

mary.massa@aecom.com; brett.howell@aecom.com

* Include "J" values on Reports.

* Provide sample receipt upon login.

* Send EQUIS EDDs to EDDSubmissions@aecomshell.com;

Vlad.Virjan@aecom.com

LAB USE ONLY

FIELD SAMPLE IDENTIFICATION

DATE

TIME

SAMPLING

MATRIX

PRESERVATIVE

HCL HNO3 H2SO4 NONE OTHER

NO. OF CONT.

OTHER

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Shell Oil Products US Chain Of Custody Record

AECOM

Print Bill To Contact Name: Melissa Remiger

Planet Site or Project ID: 25278

DATE: 1/23/2025

PAGE: 1 of 2

GSAP Project ID: USPC00114/R02

AECOM Project / Task Number: Roxana Quarterly GW 60738191 - 3.1.2

E-MAIL: melissa.remiger@aecom.com

AECOM Other ID: Roxana 1Q25 Groundwater

SITE ADDRESS: Street and City: 900 South Central Ave, ROXANA

STATE: IL

PHONE NO.: 314-502-1207

EDF DELIVERABLE TO (Name, Company, Office Location): Melissa Remiger - please see special instructions

SAMPLER NAME(S) (Print): S. McLean, M. Massa

LAB USE ONLY

FIELD NOTES:

REQUESTED ANALYSIS: 60738191 - 3.1.2

TEMPERATURE ON RECEIPT C°

400-269766 COC

8011 EDB + DBCP

SVOC 8270

PAH 8270 SIMS

VOC 8260

X

X

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Received by: (Signature)

CUSTODY SEALS: 2648219, 2648218, 2648221, 2648220

Version: 19Sep24

☐ ACCUTEST (_____)
☐ FALSCIENCE (_____)
TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Pensacola, FL 32514 (850-474-1001))
☐ Other (_____)



Shell Oil Products US Chain Of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-269766-1

Login Number: 269766

List Source: Eurofins Pensacola

List Number: 1

Creator: Beecher (Roberts), Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C, 0.0°C IR8
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 containers received 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.	False	1 Container for sample 3 was received broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-269766-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269771-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/4/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/14/2025

Stage 2A Validation																																								
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																																			
		Pass	Fail ¹	N/A																																				
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X																																						
The laboratory case narrative indicated that two preserved VOA vials, for sample P74-ROX-012425 and sample T12-ROX-012425, were received broken. No data qualifying action was required.																																								
Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.																																								
Holding Times	Analyses were performed within holding time.	X																																						
Surrogate	Surrogate recoveries met acceptance criteria.	X																																						
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.		X																																					
<table><tr><th>Field ID</th><th>Field Duplicate ID</th><th>Parameter</th><th>Analyte</th><th>RPD</th></tr><tr><td>P59-ROX-012425</td><td>P59-ROX-012425 -DUP</td><td>VOCs</td><td>Benzene</td><td>56</td></tr><tr><td>P59-ROX-012425</td><td>P59-ROX-012425 -DUP</td><td>VOCs</td><td>Ethylbenzene</td><td>58</td></tr><tr><td>P59-ROX-012425</td><td>P59-ROX-012425 -DUP</td><td>VOCs</td><td>Toluene</td><td>40</td></tr><tr><td>P59-ROX-012425</td><td>P59-ROX-012425 -DUP</td><td>VOCs</td><td>Xylenes, Total</td><td>43</td></tr><tr><td>P59-ROX-012425</td><td>P59-ROX-012425 -DUP</td><td>VOCs</td><td>m,p-Xylene</td><td>42</td></tr><tr><td>P59-ROX-012425</td><td>P59-ROX-012425 -DUP</td><td>VOCs</td><td>Naphthalene</td><td>>2X RL</td></tr></table>						Field ID	Field Duplicate ID	Parameter	Analyte	RPD	P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Benzene	56	P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Ethylbenzene	58	P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Toluene	40	P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Xylenes, Total	43	P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	m,p-Xylene	42	P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Naphthalene	>2X RL
Field ID	Field Duplicate ID	Parameter	Analyte	RPD																																				
P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Benzene	56																																				
P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Ethylbenzene	58																																				
P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Toluene	40																																				
P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Xylenes, Total	43																																				
P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	m,p-Xylene	42																																				
P59-ROX-012425	P59-ROX-012425 -DUP	VOCs	Naphthalene	>2X RL																																				
Method 8260D (VOCs) Several analytes in field duplicate pair P59-ROX-012425/ P59-ROX-012425 -DUP were qualified as estimated (J).																																								
Matrix Spike	MS recoveries met acceptance criteria.			X																																				
Laboratory Control Spike	LCS was performed at the required frequency and		X																																					

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation																																			
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																														
		Pass	Fail ¹	N/A																															
	LCS recoveries met acceptance criteria.																																		
<table border="1"> <thead> <tr> <th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr> </thead> <tbody> <tr> <td>LCS/LCSD 400-698112//2-A/3-A</td><td>SVOCs</td><td>Aniline</td><td>20/37</td><td>61</td><td>10-127/40</td></tr> <tr> <td>LCS/LCSD 400-698112//2-A/3-A</td><td>SVOCs</td><td>3,3'-Dichlorobenzidine</td><td>156/167</td><td>7</td><td>10-150/40</td></tr> <tr> <td>LCS/LCSD 400-698112//2-A/3-A</td><td>SVOCs</td><td>1,4-Dioxane</td><td>34/14</td><td>81</td><td>10-87/40</td></tr> <tr> <td>LCS/LCSD 400-698112//2-A/3-A</td><td>SVOCs</td><td>Pyridine</td><td>7/18</td><td>95</td><td>10-82/40</td></tr> </tbody> </table> Analytical data that required qualification based on LCS/LCSD data are referenced below. Analytical data reported as non-detect and associated with LCS/LCSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPD alone outside evaluation criteria did not require qualification. Method 8270E (SVOCs) Professional judgment was used to qualify, however not reject, data associated with pyridine below evaluation criteria; pyridine has been identified as a poor-performing analyte under Method 8270. Pyridine in samples MW14-ROX-012425, MW2-ROX-012425, MW22-ROX-012425, P59-ROX-012425, P59-ROX-012425-DUP, P74-ROX-012425, and T12-ROX-012425 was qualified as estimated (UJ). Equipment blanks are quality control samples that do not require qualification.						LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS/LCSD 400-698112//2-A/3-A	SVOCs	Aniline	20/37	61	10-127/40	LCS/LCSD 400-698112//2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	156/167	7	10-150/40	LCS/LCSD 400-698112//2-A/3-A	SVOCs	1,4-Dioxane	34/14	81	10-87/40	LCS/LCSD 400-698112//2-A/3-A	SVOCs	Pyridine	7/18	95	10-82/40
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria																														
LCS/LCSD 400-698112//2-A/3-A	SVOCs	Aniline	20/37	61	10-127/40																														
LCS/LCSD 400-698112//2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	156/167	7	10-150/40																														
LCS/LCSD 400-698112//2-A/3-A	SVOCs	1,4-Dioxane	34/14	81	10-87/40																														
LCS/LCSD 400-698112//2-A/3-A	SVOCs	Pyridine	7/18	95	10-82/40																														
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X																																	
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X																																	
Detection Limits ²	No results were reported as non-detect at elevated detection limits.		X		Analytes were detected in samples that were diluted.																														
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X																																	
Usability	No results qualified as unusable.	X																																	
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.																														

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method		X		



Analytical data reported as non-detect and associated with ICV/CCV %D recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Method 8270E (SVOCs)

The continuing calibration verification (CCV) for aniline was outside evaluation criteria, biased low. The associated results for samples P59-ROX-012425, P59-ROX-012425-DUP, P74-ROX-012425, and T12-ROX-012425 were qualified as estimated (UJ).

Method 8011(VOCs by 8011)

The continuing calibration verification (CCV) for 1,2-dibromo-3-chloropropane was outside evaluation criteria, biased low. The associated results for samples MW14-ROX-012425, MW2-ROX-012425, MW22-ROX-012425, P59-ROX-012425, and P59-ROX-012425-DUP were qualified as estimated (UJ).

Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

	and agree with the criteria in the analytical method				

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.



ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/7/2025 7:38:55 AM

JOB DESCRIPTION

ROXANA QUARTERLY GW 1Q25

JOB NUMBER

400-269771-1

Reviewed 03/04/2025
VA

Eurofins Pensacola

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 Southeast, LLC Project Manager.

Authorization



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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Job ID: 400-269771-1

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Job Narrative 400-269771-1

Receipt

The samples were received on 1/25/2025 8:22 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.0° C, 0.0° C and 0.0° C.

Receipt Exceptions

Both samples have 2 40mL HCl VOAs arrive broken each.

GC/MS VOA

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid : TB-ROX-012425-8260-A (400-269771-1), MW14-ROX-012425-EB (400-269771-3), MW14-ROX-012425 (400-269771-4), MW2-ROX-012425 (400-269771-5), MW22-ROX-012425 (400-269771-6), TB-ROX-012425-8260-B (400-269771-7), P59-ROX-012425 (400-269771-9), P59-ROX-012425-DUP (400-269771-10), P74-ROX-012425 (400-269771-11) and T12-ROX-012425 (400-269771-12). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and acrylonitrile, which are acid-labile compounds that degrades in an acidic medium.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 400-698330 was outside control limits. Sample matrix interference is suspected.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW22-ROX-012425 (400-269771-6), P74-ROX-012425 (400-269771-11) and T12-ROX-012425 (400-269771-12). Elevated reporting limits (RLs) are provided.

Method 8260D: One of three surrogate recoveries for the matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 400-698458 were outside control limits. All of the target analytes are within acceptance limits. Therefore, the data is reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW22-ROX-012425 (400-269771-6), P59-ROX-012425-DUP (400-269771-10), P74-ROX-012425 (400-269771-11) and T12-ROX-012425 (400-269771-12). Elevated reporting limits (RLs) are provided.

Method 8260D: The initial calibration verification (ICV) analyzed in batch 400-696561 was outside method criteria for the following analyte(s): Chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The following samples are duplicates: P59-ROX-012425 (400-269771-9) and P59-ROX-012425-DUP (400-269771-10). The results, however, do not agree for some analytes. Reanalysis was performed with concurring results.

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

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698373 recovered above the upper control limit for Bis(2-chloroethyl)ether and 4,6-Dinitro-ortho-cresol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698373 recovered above the upper control limit for Benzenethiol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The laboratory control sample (LCS) for preparation batch 400-698112 and analytical batch 400-698373 recovered outside control limits for the following analyte(s): 3,3'-Dichlorobenzidine and Pyridine. 3,3'-Dichlorobenzidine and Pyridine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E: The laboratory control sample duplicate (LCSD) for preparation batch 400-698112 and analytical batch 400-698373 recovered outside control limits for the following analyte(s): 3,3'-Dichlorobenzidine. 3,3'-Dichlorobenzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Job ID: 400-269771-1 (Continued)

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Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-698112 and analytical batch 400-698373 recovered outside control limits for the following analytes: 1,4-Dioxane, Pyridine and Aniline.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698480 recovered above the upper control limit for Bis(2-chloroethyl)ether and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698480 recovered above the upper control limit for Benzenethiol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698480 recovered outside acceptance criteria, low biased, for Aniline. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-694707 was outside method criteria for the following analyte(s): 3,3'-Dichlorobenzidine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

GC Semi VOA

Method 8011: The continuing calibration verification (CCV) associated with batch 400-697712 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269771-1	TB-ROX-012425-8260-A	Water	01/24/25 00:00	01/25/25 08:22
400-269771-2	TB-ROX-012425-8011-A	Water	01/24/25 00:00	01/25/25 08:22
400-269771-3	MW14-ROX-012425-EB	Water	01/24/25 09:25	01/25/25 08:22
400-269771-4	MW14-ROX-012425	Water	01/24/25 11:25	01/25/25 08:22
400-269771-5	MW2-ROX-012425	Water	01/24/25 13:25	01/25/25 08:22
400-269771-6	MW22-ROX-012425	Water	01/24/25 14:25	01/25/25 08:22
400-269771-7	TB-ROX-012425-8260-B	Water	01/24/25 00:00	01/25/25 08:22
400-269771-8	TB-ROX-012425-8011-B	Water	01/24/25 00:00	01/25/25 08:22
400-269771-9	P59-ROX-012425	Water	01/24/25 10:05	01/25/25 08:22
400-269771-10	P59-ROX-012425-DUP	Water	01/24/25 10:05	01/25/25 08:22
400-269771-11	P74-ROX-012425	Water	01/24/25 11:45	01/25/25 08:22
400-269771-12	T12-ROX-012425	Water	01/24/25 13:05	01/25/25 08:22

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: TB-ROX-012425-8260-A

Lab Sample ID: 400-269771-1

No Detections.

Client Sample ID: TB-ROX-012425-8011-A

Lab Sample ID: 400-269771-2

No Detections.

Client Sample ID: MW14-ROX-012425-EB

Lab Sample ID: 400-269771-3

No Detections.

Client Sample ID: MW14-ROX-012425

Lab Sample ID: 400-269771-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.8		1.0	0.50	ug/L	1		8260D	Total/NA
Isopropylbenzene	0.69	J	1.0	0.53	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	0.070	J	10	0.067	ug/L	1		8270E	Total/NA

Client Sample ID: MW2-ROX-012425

Lab Sample ID: 400-269771-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.7		1.0	0.50	ug/L	1		8260D	Total/NA
Ethylbenzene	110		1.0	0.50	ug/L	1		8260D	Total/NA
Isopropylbenzene	47		1.0	0.53	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	53		5.0	3.0	ug/L	1		8260D	Total/NA
Naphthalene	14		5.0	3.0	ug/L	1		8260D	Total/NA
n-Butylbenzene	4.6		1.0	0.76	ug/L	1		8260D	Total/NA
N-Propylbenzene	70		1.0	0.69	ug/L	1		8260D	Total/NA
o-Xylene	5.8		5.0	3.0	ug/L	1		8260D	Total/NA
p-Isopropyltoluene	3.8		1.0	0.71	ug/L	1		8260D	Total/NA
sec-Butylbenzene	6.1		1.0	0.70	ug/L	1		8260D	Total/NA
Toluene	2.2		1.0	0.90	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene	16		1.0	0.82	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	20		1.0	0.56	ug/L	1		8260D	Total/NA
Xylenes, Total	59		10	6.0	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	8.5	J	10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	14		10	0.077	ug/L	1		8270E	Total/NA

Client Sample ID: MW22-ROX-012425

Lab Sample ID: 400-269771-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	53		2.0	1.0	ug/L	2		8260D	Total/NA
Isopropylbenzene	86		2.0	1.1	ug/L	2		8260D	Total/NA
Naphthalene	190		10	6.0	ug/L	2		8260D	Total/NA
n-Butylbenzene	11		2.0	1.5	ug/L	2		8260D	Total/NA
N-Propylbenzene	150		2.0	1.4	ug/L	2		8260D	Total/NA
p-Isopropyltoluene	3.4		2.0	1.4	ug/L	2		8260D	Total/NA
sec-Butylbenzene	7.2		2.0	1.4	ug/L	2		8260D	Total/NA
tert-Butylbenzene	11		2.0	1.3	ug/L	2		8260D	Total/NA
Toluene	84		2.0	1.8	ug/L	2		8260D	Total/NA
1,2,4-Trimethylbenzene	220		2.0	1.6	ug/L	2		8260D	Total/NA
1,3,5-Trimethylbenzene	110		2.0	1.1	ug/L	2		8260D	Total/NA
Ethylbenzene - DL	830		10	5.0	ug/L	10		8260D	Total/NA
m-Xylene & p-Xylene - DL	1400		50	30	ug/L	10		8260D	Total/NA
o-Xylene - DL	78		50	30	ug/L	10		8260D	Total/NA
Xylenes, Total - DL	1500		100	60	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW22-ROX-012425 (Continued)

Lab Sample ID: 400-269771-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dimethylphenol	5.9	J	9.3	4.9	ug/L	1		8270E	Total/NA
Acenaphthene	0.10	J	9.9	0.084	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	23		9.9	0.065	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	38		9.9	0.076	ug/L	1		8270E	Total/NA
Phenanthrene	0.048	J	9.9	0.044	ug/L	1		8270E	Total/NA

Client Sample ID: TB-ROX-012425-8260-B

Lab Sample ID: 400-269771-7

No Detections.

Client Sample ID: TB-ROX-012425-8011-B

Lab Sample ID: 400-269771-8

No Detections.

Client Sample ID: P59-ROX-012425

Lab Sample ID: 400-269771-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	33		25	10	ug/L	1		8260D	Total/NA
Benzene	230	J	1.0	0.50	ug/L	1		8260D	Total/NA
Ethylbenzene	88	J	1.0	0.50	ug/L	1		8260D	Total/NA
Isopropylbenzene	28		1.0	0.53	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	190	J	5.0	3.0	ug/L	1		8260D	Total/NA
Naphthalene	24	J	5.0	3.0	ug/L	1		8260D	Total/NA
n-Butylbenzene	3.1		1.0	0.76	ug/L	1		8260D	Total/NA
N-Propylbenzene	40		1.0	0.69	ug/L	1		8260D	Total/NA
o-Xylene	11		5.0	3.0	ug/L	1		8260D	Total/NA
sec-Butylbenzene	1.9		1.0	0.70	ug/L	1		8260D	Total/NA
Toluene	60	J	1.0	0.90	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene	170		1.0	0.82	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	43		1.0	0.56	ug/L	1		8260D	Total/NA
Xylenes, Total	200	J	10	6.0	ug/L	1		8260D	Total/NA
Phenol	5.0	J	10	4.4	ug/L	1		8270E	Total/NA
Acenaphthene	0.64	J	10	0.086	ug/L	1		8270E	Total/NA
Anthracene	0.086	J	10	0.073	ug/L	1		8270E	Total/NA
Fluoranthene	0.086	J	10	0.032	ug/L	1		8270E	Total/NA
Fluorene	0.30	J	10	0.088	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	18		10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	25		10	0.078	ug/L	1		8270E	Total/NA
Phenanthrene	0.55	J	10	0.044	ug/L	1		8270E	Total/NA
Pyrene	0.20	J	10	0.040	ug/L	1		8270E	Total/NA

Client Sample ID: P59-ROX-012425-DUP

Lab Sample ID: 400-269771-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	34		25	10	ug/L	1		8260D	Total/NA
Ethylbenzene	160	J	1.0	0.50	ug/L	1		8260D	Total/NA
Isopropylbenzene	34		1.0	0.53	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	290	J	5.0	3.0	ug/L	1		8260D	Total/NA
Naphthalene	37	J	5.0	3.0	ug/L	1		8260D	Total/NA
n-Butylbenzene	3.7		1.0	0.76	ug/L	1		8260D	Total/NA
N-Propylbenzene	50		1.0	0.69	ug/L	1		8260D	Total/NA
o-Xylene	14		5.0	3.0	ug/L	1		8260D	Total/NA
sec-Butylbenzene	2.2		1.0	0.70	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425-DUP (Continued)

Lab Sample ID: 400-269771-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	90	J	1.0	0.90	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene	210		1.0	0.82	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	50		1.0	0.56	ug/L	1		8260D	Total/NA
Xylenes, Total	310	J	10	6.0	ug/L	1		8260D	Total/NA
Benzene - DL	410	J	2.0	1.0	ug/L	2		8260D	Total/NA
Phenol	4.3	J	10	4.3	ug/L	1		8270E	Total/NA
Acenaphthene	0.57	J	10	0.086	ug/L	1		8270E	Total/NA
Fluoranthene	0.071	J	10	0.032	ug/L	1		8270E	Total/NA
Fluorene	0.26	J	10	0.088	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	17		10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	25		10	0.078	ug/L	1		8270E	Total/NA
Phenanthrene	0.50	J	10	0.044	ug/L	1		8270E	Total/NA
Pyrene	0.15	J	10	0.040	ug/L	1		8270E	Total/NA

Client Sample ID: P74-ROX-012425

Lab Sample ID: 400-269771-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	52		10	5.0	ug/L	10		8260D	Total/NA
m-Xylene & p-Xylene	94		50	30	ug/L	10		8260D	Total/NA
Toluene	60		10	9.0	ug/L	10		8260D	Total/NA
1,2,4-Trimethylbenzene	20		10	8.2	ug/L	10		8260D	Total/NA
1,3,5-Trimethylbenzene	8.3	J	10	5.6	ug/L	10		8260D	Total/NA
Xylenes, Total	99	J	100	60	ug/L	10		8260D	Total/NA
Benzene - DL	3500		20	10	ug/L	20		8260D	Total/NA
Phenol	55		10	4.2	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	0.66	J	10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.61	J	10	0.077	ug/L	1		8270E	Total/NA

Client Sample ID: T12-ROX-012425

Lab Sample ID: 400-269771-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	180		5.0	2.5	ug/L	5		8260D	Total/NA
Isopropylbenzene	28		5.0	2.7	ug/L	5		8260D	Total/NA
m-Xylene & p-Xylene	710		25	15	ug/L	5		8260D	Total/NA
Naphthalene	69		25	15	ug/L	5		8260D	Total/NA
N-Propylbenzene	48		5.0	3.5	ug/L	5		8260D	Total/NA
o-Xylene	100		25	15	ug/L	5		8260D	Total/NA
Toluene	230		5.0	4.5	ug/L	5		8260D	Total/NA
1,2,4-Trimethylbenzene	37		5.0	4.1	ug/L	5		8260D	Total/NA
1,3,5-Trimethylbenzene	39		5.0	2.8	ug/L	5		8260D	Total/NA
Xylenes, Total	820		50	30	ug/L	5		8260D	Total/NA
Benzene - DL	1800		10	5.0	ug/L	10		8260D	Total/NA
2,4-Dimethylphenol	6.2	J	10	5.2	ug/L	1		8270E	Total/NA
Phenol	25		10	4.2	ug/L	1		8270E	Total/NA
Acenaphthene	0.36	J	9.9	0.084	ug/L	1		8270E	Total/NA
Anthracene	0.076	J	9.9	0.072	ug/L	1		8270E	Total/NA
Fluorene	0.29	J	9.9	0.086	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	23		9.9	0.065	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	39		9.9	0.076	ug/L	1		8270E	Total/NA
Phenanthrene	0.57	J	9.9	0.044	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: TB-ROX-012425-8260-A

Lab Sample ID: 400-269771-1

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/04/25 13:07	1
Acrolein	ND		20	3.3	ug/L			02/04/25 13:07	1
Acrylonitrile	ND		10	2.8	ug/L			02/04/25 13:07	1
Benzene	ND		1.0	0.50	ug/L			02/04/25 13:07	1
Bromobenzene	ND		1.0	0.54	ug/L			02/04/25 13:07	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/04/25 13:07	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/04/25 13:07	1
Bromoform	ND		5.0	0.25	ug/L			02/04/25 13:07	1
Bromomethane	ND		1.0	0.98	ug/L			02/04/25 13:07	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/04/25 13:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/04/25 13:07	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/04/25 13:07	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/04/25 13:07	1
Chloroethane	ND		1.0	0.76	ug/L			02/04/25 13:07	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/04/25 13:07	1
Chloroform	ND		1.0	0.90	ug/L			02/04/25 13:07	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/04/25 13:07	1
Chloromethane	ND		1.0	0.40	ug/L			02/04/25 13:07	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/04/25 13:07	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/04/25 13:07	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/04/25 13:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/04/25 13:07	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/04/25 13:07	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/04/25 13:07	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/04/25 13:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/04/25 13:07	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/04/25 13:07	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 13:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:07	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/04/25 13:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/04/25 13:07	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/04/25 13:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/04/25 13:07	1
2-Hexanone	ND		25	4.3	ug/L			02/04/25 13:07	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/04/25 13:07	1
Methylene bromide	ND		5.0	0.22	ug/L			02/04/25 13:07	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/04/25 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/04/25 13:07	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/04/25 13:07	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/04/25 13:07	1
Naphthalene	ND		5.0	3.0	ug/L			02/04/25 13:07	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/04/25 13:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/04/25 13:07	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/04/25 13:07	1
o-Xylene	ND		5.0	3.0	ug/L			02/04/25 13:07	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/04/25 13:07	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/04/25 13:07	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: TB-ROX-012425-8260-A

Lab Sample ID: 400-269771-1

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/04/25 13:07	1
Styrene	ND		1.0	1.0	ug/L			02/04/25 13:07	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/04/25 13:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/04/25 13:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/04/25 13:07	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/04/25 13:07	1
Toluene	ND		1.0	0.90	ug/L			02/04/25 13:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 13:07	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/04/25 13:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/04/25 13:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/04/25 13:07	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/04/25 13:07	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/04/25 13:07	1
Trichloroethene	ND		1.0	0.15	ug/L			02/04/25 13:07	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/04/25 13:07	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/04/25 13:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/04/25 13:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/04/25 13:07	1
Vinyl acetate	ND		25	0.93	ug/L			02/04/25 13:07	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/04/25 13:07	1
Xylenes, Total	ND		10	6.0	ug/L			02/04/25 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/04/25 13:07	1
Dibromofluoromethane	95		79 - 130		02/04/25 13:07	1
Toluene-d8 (Surr)	101		64 - 132		02/04/25 13:07	1

Client Sample Results

Client: AECOM

Job ID: 400-269771-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012425-8011-A

Lab Sample ID: 400-269771-2

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.034	0.019	ug/L		01/28/25 10:54	01/28/25 19:49	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/28/25 10:54	01/28/25 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	52		51 - 149				01/28/25 10:54	01/28/25 19:49	1

Client Sample Results

Client: AECOM

Job ID: 400-269771-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: MW14-ROX-012425-EB

Lab Sample ID: 400-269771-3

Date Collected: 01/24/25 09:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/04/25 13:32	1
Acrolein	ND		20	3.3	ug/L			02/04/25 13:32	1
Acrylonitrile	ND		10	2.8	ug/L			02/04/25 13:32	1
Benzene	ND		1.0	0.50	ug/L			02/04/25 13:32	1
Bromobenzene	ND		1.0	0.54	ug/L			02/04/25 13:32	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/04/25 13:32	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/04/25 13:32	1
Bromoform	ND		5.0	0.25	ug/L			02/04/25 13:32	1
Bromomethane	ND		1.0	0.98	ug/L			02/04/25 13:32	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/04/25 13:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/04/25 13:32	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/04/25 13:32	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/04/25 13:32	1
Chloroethane	ND		1.0	0.76	ug/L			02/04/25 13:32	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/04/25 13:32	1
Chloroform	ND		1.0	0.90	ug/L			02/04/25 13:32	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/04/25 13:32	1
Chloromethane	ND		1.0	0.40	ug/L			02/04/25 13:32	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/04/25 13:32	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/04/25 13:32	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/04/25 13:32	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/04/25 13:32	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/04/25 13:32	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/04/25 13:32	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/04/25 13:32	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/04/25 13:32	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/04/25 13:32	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 13:32	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:32	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:32	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:32	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/04/25 13:32	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/04/25 13:32	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/04/25 13:32	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/04/25 13:32	1
2-Hexanone	ND		25	4.3	ug/L			02/04/25 13:32	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/04/25 13:32	1
Methylene bromide	ND		5.0	0.22	ug/L			02/04/25 13:32	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/04/25 13:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/04/25 13:32	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/04/25 13:32	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/04/25 13:32	1
Naphthalene	ND		5.0	3.0	ug/L			02/04/25 13:32	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/04/25 13:32	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/04/25 13:32	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/04/25 13:32	1
o-Xylene	ND		5.0	3.0	ug/L			02/04/25 13:32	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/04/25 13:32	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/04/25 13:32	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW14-ROX-012425-EB

Lab Sample ID: 400-269771-3

Date Collected: 01/24/25 09:25

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/04/25 13:32	1
Styrene	ND		1.0	1.0	ug/L			02/04/25 13:32	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/04/25 13:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/04/25 13:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/04/25 13:32	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/04/25 13:32	1
Toluene	ND		1.0	0.90	ug/L			02/04/25 13:32	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 13:32	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/04/25 13:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/04/25 13:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/04/25 13:32	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/04/25 13:32	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/04/25 13:32	1
Trichloroethene	ND		1.0	0.15	ug/L			02/04/25 13:32	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/04/25 13:32	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/04/25 13:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/04/25 13:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/04/25 13:32	1
Vinyl acetate	ND		25	0.93	ug/L			02/04/25 13:32	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/04/25 13:32	1
Xylenes, Total	ND		10	6.0	ug/L			02/04/25 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/04/25 13:32	1
Dibromofluoromethane	95		79 - 130		02/04/25 13:32	1
Toluene-d8 (Surr)	102		64 - 132		02/04/25 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*1	9.3	8.1	ug/L		01/31/25 11:14	02/04/25 20:10	1
Benzenethiol	ND		9.3	9.2	ug/L		01/31/25 11:14	02/04/25 20:10	1
Benzoic acid	ND		28	22	ug/L		01/31/25 11:14	02/04/25 20:10	1
Benzyl alcohol	ND		9.3	6.8	ug/L		01/31/25 11:14	02/04/25 20:10	1
Bis(2-chloroethoxy)methane	ND		9.3	4.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
Bis(2-chloroethyl)ether	ND		9.3	3.6	ug/L		01/31/25 11:14	02/04/25 20:10	1
bis (2-chloroisopropyl) ether	ND		9.3	1.7	ug/L		01/31/25 11:14	02/04/25 20:10	1
Bis(2-ethylhexyl) phthalate	ND		9.3	8.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
4-Bromophenyl phenyl ether	ND		9.3	8.0	ug/L		01/31/25 11:14	02/04/25 20:10	1
Butyl benzyl phthalate	ND		9.3	5.4	ug/L		01/31/25 11:14	02/04/25 20:10	1
4-Chloroaniline	ND		9.3	4.4	ug/L		01/31/25 11:14	02/04/25 20:10	1
4-Chloro-3-methylphenol	ND		9.3	4.9	ug/L		01/31/25 11:14	02/04/25 20:10	1
2-Chloronaphthalene	ND		9.3	3.5	ug/L		01/31/25 11:14	02/04/25 20:10	1
2-Chlorophenol	ND		9.3	3.8	ug/L		01/31/25 11:14	02/04/25 20:10	1
4-Chlorophenyl phenyl ether	ND		9.3	3.5	ug/L		01/31/25 11:14	02/04/25 20:10	1
Dibenz[a,h]acridine	ND		9.3	2.6	ug/L		01/31/25 11:14	02/04/25 20:10	1
Dibenzofuran	ND		9.3	3.7	ug/L		01/31/25 11:14	02/04/25 20:10	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		01/31/25 11:14	02/04/25 20:10	1
2,4-Dichlorophenol	ND		9.3	4.0	ug/L		01/31/25 11:14	02/04/25 20:10	1
Diethyl phthalate	ND		9.3	4.1	ug/L		01/31/25 11:14	02/04/25 20:10	1
2,4-Dimethylphenol	ND		9.3	4.9	ug/L		01/31/25 11:14	02/04/25 20:10	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW14-ROX-012425-EB

Lab Sample ID: 400-269771-3

Date Collected: 01/24/25 09:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.3	3.9	ug/L		01/31/25 11:14	02/04/25 20:10	1
Di-n-butyl phthalate	ND		9.3	4.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
4,6-Dinitro-ortho-cresol	ND		9.3	9.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
2,4-Dinitrophenol	ND		28	4.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
2,4-Dinitrotoluene	ND		9.3	4.8	ug/L		01/31/25 11:14	02/04/25 20:10	1
2,6-Dinitrotoluene	ND		9.3	3.6	ug/L		01/31/25 11:14	02/04/25 20:10	1
Di-n-octyl phthalate	ND		9.3	5.6	ug/L		01/31/25 11:14	02/04/25 20:10	1
1,4-Dioxane	ND	*1	9.3	4.0	ug/L		01/31/25 11:14	02/04/25 20:10	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.3	3.1	ug/L		01/31/25 11:14	02/04/25 20:10	1
Hexachlorobenzene	ND		9.3	9.0	ug/L		01/31/25 11:14	02/04/25 20:10	1
Hexachlorocyclopentadiene	ND		19	4.2	ug/L		01/31/25 11:14	02/04/25 20:10	1
Hexachloroethane	ND		9.3	4.9	ug/L		01/31/25 11:14	02/04/25 20:10	1
Indene	ND		9.3	3.4	ug/L		01/31/25 11:14	02/04/25 20:10	1
Isophorone	ND		9.3	4.9	ug/L		01/31/25 11:14	02/04/25 20:10	1
2-Methylphenol	ND		9.3	3.0	ug/L		01/31/25 11:14	02/04/25 20:10	1
3 & 4 Methylphenol	ND		19	4.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
2-Nitroaniline	ND		9.3	4.7	ug/L		01/31/25 11:14	02/04/25 20:10	1
3-Nitroaniline	ND		9.3	4.4	ug/L		01/31/25 11:14	02/04/25 20:10	1
4-Nitroaniline	ND		9.3	3.8	ug/L		01/31/25 11:14	02/04/25 20:10	1
Nitrobenzene	ND		9.3	4.4	ug/L		01/31/25 11:14	02/04/25 20:10	1
2-Nitrophenol	ND		9.3	4.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
4-Nitrophenol	ND		9.3	3.1	ug/L		01/31/25 11:14	02/04/25 20:10	1
N-Nitrosodimethylamine	ND		9.3	2.1	ug/L		01/31/25 11:14	02/04/25 20:10	1
N-Nitrosodi-n-propylamine	ND		9.3	2.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
N-Nitrosodiphenylamine	ND		9.3	3.5	ug/L		01/31/25 11:14	02/04/25 20:10	1
Pentachlorophenol	ND		19	11	ug/L		01/31/25 11:14	02/04/25 20:10	1
Phenol	ND		9.3	3.9	ug/L		01/31/25 11:14	02/04/25 20:10	1
Pyridine	ND	*- *1	9.3	9.3	ug/L		01/31/25 11:14	02/04/25 20:10	1
Quinoline	ND		9.3	2.2	ug/L		01/31/25 11:14	02/04/25 20:10	1
2,4,5-Trichlorophenol	ND		9.3	3.7	ug/L		01/31/25 11:14	02/04/25 20:10	1
2,4,6-Trichlorophenol	ND		9.3	3.3	ug/L		01/31/25 11:14	02/04/25 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		21 - 114	01/31/25 11:14	02/04/25 20:10	1
2-Fluorophenol	35		10 - 105	01/31/25 11:14	02/04/25 20:10	1
Nitrobenzene-d5	67		16 - 127	01/31/25 11:14	02/04/25 20:10	1
Phenol-d5	28		10 - 129	01/31/25 11:14	02/04/25 20:10	1
Terphenyl-d14	87		13 - 150	01/31/25 11:14	02/04/25 20:10	1
2,4,6-Tribromophenol	67		10 - 150	01/31/25 11:14	02/04/25 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.086	ug/L		01/28/25 14:13	01/30/25 15:51	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 15:51	1
Anthracene	ND		10	0.074	ug/L		01/28/25 14:13	01/30/25 15:51	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 15:51	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 15:51	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 15:51	1
Benzo[g,h,i]perylene	ND		10	0.053	ug/L		01/28/25 14:13	01/30/25 15:51	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW14-ROX-012425-EB

Lab Sample ID: 400-269771-3

Date Collected: 01/24/25 09:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 15:51	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 15:51	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 15:51	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 15:51	1
Fluorene	ND		10	0.088	ug/L		01/28/25 14:13	01/30/25 15:51	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 15:51	1
1-Methylnaphthalene	ND		10	0.067	ug/L		01/28/25 14:13	01/30/25 15:51	1
2-Methylnaphthalene	ND		10	0.078	ug/L		01/28/25 14:13	01/30/25 15:51	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 15:51	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		15 - 150	01/28/25 14:13	01/30/25 15:51	1
Nitrobenzene-d5	87		50 - 150	01/28/25 14:13	01/30/25 15:51	1
Terphenyl-d14	105		43 - 147	01/28/25 14:13	01/30/25 15:51	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/28/25 10:54	01/28/25 20:10	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/28/25 10:54	01/28/25 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	59		51 - 149	01/28/25 10:54	01/28/25 20:10	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW14-ROX-012425

Lab Sample ID: 400-269771-4

Date Collected: 01/24/25 11:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/04/25 14:21	1
Acrolein	ND		20	3.3	ug/L			02/04/25 14:21	1
Acrylonitrile	ND		10	2.8	ug/L			02/04/25 14:21	1
Benzene	1.8		1.0	0.50	ug/L			02/04/25 14:21	1
Bromobenzene	ND		1.0	0.54	ug/L			02/04/25 14:21	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/04/25 14:21	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/04/25 14:21	1
Bromoform	ND		5.0	0.25	ug/L			02/04/25 14:21	1
Bromomethane	ND		1.0	0.98	ug/L			02/04/25 14:21	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/04/25 14:21	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/04/25 14:21	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/04/25 14:21	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/04/25 14:21	1
Chloroethane	ND		1.0	0.76	ug/L			02/04/25 14:21	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/04/25 14:21	1
Chloroform	ND		1.0	0.90	ug/L			02/04/25 14:21	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/04/25 14:21	1
Chloromethane	ND		1.0	0.40	ug/L			02/04/25 14:21	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/04/25 14:21	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/04/25 14:21	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/04/25 14:21	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/04/25 14:21	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/04/25 14:21	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/04/25 14:21	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/04/25 14:21	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/04/25 14:21	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/04/25 14:21	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 14:21	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 14:21	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 14:21	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 14:21	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/04/25 14:21	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/04/25 14:21	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/04/25 14:21	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/04/25 14:21	1
2-Hexanone	ND		25	4.3	ug/L			02/04/25 14:21	1
Isopropylbenzene	0.69 J		1.0	0.53	ug/L			02/04/25 14:21	1
Methylene bromide	ND		5.0	0.22	ug/L			02/04/25 14:21	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/04/25 14:21	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/04/25 14:21	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/04/25 14:21	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/04/25 14:21	1
Naphthalene	ND		5.0	3.0	ug/L			02/04/25 14:21	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/04/25 14:21	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/04/25 14:21	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/04/25 14:21	1
o-Xylene	ND		5.0	3.0	ug/L			02/04/25 14:21	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/04/25 14:21	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/04/25 14:21	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW14-ROX-012425

Lab Sample ID: 400-269771-4

Date Collected: 01/24/25 11:25

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/04/25 14:21	1
Styrene	ND		1.0	1.0	ug/L			02/04/25 14:21	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/04/25 14:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/04/25 14:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/04/25 14:21	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/04/25 14:21	1
Toluene	ND		1.0	0.90	ug/L			02/04/25 14:21	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 14:21	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/04/25 14:21	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/04/25 14:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/04/25 14:21	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/04/25 14:21	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/04/25 14:21	1
Trichloroethene	ND		1.0	0.15	ug/L			02/04/25 14:21	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/04/25 14:21	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/04/25 14:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/04/25 14:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/04/25 14:21	1
Vinyl acetate	ND		25	0.93	ug/L			02/04/25 14:21	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/04/25 14:21	1
Xylenes, Total	ND		10	6.0	ug/L			02/04/25 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/04/25 14:21	1
Dibromofluoromethane	96		79 - 130		02/04/25 14:21	1
Toluene-d8 (Surr)	102		64 - 132		02/04/25 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*1	9.5	8.3	ug/L		01/31/25 11:14	02/04/25 20:33	1
Benzenethiol	ND		9.5	9.4	ug/L		01/31/25 11:14	02/04/25 20:33	1
Benzoic acid	ND		29	23	ug/L		01/31/25 11:14	02/04/25 20:33	1
Benzyl alcohol	ND		9.5	7.0	ug/L		01/31/25 11:14	02/04/25 20:33	1
Bis(2-chloroethoxy)methane	ND		9.5	4.4	ug/L		01/31/25 11:14	02/04/25 20:33	1
Bis(2-chloroethyl)ether	ND		9.5	3.7	ug/L		01/31/25 11:14	02/04/25 20:33	1
bis (2-chloroisopropyl) ether	ND		9.5	1.7	ug/L		01/31/25 11:14	02/04/25 20:33	1
Bis(2-ethylhexyl) phthalate	ND		9.5	8.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
4-Bromophenyl phenyl ether	ND		9.5	8.2	ug/L		01/31/25 11:14	02/04/25 20:33	1
Butyl benzyl phthalate	ND		9.5	5.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
4-Chloroaniline	ND		9.5	4.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
4-Chloro-3-methylphenol	ND		9.5	5.1	ug/L		01/31/25 11:14	02/04/25 20:33	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		01/31/25 11:14	02/04/25 20:33	1
2-Chlorophenol	ND		9.5	3.9	ug/L		01/31/25 11:14	02/04/25 20:33	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
Dibenz[a,h]acridine	ND		9.5	2.7	ug/L		01/31/25 11:14	02/04/25 20:33	1
Dibenzofuran	ND		9.5	3.8	ug/L		01/31/25 11:14	02/04/25 20:33	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		01/31/25 11:14	02/04/25 20:33	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		01/31/25 11:14	02/04/25 20:33	1
Diethyl phthalate	ND		9.5	4.2	ug/L		01/31/25 11:14	02/04/25 20:33	1
2,4-Dimethylphenol	ND		9.5	5.0	ug/L		01/31/25 11:14	02/04/25 20:33	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW14-ROX-012425

Lab Sample ID: 400-269771-4

Date Collected: 01/24/25 11:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.5	4.0	ug/L		01/31/25 11:14	02/04/25 20:33	1
Di-n-butyl phthalate	ND		9.5	4.4	ug/L		01/31/25 11:14	02/04/25 20:33	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/31/25 11:14	02/04/25 20:33	1
2,4-Dinitrotoluene	ND		9.5	4.9	ug/L		01/31/25 11:14	02/04/25 20:33	1
2,6-Dinitrotoluene	ND		9.5	3.7	ug/L		01/31/25 11:14	02/04/25 20:33	1
Di-n-octyl phthalate	ND		9.5	5.7	ug/L		01/31/25 11:14	02/04/25 20:33	1
1,4-Dioxane	ND	*1	9.5	4.1	ug/L		01/31/25 11:14	02/04/25 20:33	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		01/31/25 11:14	02/04/25 20:33	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		01/31/25 11:14	02/04/25 20:33	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/31/25 11:14	02/04/25 20:33	1
Hexachloroethane	ND		9.5	5.0	ug/L		01/31/25 11:14	02/04/25 20:33	1
Indene	ND		9.5	3.4	ug/L		01/31/25 11:14	02/04/25 20:33	1
Isophorone	ND		9.5	5.0	ug/L		01/31/25 11:14	02/04/25 20:33	1
2-Methylphenol	ND		9.5	3.1	ug/L		01/31/25 11:14	02/04/25 20:33	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/31/25 11:14	02/04/25 20:33	1
2-Nitroaniline	ND		9.5	4.8	ug/L		01/31/25 11:14	02/04/25 20:33	1
3-Nitroaniline	ND		9.5	4.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
4-Nitroaniline	ND		9.5	3.9	ug/L		01/31/25 11:14	02/04/25 20:33	1
Nitrobenzene	ND		9.5	4.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
2-Nitrophenol	ND		9.5	4.4	ug/L		01/31/25 11:14	02/04/25 20:33	1
4-Nitrophenol	ND		9.5	3.1	ug/L		01/31/25 11:14	02/04/25 20:33	1
N-Nitrosodimethylamine	ND		9.5	2.1	ug/L		01/31/25 11:14	02/04/25 20:33	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		01/31/25 11:14	02/04/25 20:33	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
Pentachlorophenol	ND		19	11	ug/L		01/31/25 11:14	02/04/25 20:33	1
Phenol	ND		9.5	4.0	ug/L		01/31/25 11:14	02/04/25 20:33	1
Pyridine	ND	*- *1 UJ	9.5	9.5	ug/L		01/31/25 11:14	02/04/25 20:33	1
Quinoline	ND		9.5	2.3	ug/L		01/31/25 11:14	02/04/25 20:33	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		01/31/25 11:14	02/04/25 20:33	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		01/31/25 11:14	02/04/25 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		21 - 114	01/31/25 11:14	02/04/25 20:33	1
2-Fluorophenol	35		10 - 105	01/31/25 11:14	02/04/25 20:33	1
Nitrobenzene-d5	66		16 - 127	01/31/25 11:14	02/04/25 20:33	1
Phenol-d5	29		10 - 129	01/31/25 11:14	02/04/25 20:33	1
Terphenyl-d14	90		13 - 150	01/31/25 11:14	02/04/25 20:33	1
2,4,6-Tribromophenol	93		10 - 150	01/31/25 11:14	02/04/25 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.086	ug/L		01/28/25 14:13	01/30/25 16:22	1
Acenaphthylene	ND		10	0.048	ug/L		01/28/25 14:13	01/30/25 16:22	1
Anthracene	ND		10	0.074	ug/L		01/28/25 14:13	01/30/25 16:22	1
Benzo[a]anthracene	ND		10	0.041	ug/L		01/28/25 14:13	01/30/25 16:22	1
Benzo[a]pyrene	ND		10	0.046	ug/L		01/28/25 14:13	01/30/25 16:22	1
Benzo[b]fluoranthene	ND		10	0.043	ug/L		01/28/25 14:13	01/30/25 16:22	1
Benzo[g,h,i]perylene	ND		10	0.053	ug/L		01/28/25 14:13	01/30/25 16:22	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW14-ROX-012425

Lab Sample ID: 400-269771-4

Date Collected: 01/24/25 11:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.041	ug/L		01/28/25 14:13	01/30/25 16:22	1
Chrysene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 16:22	1
Dibenz(a,h)anthracene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 16:22	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 16:22	1
Fluorene	ND		10	0.088	ug/L		01/28/25 14:13	01/30/25 16:22	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 16:22	1
1-Methylnaphthalene	0.070	J	10	0.067	ug/L		01/28/25 14:13	01/30/25 16:22	1
2-Methylnaphthalene	ND		10	0.078	ug/L		01/28/25 14:13	01/30/25 16:22	1
Phenanthrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 16:22	1
Pyrene	ND		10	0.041	ug/L		01/28/25 14:13	01/30/25 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		15 - 150	01/28/25 14:13	01/30/25 16:22	1
Nitrobenzene-d5	90		50 - 150	01/28/25 14:13	01/30/25 16:22	1
Terphenyl-d14	118		43 - 147	01/28/25 14:13	01/30/25 16:22	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.032	0.018	ug/L		01/28/25 10:54	01/28/25 20:31	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/28/25 10:54	01/28/25 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	59		51 - 149	01/28/25 10:54	01/28/25 20:31	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW2-ROX-012425

Lab Sample ID: 400-269771-5

Date Collected: 01/24/25 13:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/04/25 14:45	1
Acrolein	ND		20	3.3	ug/L			02/04/25 14:45	1
Acrylonitrile	ND		10	2.8	ug/L			02/04/25 14:45	1
Benzene	2.7		1.0	0.50	ug/L			02/04/25 14:45	1
Bromobenzene	ND		1.0	0.54	ug/L			02/04/25 14:45	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/04/25 14:45	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/04/25 14:45	1
Bromoform	ND		5.0	0.25	ug/L			02/04/25 14:45	1
Bromomethane	ND		1.0	0.98	ug/L			02/04/25 14:45	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/04/25 14:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/04/25 14:45	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/04/25 14:45	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/04/25 14:45	1
Chloroethane	ND		1.0	0.76	ug/L			02/04/25 14:45	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/04/25 14:45	1
Chloroform	ND		1.0	0.90	ug/L			02/04/25 14:45	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/04/25 14:45	1
Chloromethane	ND		1.0	0.40	ug/L			02/04/25 14:45	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/04/25 14:45	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/04/25 14:45	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/04/25 14:45	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/04/25 14:45	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/04/25 14:45	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/04/25 14:45	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/04/25 14:45	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/04/25 14:45	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/04/25 14:45	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 14:45	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 14:45	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 14:45	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 14:45	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/04/25 14:45	1
Ethylbenzene	110		1.0	0.50	ug/L			02/04/25 14:45	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/04/25 14:45	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/04/25 14:45	1
2-Hexanone	ND		25	4.3	ug/L			02/04/25 14:45	1
Isopropylbenzene	47		1.0	0.53	ug/L			02/04/25 14:45	1
Methylene bromide	ND		5.0	0.22	ug/L			02/04/25 14:45	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/04/25 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/04/25 14:45	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/04/25 14:45	1
m-Xylene & p-Xylene	53		5.0	3.0	ug/L			02/04/25 14:45	1
Naphthalene	14		5.0	3.0	ug/L			02/04/25 14:45	1
n-Butylbenzene	4.6		1.0	0.76	ug/L			02/04/25 14:45	1
N-Propylbenzene	70		1.0	0.69	ug/L			02/04/25 14:45	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/04/25 14:45	1
o-Xylene	5.8		5.0	3.0	ug/L			02/04/25 14:45	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/04/25 14:45	1
p-Isopropyltoluene	3.8		1.0	0.71	ug/L			02/04/25 14:45	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW2-ROX-012425

Lab Sample ID: 400-269771-5

Date Collected: 01/24/25 13:25

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	6.1		1.0	0.70	ug/L			02/04/25 14:45	1
Styrene	ND		1.0	1.0	ug/L			02/04/25 14:45	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/04/25 14:45	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/04/25 14:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/04/25 14:45	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/04/25 14:45	1
Toluene	2.2		1.0	0.90	ug/L			02/04/25 14:45	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 14:45	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/04/25 14:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/04/25 14:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/04/25 14:45	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/04/25 14:45	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/04/25 14:45	1
Trichloroethene	ND		1.0	0.15	ug/L			02/04/25 14:45	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/04/25 14:45	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/04/25 14:45	1
1,2,4-Trimethylbenzene	16		1.0	0.82	ug/L			02/04/25 14:45	1
1,3,5-Trimethylbenzene	20		1.0	0.56	ug/L			02/04/25 14:45	1
Vinyl acetate	ND		25	0.93	ug/L			02/04/25 14:45	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/04/25 14:45	1
Xylenes, Total	59		10	6.0	ug/L			02/04/25 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/04/25 14:45	1
Dibromofluoromethane	98		79 - 130		02/04/25 14:45	1
Toluene-d8 (Surr)	101		64 - 132		02/04/25 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*1	9.4	8.1	ug/L		01/31/25 11:14	02/04/25 20:55	1
Benzenethiol	ND		9.4	9.3	ug/L		01/31/25 11:14	02/04/25 20:55	1
Benzoic acid	ND		28	22	ug/L		01/31/25 11:14	02/04/25 20:55	1
Benzyl alcohol	ND		9.4	6.8	ug/L		01/31/25 11:14	02/04/25 20:55	1
Bis(2-chloroethoxy)methane	ND		9.4	4.3	ug/L		01/31/25 11:14	02/04/25 20:55	1
Bis(2-chloroethyl)ether	ND		9.4	3.7	ug/L		01/31/25 11:14	02/04/25 20:55	1
bis (2-chloroisopropyl) ether	ND		9.4	1.7	ug/L		01/31/25 11:14	02/04/25 20:55	1
Bis(2-ethylhexyl) phthalate	ND		9.4	8.3	ug/L		01/31/25 11:14	02/04/25 20:55	1
4-Bromophenyl phenyl ether	ND		9.4	8.1	ug/L		01/31/25 11:14	02/04/25 20:55	1
Butyl benzyl phthalate	ND		9.4	5.4	ug/L		01/31/25 11:14	02/04/25 20:55	1
4-Chloroaniline	ND		9.4	4.4	ug/L		01/31/25 11:14	02/04/25 20:55	1
4-Chloro-3-methylphenol	ND		9.4	5.0	ug/L		01/31/25 11:14	02/04/25 20:55	1
2-Chloronaphthalene	ND		9.4	3.6	ug/L		01/31/25 11:14	02/04/25 20:55	1
2-Chlorophenol	ND		9.4	3.8	ug/L		01/31/25 11:14	02/04/25 20:55	1
4-Chlorophenyl phenyl ether	ND		9.4	3.5	ug/L		01/31/25 11:14	02/04/25 20:55	1
Dibenz[a,h]acridine	ND		9.4	2.6	ug/L		01/31/25 11:14	02/04/25 20:55	1
Dibenzofuran	ND		9.4	3.7	ug/L		01/31/25 11:14	02/04/25 20:55	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		01/31/25 11:14	02/04/25 20:55	1
2,4-Dichlorophenol	ND		9.4	4.0	ug/L		01/31/25 11:14	02/04/25 20:55	1
Diethyl phthalate	ND		9.4	4.1	ug/L		01/31/25 11:14	02/04/25 20:55	1
2,4-Dimethylphenol	ND		9.4	4.9	ug/L		01/31/25 11:14	02/04/25 20:55	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW2-ROX-012425

Lab Sample ID: 400-269771-5

Date Collected: 01/24/25 13:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.4	3.9	ug/L		01/31/25 11:14	02/04/25 20:55	1
Di-n-butyl phthalate	ND		9.4	4.3	ug/L		01/31/25 11:14	02/04/25 20:55	1
4,6-Dinitro-ortho-cresol	ND		9.4	9.4	ug/L		01/31/25 11:14	02/04/25 20:55	1
2,4-Dinitrophenol	ND		28	4.3	ug/L		01/31/25 11:14	02/04/25 20:55	1
2,4-Dinitrotoluene	ND		9.4	4.8	ug/L		01/31/25 11:14	02/04/25 20:55	1
2,6-Dinitrotoluene	ND		9.4	3.7	ug/L		01/31/25 11:14	02/04/25 20:55	1
Di-n-octyl phthalate	ND		9.4	5.6	ug/L		01/31/25 11:14	02/04/25 20:55	1
1,4-Dioxane	ND	*1	9.4	4.0	ug/L		01/31/25 11:14	02/04/25 20:55	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.4	3.1	ug/L		01/31/25 11:14	02/04/25 20:55	1
Hexachlorobenzene	ND		9.4	9.1	ug/L		01/31/25 11:14	02/04/25 20:55	1
Hexachlorocyclopentadiene	ND		19	4.2	ug/L		01/31/25 11:14	02/04/25 20:55	1
Hexachloroethane	ND		9.4	4.9	ug/L		01/31/25 11:14	02/04/25 20:55	1
Indene	ND		9.4	3.4	ug/L		01/31/25 11:14	02/04/25 20:55	1
Isophorone	ND		9.4	4.9	ug/L		01/31/25 11:14	02/04/25 20:55	1
2-Methylphenol	ND		9.4	3.0	ug/L		01/31/25 11:14	02/04/25 20:55	1
3 & 4 Methylphenol	ND		19	4.3	ug/L		01/31/25 11:14	02/04/25 20:55	1
2-Nitroaniline	ND		9.4	4.7	ug/L		01/31/25 11:14	02/04/25 20:55	1
3-Nitroaniline	ND		9.4	4.4	ug/L		01/31/25 11:14	02/04/25 20:55	1
4-Nitroaniline	ND		9.4	3.8	ug/L		01/31/25 11:14	02/04/25 20:55	1
Nitrobenzene	ND		9.4	4.4	ug/L		01/31/25 11:14	02/04/25 20:55	1
2-Nitrophenol	ND		9.4	4.3	ug/L		01/31/25 11:14	02/04/25 20:55	1
4-Nitrophenol	ND		9.4	3.1	ug/L		01/31/25 11:14	02/04/25 20:55	1
N-Nitrosodimethylamine	ND		9.4	2.1	ug/L		01/31/25 11:14	02/04/25 20:55	1
N-Nitrosodi-n-propylamine	ND		9.4	2.3	ug/L		01/31/25 11:14	02/04/25 20:55	1
N-Nitrosodiphenylamine	ND		9.4	3.5	ug/L		01/31/25 11:14	02/04/25 20:55	1
Pentachlorophenol	ND		19	11	ug/L		01/31/25 11:14	02/04/25 20:55	1
Phenol	ND		9.4	3.9	ug/L		01/31/25 11:14	02/04/25 20:55	1
Pyridine	ND	*- *1 UJ	9.4	9.4	ug/L		01/31/25 11:14	02/04/25 20:55	1
Quinoline	ND		9.4	2.2	ug/L		01/31/25 11:14	02/04/25 20:55	1
2,4,5-Trichlorophenol	ND		9.4	3.7	ug/L		01/31/25 11:14	02/04/25 20:55	1
2,4,6-Trichlorophenol	ND		9.4	3.3	ug/L		01/31/25 11:14	02/04/25 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		21 - 114	01/31/25 11:14	02/04/25 20:55	1
2-Fluorophenol	43		10 - 105	01/31/25 11:14	02/04/25 20:55	1
Nitrobenzene-d5	69		16 - 127	01/31/25 11:14	02/04/25 20:55	1
Phenol-d5	30		10 - 129	01/31/25 11:14	02/04/25 20:55	1
Terphenyl-d14	86		13 - 150	01/31/25 11:14	02/04/25 20:55	1
2,4,6-Tribromophenol	99		10 - 150	01/31/25 11:14	02/04/25 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 16:53	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 16:53	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 16:53	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 16:53	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 16:53	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 16:53	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 16:53	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW2-ROX-012425

Lab Sample ID: 400-269771-5

Date Collected: 01/24/25 13:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 16:53	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 16:53	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 16:53	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 16:53	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 16:53	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 16:53	1
1-Methylnaphthalene	8.5	J	10	0.066	ug/L		01/28/25 14:13	01/30/25 16:53	1
2-Methylnaphthalene	14		10	0.077	ug/L		01/28/25 14:13	01/30/25 16:53	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 16:53	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/28/25 14:13	01/30/25 16:53	1
Nitrobenzene-d5	88		50 - 150	01/28/25 14:13	01/30/25 16:53	1
Terphenyl-d14	106		43 - 147	01/28/25 14:13	01/30/25 16:53	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.032	0.018	ug/L		01/28/25 10:54	01/28/25 20:52	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/28/25 10:54	01/28/25 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	71		51 - 149	01/28/25 10:54	01/28/25 20:52	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW22-ROX-012425

Lab Sample ID: 400-269771-6

Date Collected: 01/24/25 14:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50	20	ug/L			02/04/25 16:23	2
Acrolein	ND		40	6.6	ug/L			02/04/25 16:23	2
Acrylonitrile	ND		20	5.6	ug/L			02/04/25 16:23	2
Benzene	53		2.0	1.0	ug/L			02/04/25 16:23	2
Bromobenzene	ND		2.0	1.1	ug/L			02/04/25 16:23	2
Bromochloromethane	ND		2.0	1.0	ug/L			02/04/25 16:23	2
Bromodichloromethane	ND		2.0	1.0	ug/L			02/04/25 16:23	2
Bromoform	ND		10	0.50	ug/L			02/04/25 16:23	2
Bromomethane	ND		2.0	2.0	ug/L			02/04/25 16:23	2
2-Butanone (MEK)	ND		50	5.2	ug/L			02/04/25 16:23	2
Carbon disulfide	ND		2.0	1.0	ug/L			02/04/25 16:23	2
Carbon tetrachloride	ND		2.0	0.38	ug/L			02/04/25 16:23	2
Chlorobenzene	ND		2.0	0.84	ug/L			02/04/25 16:23	2
Chloroethane	ND		2.0	1.5	ug/L			02/04/25 16:23	2
2-Chloroethyl vinyl ether	ND		10	4.0	ug/L			02/04/25 16:23	2
Chloroform	ND		2.0	1.8	ug/L			02/04/25 16:23	2
1-Chlorohexane	ND		2.0	0.64	ug/L			02/04/25 16:23	2
Chloromethane	ND		2.0	0.80	ug/L			02/04/25 16:23	2
cis-1,2-Dichloroethene	ND		2.0	0.40	ug/L			02/04/25 16:23	2
cis-1,3-Dichloropropene	ND		10	1.0	ug/L			02/04/25 16:23	2
Dibromochloromethane	ND		2.0	0.48	ug/L			02/04/25 16:23	2
1,2-Dichlorobenzene	ND		2.0	1.0	ug/L			02/04/25 16:23	2
1,3-Dichlorobenzene	ND		2.0	1.1	ug/L			02/04/25 16:23	2
1,4-Dichlorobenzene	ND		2.0	1.3	ug/L			02/04/25 16:23	2
Dichlorodifluoromethane	ND		2.0	1.7	ug/L			02/04/25 16:23	2
1,1-Dichloroethane	ND		2.0	1.0	ug/L			02/04/25 16:23	2
1,2-Dichloroethane	ND		2.0	1.1	ug/L			02/04/25 16:23	2
1,1-Dichloroethene	ND		2.0	1.0	ug/L			02/04/25 16:23	2
1,2-Dichloropropane	ND		2.0	1.0	ug/L			02/04/25 16:23	2
1,3-Dichloropropane	ND		2.0	1.0	ug/L			02/04/25 16:23	2
2,2-Dichloropropane	ND		2.0	1.0	ug/L			02/04/25 16:23	2
1,1-Dichloropropene	ND		2.0	0.18	ug/L			02/04/25 16:23	2
Ethyl methacrylate	ND		2.0	1.2	ug/L			02/04/25 16:23	2
Hexachlorobutadiene	ND		10	1.8	ug/L			02/04/25 16:23	2
2-Hexanone	ND		50	8.5	ug/L			02/04/25 16:23	2
Isopropylbenzene	86		2.0	1.1	ug/L			02/04/25 16:23	2
Methylene bromide	ND		10	0.44	ug/L			02/04/25 16:23	2
Methylene Chloride	ND		10	6.0	ug/L			02/04/25 16:23	2
4-Methyl-2-pentanone (MIBK)	ND		50	3.6	ug/L			02/04/25 16:23	2
Methyl tert-butyl ether	ND		2.0	0.44	ug/L			02/04/25 16:23	2
Naphthalene	190		10	6.0	ug/L			02/04/25 16:23	2
n-Butylbenzene	11		2.0	1.5	ug/L			02/04/25 16:23	2
N-Propylbenzene	150		2.0	1.4	ug/L			02/04/25 16:23	2
o-Chlorotoluene	ND		2.0	1.1	ug/L			02/04/25 16:23	2
p-Chlorotoluene	ND		2.0	1.1	ug/L			02/04/25 16:23	2
p-Isopropyltoluene	3.4		2.0	1.4	ug/L			02/04/25 16:23	2
sec-Butylbenzene	7.2		2.0	1.4	ug/L			02/04/25 16:23	2
Styrene	ND		2.0	2.0	ug/L			02/04/25 16:23	2
tert-Butylbenzene	11		2.0	1.3	ug/L			02/04/25 16:23	2

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW22-ROX-012425

Lab Sample ID: 400-269771-6

Date Collected: 01/24/25 14:25

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.76	ug/L			02/04/25 16:23	2
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/L			02/04/25 16:23	2
Tetrachloroethene	ND		2.0	0.66	ug/L			02/04/25 16:23	2
Toluene	84		2.0	1.8	ug/L			02/04/25 16:23	2
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/L			02/04/25 16:23	2
trans-1,3-Dichloropropene	ND		10	0.40	ug/L			02/04/25 16:23	2
1,2,3-Trichlorobenzene	ND		2.0	1.8	ug/L			02/04/25 16:23	2
1,2,4-Trichlorobenzene	ND		2.0	1.6	ug/L			02/04/25 16:23	2
1,1,1-Trichloroethane	ND		2.0	0.36	ug/L			02/04/25 16:23	2
1,1,2-Trichloroethane	ND		10	0.42	ug/L			02/04/25 16:23	2
Trichloroethene	ND		2.0	0.30	ug/L			02/04/25 16:23	2
Trichlorofluoromethane	ND		2.0	0.50	ug/L			02/04/25 16:23	2
1,2,3-Trichloropropane	ND		10	1.7	ug/L			02/04/25 16:23	2
1,2,4-Trimethylbenzene	220		2.0	1.6	ug/L			02/04/25 16:23	2
1,3,5-Trimethylbenzene	110		2.0	1.1	ug/L			02/04/25 16:23	2
Vinyl acetate	ND		50	1.9	ug/L			02/04/25 16:23	2
Vinyl chloride	ND		2.0	1.0	ug/L			02/04/25 16:23	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/04/25 16:23	2
Dibromofluoromethane	98		79 - 130		02/04/25 16:23	2
Toluene-d8 (Surr)	99		64 - 132		02/04/25 16:23	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	830		10	5.0	ug/L			02/05/25 20:55	10
m-Xylene & p-Xylene	1400		50	30	ug/L			02/05/25 20:55	10
o-Xylene	78		50	30	ug/L			02/05/25 20:55	10
Xylenes, Total	1500		100	60	ug/L			02/05/25 20:55	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		56 - 136		02/05/25 20:55	10
Dibromofluoromethane	100		79 - 130		02/05/25 20:55	10
Toluene-d8 (Surr)	93		64 - 132		02/05/25 20:55	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*1	9.3	8.1	ug/L		01/31/25 11:14	02/04/25 21:17	1
Benzenethiol	ND		9.3	9.2	ug/L		01/31/25 11:14	02/04/25 21:17	1
Benzoic acid	ND		28	22	ug/L		01/31/25 11:14	02/04/25 21:17	1
Benzyl alcohol	ND		9.3	6.8	ug/L		01/31/25 11:14	02/04/25 21:17	1
Bis(2-chloroethoxy)methane	ND		9.3	4.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
Bis(2-chloroethyl)ether	ND		9.3	3.6	ug/L		01/31/25 11:14	02/04/25 21:17	1
bis (2-chloroisopropyl) ether	ND		9.3	1.7	ug/L		01/31/25 11:14	02/04/25 21:17	1
Bis(2-ethylhexyl) phthalate	ND		9.3	8.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
4-Bromophenyl phenyl ether	ND		9.3	8.0	ug/L		01/31/25 11:14	02/04/25 21:17	1
Butyl benzyl phthalate	ND		9.3	5.4	ug/L		01/31/25 11:14	02/04/25 21:17	1
4-Chloroaniline	ND		9.3	4.4	ug/L		01/31/25 11:14	02/04/25 21:17	1
4-Chloro-3-methylphenol	ND		9.3	4.9	ug/L		01/31/25 11:14	02/04/25 21:17	1
2-Chloronaphthalene	ND		9.3	3.5	ug/L		01/31/25 11:14	02/04/25 21:17	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW22-ROX-012425

Lab Sample ID: 400-269771-6

Date Collected: 01/24/25 14:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		9.3	3.8	ug/L		01/31/25 11:14	02/04/25 21:17	1
4-Chlorophenyl phenyl ether	ND		9.3	3.5	ug/L		01/31/25 11:14	02/04/25 21:17	1
Dibenz[a,h]acridine	ND		9.3	2.6	ug/L		01/31/25 11:14	02/04/25 21:17	1
Dibenzofuran	ND		9.3	3.7	ug/L		01/31/25 11:14	02/04/25 21:17	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		01/31/25 11:14	02/04/25 21:17	1
2,4-Dichlorophenol	ND		9.3	4.0	ug/L		01/31/25 11:14	02/04/25 21:17	1
Diethyl phthalate	ND		9.3	4.1	ug/L		01/31/25 11:14	02/04/25 21:17	1
2,4-Dimethylphenol	5.9	J	9.3	4.9	ug/L		01/31/25 11:14	02/04/25 21:17	1
Dimethyl phthalate	ND		9.3	3.9	ug/L		01/31/25 11:14	02/04/25 21:17	1
Di-n-butyl phthalate	ND		9.3	4.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
4,6-Dinitro-ortho-cresol	ND		9.3	9.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
2,4-Dinitrophenol	ND		28	4.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
2,4-Dinitrotoluene	ND		9.3	4.8	ug/L		01/31/25 11:14	02/04/25 21:17	1
2,6-Dinitrotoluene	ND		9.3	3.6	ug/L		01/31/25 11:14	02/04/25 21:17	1
Di-n-octyl phthalate	ND		9.3	5.6	ug/L		01/31/25 11:14	02/04/25 21:17	1
1,4-Dioxane	ND	*1	9.3	4.0	ug/L		01/31/25 11:14	02/04/25 21:17	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.3	3.1	ug/L		01/31/25 11:14	02/04/25 21:17	1
Hexachlorobenzene	ND		9.3	9.1	ug/L		01/31/25 11:14	02/04/25 21:17	1
Hexachlorocyclopentadiene	ND		19	4.2	ug/L		01/31/25 11:14	02/04/25 21:17	1
Hexachloroethane	ND		9.3	4.9	ug/L		01/31/25 11:14	02/04/25 21:17	1
Indene	ND		9.3	3.4	ug/L		01/31/25 11:14	02/04/25 21:17	1
Isophorone	ND		9.3	4.9	ug/L		01/31/25 11:14	02/04/25 21:17	1
2-Methylphenol	ND		9.3	3.0	ug/L		01/31/25 11:14	02/04/25 21:17	1
3 & 4 Methylphenol	ND		19	4.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
2-Nitroaniline	ND		9.3	4.7	ug/L		01/31/25 11:14	02/04/25 21:17	1
3-Nitroaniline	ND		9.3	4.4	ug/L		01/31/25 11:14	02/04/25 21:17	1
4-Nitroaniline	ND		9.3	3.8	ug/L		01/31/25 11:14	02/04/25 21:17	1
Nitrobenzene	ND		9.3	4.4	ug/L		01/31/25 11:14	02/04/25 21:17	1
2-Nitrophenol	ND		9.3	4.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
4-Nitrophenol	ND		9.3	3.1	ug/L		01/31/25 11:14	02/04/25 21:17	1
N-Nitrosodimethylamine	ND		9.3	2.1	ug/L		01/31/25 11:14	02/04/25 21:17	1
N-Nitrosodi-n-propylamine	ND		9.3	2.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
N-Nitrosodiphenylamine	ND		9.3	3.5	ug/L		01/31/25 11:14	02/04/25 21:17	1
Pentachlorophenol	ND		19	11	ug/L		01/31/25 11:14	02/04/25 21:17	1
Phenol	ND		9.3	3.9	ug/L		01/31/25 11:14	02/04/25 21:17	1
Pyridine	ND	*1 *- UJ	9.3	9.3	ug/L		01/31/25 11:14	02/04/25 21:17	1
Quinoline	ND		9.3	2.2	ug/L		01/31/25 11:14	02/04/25 21:17	1
2,4,5-Trichlorophenol	ND		9.3	3.7	ug/L		01/31/25 11:14	02/04/25 21:17	1
2,4,6-Trichlorophenol	ND		9.3	3.3	ug/L		01/31/25 11:14	02/04/25 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		21 - 114	01/31/25 11:14	02/04/25 21:17	1
2-Fluorophenol	47		10 - 105	01/31/25 11:14	02/04/25 21:17	1
Nitrobenzene-d5	70		16 - 127	01/31/25 11:14	02/04/25 21:17	1
Phenol-d5	33		10 - 129	01/31/25 11:14	02/04/25 21:17	1
Terphenyl-d14	86		13 - 150	01/31/25 11:14	02/04/25 21:17	1
2,4,6-Tribromophenol	107		10 - 150	01/31/25 11:14	02/04/25 21:17	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW22-ROX-012425

Lab Sample ID: 400-269771-6

Date Collected: 01/24/25 14:25

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.10	J	9.9	0.084	ug/L		01/28/25 14:13	01/30/25 17:23	1
Acenaphthylene	ND		9.9	0.047	ug/L		01/28/25 14:13	01/30/25 17:23	1
Anthracene	ND		9.9	0.072	ug/L		01/28/25 14:13	01/30/25 17:23	1
Benzo[a]anthracene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 17:23	1
Benzo[a]pyrene	ND		9.9	0.045	ug/L		01/28/25 14:13	01/30/25 17:23	1
Benzo[b]fluoranthene	ND		9.9	0.042	ug/L		01/28/25 14:13	01/30/25 17:23	1
Benzo[g,h,i]perylene	ND		9.9	0.051	ug/L		01/28/25 14:13	01/30/25 17:23	1
Benzo[k]fluoranthene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 17:23	1
Chrysene	ND		9.9	0.039	ug/L		01/28/25 14:13	01/30/25 17:23	1
Dibenz(a,h)anthracene	ND		9.9	0.044	ug/L		01/28/25 14:13	01/30/25 17:23	1
Fluoranthene	ND		9.9	0.032	ug/L		01/28/25 14:13	01/30/25 17:23	1
Fluorene	ND		9.9	0.086	ug/L		01/28/25 14:13	01/30/25 17:23	1
Indeno[1,2,3-cd]pyrene	ND		9.9	0.032	ug/L		01/28/25 14:13	01/30/25 17:23	1
1-Methylnaphthalene	23		9.9	0.065	ug/L		01/28/25 14:13	01/30/25 17:23	1
2-Methylnaphthalene	38		9.9	0.076	ug/L		01/28/25 14:13	01/30/25 17:23	1
Phenanthrene	0.048	J	9.9	0.044	ug/L		01/28/25 14:13	01/30/25 17:23	1
Pyrene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/28/25 14:13	01/30/25 17:23	1
Nitrobenzene-d5	82		50 - 150	01/28/25 14:13	01/30/25 17:23	1
Terphenyl-d14	106		43 - 147	01/28/25 14:13	01/30/25 17:23	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/28/25 10:54	01/28/25 21:13	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/28/25 10:54	01/28/25 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		51 - 149	01/28/25 10:54	01/28/25 21:13	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: TB-ROX-012425-8260-B

Lab Sample ID: 400-269771-7

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/04/25 13:56	1
Acrolein	ND		20	3.3	ug/L			02/04/25 13:56	1
Acrylonitrile	ND		10	2.8	ug/L			02/04/25 13:56	1
Benzene	ND		1.0	0.50	ug/L			02/04/25 13:56	1
Bromobenzene	ND		1.0	0.54	ug/L			02/04/25 13:56	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/04/25 13:56	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/04/25 13:56	1
Bromoform	ND		5.0	0.25	ug/L			02/04/25 13:56	1
Bromomethane	ND		1.0	0.98	ug/L			02/04/25 13:56	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/04/25 13:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/04/25 13:56	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/04/25 13:56	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/04/25 13:56	1
Chloroethane	ND		1.0	0.76	ug/L			02/04/25 13:56	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/04/25 13:56	1
Chloroform	ND		1.0	0.90	ug/L			02/04/25 13:56	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/04/25 13:56	1
Chloromethane	ND		1.0	0.40	ug/L			02/04/25 13:56	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/04/25 13:56	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/04/25 13:56	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/04/25 13:56	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/04/25 13:56	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/04/25 13:56	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/04/25 13:56	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/04/25 13:56	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/04/25 13:56	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/04/25 13:56	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 13:56	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:56	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:56	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 13:56	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/04/25 13:56	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/04/25 13:56	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/04/25 13:56	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/04/25 13:56	1
2-Hexanone	ND		25	4.3	ug/L			02/04/25 13:56	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/04/25 13:56	1
Methylene bromide	ND		5.0	0.22	ug/L			02/04/25 13:56	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/04/25 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/04/25 13:56	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/04/25 13:56	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/04/25 13:56	1
Naphthalene	ND		5.0	3.0	ug/L			02/04/25 13:56	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/04/25 13:56	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/04/25 13:56	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/04/25 13:56	1
o-Xylene	ND		5.0	3.0	ug/L			02/04/25 13:56	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/04/25 13:56	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/04/25 13:56	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: TB-ROX-012425-8260-B

Lab Sample ID: 400-269771-7

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/04/25 13:56	1
Styrene	ND		1.0	1.0	ug/L			02/04/25 13:56	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/04/25 13:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/04/25 13:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/04/25 13:56	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/04/25 13:56	1
Toluene	ND		1.0	0.90	ug/L			02/04/25 13:56	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 13:56	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/04/25 13:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/04/25 13:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/04/25 13:56	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/04/25 13:56	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/04/25 13:56	1
Trichloroethene	ND		1.0	0.15	ug/L			02/04/25 13:56	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/04/25 13:56	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/04/25 13:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/04/25 13:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/04/25 13:56	1
Vinyl acetate	ND		25	0.93	ug/L			02/04/25 13:56	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/04/25 13:56	1
Xylenes, Total	ND		10	6.0	ug/L			02/04/25 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/04/25 13:56	1
Dibromofluoromethane	95		79 - 130		02/04/25 13:56	1
Toluene-d8 (Surr)	101		64 - 132		02/04/25 13:56	1

Client Sample Results

Client: AECOM

Job ID: 400-269771-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012425-8011-B

Lab Sample ID: 400-269771-8

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/28/25 10:54	01/28/25 21:33	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/28/25 10:54	01/28/25 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	75		51 - 149				01/28/25 10:54	01/28/25 21:33	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425

Lab Sample ID: 400-269771-9

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	33		25	10	ug/L			02/04/25 15:10	1
Acrolein	ND		20	3.3	ug/L			02/04/25 15:10	1
Acrylonitrile	ND		10	2.8	ug/L			02/04/25 15:10	1
Benzene	230	J	1.0	0.50	ug/L			02/04/25 15:10	1
Bromobenzene	ND		1.0	0.54	ug/L			02/04/25 15:10	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/04/25 15:10	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/04/25 15:10	1
Bromoform	ND		5.0	0.25	ug/L			02/04/25 15:10	1
Bromomethane	ND		1.0	0.98	ug/L			02/04/25 15:10	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/04/25 15:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/04/25 15:10	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/04/25 15:10	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/04/25 15:10	1
Chloroethane	ND		1.0	0.76	ug/L			02/04/25 15:10	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/04/25 15:10	1
Chloroform	ND		1.0	0.90	ug/L			02/04/25 15:10	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/04/25 15:10	1
Chloromethane	ND		1.0	0.40	ug/L			02/04/25 15:10	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/04/25 15:10	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/04/25 15:10	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/04/25 15:10	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/04/25 15:10	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/04/25 15:10	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/04/25 15:10	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/04/25 15:10	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/04/25 15:10	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/04/25 15:10	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 15:10	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 15:10	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 15:10	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 15:10	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/04/25 15:10	1
Ethylbenzene	88	J	1.0	0.50	ug/L			02/04/25 15:10	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/04/25 15:10	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/04/25 15:10	1
2-Hexanone	ND		25	4.3	ug/L			02/04/25 15:10	1
Isopropylbenzene	28		1.0	0.53	ug/L			02/04/25 15:10	1
Methylene bromide	ND		5.0	0.22	ug/L			02/04/25 15:10	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/04/25 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/04/25 15:10	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/04/25 15:10	1
m-Xylene & p-Xylene	190	J	5.0	3.0	ug/L			02/04/25 15:10	1
Naphthalene	24	J	5.0	3.0	ug/L			02/04/25 15:10	1
n-Butylbenzene	3.1		1.0	0.76	ug/L			02/04/25 15:10	1
N-Propylbenzene	40		1.0	0.69	ug/L			02/04/25 15:10	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/04/25 15:10	1
o-Xylene	11		5.0	3.0	ug/L			02/04/25 15:10	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/04/25 15:10	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/04/25 15:10	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425

Lab Sample ID: 400-269771-9

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.9		1.0	0.70	ug/L			02/04/25 15:10	1
Styrene	ND		1.0	1.0	ug/L			02/04/25 15:10	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/04/25 15:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/04/25 15:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/04/25 15:10	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/04/25 15:10	1
Toluene	60	J	1.0	0.90	ug/L			02/04/25 15:10	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 15:10	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/04/25 15:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/04/25 15:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/04/25 15:10	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/04/25 15:10	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/04/25 15:10	1
Trichloroethene	ND		1.0	0.15	ug/L			02/04/25 15:10	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/04/25 15:10	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/04/25 15:10	1
1,2,4-Trimethylbenzene	170		1.0	0.82	ug/L			02/04/25 15:10	1
1,3,5-Trimethylbenzene	43		1.0	0.56	ug/L			02/04/25 15:10	1
Vinyl acetate	ND		25	0.93	ug/L			02/04/25 15:10	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/04/25 15:10	1
Xylenes, Total	200	J	10	6.0	ug/L			02/04/25 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		56 - 136		02/04/25 15:10	1
Dibromofluoromethane	97		79 - 130		02/04/25 15:10	1
Toluene-d8 (Surr)	100		64 - 132		02/04/25 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*1 UJ	10	9.0	ug/L		01/31/25 11:14	02/05/25 16:56	1
Benzenethiol	ND		10	10	ug/L		01/31/25 11:14	02/05/25 16:56	1
Benzoic acid	ND		31	25	ug/L		01/31/25 11:14	02/05/25 16:56	1
Benzyl alcohol	ND		10	7.6	ug/L		01/31/25 11:14	02/05/25 16:56	1
Bis(2-chloroethoxy)methane	ND		10	4.8	ug/L		01/31/25 11:14	02/05/25 16:56	1
Bis(2-chloroethyl)ether	ND		10	4.0	ug/L		01/31/25 11:14	02/05/25 16:56	1
bis (2-chloroisopropyl) ether	ND		10	1.9	ug/L		01/31/25 11:14	02/05/25 16:56	1
Bis(2-ethylhexyl) phthalate	ND		10	9.2	ug/L		01/31/25 11:14	02/05/25 16:56	1
4-Bromophenyl phenyl ether	ND		10	8.9	ug/L		01/31/25 11:14	02/05/25 16:56	1
Butyl benzyl phthalate	ND		10	6.0	ug/L		01/31/25 11:14	02/05/25 16:56	1
4-Chloroaniline	ND		10	4.9	ug/L		01/31/25 11:14	02/05/25 16:56	1
4-Chloro-3-methylphenol	ND		10	5.5	ug/L		01/31/25 11:14	02/05/25 16:56	1
2-Chloronaphthalene	ND		10	3.9	ug/L		01/31/25 11:14	02/05/25 16:56	1
2-Chlorophenol	ND		10	4.3	ug/L		01/31/25 11:14	02/05/25 16:56	1
4-Chlorophenyl phenyl ether	ND		10	3.8	ug/L		01/31/25 11:14	02/05/25 16:56	1
Dibenz[a,h]acridine	ND		10	2.9	ug/L		01/31/25 11:14	02/05/25 16:56	1
Dibenzofuran	ND		10	4.1	ug/L		01/31/25 11:14	02/05/25 16:56	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		01/31/25 11:14	02/05/25 16:56	1
2,4-Dichlorophenol	ND		10	4.5	ug/L		01/31/25 11:14	02/05/25 16:56	1
Diethyl phthalate	ND		10	4.6	ug/L		01/31/25 11:14	02/05/25 16:56	1
2,4-Dimethylphenol	ND		10	5.4	ug/L		01/31/25 11:14	02/05/25 16:56	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425

Lab Sample ID: 400-269771-9

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.4	ug/L		01/31/25 11:14	02/05/25 16:56	1
Di-n-butyl phthalate	ND		10	4.8	ug/L		01/31/25 11:14	02/05/25 16:56	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/31/25 11:14	02/05/25 16:56	1
2,4-Dinitrophenol	ND		31	4.8	ug/L		01/31/25 11:14	02/05/25 16:56	1
2,4-Dinitrotoluene	ND		10	5.3	ug/L		01/31/25 11:14	02/05/25 16:56	1
2,6-Dinitrotoluene	ND		10	4.0	ug/L		01/31/25 11:14	02/05/25 16:56	1
Di-n-octyl phthalate	ND		10	6.2	ug/L		01/31/25 11:14	02/05/25 16:56	1
1,4-Dioxane	ND	*1	10	4.5	ug/L		01/31/25 11:14	02/05/25 16:56	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.4	ug/L		01/31/25 11:14	02/05/25 16:56	1
Hexachlorobenzene	ND		10	10	ug/L		01/31/25 11:14	02/05/25 16:56	1
Hexachlorocyclopentadiene	ND		21	4.7	ug/L		01/31/25 11:14	02/05/25 16:56	1
Hexachloroethane	ND		10	5.4	ug/L		01/31/25 11:14	02/05/25 16:56	1
Indene	ND		10	3.7	ug/L		01/31/25 11:14	02/05/25 16:56	1
Isophorone	ND		10	5.4	ug/L		01/31/25 11:14	02/05/25 16:56	1
2-Methylphenol	ND		10	3.3	ug/L		01/31/25 11:14	02/05/25 16:56	1
3 & 4 Methylphenol	ND		21	4.8	ug/L		01/31/25 11:14	02/05/25 16:56	1
2-Nitroaniline	ND		10	5.2	ug/L		01/31/25 11:14	02/05/25 16:56	1
3-Nitroaniline	ND		10	4.9	ug/L		01/31/25 11:14	02/05/25 16:56	1
4-Nitroaniline	ND		10	4.3	ug/L		01/31/25 11:14	02/05/25 16:56	1
Nitrobenzene	ND		10	4.9	ug/L		01/31/25 11:14	02/05/25 16:56	1
2-Nitrophenol	ND		10	4.8	ug/L		01/31/25 11:14	02/05/25 16:56	1
4-Nitrophenol	ND		10	3.4	ug/L		01/31/25 11:14	02/05/25 16:56	1
N-Nitrosodimethylamine	ND		10	2.3	ug/L		01/31/25 11:14	02/05/25 16:56	1
N-Nitrosodi-n-propylamine	ND		10	2.6	ug/L		01/31/25 11:14	02/05/25 16:56	1
N-Nitrosodiphenylamine	ND		10	3.8	ug/L		01/31/25 11:14	02/05/25 16:56	1
Pentachlorophenol	ND		21	12	ug/L		01/31/25 11:14	02/05/25 16:56	1
Phenol	5.0	J	10	4.4	ug/L		01/31/25 11:14	02/05/25 16:56	1
Pyridine	ND	*- *1 UJ	10	10	ug/L		01/31/25 11:14	02/05/25 16:56	1
Quinoline	ND		10	2.5	ug/L		01/31/25 11:14	02/05/25 16:56	1
2,4,5-Trichlorophenol	ND		10	4.1	ug/L		01/31/25 11:14	02/05/25 16:56	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/31/25 11:14	02/05/25 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		21 - 114	01/31/25 11:14	02/05/25 16:56	1
2-Fluorophenol	59		10 - 105	01/31/25 11:14	02/05/25 16:56	1
Nitrobenzene-d5	82		16 - 127	01/31/25 11:14	02/05/25 16:56	1
Phenol-d5	39		10 - 129	01/31/25 11:14	02/05/25 16:56	1
Terphenyl-d14	99		13 - 150	01/31/25 11:14	02/05/25 16:56	1
2,4,6-Tribromophenol	127		10 - 150	01/31/25 11:14	02/05/25 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.64	J	10	0.086	ug/L		01/28/25 14:13	01/30/25 17:54	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 17:54	1
Anthracene	0.086	J	10	0.073	ug/L		01/28/25 14:13	01/30/25 17:54	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 17:54	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 17:54	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 17:54	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 17:54	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425

Lab Sample ID: 400-269771-9

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 17:54	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 17:54	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 17:54	1
Fluoranthene	0.086	J	10	0.032	ug/L		01/28/25 14:13	01/30/25 17:54	1
Fluorene	0.30	J	10	0.088	ug/L		01/28/25 14:13	01/30/25 17:54	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 17:54	1
1-Methylnaphthalene	18		10	0.066	ug/L		01/28/25 14:13	01/30/25 17:54	1
2-Methylnaphthalene	25		10	0.078	ug/L		01/28/25 14:13	01/30/25 17:54	1
Phenanthrene	0.55	J	10	0.044	ug/L		01/28/25 14:13	01/30/25 17:54	1
Pyrene	0.20	J	10	0.040	ug/L		01/28/25 14:13	01/30/25 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		15 - 150	01/28/25 14:13	01/30/25 17:54	1
Nitrobenzene-d5	88		50 - 150	01/28/25 14:13	01/30/25 17:54	1
Terphenyl-d14	97		43 - 147	01/28/25 14:13	01/30/25 17:54	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.034	0.019	ug/L		01/28/25 10:54	01/28/25 21:54	1
1,2-Dibromoethane	ND		0.023	0.017	ug/L		01/28/25 10:54	01/28/25 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		51 - 149	01/28/25 10:54	01/28/25 21:54	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425-DUP

Lab Sample ID: 400-269771-10

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	34		25	10	ug/L			02/04/25 15:34	1
Acrolein	ND		20	3.3	ug/L			02/04/25 15:34	1
Acrylonitrile	ND		10	2.8	ug/L			02/04/25 15:34	1
Bromobenzene	ND		1.0	0.54	ug/L			02/04/25 15:34	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/04/25 15:34	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/04/25 15:34	1
Bromoform	ND		5.0	0.25	ug/L			02/04/25 15:34	1
Bromomethane	ND		1.0	0.98	ug/L			02/04/25 15:34	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/04/25 15:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/04/25 15:34	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/04/25 15:34	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/04/25 15:34	1
Chloroethane	ND		1.0	0.76	ug/L			02/04/25 15:34	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/04/25 15:34	1
Chloroform	ND		1.0	0.90	ug/L			02/04/25 15:34	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/04/25 15:34	1
Chloromethane	ND		1.0	0.40	ug/L			02/04/25 15:34	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/04/25 15:34	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/04/25 15:34	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/04/25 15:34	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/04/25 15:34	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/04/25 15:34	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/04/25 15:34	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/04/25 15:34	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/04/25 15:34	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/04/25 15:34	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 15:34	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 15:34	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 15:34	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 15:34	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/04/25 15:34	1
Ethylbenzene	160 J		1.0	0.50	ug/L			02/04/25 15:34	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/04/25 15:34	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/04/25 15:34	1
2-Hexanone	ND		25	4.3	ug/L			02/04/25 15:34	1
Isopropylbenzene	34		1.0	0.53	ug/L			02/04/25 15:34	1
Methylene bromide	ND		5.0	0.22	ug/L			02/04/25 15:34	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/04/25 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/04/25 15:34	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/04/25 15:34	1
m-Xylene & p-Xylene	290 J		5.0	3.0	ug/L			02/04/25 15:34	1
Naphthalene	37 J		5.0	3.0	ug/L			02/04/25 15:34	1
n-Butylbenzene	3.7		1.0	0.76	ug/L			02/04/25 15:34	1
N-Propylbenzene	50		1.0	0.69	ug/L			02/04/25 15:34	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/04/25 15:34	1
o-Xylene	14		5.0	3.0	ug/L			02/04/25 15:34	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/04/25 15:34	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/04/25 15:34	1
sec-Butylbenzene	2.2		1.0	0.70	ug/L			02/04/25 15:34	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425-DUP

Lab Sample ID: 400-269771-10

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	1.0	ug/L			02/04/25 15:34	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/04/25 15:34	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/04/25 15:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/04/25 15:34	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/04/25 15:34	1
Toluene	90	J	1.0	0.90	ug/L			02/04/25 15:34	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 15:34	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/04/25 15:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/04/25 15:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/04/25 15:34	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/04/25 15:34	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/04/25 15:34	1
Trichloroethene	ND		1.0	0.15	ug/L			02/04/25 15:34	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/04/25 15:34	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/04/25 15:34	1
1,2,4-Trimethylbenzene	210		1.0	0.82	ug/L			02/04/25 15:34	1
1,3,5-Trimethylbenzene	50		1.0	0.56	ug/L			02/04/25 15:34	1
Vinyl acetate	ND		25	0.93	ug/L			02/04/25 15:34	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/04/25 15:34	1
Xylenes, Total	310	J	10	6.0	ug/L			02/04/25 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		56 - 136		02/04/25 15:34	1
Dibromofluoromethane	95		79 - 130		02/04/25 15:34	1
Toluene-d8 (Surr)	101		64 - 132		02/04/25 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	410	J	2.0	1.0	ug/L			02/05/25 20:33	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		56 - 136		02/05/25 20:33	2
Dibromofluoromethane	95		79 - 130		02/05/25 20:33	2
Toluene-d8 (Surr)	95		64 - 132		02/05/25 20:33	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*1 UJ	10	8.9	ug/L		01/31/25 11:14	02/05/25 17:19	1
Benzenethiol	ND		10	10	ug/L		01/31/25 11:14	02/05/25 17:19	1
Benzoic acid	ND		31	25	ug/L		01/31/25 11:14	02/05/25 17:19	1
Benzyl alcohol	ND		10	7.5	ug/L		01/31/25 11:14	02/05/25 17:19	1
Bis(2-chloroethoxy)methane	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 17:19	1
Bis(2-chloroethyl)ether	ND		10	4.0	ug/L		01/31/25 11:14	02/05/25 17:19	1
bis (2-chloroisopropyl) ether	ND		10	1.9	ug/L		01/31/25 11:14	02/05/25 17:19	1
Bis(2-ethylhexyl) phthalate	ND		10	9.1	ug/L		01/31/25 11:14	02/05/25 17:19	1
4-Bromophenyl phenyl ether	ND		10	8.8	ug/L		01/31/25 11:14	02/05/25 17:19	1
Butyl benzyl phthalate	ND		10	6.0	ug/L		01/31/25 11:14	02/05/25 17:19	1
4-Chloroaniline	ND		10	4.8	ug/L		01/31/25 11:14	02/05/25 17:19	1
4-Chloro-3-methylphenol	ND		10	5.4	ug/L		01/31/25 11:14	02/05/25 17:19	1
2-Chloronaphthalene	ND		10	3.9	ug/L		01/31/25 11:14	02/05/25 17:19	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425-DUP

Lab Sample ID: 400-269771-10

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	4.2	ug/L		01/31/25 11:14	02/05/25 17:19	1
4-Chlorophenyl phenyl ether	ND		10	3.8	ug/L		01/31/25 11:14	02/05/25 17:19	1
Dibenz[a,h]acridine	ND		10	2.9	ug/L		01/31/25 11:14	02/05/25 17:19	1
Dibenzofuran	ND		10	4.1	ug/L		01/31/25 11:14	02/05/25 17:19	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		01/31/25 11:14	02/05/25 17:19	1
2,4-Dichlorophenol	ND		10	4.4	ug/L		01/31/25 11:14	02/05/25 17:19	1
Diethyl phthalate	ND		10	4.5	ug/L		01/31/25 11:14	02/05/25 17:19	1
2,4-Dimethylphenol	ND		10	5.3	ug/L		01/31/25 11:14	02/05/25 17:19	1
Dimethyl phthalate	ND		10	4.3	ug/L		01/31/25 11:14	02/05/25 17:19	1
Di-n-butyl phthalate	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 17:19	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/31/25 11:14	02/05/25 17:19	1
2,4-Dinitrophenol	ND		31	4.7	ug/L		01/31/25 11:14	02/05/25 17:19	1
2,4-Dinitrotoluene	ND		10	5.2	ug/L		01/31/25 11:14	02/05/25 17:19	1
2,6-Dinitrotoluene	ND		10	4.0	ug/L		01/31/25 11:14	02/05/25 17:19	1
Di-n-octyl phthalate	ND		10	6.2	ug/L		01/31/25 11:14	02/05/25 17:19	1
1,4-Dioxane	ND	*1	10	4.4	ug/L		01/31/25 11:14	02/05/25 17:19	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.4	ug/L		01/31/25 11:14	02/05/25 17:19	1
Hexachlorobenzene	ND		10	10	ug/L		01/31/25 11:14	02/05/25 17:19	1
Hexachlorocyclopentadiene	ND		21	4.6	ug/L		01/31/25 11:14	02/05/25 17:19	1
Hexachloroethane	ND		10	5.3	ug/L		01/31/25 11:14	02/05/25 17:19	1
Indene	ND		10	3.7	ug/L		01/31/25 11:14	02/05/25 17:19	1
Isophorone	ND		10	5.3	ug/L		01/31/25 11:14	02/05/25 17:19	1
2-Methylphenol	ND		10	3.3	ug/L		01/31/25 11:14	02/05/25 17:19	1
3 & 4 Methylphenol	ND		21	4.7	ug/L		01/31/25 11:14	02/05/25 17:19	1
2-Nitroaniline	ND		10	5.1	ug/L		01/31/25 11:14	02/05/25 17:19	1
3-Nitroaniline	ND		10	4.8	ug/L		01/31/25 11:14	02/05/25 17:19	1
4-Nitroaniline	ND		10	4.2	ug/L		01/31/25 11:14	02/05/25 17:19	1
Nitrobenzene	ND		10	4.8	ug/L		01/31/25 11:14	02/05/25 17:19	1
2-Nitrophenol	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 17:19	1
4-Nitrophenol	ND		10	3.4	ug/L		01/31/25 11:14	02/05/25 17:19	1
N-Nitrosodimethylamine	ND		10	2.3	ug/L		01/31/25 11:14	02/05/25 17:19	1
N-Nitrosodi-n-propylamine	ND		10	2.6	ug/L		01/31/25 11:14	02/05/25 17:19	1
N-Nitrosodiphenylamine	ND		10	3.8	ug/L		01/31/25 11:14	02/05/25 17:19	1
Pentachlorophenol	ND		21	12	ug/L		01/31/25 11:14	02/05/25 17:19	1
Phenol	4.3	J	10	4.3	ug/L		01/31/25 11:14	02/05/25 17:19	1
Pyridine	ND	*- *1 UJ	10	10	ug/L		01/31/25 11:14	02/05/25 17:19	1
Quinoline	ND		10	2.5	ug/L		01/31/25 11:14	02/05/25 17:19	1
2,4,5-Trichlorophenol	ND		10	4.1	ug/L		01/31/25 11:14	02/05/25 17:19	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/31/25 11:14	02/05/25 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		21 - 114	01/31/25 11:14	02/05/25 17:19	1
2-Fluorophenol	42		10 - 105	01/31/25 11:14	02/05/25 17:19	1
Nitrobenzene-d5	67		16 - 127	01/31/25 11:14	02/05/25 17:19	1
Phenol-d5	32		10 - 129	01/31/25 11:14	02/05/25 17:19	1
Terphenyl-d14	92		13 - 150	01/31/25 11:14	02/05/25 17:19	1
2,4,6-Tribromophenol	113		10 - 150	01/31/25 11:14	02/05/25 17:19	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425-DUP

Lab Sample ID: 400-269771-10

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.57	J	10	0.086	ug/L		01/28/25 14:13	01/30/25 18:24	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 18:24	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 18:24	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 18:24	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 18:24	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 18:24	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 18:24	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 18:24	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 18:24	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 18:24	1
Fluoranthene	0.071	J	10	0.032	ug/L		01/28/25 14:13	01/30/25 18:24	1
Fluorene	0.26	J	10	0.088	ug/L		01/28/25 14:13	01/30/25 18:24	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 18:24	1
1-Methylnaphthalene	17		10	0.066	ug/L		01/28/25 14:13	01/30/25 18:24	1
2-Methylnaphthalene	25		10	0.078	ug/L		01/28/25 14:13	01/30/25 18:24	1
Phenanthrene	0.50	J	10	0.044	ug/L		01/28/25 14:13	01/30/25 18:24	1
Pyrene	0.15	J	10	0.040	ug/L		01/28/25 14:13	01/30/25 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/28/25 14:13	01/30/25 18:24	1
Nitrobenzene-d5	98		50 - 150	01/28/25 14:13	01/30/25 18:24	1
Terphenyl-d14	97		43 - 147	01/28/25 14:13	01/30/25 18:24	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.018	ug/L		01/28/25 10:54	01/28/25 22:15	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/28/25 10:54	01/28/25 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	65		51 - 149	01/28/25 10:54	01/28/25 22:15	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P74-ROX-012425

Lab Sample ID: 400-269771-11

Date Collected: 01/24/25 11:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250	100	ug/L			02/04/25 17:12	10
Acrolein	ND		200	33	ug/L			02/04/25 17:12	10
Acrylonitrile	ND		100	28	ug/L			02/04/25 17:12	10
Bromobenzene	ND		10	5.4	ug/L			02/04/25 17:12	10
Bromochloromethane	ND		10	5.2	ug/L			02/04/25 17:12	10
Bromodichloromethane	ND		10	5.0	ug/L			02/04/25 17:12	10
Bromoform	ND		50	2.5	ug/L			02/04/25 17:12	10
Bromomethane	ND		10	9.8	ug/L			02/04/25 17:12	10
2-Butanone (MEK)	ND		250	26	ug/L			02/04/25 17:12	10
Carbon disulfide	ND		10	5.0	ug/L			02/04/25 17:12	10
Carbon tetrachloride	ND		10	1.9	ug/L			02/04/25 17:12	10
Chlorobenzene	ND		10	4.2	ug/L			02/04/25 17:12	10
Chloroethane	ND		10	7.6	ug/L			02/04/25 17:12	10
2-Chloroethyl vinyl ether	ND		50	20	ug/L			02/04/25 17:12	10
Chloroform	ND		10	9.0	ug/L			02/04/25 17:12	10
1-Chlorohexane	ND		10	3.2	ug/L			02/04/25 17:12	10
Chloromethane	ND		10	4.0	ug/L			02/04/25 17:12	10
cis-1,2-Dichloroethene	ND		10	2.0	ug/L			02/04/25 17:12	10
cis-1,3-Dichloropropene	ND		50	5.0	ug/L			02/04/25 17:12	10
Dibromochloromethane	ND		10	2.4	ug/L			02/04/25 17:12	10
1,2-Dichlorobenzene	ND		10	5.0	ug/L			02/04/25 17:12	10
1,3-Dichlorobenzene	ND		10	5.4	ug/L			02/04/25 17:12	10
1,4-Dichlorobenzene	ND		10	6.4	ug/L			02/04/25 17:12	10
Dichlorodifluoromethane	ND		10	8.5	ug/L			02/04/25 17:12	10
1,1-Dichloroethane	ND		10	5.0	ug/L			02/04/25 17:12	10
1,2-Dichloroethane	ND		10	5.5	ug/L			02/04/25 17:12	10
1,1-Dichloroethene	ND		10	5.0	ug/L			02/04/25 17:12	10
1,2-Dichloropropane	ND		10	5.0	ug/L			02/04/25 17:12	10
1,3-Dichloropropane	ND		10	5.0	ug/L			02/04/25 17:12	10
2,2-Dichloropropane	ND		10	5.0	ug/L			02/04/25 17:12	10
1,1-Dichloropropene	ND		10	0.90	ug/L			02/04/25 17:12	10
Ethylbenzene	52		10	5.0	ug/L			02/04/25 17:12	10
Ethyl methacrylate	ND		10	6.0	ug/L			02/04/25 17:12	10
Hexachlorobutadiene	ND		50	9.0	ug/L			02/04/25 17:12	10
2-Hexanone	ND		250	43	ug/L			02/04/25 17:12	10
Isopropylbenzene	ND		10	5.3	ug/L			02/04/25 17:12	10
Methylene bromide	ND		50	2.2	ug/L			02/04/25 17:12	10
Methylene Chloride	ND		50	30	ug/L			02/04/25 17:12	10
4-Methyl-2-pentanone (MIBK)	ND		250	18	ug/L			02/04/25 17:12	10
Methyl tert-butyl ether	ND		10	2.2	ug/L			02/04/25 17:12	10
m-Xylene & p-Xylene	94		50	30	ug/L			02/04/25 17:12	10
Naphthalene	ND		50	30	ug/L			02/04/25 17:12	10
n-Butylbenzene	ND		10	7.6	ug/L			02/04/25 17:12	10
N-Propylbenzene	ND		10	6.9	ug/L			02/04/25 17:12	10
o-Chlorotoluene	ND		10	5.7	ug/L			02/04/25 17:12	10
o-Xylene	ND		50	30	ug/L			02/04/25 17:12	10
p-Chlorotoluene	ND		10	5.6	ug/L			02/04/25 17:12	10
p-Isopropyltoluene	ND		10	7.1	ug/L			02/04/25 17:12	10
sec-Butylbenzene	ND		10	7.0	ug/L			02/04/25 17:12	10

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P74-ROX-012425

Lab Sample ID: 400-269771-11

Date Collected: 01/24/25 11:45

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		10	10	ug/L			02/04/25 17:12	10
tert-Butylbenzene	ND		10	6.3	ug/L			02/04/25 17:12	10
1,1,1,2-Tetrachloroethane	ND		10	3.8	ug/L			02/04/25 17:12	10
1,1,2,2-Tetrachloroethane	ND		10	5.0	ug/L			02/04/25 17:12	10
Tetrachloroethene	ND		10	3.3	ug/L			02/04/25 17:12	10
Toluene	60		10	9.0	ug/L			02/04/25 17:12	10
trans-1,2-Dichloroethene	ND		10	5.0	ug/L			02/04/25 17:12	10
trans-1,3-Dichloropropene	ND		50	2.0	ug/L			02/04/25 17:12	10
1,2,3-Trichlorobenzene	ND		10	9.0	ug/L			02/04/25 17:12	10
1,2,4-Trichlorobenzene	ND		10	8.2	ug/L			02/04/25 17:12	10
1,1,1-Trichloroethane	ND		10	1.8	ug/L			02/04/25 17:12	10
1,1,2-Trichloroethane	ND		50	2.1	ug/L			02/04/25 17:12	10
Trichloroethene	ND		10	1.5	ug/L			02/04/25 17:12	10
Trichlorofluoromethane	ND		10	2.5	ug/L			02/04/25 17:12	10
1,2,3-Trichloropropane	ND		50	8.4	ug/L			02/04/25 17:12	10
1,2,4-Trimethylbenzene	20		10	8.2	ug/L			02/04/25 17:12	10
1,3,5-Trimethylbenzene	8.3 J		10	5.6	ug/L			02/04/25 17:12	10
Vinyl acetate	ND		250	9.3	ug/L			02/04/25 17:12	10
Vinyl chloride	ND		10	5.0	ug/L			02/04/25 17:12	10
Xylenes, Total	99 J		100	60	ug/L			02/04/25 17:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/04/25 17:12	10
Dibromofluoromethane	95		79 - 130		02/04/25 17:12	10
Toluene-d8 (Surr)	100		64 - 132		02/04/25 17:12	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3500		20	10	ug/L			02/05/25 21:39	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		56 - 136		02/05/25 21:39	20
Dibromofluoromethane	106		79 - 130		02/05/25 21:39	20
Toluene-d8 (Surr)	96		64 - 132		02/05/25 21:39	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*1 UJ	10	8.7	ug/L		01/31/25 11:14	02/05/25 17:41	1
Benzenethiol	ND		10	9.9	ug/L		01/31/25 11:14	02/05/25 17:41	1
Benzoic acid	ND		30	24	ug/L		01/31/25 11:14	02/05/25 17:41	1
Benzyl alcohol	ND		10	7.3	ug/L		01/31/25 11:14	02/05/25 17:41	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/31/25 11:14	02/05/25 17:41	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/31/25 11:14	02/05/25 17:41	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/31/25 11:14	02/05/25 17:41	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/31/25 11:14	02/05/25 17:41	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/31/25 11:14	02/05/25 17:41	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/31/25 11:14	02/05/25 17:41	1
4-Chloroaniline	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 17:41	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/31/25 11:14	02/05/25 17:41	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/31/25 11:14	02/05/25 17:41	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P74-ROX-012425

Lab Sample ID: 400-269771-11

Date Collected: 01/24/25 11:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	4.1	ug/L		01/31/25 11:14	02/05/25 17:41	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/31/25 11:14	02/05/25 17:41	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/31/25 11:14	02/05/25 17:41	1
Dibenzofuran	ND		10	4.0	ug/L		01/31/25 11:14	02/05/25 17:41	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		01/31/25 11:14	02/05/25 17:41	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/31/25 11:14	02/05/25 17:41	1
Diethyl phthalate	ND		10	4.4	ug/L		01/31/25 11:14	02/05/25 17:41	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/31/25 11:14	02/05/25 17:41	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/31/25 11:14	02/05/25 17:41	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/31/25 11:14	02/05/25 17:41	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/31/25 11:14	02/05/25 17:41	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/31/25 11:14	02/05/25 17:41	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/31/25 11:14	02/05/25 17:41	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/31/25 11:14	02/05/25 17:41	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/31/25 11:14	02/05/25 17:41	1
1,4-Dioxane	ND	*1	10	4.3	ug/L		01/31/25 11:14	02/05/25 17:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/31/25 11:14	02/05/25 17:41	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/31/25 11:14	02/05/25 17:41	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/31/25 11:14	02/05/25 17:41	1
Hexachloroethane	ND		10	5.2	ug/L		01/31/25 11:14	02/05/25 17:41	1
Indene	ND		10	3.6	ug/L		01/31/25 11:14	02/05/25 17:41	1
Isophorone	ND		10	5.2	ug/L		01/31/25 11:14	02/05/25 17:41	1
2-Methylphenol	ND		10	3.2	ug/L		01/31/25 11:14	02/05/25 17:41	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/31/25 11:14	02/05/25 17:41	1
2-Nitroaniline	ND		10	5.0	ug/L		01/31/25 11:14	02/05/25 17:41	1
3-Nitroaniline	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 17:41	1
4-Nitroaniline	ND		10	4.1	ug/L		01/31/25 11:14	02/05/25 17:41	1
Nitrobenzene	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 17:41	1
2-Nitrophenol	ND		10	4.6	ug/L		01/31/25 11:14	02/05/25 17:41	1
4-Nitrophenol	ND		10	3.3	ug/L		01/31/25 11:14	02/05/25 17:41	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/31/25 11:14	02/05/25 17:41	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/31/25 11:14	02/05/25 17:41	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/31/25 11:14	02/05/25 17:41	1
Pentachlorophenol	ND		20	12	ug/L		01/31/25 11:14	02/05/25 17:41	1
Phenol	55		10	4.2	ug/L		01/31/25 11:14	02/05/25 17:41	1
Pyridine	ND	*- *1 UJ	10	10	ug/L		01/31/25 11:14	02/05/25 17:41	1
Quinoline	ND		10	2.4	ug/L		01/31/25 11:14	02/05/25 17:41	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/31/25 11:14	02/05/25 17:41	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/31/25 11:14	02/05/25 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		21 - 114	01/31/25 11:14	02/05/25 17:41	1
2-Fluorophenol	38		10 - 105	01/31/25 11:14	02/05/25 17:41	1
Nitrobenzene-d5	71		16 - 127	01/31/25 11:14	02/05/25 17:41	1
Phenol-d5	33		10 - 129	01/31/25 11:14	02/05/25 17:41	1
Terphenyl-d14	99		13 - 150	01/31/25 11:14	02/05/25 17:41	1
2,4,6-Tribromophenol	114		10 - 150	01/31/25 11:14	02/05/25 17:41	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P74-ROX-012425

Lab Sample ID: 400-269771-11

Date Collected: 01/24/25 11:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 18:55	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 18:55	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 18:55	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 18:55	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 18:55	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 18:55	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 18:55	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 18:55	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 18:55	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 18:55	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 18:55	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 18:55	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 18:55	1
1-Methylnaphthalene	0.66	J	10	0.066	ug/L		01/28/25 14:13	01/30/25 18:55	1
2-Methylnaphthalene	0.61	J	10	0.077	ug/L		01/28/25 14:13	01/30/25 18:55	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 18:55	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	120		15 - 150	01/28/25 14:13	01/30/25 18:55	1
Nitrobenzene-d5	122		50 - 150	01/28/25 14:13	01/30/25 18:55	1
Terphenyl-d14	136		43 - 147	01/28/25 14:13	01/30/25 18:55	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/28/25 10:54	01/28/25 22:57	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/28/25 10:54	01/28/25 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	66		51 - 149	01/28/25 10:54	01/28/25 22:57	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: T12-ROX-012425

Lab Sample ID: 400-269771-12

Date Collected: 01/24/25 13:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		130	50	ug/L			02/04/25 16:47	5
Acrolein	ND		100	17	ug/L			02/04/25 16:47	5
Acrylonitrile	ND		50	14	ug/L			02/04/25 16:47	5
Bromobenzene	ND		5.0	2.7	ug/L			02/04/25 16:47	5
Bromochloromethane	ND		5.0	2.6	ug/L			02/04/25 16:47	5
Bromodichloromethane	ND		5.0	2.5	ug/L			02/04/25 16:47	5
Bromoform	ND		25	1.3	ug/L			02/04/25 16:47	5
Bromomethane	ND		5.0	4.9	ug/L			02/04/25 16:47	5
2-Butanone (MEK)	ND		130	13	ug/L			02/04/25 16:47	5
Carbon disulfide	ND		5.0	2.5	ug/L			02/04/25 16:47	5
Carbon tetrachloride	ND		5.0	0.95	ug/L			02/04/25 16:47	5
Chlorobenzene	ND		5.0	2.1	ug/L			02/04/25 16:47	5
Chloroethane	ND		5.0	3.8	ug/L			02/04/25 16:47	5
2-Chloroethyl vinyl ether	ND		25	10	ug/L			02/04/25 16:47	5
Chloroform	ND		5.0	4.5	ug/L			02/04/25 16:47	5
1-Chlorohexane	ND		5.0	1.6	ug/L			02/04/25 16:47	5
Chloromethane	ND		5.0	2.0	ug/L			02/04/25 16:47	5
cis-1,2-Dichloroethene	ND		5.0	1.0	ug/L			02/04/25 16:47	5
cis-1,3-Dichloropropene	ND		25	2.5	ug/L			02/04/25 16:47	5
Dibromochloromethane	ND		5.0	1.2	ug/L			02/04/25 16:47	5
1,2-Dichlorobenzene	ND		5.0	2.5	ug/L			02/04/25 16:47	5
1,3-Dichlorobenzene	ND		5.0	2.7	ug/L			02/04/25 16:47	5
1,4-Dichlorobenzene	ND		5.0	3.2	ug/L			02/04/25 16:47	5
Dichlorodifluoromethane	ND		5.0	4.3	ug/L			02/04/25 16:47	5
1,1-Dichloroethane	ND		5.0	2.5	ug/L			02/04/25 16:47	5
1,2-Dichloroethane	ND		5.0	2.8	ug/L			02/04/25 16:47	5
1,1-Dichloroethene	ND		5.0	2.5	ug/L			02/04/25 16:47	5
1,2-Dichloropropane	ND		5.0	2.5	ug/L			02/04/25 16:47	5
1,3-Dichloropropane	ND		5.0	2.5	ug/L			02/04/25 16:47	5
2,2-Dichloropropane	ND		5.0	2.5	ug/L			02/04/25 16:47	5
1,1-Dichloropropene	ND		5.0	0.45	ug/L			02/04/25 16:47	5
Ethylbenzene	180		5.0	2.5	ug/L			02/04/25 16:47	5
Ethyl methacrylate	ND		5.0	3.0	ug/L			02/04/25 16:47	5
Hexachlorobutadiene	ND		25	4.5	ug/L			02/04/25 16:47	5
2-Hexanone	ND		130	21	ug/L			02/04/25 16:47	5
Isopropylbenzene	28		5.0	2.7	ug/L			02/04/25 16:47	5
Methylene bromide	ND		25	1.1	ug/L			02/04/25 16:47	5
Methylene Chloride	ND		25	15	ug/L			02/04/25 16:47	5
4-Methyl-2-pentanone (MIBK)	ND		130	9.0	ug/L			02/04/25 16:47	5
Methyl tert-butyl ether	ND		5.0	1.1	ug/L			02/04/25 16:47	5
m-Xylene & p-Xylene	710		25	15	ug/L			02/04/25 16:47	5
Naphthalene	69		25	15	ug/L			02/04/25 16:47	5
n-Butylbenzene	ND		5.0	3.8	ug/L			02/04/25 16:47	5
N-Propylbenzene	48		5.0	3.5	ug/L			02/04/25 16:47	5
o-Chlorotoluene	ND		5.0	2.9	ug/L			02/04/25 16:47	5
o-Xylene	100		25	15	ug/L			02/04/25 16:47	5
p-Chlorotoluene	ND		5.0	2.8	ug/L			02/04/25 16:47	5
p-Isopropyltoluene	ND		5.0	3.6	ug/L			02/04/25 16:47	5
sec-Butylbenzene	ND		5.0	3.5	ug/L			02/04/25 16:47	5

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: T12-ROX-012425

Lab Sample ID: 400-269771-12

Date Collected: 01/24/25 13:05

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	5.0	ug/L			02/04/25 16:47	5
tert-Butylbenzene	ND		5.0	3.2	ug/L			02/04/25 16:47	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.9	ug/L			02/04/25 16:47	5
1,1,2,2-Tetrachloroethane	ND		5.0	2.5	ug/L			02/04/25 16:47	5
Tetrachloroethene	ND		5.0	1.7	ug/L			02/04/25 16:47	5
Toluene	230		5.0	4.5	ug/L			02/04/25 16:47	5
trans-1,2-Dichloroethene	ND		5.0	2.5	ug/L			02/04/25 16:47	5
trans-1,3-Dichloropropene	ND		25	1.0	ug/L			02/04/25 16:47	5
1,2,3-Trichlorobenzene	ND		5.0	4.5	ug/L			02/04/25 16:47	5
1,2,4-Trichlorobenzene	ND		5.0	4.1	ug/L			02/04/25 16:47	5
1,1,1-Trichloroethane	ND		5.0	0.90	ug/L			02/04/25 16:47	5
1,1,2-Trichloroethane	ND		25	1.1	ug/L			02/04/25 16:47	5
Trichloroethene	ND		5.0	0.75	ug/L			02/04/25 16:47	5
Trichlorofluoromethane	ND		5.0	1.3	ug/L			02/04/25 16:47	5
1,2,3-Trichloropropane	ND		25	4.2	ug/L			02/04/25 16:47	5
1,2,4-Trimethylbenzene	37		5.0	4.1	ug/L			02/04/25 16:47	5
1,3,5-Trimethylbenzene	39		5.0	2.8	ug/L			02/04/25 16:47	5
Vinyl acetate	ND		130	4.7	ug/L			02/04/25 16:47	5
Vinyl chloride	ND		5.0	2.5	ug/L			02/04/25 16:47	5
Xylenes, Total	820		50	30	ug/L			02/04/25 16:47	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/04/25 16:47	5
Dibromofluoromethane	95		79 - 130		02/04/25 16:47	5
Toluene-d8 (Surr)	102		64 - 132		02/04/25 16:47	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1800		10	5.0	ug/L			02/05/25 21:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		56 - 136		02/05/25 21:17	10
Dibromofluoromethane	99		79 - 130		02/05/25 21:17	10
Toluene-d8 (Surr)	95		64 - 132		02/05/25 21:17	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*1 UJ	10	8.7	ug/L		01/31/25 11:14	02/05/25 18:04	1
Benzenethiol	ND		10	9.9	ug/L		01/31/25 11:14	02/05/25 18:04	1
Benzoic acid	ND		30	24	ug/L		01/31/25 11:14	02/05/25 18:04	1
Benzyl alcohol	ND		10	7.3	ug/L		01/31/25 11:14	02/05/25 18:04	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/31/25 11:14	02/05/25 18:04	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/31/25 11:14	02/05/25 18:04	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/31/25 11:14	02/05/25 18:04	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/31/25 11:14	02/05/25 18:04	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/31/25 11:14	02/05/25 18:04	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/31/25 11:14	02/05/25 18:04	1
4-Chloroaniline	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 18:04	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/31/25 11:14	02/05/25 18:04	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/31/25 11:14	02/05/25 18:04	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: T12-ROX-012425

Lab Sample ID: 400-269771-12

Date Collected: 01/24/25 13:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		10	4.1	ug/L		01/31/25 11:14	02/05/25 18:04	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/31/25 11:14	02/05/25 18:04	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/31/25 11:14	02/05/25 18:04	1
Dibenzofuran	ND		10	4.0	ug/L		01/31/25 11:14	02/05/25 18:04	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		01/31/25 11:14	02/05/25 18:04	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/31/25 11:14	02/05/25 18:04	1
Diethyl phthalate	ND		10	4.4	ug/L		01/31/25 11:14	02/05/25 18:04	1
2,4-Dimethylphenol	6.2	J	10	5.2	ug/L		01/31/25 11:14	02/05/25 18:04	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/31/25 11:14	02/05/25 18:04	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/31/25 11:14	02/05/25 18:04	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/31/25 11:14	02/05/25 18:04	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/31/25 11:14	02/05/25 18:04	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/31/25 11:14	02/05/25 18:04	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/31/25 11:14	02/05/25 18:04	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/31/25 11:14	02/05/25 18:04	1
1,4-Dioxane	ND	*1	10	4.3	ug/L		01/31/25 11:14	02/05/25 18:04	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/31/25 11:14	02/05/25 18:04	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/31/25 11:14	02/05/25 18:04	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/31/25 11:14	02/05/25 18:04	1
Hexachloroethane	ND		10	5.2	ug/L		01/31/25 11:14	02/05/25 18:04	1
Indene	ND		10	3.6	ug/L		01/31/25 11:14	02/05/25 18:04	1
Isophorone	ND		10	5.2	ug/L		01/31/25 11:14	02/05/25 18:04	1
2-Methylphenol	ND		10	3.2	ug/L		01/31/25 11:14	02/05/25 18:04	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/31/25 11:14	02/05/25 18:04	1
2-Nitroaniline	ND		10	5.0	ug/L		01/31/25 11:14	02/05/25 18:04	1
3-Nitroaniline	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 18:04	1
4-Nitroaniline	ND		10	4.1	ug/L		01/31/25 11:14	02/05/25 18:04	1
Nitrobenzene	ND		10	4.7	ug/L		01/31/25 11:14	02/05/25 18:04	1
2-Nitrophenol	ND		10	4.6	ug/L		01/31/25 11:14	02/05/25 18:04	1
4-Nitrophenol	ND		10	3.3	ug/L		01/31/25 11:14	02/05/25 18:04	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/31/25 11:14	02/05/25 18:04	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/31/25 11:14	02/05/25 18:04	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/31/25 11:14	02/05/25 18:04	1
Pentachlorophenol	ND		20	12	ug/L		01/31/25 11:14	02/05/25 18:04	1
Phenol	25		10	4.2	ug/L		01/31/25 11:14	02/05/25 18:04	1
Pyridine	ND	*- *1 UJ	10	10	ug/L		01/31/25 11:14	02/05/25 18:04	1
Quinoline	ND		10	2.4	ug/L		01/31/25 11:14	02/05/25 18:04	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/31/25 11:14	02/05/25 18:04	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/31/25 11:14	02/05/25 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		21 - 114	01/31/25 11:14	02/05/25 18:04	1
2-Fluorophenol	47		10 - 105	01/31/25 11:14	02/05/25 18:04	1
Nitrobenzene-d5	69		16 - 127	01/31/25 11:14	02/05/25 18:04	1
Phenol-d5	35		10 - 129	01/31/25 11:14	02/05/25 18:04	1
Terphenyl-d14	97		13 - 150	01/31/25 11:14	02/05/25 18:04	1
2,4,6-Tribromophenol	113		10 - 150	01/31/25 11:14	02/05/25 18:04	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: T12-ROX-012425

Lab Sample ID: 400-269771-12

Date Collected: 01/24/25 13:05

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.36	J	9.9	0.084	ug/L		01/28/25 14:13	01/30/25 19:25	1
Acenaphthylene	ND		9.9	0.047	ug/L		01/28/25 14:13	01/30/25 19:25	1
Anthracene	0.076	J	9.9	0.072	ug/L		01/28/25 14:13	01/30/25 19:25	1
Benzo[a]anthracene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 19:25	1
Benzo[a]pyrene	ND		9.9	0.045	ug/L		01/28/25 14:13	01/30/25 19:25	1
Benzo[b]fluoranthene	ND		9.9	0.042	ug/L		01/28/25 14:13	01/30/25 19:25	1
Benzo[g,h,i]perylene	ND		9.9	0.051	ug/L		01/28/25 14:13	01/30/25 19:25	1
Benzo[k]fluoranthene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 19:25	1
Chrysene	ND		9.9	0.039	ug/L		01/28/25 14:13	01/30/25 19:25	1
Dibenz(a,h)anthracene	ND		9.9	0.044	ug/L		01/28/25 14:13	01/30/25 19:25	1
Fluoranthene	ND		9.9	0.032	ug/L		01/28/25 14:13	01/30/25 19:25	1
Fluorene	0.29	J	9.9	0.086	ug/L		01/28/25 14:13	01/30/25 19:25	1
Indeno[1,2,3-cd]pyrene	ND		9.9	0.032	ug/L		01/28/25 14:13	01/30/25 19:25	1
1-Methylnaphthalene	23		9.9	0.065	ug/L		01/28/25 14:13	01/30/25 19:25	1
2-Methylnaphthalene	39		9.9	0.076	ug/L		01/28/25 14:13	01/30/25 19:25	1
Phenanthrene	0.57	J	9.9	0.044	ug/L		01/28/25 14:13	01/30/25 19:25	1
Pyrene	ND		9.9	0.040	ug/L		01/28/25 14:13	01/30/25 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		15 - 150	01/28/25 14:13	01/30/25 19:25	1
Nitrobenzene-d5	94		50 - 150	01/28/25 14:13	01/30/25 19:25	1
Terphenyl-d14	111		43 - 147	01/28/25 14:13	01/30/25 19:25	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.032	0.018	ug/L		01/28/25 10:54	01/28/25 23:18	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/28/25 10:54	01/28/25 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83		51 - 149	01/28/25 10:54	01/28/25 23:18	1

Definitions/Glossary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-269771-1	TB-ROX-012425-8260-A	102	95	101
400-269771-3	MW14-ROX-012425-EB	102	95	102
400-269771-4	MW14-ROX-012425	103	96	102
400-269771-5	MW2-ROX-012425	103	98	101
400-269771-6	MW22-ROX-012425	101	98	99
400-269771-6 - DL	MW22-ROX-012425	86	100	93
400-269771-7	TB-ROX-012425-8260-B	103	95	101
400-269771-9	P59-ROX-012425	104	97	100
400-269771-10	P59-ROX-012425-DUP	105	95	101
400-269771-10 - DL	P59-ROX-012425-DUP	87	95	95
400-269771-11	P74-ROX-012425	102	95	100
400-269771-11 - DL	P74-ROX-012425	85	106	96
400-269771-12	T12-ROX-012425	103	95	102
400-269771-12 - DL	T12-ROX-012425	84	99	95
LCS 400-698330/1002	Lab Control Sample	103	98	101
LCS 400-698458/1002	Lab Control Sample	94	94	95
MB 400-698330/4	Method Blank	104	95	101
MB 400-698458/5	Method Blank	86	109	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (21-114)	2FP (10-105)	NBZ (16-127)	PHL (10-129)	TPHL (13-150)	TBP (10-150)
400-269771-3	MW14-ROX-012425-EB	73	35	67	28	87	67
400-269771-4	MW14-ROX-012425	75	35	66	29	90	93
400-269771-5	MW2-ROX-012425	74	43	69	30	86	99
400-269771-6	MW22-ROX-012425	75	47	70	33	86	107
400-269771-9	P59-ROX-012425	85	59	82	39	99	127
400-269771-10	P59-ROX-012425-DUP	71	42	67	32	92	113
400-269771-11	P74-ROX-012425	74	38	71	33	99	114
400-269771-12	T12-ROX-012425	74	47	69	35	97	113
LCS 400-698112/2-A	Lab Control Sample	75	43	81	31	100	110
LCS 400-698112/4-A	Lab Control Sample	69	36	67	26	98	91
LCS 400-698112/6-A	Lab Control Sample	62	38	65	26	96	85
LCSD 400-698112/3-A	Lab Control Sample Dup	71	45	79	33	96	110
LCSD 400-698112/5-A	Lab Control Sample Dup	71	40	68	28	95	84
LCSD 400-698112/7-A	Lab Control Sample Dup	72	41	71	29	95	84
MB 400-698112/1-A	Method Blank	72	36	70	24	97	92

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5

Surrogate Summary

Client: AECOM

Job ID: 400-269771-1

Project/Site: ROXANA QUARTERLY GW 1Q25

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (15-150)	NBZ (50-150)	TPHL (43-147)
400-269771-3	MW14-ROX-012425-EB	97	87	105
400-269771-4	MW14-ROX-012425	90	90	118
400-269771-5	MW2-ROX-012425	94	88	106
400-269771-6	MW22-ROX-012425	94	82	106
400-269771-9	P59-ROX-012425	92	88	97
400-269771-10	P59-ROX-012425-DUP	94	98	97
400-269771-11	P74-ROX-012425	120	122	136
400-269771-12	T12-ROX-012425	99	94	111
LCS 400-697715/2-A	Lab Control Sample	101	81	100
MB 400-697715/1-A	Method Blank	94	86	99

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (51-149)		
400-269771-2	TB-ROX-012425-8011-A	52		
400-269771-3	MW14-ROX-012425-EB	59		
400-269771-4	MW14-ROX-012425	59		
400-269771-5	MW2-ROX-012425	71		
400-269771-6	MW22-ROX-012425	92		
400-269771-8	TB-ROX-012425-8011-B	75		
400-269771-9	P59-ROX-012425	90		
400-269771-10	P59-ROX-012425-DUP	65		
400-269771-11	P74-ROX-012425	66		
400-269771-12	T12-ROX-012425	83		
LCS 400-697683/2-A	Lab Control Sample	71		
LCSD 400-697683/3-A	Lab Control Sample Dup	74		
MB 400-697683/1-A	Method Blank	92		

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: TB-ROX-012425-8260-A

Lab Sample ID: 400-269771-1

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 13:07	WPD	EET PEN

Client Sample ID: TB-ROX-012425-8011-A

Lab Sample ID: 400-269771-2

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			31.2 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 19:49	KR	EET PEN

Client Sample ID: MW14-ROX-012425-EB

Lab Sample ID: 400-269771-3

Date Collected: 01/24/25 09:25

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 13:32	WPD	EET PEN
Total/NA	Prep	3511			29.7 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 15:51	JAW	EET PEN
Total/NA	Prep	3510C			268 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 20:10	S1B	EET PEN
Total/NA	Prep	8011			32.9 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 20:10	KR	EET PEN

Client Sample ID: MW14-ROX-012425

Lab Sample ID: 400-269771-4

Date Collected: 01/24/25 11:25

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 14:21	WPD	EET PEN
Total/NA	Prep	3511			29.6 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 16:22	JAW	EET PEN
Total/NA	Prep	3510C			262.2 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 20:33	S1B	EET PEN
Total/NA	Prep	8011			32.6 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 20:31	KR	EET PEN

Client Sample ID: MW2-ROX-012425

Lab Sample ID: 400-269771-5

Date Collected: 01/24/25 13:25

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 14:45	WPD	EET PEN
Total/NA	Prep	3511			29.9 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 16:53	JAW	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: MW2-ROX-012425

Lab Sample ID: 400-269771-5

Date Collected: 01/24/25 13:25

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			267 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 20:55	S1B	EET PEN
Total/NA	Prep	8011			32.7 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 20:52	KR	EET PEN

Client Sample ID: MW22-ROX-012425

Lab Sample ID: 400-269771-6

Date Collected: 01/24/25 14:25

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	698330	02/04/25 16:23	WPD	EET PEN
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	698458	02/05/25 20:55	BPO	EET PEN
Total/NA	Prep	3511			30.3 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 17:23	JAW	EET PEN
Total/NA	Prep	3510C			267.8 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 21:17	S1B	EET PEN
Total/NA	Prep	8011			32 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 21:13	KR	EET PEN

Client Sample ID: TB-ROX-012425-8260-B

Lab Sample ID: 400-269771-7

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 13:56	WPD	EET PEN

Client Sample ID: TB-ROX-012425-8011-B

Lab Sample ID: 400-269771-8

Date Collected: 01/24/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			31.5 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 21:33	KR	EET PEN

Client Sample ID: P59-ROX-012425

Lab Sample ID: 400-269771-9

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 15:10	WPD	EET PEN
Total/NA	Prep	3511			29.8 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 17:54	JAW	EET PEN
Total/NA	Prep	3510C			241 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698480	02/05/25 16:56	S1B	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: P59-ROX-012425

Lab Sample ID: 400-269771-9

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			30.8 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 21:54	KR	EET PEN

Client Sample ID: P59-ROX-012425-DUP

Lab Sample ID: 400-269771-10

Date Collected: 01/24/25 10:05

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 15:34	WPD	EET PEN
Total/NA	Analysis	8260D	DL	2	5 mL	5 mL	698458	02/05/25 20:33	BPO	EET PEN
Total/NA	Prep	3511			29.8 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 18:24	JAW	EET PEN
Total/NA	Prep	3510C			243.2 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698480	02/05/25 17:19	S1B	EET PEN
Total/NA	Prep	8011			32.2 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 22:15	KR	EET PEN

Client Sample ID: P74-ROX-012425

Lab Sample ID: 400-269771-11

Date Collected: 01/24/25 11:45

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	698330	02/04/25 17:12	WPD	EET PEN
Total/NA	Analysis	8260D	DL	20	5 mL	5 mL	698458	02/05/25 21:39	BPO	EET PEN
Total/NA	Prep	3511			29.9 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 18:55	JAW	EET PEN
Total/NA	Prep	3510C			251.2 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698480	02/05/25 17:41	S1B	EET PEN
Total/NA	Prep	8011			31.5 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 22:57	KR	EET PEN

Client Sample ID: T12-ROX-012425

Lab Sample ID: 400-269771-12

Date Collected: 01/24/25 13:05

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	698330	02/04/25 16:47	WPD	EET PEN
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	698458	02/05/25 21:17	BPO	EET PEN
Total/NA	Prep	3511			30.3 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 19:25	JAW	EET PEN
Total/NA	Prep	3510C			250.2 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698480	02/05/25 18:04	S1B	EET PEN
Total/NA	Prep	8011			32.7 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 23:18	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697683/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 15:14	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697715/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1	0 mL	1.0 mL	697964	01/30/25 10:45	JAW	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698112/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 16:31	S1B	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698330/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 07:50	WPD	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698458/5

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698458	02/05/25 11:25	BPO	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697683/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 15:36	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697715/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 11:16	JAW	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698112/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 16:54	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698112/4-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 18:25	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698112/6-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 17:39	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698330/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698330	02/04/25 06:53	WPD	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698458/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698458	02/05/25 10:24	BPO	EET PEN

Lab Chronicle

Client: AECOM

Job ID: 400-269771-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697683/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697683	01/28/25 10:54	KR	EET PEN
Total/NA	Analysis	8011		1			697712	01/28/25 15:57	KR	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-698112/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 17:17	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-698112/5-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 18:51	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-698112/7-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698112	01/31/25 11:14	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698373	02/04/25 18:02	S1B	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

GC/MS VOA

Analysis Batch: 698330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-1	TB-ROX-012425-8260-A	Total/NA	Water	8260D	
400-269771-3	MW14-ROX-012425-EB	Total/NA	Water	8260D	
400-269771-4	MW14-ROX-012425	Total/NA	Water	8260D	
400-269771-5	MW2-ROX-012425	Total/NA	Water	8260D	
400-269771-6	MW22-ROX-012425	Total/NA	Water	8260D	
400-269771-7	TB-ROX-012425-8260-B	Total/NA	Water	8260D	
400-269771-9	P59-ROX-012425	Total/NA	Water	8260D	
400-269771-10	P59-ROX-012425-DUP	Total/NA	Water	8260D	
400-269771-11	P74-ROX-012425	Total/NA	Water	8260D	
400-269771-12	T12-ROX-012425	Total/NA	Water	8260D	
MB 400-698330/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698330/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 698458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-6 - DL	MW22-ROX-012425	Total/NA	Water	8260D	
400-269771-10 - DL	P59-ROX-012425-DUP	Total/NA	Water	8260D	
400-269771-11 - DL	P74-ROX-012425	Total/NA	Water	8260D	
400-269771-12 - DL	T12-ROX-012425	Total/NA	Water	8260D	
MB 400-698458/5	Method Blank	Total/NA	Water	8260D	
LCS 400-698458/1002	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 697715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-3	MW14-ROX-012425-EB	Total/NA	Water	3511	
400-269771-4	MW14-ROX-012425	Total/NA	Water	3511	
400-269771-5	MW2-ROX-012425	Total/NA	Water	3511	
400-269771-6	MW22-ROX-012425	Total/NA	Water	3511	
400-269771-9	P59-ROX-012425	Total/NA	Water	3511	
400-269771-10	P59-ROX-012425-DUP	Total/NA	Water	3511	
400-269771-11	P74-ROX-012425	Total/NA	Water	3511	
400-269771-12	T12-ROX-012425	Total/NA	Water	3511	
MB 400-697715/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697715/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 697964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-3	MW14-ROX-012425-EB	Total/NA	Water	8270E	697715
400-269771-4	MW14-ROX-012425	Total/NA	Water	8270E	697715
400-269771-5	MW2-ROX-012425	Total/NA	Water	8270E	697715
400-269771-6	MW22-ROX-012425	Total/NA	Water	8270E	697715
400-269771-9	P59-ROX-012425	Total/NA	Water	8270E	697715
400-269771-10	P59-ROX-012425-DUP	Total/NA	Water	8270E	697715
400-269771-11	P74-ROX-012425	Total/NA	Water	8270E	697715
400-269771-12	T12-ROX-012425	Total/NA	Water	8270E	697715
MB 400-697715/1-A	Method Blank	Total/NA	Water	8270E	697715
LCS 400-697715/2-A	Lab Control Sample	Total/NA	Water	8270E	697715

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

GC/MS Semi VOA

Prep Batch: 698112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-3	MW14-ROX-012425-EB	Total/NA	Water	3510C	
400-269771-4	MW14-ROX-012425	Total/NA	Water	3510C	
400-269771-5	MW2-ROX-012425	Total/NA	Water	3510C	
400-269771-6	MW22-ROX-012425	Total/NA	Water	3510C	
400-269771-9	P59-ROX-012425	Total/NA	Water	3510C	
400-269771-10	P59-ROX-012425-DUP	Total/NA	Water	3510C	
400-269771-11	P74-ROX-012425	Total/NA	Water	3510C	
400-269771-12	T12-ROX-012425	Total/NA	Water	3510C	
MB 400-698112/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-698112/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-698112/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-698112/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-698112/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 400-698112/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 400-698112/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 698373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-3	MW14-ROX-012425-EB	Total/NA	Water	8270E	698112
400-269771-4	MW14-ROX-012425	Total/NA	Water	8270E	698112
400-269771-5	MW2-ROX-012425	Total/NA	Water	8270E	698112
400-269771-6	MW22-ROX-012425	Total/NA	Water	8270E	698112
MB 400-698112/1-A	Method Blank	Total/NA	Water	8270E	698112
LCS 400-698112/2-A	Lab Control Sample	Total/NA	Water	8270E	698112
LCS 400-698112/4-A	Lab Control Sample	Total/NA	Water	8270E	698112
LCS 400-698112/6-A	Lab Control Sample	Total/NA	Water	8270E	698112
LCSD 400-698112/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	698112
LCSD 400-698112/5-A	Lab Control Sample Dup	Total/NA	Water	8270E	698112
LCSD 400-698112/7-A	Lab Control Sample Dup	Total/NA	Water	8270E	698112

Analysis Batch: 698480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-9	P59-ROX-012425	Total/NA	Water	8270E	698112
400-269771-10	P59-ROX-012425-DUP	Total/NA	Water	8270E	698112
400-269771-11	P74-ROX-012425	Total/NA	Water	8270E	698112
400-269771-12	T12-ROX-012425	Total/NA	Water	8270E	698112

GC Semi VOA

Prep Batch: 697683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-2	TB-ROX-012425-8011-A	Total/NA	Water	8011	
400-269771-3	MW14-ROX-012425-EB	Total/NA	Water	8011	
400-269771-4	MW14-ROX-012425	Total/NA	Water	8011	
400-269771-5	MW2-ROX-012425	Total/NA	Water	8011	
400-269771-6	MW22-ROX-012425	Total/NA	Water	8011	
400-269771-8	TB-ROX-012425-8011-B	Total/NA	Water	8011	
400-269771-9	P59-ROX-012425	Total/NA	Water	8011	
400-269771-10	P59-ROX-012425-DUP	Total/NA	Water	8011	
400-269771-11	P74-ROX-012425	Total/NA	Water	8011	
400-269771-12	T12-ROX-012425	Total/NA	Water	8011	

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QC Association Summary

Client: AECOM

Job ID: 400-269771-1

Project/Site: ROXANA QUARTERLY GW 1Q25

GC Semi VOA (Continued)

Prep Batch: 697683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-697683/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-697683/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-697683/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 697712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269771-2	TB-ROX-012425-8011-A	Total/NA	Water	8011	697683
400-269771-3	MW14-ROX-012425-EB	Total/NA	Water	8011	697683
400-269771-4	MW14-ROX-012425	Total/NA	Water	8011	697683
400-269771-5	MW2-ROX-012425	Total/NA	Water	8011	697683
400-269771-6	MW22-ROX-012425	Total/NA	Water	8011	697683
400-269771-8	TB-ROX-012425-8011-B	Total/NA	Water	8011	697683
400-269771-9	P59-ROX-012425	Total/NA	Water	8011	697683
400-269771-10	P59-ROX-012425-DUP	Total/NA	Water	8011	697683
400-269771-11	P74-ROX-012425	Total/NA	Water	8011	697683
400-269771-12	T12-ROX-012425	Total/NA	Water	8011	697683
MB 400-697683/1-A	Method Blank	Total/NA	Water	8011	697683
LCS 400-697683/2-A	Lab Control Sample	Total/NA	Water	8011	697683
LCSD 400-697683/3-A	Lab Control Sample Dup	Total/NA	Water	8011	697683

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: MB 400-698330/4

Matrix: Water

Analysis Batch: 698330

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/04/25 07:50	1
Acrolein	ND		20	3.3	ug/L			02/04/25 07:50	1
Acrylonitrile	ND		10	2.8	ug/L			02/04/25 07:50	1
Benzene	ND		1.0	0.50	ug/L			02/04/25 07:50	1
Bromobenzene	ND		1.0	0.54	ug/L			02/04/25 07:50	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/04/25 07:50	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/04/25 07:50	1
Bromoform	ND		5.0	0.25	ug/L			02/04/25 07:50	1
Bromomethane	ND		1.0	0.98	ug/L			02/04/25 07:50	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/04/25 07:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/04/25 07:50	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/04/25 07:50	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/04/25 07:50	1
Chloroethane	ND		1.0	0.76	ug/L			02/04/25 07:50	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/04/25 07:50	1
Chloroform	ND		1.0	0.90	ug/L			02/04/25 07:50	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/04/25 07:50	1
Chloromethane	ND		1.0	0.40	ug/L			02/04/25 07:50	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/04/25 07:50	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/04/25 07:50	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/04/25 07:50	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/04/25 07:50	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/04/25 07:50	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/04/25 07:50	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/04/25 07:50	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/04/25 07:50	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/04/25 07:50	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 07:50	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 07:50	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 07:50	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/04/25 07:50	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/04/25 07:50	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/04/25 07:50	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/04/25 07:50	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/04/25 07:50	1
2-Hexanone	ND		25	4.3	ug/L			02/04/25 07:50	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/04/25 07:50	1
Methylene bromide	ND		5.0	0.22	ug/L			02/04/25 07:50	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/04/25 07:50	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/04/25 07:50	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/04/25 07:50	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/04/25 07:50	1
Naphthalene	ND		5.0	3.0	ug/L			02/04/25 07:50	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/04/25 07:50	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/04/25 07:50	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/04/25 07:50	1
o-Xylene	ND		5.0	3.0	ug/L			02/04/25 07:50	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/04/25 07:50	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: MB 400-698330/4

Matrix: Water

Analysis Batch: 698330

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/04/25 07:50	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/04/25 07:50	1
Styrene	ND		1.0	1.0	ug/L			02/04/25 07:50	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/04/25 07:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/04/25 07:50	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/04/25 07:50	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/04/25 07:50	1
Toluene	ND		1.0	0.90	ug/L			02/04/25 07:50	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/04/25 07:50	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/04/25 07:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/04/25 07:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/04/25 07:50	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/04/25 07:50	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/04/25 07:50	1
Trichloroethene	ND		1.0	0.15	ug/L			02/04/25 07:50	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/04/25 07:50	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/04/25 07:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/04/25 07:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/04/25 07:50	1
Vinyl acetate	ND		25	0.93	ug/L			02/04/25 07:50	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/04/25 07:50	1
Xylenes, Total	ND		10	6.0	ug/L			02/04/25 07:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		56 - 136		02/04/25 07:50	1
Dibromofluoromethane	95		79 - 130		02/04/25 07:50	1
Toluene-d8 (Surr)	101		64 - 132		02/04/25 07:50	1

Lab Sample ID: LCS 400-698330/1002

Matrix: Water

Analysis Batch: 698330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	199		ug/L		100	43 - 150
Acrolein	500	466		ug/L		93	38 - 150
Acrylonitrile	500	474		ug/L		95	64 - 142
Benzene	50.0	47.0		ug/L		94	70 - 130
Bromobenzene	50.0	51.0		ug/L		102	70 - 132
Bromochloromethane	50.0	47.6		ug/L		95	70 - 130
Bromodichloromethane	50.0	47.6		ug/L		95	67 - 133
Bromoform	50.0	44.8		ug/L		90	57 - 140
Bromomethane	50.0	42.6		ug/L		85	10 - 150
2-Butanone (MEK)	200	179		ug/L		90	61 - 145
Carbon disulfide	50.0	35.0		ug/L		70	61 - 137
Carbon tetrachloride	50.0	44.3		ug/L		89	61 - 137
Chlorobenzene	50.0	49.6		ug/L		99	70 - 130
Chloroethane	50.0	47.9		ug/L		96	55 - 141
2-Chloroethyl vinyl ether	50.0	54.4		ug/L		109	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: LCS 400-698330/1002

Matrix: Water

Analysis Batch: 698330

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	49.1		ug/L		98	69 - 130
1-Chlorohexane	50.0	54.5		ug/L		109	69 - 130
Chloromethane	50.0	48.5		ug/L		97	58 - 137
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	68 - 130
cis-1,3-Dichloropropene	50.0	48.1		ug/L		96	69 - 132
Dibromochloromethane	50.0	48.8		ug/L		98	67 - 135
1,2-Dichlorobenzene	50.0	54.8		ug/L		110	67 - 130
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	52.5		ug/L		105	70 - 130
Dichlorodifluoromethane	50.0	35.6		ug/L		71	41 - 146
1,1-Dichloroethane	50.0	48.8		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	44.6		ug/L		89	69 - 130
1,1-Dichloroethene	50.0	45.7		ug/L		91	63 - 134
1,2-Dichloropropane	50.0	49.5		ug/L		99	70 - 130
1,3-Dichloropropane	50.0	49.4		ug/L		99	70 - 130
2,2-Dichloropropane	50.0	45.9		ug/L		92	52 - 135
1,1-Dichloropropene	50.0	45.8		ug/L		92	70 - 130
Ethylbenzene	50.0	51.3		ug/L		103	70 - 130
Ethyl methacrylate	50.0	49.4		ug/L		99	68 - 130
Hexachlorobutadiene	50.0	55.9		ug/L		112	53 - 140
2-Hexanone	200	226		ug/L		113	65 - 137
Isopropylbenzene	50.0	52.5		ug/L		105	70 - 130
Methylene bromide	50.0	47.9		ug/L		96	70 - 130
Methylene Chloride	50.0	44.0		ug/L		88	66 - 135
4-Methyl-2-pentanone (MIBK)	200	205		ug/L		103	69 - 138
Methyl tert-butyl ether	50.0	46.0		ug/L		92	66 - 130
m-Xylene & p-Xylene	50.0	50.1		ug/L		100	70 - 130
Naphthalene	50.0	48.2		ug/L		96	47 - 149
n-Butylbenzene	50.0	61.5		ug/L		123	67 - 130
N-Propylbenzene	50.0	55.9		ug/L		112	70 - 130
o-Chlorotoluene	50.0	54.7		ug/L		109	70 - 130
o-Xylene	50.0	51.1		ug/L		102	70 - 130
p-Chlorotoluene	50.0	54.4		ug/L		109	70 - 130
p-Isopropyltoluene	50.0	56.5		ug/L		113	65 - 130
sec-Butylbenzene	50.0	57.2		ug/L		114	66 - 130
Styrene	50.0	50.1		ug/L		100	70 - 130
tert-Butylbenzene	50.0	55.7		ug/L		111	64 - 139
1,1,1,2-Tetrachloroethane	50.0	49.1		ug/L		98	67 - 131
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	70 - 131
Tetrachloroethene	50.0	46.1		ug/L		92	65 - 130
Toluene	50.0	48.0		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	43.6		ug/L		87	70 - 130
trans-1,3-Dichloropropene	50.0	49.2		ug/L		98	63 - 130
1,2,3-Trichlorobenzene	50.0	51.8		ug/L		104	60 - 138
1,2,4-Trichlorobenzene	50.0	52.6		ug/L		105	60 - 140
1,1,1-Trichloroethane	50.0	46.4		ug/L		93	68 - 130
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	70 - 130
Trichloroethene	50.0	47.4		ug/L		95	70 - 130
Trichlorofluoromethane	50.0	49.0		ug/L		98	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: LCS 400-698330/1002

Matrix: Water

Analysis Batch: 698330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	52.1		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	50.0	55.8		ug/L		112	70 - 130
1,3,5-Trimethylbenzene	50.0	55.9		ug/L		112	69 - 130
Vinyl acetate	100	104		ug/L		104	26 - 150
Vinyl chloride	50.0	43.1		ug/L		86	59 - 136
Xylenes, Total	100	101		ug/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	98		79 - 130
Toluene-d8 (Surr)	101		64 - 132

Lab Sample ID: MB 400-698458/5

Matrix: Water

Analysis Batch: 698458

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.50	ug/L			02/05/25 11:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/05/25 11:25	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/05/25 11:25	1
o-Xylene	ND		5.0	3.0	ug/L			02/05/25 11:25	1
Xylenes, Total	ND		10	6.0	ug/L			02/05/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		56 - 136		02/05/25 11:25	1
Dibromofluoromethane	109		79 - 130		02/05/25 11:25	1
Toluene-d8 (Surr)	97		64 - 132		02/05/25 11:25	1

Lab Sample ID: LCS 400-698458/1002

Matrix: Water

Analysis Batch: 698458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	48.7		ug/L		97	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
m-Xylene & p-Xylene	50.0	49.6		ug/L		99	70 - 130
o-Xylene	50.0	49.1		ug/L		98	70 - 130
Xylenes, Total	100	98.7		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		56 - 136
Dibromofluoromethane	94		79 - 130
Toluene-d8 (Surr)	95		64 - 132

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: MB 400-698112/1-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		01/31/25 11:14	02/04/25 16:31	1
Benzenethiol	ND		10	9.9	ug/L		01/31/25 11:14	02/04/25 16:31	1
Benzoic acid	ND		30	24	ug/L		01/31/25 11:14	02/04/25 16:31	1
Benzyl alcohol	ND		10	7.3	ug/L		01/31/25 11:14	02/04/25 16:31	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/31/25 11:14	02/04/25 16:31	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/31/25 11:14	02/04/25 16:31	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/31/25 11:14	02/04/25 16:31	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/31/25 11:14	02/04/25 16:31	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/31/25 11:14	02/04/25 16:31	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/31/25 11:14	02/04/25 16:31	1
4-Chloroaniline	ND		10	4.7	ug/L		01/31/25 11:14	02/04/25 16:31	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/31/25 11:14	02/04/25 16:31	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/31/25 11:14	02/04/25 16:31	1
2-Chlorophenol	ND		10	4.1	ug/L		01/31/25 11:14	02/04/25 16:31	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/31/25 11:14	02/04/25 16:31	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/31/25 11:14	02/04/25 16:31	1
Dibenzofuran	ND		10	4.0	ug/L		01/31/25 11:14	02/04/25 16:31	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/31/25 11:14	02/04/25 16:31	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/31/25 11:14	02/04/25 16:31	1
Diethyl phthalate	ND		10	4.4	ug/L		01/31/25 11:14	02/04/25 16:31	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/31/25 11:14	02/04/25 16:31	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/31/25 11:14	02/04/25 16:31	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/31/25 11:14	02/04/25 16:31	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/31/25 11:14	02/04/25 16:31	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/31/25 11:14	02/04/25 16:31	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/31/25 11:14	02/04/25 16:31	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/31/25 11:14	02/04/25 16:31	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/31/25 11:14	02/04/25 16:31	1
1,4-Dioxane	ND		10	4.3	ug/L		01/31/25 11:14	02/04/25 16:31	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/31/25 11:14	02/04/25 16:31	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/31/25 11:14	02/04/25 16:31	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/31/25 11:14	02/04/25 16:31	1
Hexachloroethane	ND		10	5.2	ug/L		01/31/25 11:14	02/04/25 16:31	1
Indene	ND		10	3.6	ug/L		01/31/25 11:14	02/04/25 16:31	1
Isophorone	ND		10	5.2	ug/L		01/31/25 11:14	02/04/25 16:31	1
2-Methylphenol	ND		10	3.2	ug/L		01/31/25 11:14	02/04/25 16:31	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/31/25 11:14	02/04/25 16:31	1
2-Nitroaniline	ND		10	5.0	ug/L		01/31/25 11:14	02/04/25 16:31	1
3-Nitroaniline	ND		10	4.7	ug/L		01/31/25 11:14	02/04/25 16:31	1
4-Nitroaniline	ND		10	4.1	ug/L		01/31/25 11:14	02/04/25 16:31	1
Nitrobenzene	ND		10	4.7	ug/L		01/31/25 11:14	02/04/25 16:31	1
2-Nitrophenol	ND		10	4.6	ug/L		01/31/25 11:14	02/04/25 16:31	1
4-Nitrophenol	ND		10	3.3	ug/L		01/31/25 11:14	02/04/25 16:31	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/31/25 11:14	02/04/25 16:31	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/31/25 11:14	02/04/25 16:31	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/31/25 11:14	02/04/25 16:31	1
Pentachlorophenol	ND		20	12	ug/L		01/31/25 11:14	02/04/25 16:31	1
Phenol	ND		10	4.2	ug/L		01/31/25 11:14	02/04/25 16:31	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: MB 400-698112/1-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		10	10	ug/L		01/31/25 11:14	02/04/25 16:31	1
Quinoline	ND		10	2.4	ug/L		01/31/25 11:14	02/04/25 16:31	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/31/25 11:14	02/04/25 16:31	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/31/25 11:14	02/04/25 16:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		21 - 114	01/31/25 11:14	02/04/25 16:31	1
2-Fluorophenol	36		10 - 105	01/31/25 11:14	02/04/25 16:31	1
Nitrobenzene-d5	70		16 - 127	01/31/25 11:14	02/04/25 16:31	1
Phenol-d5	24		10 - 129	01/31/25 11:14	02/04/25 16:31	1
Terphenyl-d14	97		13 - 150	01/31/25 11:14	02/04/25 16:31	1
2,4,6-Tribromophenol	92		10 - 150	01/31/25 11:14	02/04/25 16:31	1

Lab Sample ID: LCS 400-698112/2-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	120	24.0		ug/L		20	10 - 127
Benzoic acid	493	118		ug/L		24	19 - 126
Benzyl alcohol	120	67.8		ug/L		57	17 - 109
Bis(2-chloroethoxy)methane	120	94.6		ug/L		79	24 - 125
Bis(2-chloroethyl)ether	120	112		ug/L		94	10 - 121
bis (2-chloroisopropyl) ether	120	102		ug/L		85	14 - 123
Bis(2-ethylhexyl) phthalate	120	123		ug/L		102	16 - 150
4-Bromophenyl phenyl ether	120	103		ug/L		86	17 - 150
Butyl benzyl phthalate	120	126		ug/L		105	21 - 150
4-Chloroaniline	120	82.9		ug/L		69	10 - 124
4-Chloro-3-methylphenol	120	97.8		ug/L		82	37 - 131
2-Chloronaphthalene	120	98.1		ug/L		82	24 - 132
2-Chlorophenol	120	83.7		ug/L		70	27 - 124
4-Chlorophenyl phenyl ether	120	109		ug/L		91	27 - 147
Dibenz[a,h]acridine	120	56.4		ug/L		47	40 - 140
Dibenzofuran	120	107		ug/L		89	30 - 135
3,3'-Dichlorobenzidine	160	250	*+	ug/L		156	10 - 150
2,4-Dichlorophenol	120	95.2		ug/L		79	33 - 132
Diethyl phthalate	120	112		ug/L		93	37 - 145
2,4-Dimethylphenol	120	83.1		ug/L		69	38 - 132
Dimethyl phthalate	120	106		ug/L		88	32 - 137
Di-n-butyl phthalate	120	120		ug/L		100	27 - 150
4,6-Dinitro-ortho-cresol	240	253		ug/L		106	14 - 150
2,4-Dinitrophenol	240	273		ug/L		114	15 - 150
2,4-Dinitrotoluene	120	111		ug/L		92	35 - 136
2,6-Dinitrotoluene	120	111		ug/L		93	29 - 140
Di-n-octyl phthalate	120	120		ug/L		100	26 - 150
1,4-Dioxane	120	41.0		ug/L		34	10 - 87
1,2-Diphenylhydrazine (as Azobenzene)	120	101		ug/L		84	23 - 138
Hexachlorobenzene	120	107		ug/L		90	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: LCS 400-698112/2-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	120	56.1		ug/L		47	10 - 124
Hexachloroethane	120	80.2		ug/L		67	10 - 127
Indene	120	87.9		ug/L		73	18 - 150
Isophorone	120	98.3		ug/L		82	28 - 127
2-Methylphenol	120	71.0		ug/L		59	34 - 124
3 & 4 Methylphenol	120	67.9		ug/L		57	32 - 122
2-Nitroaniline	120	101		ug/L		84	24 - 139
3-Nitroaniline	120	85.2		ug/L		71	10 - 128
4-Nitroaniline	120	99.7		ug/L		83	28 - 118
Nitrobenzene	120	91.3		ug/L		76	29 - 120
2-Nitrophenol	120	99.9		ug/L		83	25 - 148
4-Nitrophenol	240	105		ug/L		44	12 - 129
N-Nitrosodimethylamine	120	26.9		ug/L		22	10 - 115
N-Nitrosodi-n-propylamine	120	98.3		ug/L		82	24 - 142
N-Nitrosodiphenylamine	119	102		ug/L		85	29 - 138
Pentachlorophenol	240	190		ug/L		79	19 - 150
Phenol	120	38.7		ug/L		32	11 - 95
Pyridine	240	15.6	*-	ug/L		7	10 - 82
Quinoline	120	31.8		ug/L		27	10 - 141
2,4,5-Trichlorophenol	120	107		ug/L		89	30 - 144
2,4,6-Trichlorophenol	120	106		ug/L		88	27 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	75		21 - 114
2-Fluorophenol	43		10 - 105
Nitrobenzene-d5	81		16 - 127
Phenol-d5	31		10 - 129
Terphenyl-d14	100		13 - 150
2,4,6-Tribromophenol	110		10 - 150

Lab Sample ID: LCS 400-698112/4-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenz[a,h]acridine	80.0	65.4		ug/L		82	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	69		21 - 114
2-Fluorophenol	36		10 - 105
Nitrobenzene-d5	67		16 - 127
Phenol-d5	26		10 - 129
Terphenyl-d14	98		13 - 150
2,4,6-Tribromophenol	91		10 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: LCS 400-698112/6-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzenethiol	120	76.8		ug/L		64	10 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	62		21 - 114				
2-Fluorophenol	38		10 - 105				
Nitrobenzene-d5	65		16 - 127				
Phenol-d5	26		10 - 129				
Terphenyl-d14	96		13 - 150				
2,4,6-Tribromophenol	85		10 - 150				

Lab Sample ID: LCSD 400-698112/3-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698112

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	120	45.0	*1	ug/L		37	10 - 127	61	40
Benzoic acid	493	163		ug/L		33	19 - 126	32	40
Benzyl alcohol	120	70.0		ug/L		58	17 - 109	3	40
Bis(2-chloroethoxy)methane	120	96.8		ug/L		81	24 - 125	2	40
Bis(2-chloroethyl)ether	120	115		ug/L		96	10 - 121	2	40
bis (2-chloroisopropyl) ether	120	98.8		ug/L		82	14 - 123	3	40
Bis(2-ethylhexyl) phthalate	120	118		ug/L		98	16 - 150	4	40
4-Bromophenyl phenyl ether	120	101		ug/L		85	17 - 150	2	40
Butyl benzyl phthalate	120	120		ug/L		100	21 - 150	5	40
4-Chloroaniline	120	95.8		ug/L		80	10 - 124	14	40
4-Chloro-3-methylphenol	120	100		ug/L		84	37 - 131	2	40
2-Chloronaphthalene	120	96.4		ug/L		80	24 - 132	2	40
2-Chlorophenol	120	84.3		ug/L		70	27 - 124	1	40
4-Chlorophenyl phenyl ether	120	107		ug/L		89	27 - 147	1	40
Dibenz[a,h]acridine	120	54.2		ug/L		45	40 - 140	4	40
Dibenzofuran	120	105		ug/L		88	30 - 135	1	40
3,3'-Dichlorobenzidine	160	267	*+	ug/L		167	10 - 150	7	40
2,4-Dichlorophenol	120	95.7		ug/L		80	33 - 132	1	40
Diethyl phthalate	120	109		ug/L		91	37 - 145	2	40
2,4-Dimethylphenol	120	83.8		ug/L		70	38 - 132	1	40
Dimethyl phthalate	120	105		ug/L		88	32 - 137	0	40
Di-n-butyl phthalate	120	117		ug/L		97	27 - 150	3	40
4,6-Dinitro-ortho-cresol	240	254		ug/L		106	14 - 150	0	40
2,4-Dinitrophenol	240	289		ug/L		120	15 - 150	6	40
2,4-Dinitrotoluene	120	112		ug/L		93	35 - 136	1	40
2,6-Dinitrotoluene	120	110		ug/L		92	29 - 140	1	40
Di-n-octyl phthalate	120	117		ug/L		98	26 - 150	3	40
1,4-Dioxane	120	17.3	*1	ug/L		14	10 - 87	81	40
1,2-Diphenylhydrazine (as Azobenzene)	120	98.1		ug/L		82	23 - 138	3	40
Hexachlorobenzene	120	107		ug/L		89	10 - 150	0	40
Hexachlorocyclopentadiene	120	62.4		ug/L		52	10 - 124	11	40
Hexachloroethane	120	78.8		ug/L		66	10 - 127	2	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: LCSD 400-698112/3-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698112

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indene	120	88.2		ug/L		73	18 - 150	0	40
Isophorone	120	98.8		ug/L		82	28 - 127	0	40
2-Methylphenol	120	72.9		ug/L		61	34 - 124	3	40
3 & 4 Methylphenol	120	69.6		ug/L		58	32 - 122	3	40
2-Nitroaniline	120	101		ug/L		85	24 - 139	0	40
3-Nitroaniline	120	89.7		ug/L		75	10 - 128	5	40
4-Nitroaniline	120	104		ug/L		87	28 - 118	4	40
Nitrobenzene	120	90.8		ug/L		76	29 - 120	1	40
2-Nitrophenol	120	100		ug/L		84	25 - 148	0	40
4-Nitrophenol	240	115		ug/L		48	12 - 129	9	40
N-Nitrosodimethylamine	120	22.5		ug/L		19	10 - 115	18	40
N-Nitrosodi-n-propylamine	120	97.2		ug/L		81	24 - 142	1	40
N-Nitrosodiphenylamine	119	100		ug/L		84	29 - 138	2	40
Pentachlorophenol	240	196		ug/L		82	19 - 150	3	40
Phenol	120	38.5		ug/L		32	11 - 95	1	40
Pyridine	240	43.8	*1	ug/L		18	10 - 82	95	40
Quinoline	120	39.7		ug/L		33	10 - 141	22	40
2,4,5-Trichlorophenol	120	106		ug/L		88	30 - 144	1	40
2,4,6-Trichlorophenol	120	106		ug/L		88	27 - 147	0	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	71		21 - 114
2-Fluorophenol	45		10 - 105
Nitrobenzene-d5	79		16 - 127
Phenol-d5	33		10 - 129
Terphenyl-d14	96		13 - 150
2,4,6-Tribromophenol	110		10 - 150

Lab Sample ID: LCSD 400-698112/5-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698112

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenz[a,h]acridine	80.0	64.8		ug/L		81	40 - 140	1	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	71		21 - 114
2-Fluorophenol	40		10 - 105
Nitrobenzene-d5	68		16 - 127
Phenol-d5	28		10 - 129
Terphenyl-d14	95		13 - 150
2,4,6-Tribromophenol	84		10 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: LCSD 400-698112/7-A

Matrix: Water

Analysis Batch: 698373

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698112

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzenethiol	120	87.3		ug/L		73	10 - 140	13	40
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2-Fluorobiphenyl	72		21 - 114						
2-Fluorophenol	41		10 - 105						
Nitrobenzene-d5	71		16 - 127						
Phenol-d5	29		10 - 129						
Terphenyl-d14	95		13 - 150						
2,4,6-Tribromophenol	84		10 - 150						

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

Lab Sample ID: MB 400-697715/1-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 10:45	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 10:45	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 10:45	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 10:45	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 10:45	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 10:45	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 10:45	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 10:45	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 10:45	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 10:45	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150				01/28/25 14:13	01/30/25 10:45	1
Nitrobenzene-d5	86		50 - 150				01/28/25 14:13	01/30/25 10:45	1
Terphenyl-d14	99		43 - 147				01/28/25 14:13	01/30/25 10:45	1

Lab Sample ID: LCS 400-697715/2-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	3.20	J	ug/L		96	50 - 150
Acenaphthylene	3.34	3.30	J	ug/L		99	50 - 150
Anthracene	3.34	3.65	J	ug/L		110	50 - 150

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

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

Lab Sample ID: LCS 400-697715/2-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]anthracene	3.34	3.35	J	ug/L		100	50 - 150
Benzo[a]pyrene	3.34	3.39	J	ug/L		102	50 - 150
Benzo[b]fluoranthene	3.34	3.38	J	ug/L		101	50 - 150
Benzo[g,h,i]perylene	3.34	3.35	J	ug/L		100	50 - 150
Benzo[k]fluoranthene	3.34	3.41	J	ug/L		102	50 - 150
Chrysene	3.34	3.86	J	ug/L		116	50 - 150
Dibenz(a,h)anthracene	3.34	3.33	J	ug/L		100	50 - 150
Fluoranthene	3.34	3.46	J	ug/L		104	50 - 150
Fluorene	3.34	3.49	J	ug/L		105	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.68	J	ug/L		110	50 - 150
1-Methylnaphthalene	3.34	3.10	J	ug/L		93	50 - 150
2-Methylnaphthalene	3.34	3.00	J	ug/L		90	50 - 150
Phenanthrene	3.34	3.49	J	ug/L		105	50 - 150
Pyrene	3.34	3.55	J	ug/L		107	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	101		15 - 150
Nitrobenzene-d5	81		50 - 150
Terphenyl-d14	100		43 - 147

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-697683/1-A

Matrix: Water

Analysis Batch: 697712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/28/25 10:54	01/28/25 15:14	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/28/25 10:54	01/28/25 15:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		51 - 149	01/28/25 10:54	01/28/25 15:14	1

Lab Sample ID: LCS 400-697683/2-A

Matrix: Water

Analysis Batch: 697712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.101	0.0637		ug/L		63	60 - 140
1,2-Dibromoethane	0.100	0.0924		ug/L		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	71		51 - 149

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269771-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-697683/3-A

Matrix: Water

Analysis Batch: 697712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.101	0.0654		ug/L		65	60 - 140	5	30
1,2-Dibromoethane	0.100	0.0910		ug/L		91	60 - 140	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	74		51 - 149

Shell Oil Products US Chain Of Custody Record

Print Bill To Contact Name: Melissa Remiger PO # 60738191 - 3.1.2 USPC/00114/R02		PlatNet Site or Project ID 25278 GSAP Project ID USPC/00114/R02		☐ CHECK IF NO INCIDENT # APPLIES DATE: 1/24/2025 PAGE: 2 of 2	
State IL		AECOM Project / Task Number: 60738191 - 3.1.2 Roxana Quarry GW		AECOM Other ID: 60738191 - 3.1.2	
SITE ADDRESS: Street and City 900 South Central Ave; ROXANA		PHONE NO.: 314-802-1207		E-MAIL: melissa.remiger@aecom.com	
EDF DELIVERABLE TO (Name, Company, Office Location): Melissa Remiger - please see special instructions		SAMPLER NAME(S) (Print): Ellis Chalfant, Tony Jones		LAB USE ONLY 	
REQUESTED ANALYSIS 60738191 - 3.1.2		FIELD NOTES: 			
TEMPERATURE ON RECEIPT C° 		Container PID Readings or Laboratory Notes: 			

Please Check Appropriate Box:		PRESERVATIVE		NO. OF CONT.	
☐ RAW FDG	☐ PIPELINE	☐ HCL	☐ HNO3	☐ H2SO4	☐ OTHER
☐ CHEMICALS	☐ CONSULTANT	☐ OTHER ENV. SERVICES			
☐ TRANSPORTATION					

LOG CODE: 60738191 - 3.1.2		Bill To Contact E-MAIL: melissa.remiger@aecom.com	
TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (14 DAY)		RESULTS NEEDED ON WEEKEND ☐ 4 HOURS	
☐ LA - RWQCB REPORT FORMAT		☒ OTHER (SPECIFY) EDD	
DELIVERABLES: ☐ LEVEL 1 ☒ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4		Cooler #2 Cooler #3	

SPECIAL INSTRUCTIONS OR NOTES :					
☒ HELL CONTRACT RATE APPLIES ☐ STATE REIMBURSEMENT RATE APPLIES ☐ EDD NOT NEEDED ☒ RECEIPT VERIFICATION REQUESTED ☐ PROVIDE LEDD DISK					
Email reports to: melissa.remiger@aecom.com; mary.massia@aecom.com; brett.howell@aecom.com * Include "J" values on Reports. * Provide sample receipt upon login. * Send EQUIS EDDs to EDDSubmissions@aecomshell.com; Viad.Virjan@aecom.com					

Field Sample Identification		SAMPLING		MATRIX	
LAB USE ONLY	DATE	TIME	DATE	TIME	MATRIX
TB-ROX-012425-8260-B	1/24/2025	0000	Water	2	2
TB-ROX-012425-8011-B	1/24/2025	0000	Water	2	2
P59-ROX-012425	1/24/2025	1005	Water	6	12
P59-ROX-012425-DUP	1/24/2025	1005	Water	6	12
P74-ROX-012425	1/24/2025	1145	Water	6	12
T12-ROX-012425	1/24/2025	1305	Water	6	12

Relinquished by: (Signature) TONY JONES		Received by: (Signature) TONY JONES	
Relinquished by: (Signature) TONY JONES		Received by: (Signature) TONY JONES	

0.000, 0.000 mg

me: 8:22

Date: 12525

6

Signed by: (Signature)

1

11

(a)

Relinquished b

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-269771-1

Login Number: 269771

List Source: Eurofins Pensacola

List Number: 1

Creator: Beecher (Roberts), Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C, 0.0°C, 0.0°C IR8
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 containers received 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.	False	Samples 11 and 12 have two broken HCl VOAs each
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-269771-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269777-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/5/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/16/2025

Stage 2A Validation																																																																	
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																																																												
		Pass	Fail ¹	N/A																																																													
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.																																																												
Holding Times	Analyses were performed within holding time.	X																																																															
Surrogate	Surrogate recoveries met acceptance criteria.	X																																																															
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X																																																															
Matrix Spike	MS recoveries met acceptance criteria.		X																																																														
<table border="1"> <thead> <tr> <th>MS/MSD ID</th><th>Parameter</th><th>Analyte</th><th>MS/MSD Recovery (%)</th><th>RPD</th><th>MS/MSD/ RPD Criteria</th></tr> </thead> <tbody> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>VOCs</td><td>Acetone</td><td>40/38</td><td>3</td><td>43-150/30</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>VOCs</td><td>2-Butanone (MEK)</td><td>55/50</td><td>10</td><td>55-150/30</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>VOCs</td><td>2-Chloroethyl vinyl ether</td><td>0/0</td><td>NC</td><td>10-150/50</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>SVOCs</td><td>Dibenz[a,h]acridine</td><td>38/39</td><td>3</td><td>50-150/40</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>SVOCs</td><td>1,4-Dioxane</td><td>44/36</td><td>19</td><td>50-150/40</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>SVOCs</td><td>N-Nitrosodimethylamine</td><td>53/49</td><td>7</td><td>50-150/40</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>SVOCs</td><td>Phenol</td><td>53/48</td><td>11</td><td>50-150/40</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>SVOCs</td><td>Pyridine</td><td>26/40</td><td>41</td><td>50-150/40</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>SVOCs</td><td>Quinoline</td><td>36/39</td><td>7</td><td>50-150/40</td></tr> </tbody> </table>						MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria	MW6D-ROX-012225 MS/MSD	VOCs	Acetone	40/38	3	43-150/30	MW6D-ROX-012225 MS/MSD	VOCs	2-Butanone (MEK)	55/50	10	55-150/30	MW6D-ROX-012225 MS/MSD	VOCs	2-Chloroethyl vinyl ether	0/0	NC	10-150/50	MW6D-ROX-012225 MS/MSD	SVOCs	Dibenz[a,h]acridine	38/39	3	50-150/40	MW6D-ROX-012225 MS/MSD	SVOCs	1,4-Dioxane	44/36	19	50-150/40	MW6D-ROX-012225 MS/MSD	SVOCs	N-Nitrosodimethylamine	53/49	7	50-150/40	MW6D-ROX-012225 MS/MSD	SVOCs	Phenol	53/48	11	50-150/40	MW6D-ROX-012225 MS/MSD	SVOCs	Pyridine	26/40	41	50-150/40	MW6D-ROX-012225 MS/MSD	SVOCs	Quinoline	36/39	7	50-150/40
MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria																																																												
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	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation																			
Item Reviewed	Acceptable Criteria		Quality Condition			Comments													
			Pass	Fail ¹	N/A														
	MW6D-ROX-012225 MS/MSD	VOCs by 8011	1,2-Dibromo-3-Chloropropane		72/69	21	10-150/20												
	MW6D-ROX-012225 MS/MSD	VOCs by 8011	1,2-Dibromoethane		74/72	23	39-150/20												
Analytical data that required qualification based on MS/MSD data are referenced below. Analytical data associated with MS/MSD RPD alone outside evaluation criteria did not require qualification.																			
Method 8260D (VOCs) Professional judgement was used to qualify; however, not reject 2-chloroethyl vinyl ether due to acceptable LCS recoveries and to the acid reactive nature of 2-chloroethyl vinyl ether.																			
2-Chloroethyl vinyl ether, acetone, and 2-butanone (MEK) in sample MW6D-ROX-012225 were qualified as estimated (UJ).																			
Method 8270E (SVOCs) Several analytes in sample MW6D-ROX-012225 were qualified as estimated (UJ).																			
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.			X															
<table><tr><th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr><tr><td>LCS/LCSD 400-697722/2-A/3-A</td><td>PAHs</td><td>2-Methylnaphthalene</td><td>92/59</td><td>44</td><td>50-150/40</td></tr></table>								LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS/LCSD 400-697722/2-A/3-A	PAHs	2-Methylnaphthalene	92/59	44	50-150/40
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria														
LCS/LCSD 400-697722/2-A/3-A	PAHs	2-Methylnaphthalene	92/59	44	50-150/40														
Analytical data associated with LCS/LCSD RPD alone outside evaluation criteria did not require qualification.																			
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.		X																
Laboratory Blank	Target analytes were not detected in the laboratory blank.			X															
<table><tr><th>Blank ID</th><th>Parameter</th><th>Analyte</th><th>Concentration/Amount</th></tr><tr><td>MB 400-698212/4</td><td>VOCs</td><td>Dibromochloromethane</td><td>0.245 µg/L</td></tr></table>								Blank ID	Parameter	Analyte	Concentration/Amount	MB 400-698212/4	VOCs	Dibromochloromethane	0.245 µg/L				
Blank ID	Parameter	Analyte	Concentration/Amount																
MB 400-698212/4	VOCs	Dibromochloromethane	0.245 µg/L																
Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.																			

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			
Usability	No results qualified as unusable.	X			
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analyte at the specified frequency and appropriate concentrations. Organics		X		

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method				
Analytical data reported as non-detect and associated with ICV/CCV %D recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Method 8260D (VOCs) The continuing calibration verification (CCV) for vinyl chloride was outside evaluation criteria, biased low. The associated results for samples MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225, ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, and MW6A-ROX-012225 were qualified as estimated (UJ). Trip blanks are quality control samples that do not require qualification. Method 8270E (SVOCs) The initial calibration verification (ICV) for aniline was outside evaluation criteria, biased low. The associated results for samples MW6D-ROX-012225, MW6B-ROX-012225, and ROST4PZC-ROX-012225 were qualified as estimated (UJ). The continuing calibration verification (CCV) for aniline was outside evaluation criteria, biased low. The associated results for samples ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, and MW6A-ROX-012225 were qualified as estimated (UJ). Method 8011 (VOCs by 8011) The continuing calibration verification (CCV) for 1,2-dibromo-3-chloropropane was outside evaluation criteria, biased low. The associated results for samples MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225, ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, and MW6A-ROX-012225 were qualified as estimated (UJ). Trip blanks are quality control samples that do not require qualification.					
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	

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Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq$ 40% between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269777-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/12/2025

Event Reviewed: 1st Quarter 2025

Reviewed By and Date: Delaine Austin

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems.
Holding Times	Analyses were performed within holding time.	X			
The samples were in good condition and were received and maintained at temperatures of $\leq 6^{\circ}\text{C}$ and were extracted within seven days of collection and analyzed within 40 days of extraction.					
Surrogate	Surrogate recoveries met acceptance criteria.	X			
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted.					
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X			
Field duplicates are used to assess the field precision. Samples ROST4PZG-ROX-012225/ ROST4PZG-ROX-012225-DUP were the field duplicate samples in this data set.					
Field duplicate results were within the evaluation criteria of $< 25\%$ relative percent difference (RPD) when both results are $> 5x$ the quantitation limit (QL) or $< 2x$ the QL when one or both results is $< 5x$ QL.					
Matrix Spike	MS recoveries met acceptance criteria.		X		
MS/MSD samples are analyzed to assess potential matrix effects. Sample MW6D-ROX-012225 was spiked and analyzed for SVOCs and PAHs. MS/MSD data were within evaluation criteria with the exception summarized in the following table.					
MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW6D-ROX-012225 MS/MSD	SVOCs	Dibenz[a,h]acridine	38/39	3	50-150/40
MW6D-ROX-012225 MS/MSD	SVOCs	1,4-Dioxane	44/36	19	50-150/40
MW6D-ROX-012225 MS/MSD	SVOCs	N-Nitrosodimethylamine	53/49	7	50-150/40
MW6D-ROX-012225 MS/MSD	SVOCs	Phenol	53/48	11	50-150/40
MW6D-ROX-012225 MS/MSD	SVOCs	Pyridine	26/40	41	50-150/40
MW6D-ROX-012225 MS/MSD	SVOCs	Quinoline	36/39	7	50-150/40

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation																	
Item Reviewed	Acceptable Criteria	Quality Condition			Comments												
		Pass	Fail ¹	N/A													
Several analytes in sample MW6D-ROX-012225 were qualified as estimated (UJ).																	
Approximately 10% of the recoveries were recalculated, and no calculation or transcription errors were noted.																	
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.		X														
LCS/LCSD recoveries and LCS/LCSD RPDs were within evaluation criteria with the exceptions summarized in the table below.																	
<table><tr><th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr><tr><td>LCS/LCSD 400-697722/2-A/3-A</td><td>PAHs</td><td>2-Methylnaphthalene</td><td>92/59</td><td>44</td><td>50-150/40</td></tr></table>						LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS/LCSD 400-697722/2-A/3-A	PAHs	2-Methylnaphthalene	92/59	44	50-150/40
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria												
LCS/LCSD 400-697722/2-A/3-A	PAHs	2-Methylnaphthalene	92/59	44	50-150/40												
Analytical data associated with LCS/LCSD RPD alone outside evaluation criteria did not require qualification.																	
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted. No qualification of data was required.																	
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.			X													
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X															
The purpose of the method blank samples is to evaluate the existence and magnitude of contamination problems emanating from laboratory activities. Method blank samples were prepared with each preparation batch as required by Method 8270E. All target compounds were reported as non-detect.																	
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.												
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			Evaluation of the analytical data followed procedures outlined in the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review</i> (EPA 2020) and <i>USEPA CLP NFG for Organic Superfund Methods Data Review</i> (January 2017) when 2017 criteria was more stringent.												
Usability	No results qualified as unusable.	X															

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy and precision, based on LCS and surrogate data, were achieved for this SDG.					
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria	X			
An ICAL was established to assess whether the instrument was capable of producing acceptable qualitative and quantitative data for semi-volatile analysis. SVOC samples as part of SDG 400-269777-1 were analyzed using instruments Snoopy and Lucy. PAH samples were analyzed using instrument Momo and Panda-San and were established on 01/04/2025. The ICALs for instruments Snoopy and Lucy were established on 12/19/2024 and 01/29/2025 respectively. ICALs for instruments Snoopy, Lucy, Momo and Panda-San were established prior to sample analysis and using at least five concentration standards to establish the initial calibration curve as required by Method 8270E and 8270E Low Level. An average response factor (RF) was determined for each target compound, and the RFs were reviewed and verified as greater than the minimum RF as specified in Method 8270E. Review of the initial calibration summary forms for SVOCs and PAHs indicated target compounds had percent relative standard deviations (%RSDs) $\leq$ the maximum RSD of < 20% specified in Method 8270E. Linear regression or quadratic equations were applied to data for select target analytes and the resulting correlation coefficients (r) were greater than 0.990.					
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative	X			

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Stage 2B, 3, 4 Validation																				
Item Reviewed	Acceptable Criteria	Quality Condition			Comments															
		Pass	Fail ¹	N/A																
	abundances were within acceptance limits.																			
GC/MS instrument performance checks were performed to ensure mass resolution, identification, and instrument sensitivity. Criteria for evaluation of instrument performance included possible transcription/calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. Instrument performance check samples were evaluated against criteria established in USEPA SW-846 Method 8270E.																				
Based on the raw data, the ion abundance criteria were within evaluation criteria for all masses, therefore; no qualification of the data was required. The raw data forms were checked against the summary forms and no calculation or transcription errors were noted.																				
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analyte at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method		X																	
An initial calibration verification (ICV) was analyzed following the initial calibration. Percent difference (%D) values from comparing ICV RF to the average ICAL RFs were within the Method 8270E quality control criteria with the following exceptions.																				
<table><tr><th>CV (Date/Time)</th><th>Compound</th><th>%D</th></tr><tr><td>ICV 400-697830/22/01/29/2025 19:04</td><td>Aniline</td><td>-21.4</td></tr><tr><td colspan="3">Associated samples: MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225</td></tr><tr><td>ICV 400-694707/21/12/19/2024 17:22</td><td>3,3'-Dichlorobenzidine</td><td>67.8</td></tr><tr><td colspan="3">Associated samples: ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, MW6A-ROX-012225</td></tr></table>						CV (Date/Time)	Compound	%D	ICV 400-697830/22/01/29/2025 19:04	Aniline	-21.4	Associated samples: MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225			ICV 400-694707/21/12/19/2024 17:22	3,3'-Dichlorobenzidine	67.8	Associated samples: ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, MW6A-ROX-012225		
CV (Date/Time)	Compound	%D																		
ICV 400-697830/22/01/29/2025 19:04	Aniline	-21.4																		
Associated samples: MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225																				
ICV 400-694707/21/12/19/2024 17:22	3,3'-Dichlorobenzidine	67.8																		
Associated samples: ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, MW6A-ROX-012225																				
The associated results for aniline for samples MW6D-ROX-012225, MW6B-ROX-012225, and ROST4PZC-ROX-012225 were qualified as estimated (UJ). Analytical data reported as non-detect and associated with ICV results above evaluation criteria, indicating a possible high bias, did not require qualification.																				

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation																																			
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																														
		Pass	Fail ¹	N/A																															
Review of continuing calibration summary forms for SVOCs and PAHs indicated all RFs met the evaluation criteria of greater than the method specified minimum RF for all target compounds. In addition, %Ds met the evaluation criteria of < 20% specified in Method 8270E with the exceptions summarized in the table below.																																			
<table><tr><th>CV (Date/Time)</th><th>Compound</th><th>%D</th></tr><tr><td rowspan="2">CCVIS 400-698513/4 02/05/2025 14:32</td><td>1,4-Dioxane</td><td>34.7</td></tr><tr><td>Pyridine</td><td>31.1</td></tr><tr><td>CCV 400-698513/5 02/05/2025 14:56</td><td>Indene</td><td>22.2</td></tr><tr><td>CCV 400-698513/7 02/05/2025 15:45</td><td>Benzenethiol</td><td>20.9</td></tr><tr><td colspan="3">Associated samples: MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225</td></tr><tr><td rowspan="3">CCVIS 400-698480/3 02/05/2025 11:37</td><td>Aniline</td><td>-37.8</td></tr><tr><td>Bis(2-chloroethyl)ether</td><td>42.6</td></tr><tr><td>Di-n-octyl phthalate</td><td>21.1</td></tr><tr><td>CCV 400-698480/6 02/05/2025 12:45</td><td>Benzenethiol</td><td>21.6</td></tr><tr><td colspan="3">Associated samples: ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, MW6A-ROX-012225</td></tr></table>						CV (Date/Time)	Compound	%D	CCVIS 400-698513/4 02/05/2025 14:32	1,4-Dioxane	34.7	Pyridine	31.1	CCV 400-698513/5 02/05/2025 14:56	Indene	22.2	CCV 400-698513/7 02/05/2025 15:45	Benzenethiol	20.9	Associated samples: MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225			CCVIS 400-698480/3 02/05/2025 11:37	Aniline	-37.8	Bis(2-chloroethyl)ether	42.6	Di-n-octyl phthalate	21.1	CCV 400-698480/6 02/05/2025 12:45	Benzenethiol	21.6	Associated samples: ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, MW6A-ROX-012225		
CV (Date/Time)	Compound	%D																																	
CCVIS 400-698513/4 02/05/2025 14:32	1,4-Dioxane	34.7																																	
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Associated samples: ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, MW6A-ROX-012225																																			
The associated results for aniline for samples ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, and MW6A-ROX-012225 were qualified as estimated (UJ). Analytical data reported as non-detect and associated with CV results above evaluation criteria, indicating a possible high bias, did not require qualification.																																			
Recalculations of the RFs and %Ds for two target compounds were completed for each CV, and no errors in calculation were noted.																																			
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X																															
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X																															
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			The summary forms versus the raw data were verified and no transcription errors were noted.																														
Second Column/Detector Confirmation Results	The reported results agreed with an RPD ≤40% between the primary and confirmation columns.			X																															

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated, and appropriate instrument response data was reviewed.	X			
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method	X			
For validation of the compound identification, method specified compound identification criteria were reviewed in approximately 10% of the samples. No anomalies were noted with the identification of the target compounds in the samples. For the validation of compound quantitation, 10% of the samples were recalculated from the raw data, and no calculation errors were noted. Additionally, the reporting limits (RLs) were verified to determine if RLs were adjusted for dilutions. No qualification of the data was required, and review of the data indicated the correct RLs were reported.					

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269777-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/12/2025

Event Reviewed: 1st Quarter 2025

Reviewed By and Date: Delaine Austin 3/16/2025

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.
Holding Times	Analyses were performed within holding time.	X			
The samples were received in good condition at a temperature of 0° C and maintained at ≤ 6°C. In addition, the samples were analyzed within 14 days of collection at a pH < 2.0. No qualification of data was required.					
Surrogate	Surrogate recoveries met acceptance criteria.	X			
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted.					
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X			
Field duplicates are used to assess the field precision. Samples ROST4PZG-ROX-012225/ ROST4PZG-ROX-012225-DUP were the field duplicate samples in this data set. Field duplicate results were within the evaluation criteria of < 25% relative percent difference (RPD) when both results are > 5x the quantitation limit (QL) or < 2x the QL when one or both results is <5x QL.					
Matrix Spike	MS recoveries met acceptance criteria.		X		
MS/MSD samples are analyzed to assess potential matrix effects. Sample MW6D-ROX-012225 was spiked and analyzed for VOCs. MS/MSD data were within evaluation criteria with the exception summarized in the following table.					
MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
MW6D-ROX-012225 MS/MSD	VOCs	Acetone	40/38	3	43-150/30
MW6D-ROX-012225 MS/MSD	VOCs	2-Butanone (MEK)	55/50	10	55-150/30
MW6D-ROX-012225 MS/MSD	VOCs	2-Chloroethyl vinyl ether	0/0	NC	10-150/50

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Stage 2A Validation													
Item Reviewed	Acceptable Criteria	Quality Condition			Comments								
		Pass	Fail ¹	N/A									
Professional judgement was used to qualify; however, not reject 2-chloroethyl vinyl ether due to acceptable LCS recoveries and to the acid reactive nature of 2-chloroethyl vinyl ether.													
2-Chloroethyl vinyl ether, acetone, and 2-butanone (MEK) in sample MW6D-ROX-012225 were qualified as estimated (UJ).													
Approximately 10% of the recoveries were recalculated, and no calculation or transcription errors were noted.													
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.	X											
Laboratory control samples were analyzed with each analytical batch to assess the accuracy of the analytical process. LCS data were within evaluation criteria. No qualification of data was required.													
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted. No qualification of data was required.													
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X											
Two trip blanks were analyzed to evaluate the existence and magnitude of contamination problems emanating from sample shipment to the laboratory. Target compounds were reported as non-detect. No qualification of data was required.													
Laboratory Blank	Target analytes were not detected in the laboratory blank.		X										
The purpose of the method blank samples is to evaluate the existence and magnitude of contamination problems emanating from laboratory activities. Method blank samples were analyzed with each analytical batch as required by USEPA SW-846 Method 8260D. All target compounds were reported as non-detect with the exception below.													
<table><tr><th>Blank ID</th><th>Parameter</th><th>Analyte</th><th>Concentration/Amount</th></tr><tr><td>MB 400-698212/4</td><td>VOCs</td><td>Dibromochloromethane</td><td>0.245 µg/L</td></tr></table>						Blank ID	Parameter	Analyte	Concentration/Amount	MB 400-698212/4	VOCs	Dibromochloromethane	0.245 µg/L
Blank ID	Parameter	Analyte	Concentration/Amount										
MB 400-698212/4	VOCs	Dibromochloromethane	0.245 µg/L										
Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.													
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.								
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			Evaluation of the analytical data followed procedures outlined in the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review</i> (EPA 2020) and <i>USEPA CLP NFG for Organic</i>								

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Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
					<i>Superfund Methods Data Review (January 2017) when 2017 criteria was more stringent.</i>
Usability	No results qualified as unusable.	X			
Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy and precision, based on LCS and surrogate data, were achieved for this SDG.					
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria	X			
An ICAL was established to assess whether the instrument could produce acceptable qualitative and quantitative data for volatiles analyses. Validated samples included in this SDG were analyzed using instrument Brutus. The ICAL for instrument Brutus was established on 01/10/2025. At least five standard concentrations were used to establish the ICAL curve as required by USEPA SW-846 Method 8260D. The ICAL response factors (RFs) were reviewed and were greater than 0.01 for chloromethane, 0.30 for 1,1-dichloroethane, 0.10 for bromoform, 0.40 for chlorobenzene, 0.20 for 1,1,2,2-tetrachloroethane, and greater than NFG (2017) specified minimum RRFs for all other target analytes. No qualification of data was required. Review of the initial calibration summary forms indicated %RSDs were $\leq 30\%$ for calibration check compounds (CCCs) [1,1-dichloroethene, toluene, chloroform, ethylbenzene, 1,2-dichloropropane, and vinyl chloride], and $\leq 15\%$ for non-CCCs. The initial calibration for compounds with %RSD values $>15\%$ was determined using least square linear regression: correlation coefficients (r) were greater than 0.990.					

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation														
Item Reviewed	Acceptable Criteria	Quality Condition			Comments									
		Pass	Fail ¹	N/A										
A recalculation of the %RSDs and RFs for a compound associated with each internal standard was performed from the raw data and no errors in calculation were noted; therefore, no qualification of data was required.														
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.	X												
GC/MS instrument performance checks were performed to ensure mass resolution, identification, and instrument sensitivity. Criteria for evaluation of instrument performance included possible transcription/calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. Instrument performance check samples were evaluated against criteria established in USEPA SW-846 Method 8260D.														
Based on the summary forms, the ion abundance criteria were within evaluation criteria for all masses. No data qualifications were required based on instrument performance criteria.														
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method		X											
An initial calibration verification (ICV) was analyzed following the ICAL. Percent difference (%D) values from comparing ICV RF to the average ICAL RFs were within criteria specified in NFG (2017).														
Review of CV summary forms indicated RFs met the evaluation criteria of greater than 0.10 for chloromethane, 0.10 for 1,1-dichloroethane, 0.10 for bromoform, 0.30 for chlorobenzene, and 0.30 for 1,1,2,2-tetrachloroethane. No qualification of data was required.														
Percent differences or percent drifts (%D) met the evaluation criteria of ≤ 20% for target analytes with the following exception.														
<table><tr><th>CCV (Date and Time)</th><th>Compound</th><th>%D</th></tr><tr><td>CCVIS 400-698212/2 02/02/2025 09:48</td><td>Vinyl chloride</td><td>-23.4</td></tr><tr><td colspan="3">Associated samples: MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225, ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-</td></tr></table>						CCV (Date and Time)	Compound	%D	CCVIS 400-698212/2 02/02/2025 09:48	Vinyl chloride	-23.4	Associated samples: MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225, ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-		
CCV (Date and Time)	Compound	%D												
CCVIS 400-698212/2 02/02/2025 09:48	Vinyl chloride	-23.4												
Associated samples: MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225, ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-														

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
ROX-012225, MW6A-ROX-012225, TB-ROX-012225-8260-A, TB-ROX-012225-8260-B The associated results for vinyl chloride were qualified as estimated (UJ). Trip blanks are quality control samples and do not require qualification. Recalculations of the RFs and %Ds for two target compounds were completed for each CV, and no errors in calculation were noted; therefore, no qualifications of data were required.					
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			The summary forms versus the raw data were verified and no transcription errors were noted.
Second Column/Detector Confirmation Results	The reported results agreed with an RPD ≤40% between the primary and confirmation columns.			X	
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated, and appropriate instrument response data was reviewed.	X			
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples	X			

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	and agree with the criteria in the analytical method				
For validation of the compound identification, chromatograms were reviewed to verify the major peaks were identified, and the relative retention time was no greater than 0.06 minutes different from the associated CV retention times. Approximately 10% of the detected target analytes were verified. No anomalies were noted with the identification of the target compounds in the samples. For the validation of compound quantitation, approximately 10% of the detected target analytes were recalculated from the raw data, and no calculation errors were noted. Additionally, the RLs were verified to determine if RLs were adjusted for dilutions. No qualification to the data was required and review of the data indicated the correct RLs were reported.					

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269777-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/12/2025

Event Reviewed: 1st Quarter 2025

Reviewed By and Date: Delaine Austin

Stage 2A Validation																							
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																		
		Pass	Fail ¹	N/A																			
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems.																		
Holding Times	Analyses were performed within holding time.	X																					
The samples were received in good condition and were received and maintained at temperatures of $\leq 6^{\circ}\text{C}$. In addition, the samples were analyzed within 14 days of collection. No qualifications to the data were required based on holding times and sample preservation.																							
Surrogate	Surrogate recoveries met acceptance criteria.	X																					
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted.																							
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X																					
Field duplicates are used to assess the field precision. Samples ROST4PZG-ROX-012225/ ROST4PZG-ROX-012225-DUP were the field duplicate samples in this data set. Target compounds were not detected in either sample of both field duplicate pairs. Field duplicate precision was deemed acceptable.																							
Matrix Spike	MS recoveries met acceptance criteria.		X																				
MS/MSD samples are analyzed to assess potential matrix effects. Sample MW6D-ROX-012225 was spiked and analyzed for VOCs by 8011. MS/MSD data were within evaluation criteria with the exception summarized in the following table.																							
<table border="1"> <thead> <tr> <th>MS/MSD ID</th><th>Parameter</th><th>Analyte</th><th>MS/MSD Recovery (%)</th><th>RPD</th><th>MS/MSD/ RPD Criteria</th></tr> </thead> <tbody> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>VOCs by 8011</td><td>1,2-Dibromo-3-Chloropropane</td><td>72/69</td><td>21</td><td>10-150/20</td></tr> <tr> <td>MW6D-ROX-012225 MS/MSD</td><td>VOCs by 8011</td><td>1,2-Dibromoethane</td><td>74/72</td><td>23</td><td>39-150/20</td></tr> </tbody> </table>						MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria	MW6D-ROX-012225 MS/MSD	VOCs by 8011	1,2-Dibromo-3-Chloropropane	72/69	21	10-150/20	MW6D-ROX-012225 MS/MSD	VOCs by 8011	1,2-Dibromoethane	74/72	23	39-150/20
MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria																		
MW6D-ROX-012225 MS/MSD	VOCs by 8011	1,2-Dibromo-3-Chloropropane	72/69	21	10-150/20																		
MW6D-ROX-012225 MS/MSD	VOCs by 8011	1,2-Dibromoethane	74/72	23	39-150/20																		
Analytical data associated with MS/MSD RPD alone outside evaluation criteria did not require qualification.																							
Approximately 10% of the recoveries were recalculated, and no calculation or transcription errors were noted.																							
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.	X																					

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Laboratory control samples were analyzed with each analytical batch to assess the accuracy of the analytical process. LCS data were within evaluation criteria. No qualification of data was required.					
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted. No qualification of data was required.					
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X			
Two trip blanks were analyzed to evaluate the existence and magnitude of contamination problems emanating from sample shipment to the laboratory. Target compounds were reported as non-detect. No qualification of data was required.					
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X			
The purpose of the method blank samples is to evaluate the existence and magnitude of contamination problems emanating from laboratory activities. Method blank samples were analyzed with each analytical batch as required by USEPA SW-846 Method 8011. Target compounds were reported as non-detect in all blanks. No qualification of data was required.					
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			Evaluation of the analytical data followed procedures outlined in the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review</i> (EPA 2020) and <i>USEPA CLP NFG for Organic Superfund Methods Data Review</i> (January 2017) when 2017 criteria was more stringent.
Usability	No results qualified as unusable.	X			
Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy and precision, based on LCS and surrogate data, were achieved for this SDG.					
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria	X			
An ICAL was established to assess whether the instrument was capable of producing acceptable qualitative and quantitative data for EDB/DBCP analyses. Validated samples included in this SDG were analyzed using instrument Toto. The ICAL for instrument Toto was established on 01/24/2025. At least five standard concentrations were used to establish the ICAL curve as required by Method 8011. Review of the ICAL summary forms indicated percent relative standard deviations (%RSDs) were $\leq 15\%$ for target compounds or were determined using linear regression and correlation coefficients (r^2) were greater than 0.990. A recalculation of the weighted linear regression was performed from the raw data and no errors in calculation were noted. Summary forms and raw data are provided for the primary column only since all target compounds were reported as non-detect in the samples and did not require confirmation.					
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method		X		

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method				

Review of the summary forms indicated that an initial calibration verification (ICV) was performed following the initial calibration. Review of ICV summary forms indicated percent differences (%Ds) were within the evaluation criterion of $\leq 30\%$ for both target compounds. No qualification of data was required.

Review of the CV summary forms indicated that all CVs were performed before the start of sample analysis, every ten sample injections, and at the end of sample analysis. %Ds met the evaluation criteria of $\leq 15\%$ for both target compounds with the exceptions summarized in the table below.

CCV (Date and Time)	Compound	%D
CCV 400-697799/25-A 01/29/2025 18:30	1,2-Dibromo-3-chloropropane	-28.7
Associated samples: TB-ROX-012225-8011-A, MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225, TB-ROX-012225-8011-B, ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, MW6A-ROX-012225		
CCV 400-697799/24-A 01/29/2025 22:22	1,2-Dibromo-3-chloropropane	-29.8
Associated samples: ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, MW6A-ROX-012225		

The associated results for samples MW6D-ROX-012225, MW6B-ROX-012225, ROST4PZC-ROX-012225, ROST4PZG-ROX-012225, ROST4PZG-ROX-012225-DUP, MW11-ROX-012225, and MW6A-ROX-012225 were qualified as estimated (UJ). Trip blanks are quality control samples and do not require qualification.

Summary forms and raw data are provided for the primary column only since all target compounds were reported as non-detect in the samples and did not require confirmation.

Recalculations of the %D for one target compound was completed for the CV, and no errors in calculation were noted.

Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	
Internal Standards	The recoveries for the internal standards in field samples	X			The summary forms versus the raw data were verified and

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	were within the applicable acceptance limits.				no transcription errors were noted.
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated, and appropriate instrument response data was reviewed.	X			
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method	X			
For validation of the compound identification, chromatograms were reviewed to verify the major peaks were identified, and the relative retention time was no greater than 0.06 minutes different from the associated CV retention times. Target compounds were not detected in any of the investigative groundwater samples in this data set. For the validation of compound quantitation, the LCS results were recalculated from the raw data since all target compounds were non-detect, and no calculation errors were noted. Additionally, the reporting limits (RLs) were verified to determine if RLs were adjusted for dilutions when applicable.					

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/6/2025 4:40:59 PM

JOB DESCRIPTION

ROXANA QUARTERLY GW 1Q25

JOB NUMBER

400-269777-1

Reviewed 03/05/2025
VA

Eurofins Pensacola

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 Southeast, LLC Project Manager.

Authorization



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(615)301-5038

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Job ID: 400-269777-1

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Job Narrative 400-269777-1

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 1/25/2025 8:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0°C and 0.0°C.

GC/MS VOA

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-698212 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-698212 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

Method 8260D: The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for analytical batch 400-698212 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-698212 recovered outside acceptance criteria, low biased, for Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid : TB-ROX-012225-8260-A (400-269777-1), MW6D-ROX-012225 (400-269777-3), MW6B-ROX-012225 (400-269777-4), TB-ROX-012225-8260-B (400-269777-5), ROST4PZC-ROX-012225 (400-269777-7), ROST4PZG-ROX-012225 (400-269777-8), ROST4PZG-ROX-012225-DUP (400-269777-9), MW11-ROX-012225 (400-269777-10) and MW6A-ROX-012225 (400-269777-11). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and acrylonitrile, acid-labile compounds that degrades in an acidic medium.

Method 8260D: The method blank for analytical batch 400-698212 contained Chlorodibromomethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698480 recovered above the upper control limit for Bis(2-chloroethyl)ether and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698480 recovered above the upper control limit for Benzenethiol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698480 recovered outside acceptance criteria, low biased, for Aniline. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Job ID: 400-269777-1 (Continued)

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Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-697872 and analytical batch 400-698513 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 400-697872 and analytical batch 400-698513 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698513 recovered above the upper control limit for 1,4-Dioxane and Pyridine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698513 recovered above the upper control limit for Indene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698513 recovered above the upper control limit for Benzenethiol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-697722 and analytical batch 400-697898 recovered outside control limits for the following analytes: 2-Methylnaphthalene.

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

GC Semi VOA

Method 8011: The matrix spike duplicate (MSD) precision for preparation batch 400-697799 and analytical batch 400-697883 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8011: The continuing calibration verification (CCV) associated with batch 400-697883 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Eurofins Pensacola

Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269777-1	TB-ROX-012225-8260-A	Water	01/22/25 00:00	01/25/25 08:22
400-269777-2	TB-ROX-012225-8011-A	Water	01/22/25 00:00	01/25/25 08:22
400-269777-3	MW6D-ROX-012225	Water	01/22/25 12:40	01/25/25 08:22
400-269777-4	MW6B-ROX-012225	Water	01/22/25 14:15	01/25/25 08:22
400-269777-5	TB-ROX-012225-8260-B	Water	01/22/25 00:00	01/25/25 08:22
400-269777-6	TB-ROX-012225-8011-B	Water	01/22/25 00:00	01/25/25 08:22
400-269777-7	ROST4PZC-ROX-012225	Water	01/22/25 09:10	01/25/25 08:22
400-269777-8	ROST4PZG-ROX-012225	Water	01/22/25 10:45	01/25/25 08:22
400-269777-9	ROST4PZG-ROX-012225-DUP	Water	01/22/25 10:45	01/25/25 08:22
400-269777-10	MW11-ROX-012225	Water	01/22/25 12:20	01/25/25 08:22
400-269777-11	MW6A-ROX-012225	Water	01/22/25 14:00	01/25/25 08:22

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: TB-ROX-012225-8260-A

Lab Sample ID: 400-269777-1

No Detections.

Client Sample ID: TB-ROX-012225-8011-A

Lab Sample ID: 400-269777-2

No Detections.

Client Sample ID: MW6D-ROX-012225

Lab Sample ID: 400-269777-3

No Detections.

Client Sample ID: MW6B-ROX-012225

Lab Sample ID: 400-269777-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.81	J	1.0	0.50	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	0.30	J	1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: TB-ROX-012225-8260-B

Lab Sample ID: 400-269777-5

No Detections.

Client Sample ID: TB-ROX-012225-8011-B

Lab Sample ID: 400-269777-6

No Detections.

Client Sample ID: ROST4PZC-ROX-012225

Lab Sample ID: 400-269777-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		1.0	0.50	ug/L	1		8260D	Total/NA
Isopropylbenzene	6.6		1.0	0.53	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	36		5.0	3.0	ug/L	1		8260D	Total/NA
Naphthalene	66		5.0	3.0	ug/L	1		8260D	Total/NA
N-Propylbenzene	9.5		1.0	0.69	ug/L	1		8260D	Total/NA
Toluene	10		1.0	0.90	ug/L	1		8260D	Total/NA
1,2,4-Trimethylbenzene	7.6		1.0	0.82	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	2.5		1.0	0.56	ug/L	1		8260D	Total/NA
Xylenes, Total	38		10	6.0	ug/L	1		8260D	Total/NA
Acenaphthene	1.4	J	10	0.086	ug/L	1		8270E	Total/NA
Acenaphthylene	0.17	J	10	0.047	ug/L	1		8270E	Total/NA
Anthracene	0.37	J	10	0.074	ug/L	1		8270E	Total/NA
Fluoranthene	0.033	J	10	0.032	ug/L	1		8270E	Total/NA
Fluorene	1.2	J	10	0.088	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	32		10	0.067	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	7.6	J	10	0.078	ug/L	1		8270E	Total/NA
Phenanthrene	1.0	J	10	0.044	ug/L	1		8270E	Total/NA
Pyrene	0.069	J	10	0.040	ug/L	1		8270E	Total/NA

Client Sample ID: ROST4PZG-ROX-012225

Lab Sample ID: 400-269777-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.6		1.0	0.50	ug/L	1		8260D	Total/NA
Ethylbenzene	0.91	J	1.0	0.50	ug/L	1		8260D	Total/NA
Isopropylbenzene	5.8		1.0	0.53	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	7.0		5.0	3.0	ug/L	1		8260D	Total/NA
Naphthalene	7.1		5.0	3.0	ug/L	1		8260D	Total/NA
N-Propylbenzene	8.3		1.0	0.69	ug/L	1		8260D	Total/NA
Toluene	1.6		1.0	0.90	ug/L	1		8260D	Total/NA
Xylenes, Total	8.5	J	10	6.0	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225 (Continued)

Lab Sample ID: 400-269777-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.11	J	10	0.085	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	2.7	J	10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	1.0	J	10	0.077	ug/L	1		8270E	Total/NA
Phenanthrene	0.066	J	10	0.044	ug/L	1		8270E	Total/NA

Client Sample ID: ROST4PZG-ROX-012225-DUP

Lab Sample ID: 400-269777-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.3		1.0	0.50	ug/L	1		8260D	Total/NA
Ethylbenzene	0.89	J	1.0	0.50	ug/L	1		8260D	Total/NA
Isopropylbenzene	5.3		1.0	0.53	ug/L	1		8260D	Total/NA
m-Xylene & p-Xylene	6.3		5.0	3.0	ug/L	1		8260D	Total/NA
Naphthalene	4.8	J	5.0	3.0	ug/L	1		8260D	Total/NA
N-Propylbenzene	7.5		1.0	0.69	ug/L	1		8260D	Total/NA
Toluene	1.5		1.0	0.90	ug/L	1		8260D	Total/NA
Xylenes, Total	7.7	J	10	6.0	ug/L	1		8260D	Total/NA
Acenaphthene	0.086	J	0.20	0.086	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	2.3		0.20	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.82	*1	0.20	0.078	ug/L	1		8270E	Total/NA
Phenanthrene	0.063	J	0.20	0.044	ug/L	1		8270E	Total/NA

Client Sample ID: MW11-ROX-012225

Lab Sample ID: 400-269777-10

No Detections.

Client Sample ID: MW6A-ROX-012225

Lab Sample ID: 400-269777-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.32	J	1.0	0.22	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Client Sample Results

Client: AECOM

Job ID: 400-269777-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012225-8260-A

Lab Sample ID: 400-269777-1

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 16:18	1
Acrolein	ND		20	3.3	ug/L			02/02/25 16:18	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 16:18	1
Benzene	ND		1.0	0.50	ug/L			02/02/25 16:18	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 16:18	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 16:18	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 16:18	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 16:18	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 16:18	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 16:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 16:18	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 16:18	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 16:18	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 16:18	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 16:18	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 16:18	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 16:18	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 16:18	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 16:18	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 16:18	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 16:18	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 16:18	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 16:18	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 16:18	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 16:18	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 16:18	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 16:18	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 16:18	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 16:18	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 16:18	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 16:18	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 16:18	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 16:18	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 16:18	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 16:18	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 16:18	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/02/25 16:18	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 16:18	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 16:18	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 16:18	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/02/25 16:18	1
Naphthalene	ND		5.0	3.0	ug/L			02/02/25 16:18	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 16:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/02/25 16:18	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 16:18	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 16:18	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 16:18	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 16:18	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: TB-ROX-012225-8260-A

Lab Sample ID: 400-269777-1

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 16:18	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 16:18	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 16:18	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 16:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 16:18	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 16:18	1
Toluene	ND		1.0	0.90	ug/L			02/02/25 16:18	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 16:18	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 16:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 16:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 16:18	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 16:18	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 16:18	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 16:18	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 16:18	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 16:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 16:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 16:18	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 16:18	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/02/25 16:18	1
Xylenes, Total	ND		10	6.0	ug/L			02/02/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136					02/02/25 16:18	1
Dibromofluoromethane	97		79 - 130					02/02/25 16:18	1
Toluene-d8 (Surr)	99		64 - 132					02/02/25 16:18	1

Client Sample Results

Client: AECOM

Job ID: 400-269777-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012225-8011-A

Lab Sample ID: 400-269777-2

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.034	0.019	ug/L		01/29/25 09:05	01/29/25 16:02	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/29/25 09:05	01/29/25 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	61		51 - 149				01/29/25 09:05	01/29/25 16:02	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6D-ROX-012225

Lab Sample ID: 400-269777-3

Date Collected: 01/22/25 12:40

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	F1 UJ	25	10	ug/L			02/02/25 12:14	1
Acrolein	ND		20	3.3	ug/L			02/02/25 12:14	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 12:14	1
Benzene	ND		1.0	0.50	ug/L			02/02/25 12:14	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 12:14	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 12:14	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 12:14	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 12:14	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 12:14	1
2-Butanone (MEK)	ND	F1 UJ	25	2.6	ug/L			02/02/25 12:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 12:14	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 12:14	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 12:14	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 12:14	1
2-Chloroethyl vinyl ether	ND	F1 UJ	5.0	2.0	ug/L			02/02/25 12:14	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 12:14	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 12:14	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 12:14	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 12:14	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 12:14	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 12:14	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 12:14	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 12:14	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 12:14	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 12:14	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 12:14	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 12:14	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 12:14	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 12:14	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 12:14	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 12:14	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 12:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 12:14	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 12:14	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 12:14	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 12:14	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/02/25 12:14	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 12:14	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 12:14	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 12:14	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/02/25 12:14	1
Naphthalene	ND		5.0	3.0	ug/L			02/02/25 12:14	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 12:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/02/25 12:14	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 12:14	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 12:14	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 12:14	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 12:14	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6D-ROX-012225

Lab Sample ID: 400-269777-3

Date Collected: 01/22/25 12:40

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 12:14	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 12:14	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 12:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 12:14	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 12:14	1
Toluene	ND		1.0	0.90	ug/L			02/02/25 12:14	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 12:14	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 12:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 12:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 12:14	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 12:14	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 12:14	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 12:14	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 12:14	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 12:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 12:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 12:14	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 12:14	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/02/25 12:14	1
Xylenes, Total	ND		10	6.0	ug/L			02/02/25 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		56 - 136		02/02/25 12:14	1
Dibromofluoromethane	96		79 - 130		02/02/25 12:14	1
Toluene-d8 (Surr)	99		64 - 132		02/02/25 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.5	8.3	ug/L		01/29/25 13:47	02/05/25 22:39	1
Benzenethiol	ND		9.5	9.4	ug/L		01/29/25 13:47	02/05/25 22:39	1
Benzoic acid	ND		29	23	ug/L		01/29/25 13:47	02/05/25 22:39	1
Benzyl alcohol	ND		9.5	7.0	ug/L		01/29/25 13:47	02/05/25 22:39	1
Bis(2-chloroethoxy)methane	ND		9.5	4.4	ug/L		01/29/25 13:47	02/05/25 22:39	1
Bis(2-chloroethyl)ether	ND		9.5	3.7	ug/L		01/29/25 13:47	02/05/25 22:39	1
bis (2-chloroisopropyl) ether	ND		9.5	1.7	ug/L		01/29/25 13:47	02/05/25 22:39	1
Bis(2-ethylhexyl) phthalate	ND		9.5	8.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
4-Bromophenyl phenyl ether	ND		9.5	8.2	ug/L		01/29/25 13:47	02/05/25 22:39	1
Butyl benzyl phthalate	ND		9.5	5.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
4-Chloroaniline	ND		9.5	4.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
4-Chloro-3-methylphenol	ND		9.5	5.1	ug/L		01/29/25 13:47	02/05/25 22:39	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		01/29/25 13:47	02/05/25 22:39	1
2-Chlorophenol	ND		9.5	3.9	ug/L		01/29/25 13:47	02/05/25 22:39	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
Dibenz[a,h]acridine	ND	F1 UJ	9.5	2.7	ug/L		01/29/25 13:47	02/05/25 22:39	1
Dibenzofuran	ND		9.5	3.8	ug/L		01/29/25 13:47	02/05/25 22:39	1
3,3'-Dichlorobenzidine	ND		10	10	ug/L		01/29/25 13:47	02/05/25 22:39	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		01/29/25 13:47	02/05/25 22:39	1
Diethyl phthalate	ND		9.5	4.2	ug/L		01/29/25 13:47	02/05/25 22:39	1
2,4-Dimethylphenol	ND		9.5	5.0	ug/L		01/29/25 13:47	02/05/25 22:39	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6D-ROX-012225

Lab Sample ID: 400-269777-3

Date Collected: 01/22/25 12:40

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.5	4.0	ug/L		01/29/25 13:47	02/05/25 22:39	1
Di-n-butyl phthalate	ND		9.5	4.4	ug/L		01/29/25 13:47	02/05/25 22:39	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		01/29/25 13:47	02/05/25 22:39	1
2,4-Dinitrotoluene	ND		9.5	4.9	ug/L		01/29/25 13:47	02/05/25 22:39	1
2,6-Dinitrotoluene	ND		9.5	3.7	ug/L		01/29/25 13:47	02/05/25 22:39	1
Di-n-octyl phthalate	ND		9.5	5.7	ug/L		01/29/25 13:47	02/05/25 22:39	1
1,4-Dioxane	ND	F1 UJ	9.5	4.1	ug/L		01/29/25 13:47	02/05/25 22:39	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		01/29/25 13:47	02/05/25 22:39	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		01/29/25 13:47	02/05/25 22:39	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		01/29/25 13:47	02/05/25 22:39	1
Hexachloroethane	ND		9.5	5.0	ug/L		01/29/25 13:47	02/05/25 22:39	1
Indene	ND		9.5	3.4	ug/L		01/29/25 13:47	02/05/25 22:39	1
Isophorone	ND		9.5	5.0	ug/L		01/29/25 13:47	02/05/25 22:39	1
2-Methylphenol	ND		9.5	3.1	ug/L		01/29/25 13:47	02/05/25 22:39	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		01/29/25 13:47	02/05/25 22:39	1
2-Nitroaniline	ND		9.5	4.8	ug/L		01/29/25 13:47	02/05/25 22:39	1
3-Nitroaniline	ND		9.5	4.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
4-Nitroaniline	ND		9.5	3.9	ug/L		01/29/25 13:47	02/05/25 22:39	1
Nitrobenzene	ND		9.5	4.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
2-Nitrophenol	ND		9.5	4.4	ug/L		01/29/25 13:47	02/05/25 22:39	1
4-Nitrophenol	ND		9.5	3.1	ug/L		01/29/25 13:47	02/05/25 22:39	1
N-Nitrosodimethylamine	ND	F1 UJ	9.5	2.1	ug/L		01/29/25 13:47	02/05/25 22:39	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		01/29/25 13:47	02/05/25 22:39	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
Pentachlorophenol	ND		19	11	ug/L		01/29/25 13:47	02/05/25 22:39	1
Phenol	ND	F1 UJ	9.5	4.0	ug/L		01/29/25 13:47	02/05/25 22:39	1
Pyridine	ND	F2 F1 UJ	9.5	9.5	ug/L		01/29/25 13:47	02/05/25 22:39	1
Quinoline	ND	F1 UJ	9.5	2.3	ug/L		01/29/25 13:47	02/05/25 22:39	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		01/29/25 13:47	02/05/25 22:39	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		01/29/25 13:47	02/05/25 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		21 - 114	01/29/25 13:47	02/05/25 22:39	1
2-Fluorophenol	53		10 - 105	01/29/25 13:47	02/05/25 22:39	1
Nitrobenzene-d5	78		16 - 127	01/29/25 13:47	02/05/25 22:39	1
Phenol-d5	36		10 - 129	01/29/25 13:47	02/05/25 22:39	1
Terphenyl-d14	106		13 - 150	01/29/25 13:47	02/05/25 22:39	1
2,4,6-Tribromophenol	87		10 - 150	01/29/25 13:47	02/05/25 22:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 19:56	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 19:56	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 19:56	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 19:56	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 19:56	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 19:56	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 19:56	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6D-ROX-012225

Lab Sample ID: 400-269777-3

Date Collected: 01/22/25 12:40

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 19:56	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 19:56	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 19:56	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 19:56	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 19:56	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 19:56	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 19:56	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 19:56	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 19:56	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	110		15 - 150	01/28/25 14:13	01/30/25 19:56	1
Nitrobenzene-d5	94		50 - 150	01/28/25 14:13	01/30/25 19:56	1
Terphenyl-d14	126		43 - 147	01/28/25 14:13	01/30/25 19:56	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	F2 UJ	0.032	0.018	ug/L		01/29/25 09:05	01/29/25 16:23	1
1,2-Dibromoethane	ND	F2	0.022	0.016	ug/L		01/29/25 09:05	01/29/25 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	60		51 - 149	01/29/25 09:05	01/29/25 16:23	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6B-ROX-012225

Lab Sample ID: 400-269777-4

Date Collected: 01/22/25 14:15

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 12:38	1
Acrolein	ND		20	3.3	ug/L			02/02/25 12:38	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 12:38	1
Benzene	0.81	J	1.0	0.50	ug/L			02/02/25 12:38	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 12:38	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 12:38	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 12:38	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 12:38	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 12:38	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 12:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 12:38	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 12:38	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 12:38	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 12:38	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 12:38	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 12:38	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 12:38	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 12:38	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 12:38	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 12:38	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 12:38	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 12:38	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 12:38	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 12:38	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 12:38	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 12:38	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 12:38	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 12:38	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 12:38	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 12:38	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 12:38	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 12:38	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 12:38	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 12:38	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 12:38	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 12:38	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/02/25 12:38	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 12:38	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 12:38	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 12:38	1
Methyl tert-butyl ether	0.30	J	1.0	0.22	ug/L			02/02/25 12:38	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/02/25 12:38	1
Naphthalene	ND		5.0	3.0	ug/L			02/02/25 12:38	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 12:38	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/02/25 12:38	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 12:38	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 12:38	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 12:38	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 12:38	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6B-ROX-012225

Lab Sample ID: 400-269777-4

Date Collected: 01/22/25 14:15

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 12:38	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 12:38	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 12:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 12:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 12:38	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 12:38	1
Toluene	ND		1.0	0.90	ug/L			02/02/25 12:38	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 12:38	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 12:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 12:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 12:38	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 12:38	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 12:38	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 12:38	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 12:38	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 12:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 12:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 12:38	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 12:38	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/02/25 12:38	1
Xylenes, Total	ND		10	6.0	ug/L			02/02/25 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/02/25 12:38	1
Dibromofluoromethane	97		79 - 130		02/02/25 12:38	1
Toluene-d8 (Surr)	99		64 - 132		02/02/25 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	11	9.3	ug/L		01/29/25 13:47	02/05/25 23:03	1
Benzenethiol	ND		11	11	ug/L		01/29/25 13:47	02/05/25 23:03	1
Benzoic acid	ND		32	26	ug/L		01/29/25 13:47	02/05/25 23:03	1
Benzyl alcohol	ND		11	7.8	ug/L		01/29/25 13:47	02/05/25 23:03	1
Bis(2-chloroethoxy)methane	ND		11	4.9	ug/L		01/29/25 13:47	02/05/25 23:03	1
Bis(2-chloroethyl)ether	ND		11	4.2	ug/L		01/29/25 13:47	02/05/25 23:03	1
bis (2-chloroisopropyl) ether	ND		11	1.9	ug/L		01/29/25 13:47	02/05/25 23:03	1
Bis(2-ethylhexyl) phthalate	ND		11	9.5	ug/L		01/29/25 13:47	02/05/25 23:03	1
4-Bromophenyl phenyl ether	ND		11	9.2	ug/L		01/29/25 13:47	02/05/25 23:03	1
Butyl benzyl phthalate	ND		11	6.2	ug/L		01/29/25 13:47	02/05/25 23:03	1
4-Chloroaniline	ND		11	5.0	ug/L		01/29/25 13:47	02/05/25 23:03	1
4-Chloro-3-methylphenol	ND		11	5.7	ug/L		01/29/25 13:47	02/05/25 23:03	1
2-Chloronaphthalene	ND		11	4.1	ug/L		01/29/25 13:47	02/05/25 23:03	1
2-Chlorophenol	ND		11	4.4	ug/L		01/29/25 13:47	02/05/25 23:03	1
4-Chlorophenyl phenyl ether	ND		11	4.0	ug/L		01/29/25 13:47	02/05/25 23:03	1
Dibenz[a,h]acridine	ND		11	3.0	ug/L		01/29/25 13:47	02/05/25 23:03	1
Dibenzofuran	ND		11	4.3	ug/L		01/29/25 13:47	02/05/25 23:03	1
3,3'-Dichlorobenzidine	ND		12	12	ug/L		01/29/25 13:47	02/05/25 23:03	1
2,4-Dichlorophenol	ND		11	4.6	ug/L		01/29/25 13:47	02/05/25 23:03	1
Diethyl phthalate	ND		11	4.7	ug/L		01/29/25 13:47	02/05/25 23:03	1
2,4-Dimethylphenol	ND		11	5.6	ug/L		01/29/25 13:47	02/05/25 23:03	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6B-ROX-012225

Lab Sample ID: 400-269777-4

Date Collected: 01/22/25 14:15

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		11	4.5	ug/L		01/29/25 13:47	02/05/25 23:03	1
Di-n-butyl phthalate	ND		11	4.9	ug/L		01/29/25 13:47	02/05/25 23:03	1
4,6-Dinitro-ortho-cresol	ND		11	11	ug/L		01/29/25 13:47	02/05/25 23:03	1
2,4-Dinitrophenol	ND		32	4.9	ug/L		01/29/25 13:47	02/05/25 23:03	1
2,4-Dinitrotoluene	ND		11	5.5	ug/L		01/29/25 13:47	02/05/25 23:03	1
2,6-Dinitrotoluene	ND		11	4.2	ug/L		01/29/25 13:47	02/05/25 23:03	1
Di-n-octyl phthalate	ND		11	6.4	ug/L		01/29/25 13:47	02/05/25 23:03	1
1,4-Dioxane	ND		11	4.6	ug/L		01/29/25 13:47	02/05/25 23:03	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		11	3.5	ug/L		01/29/25 13:47	02/05/25 23:03	1
Hexachlorobenzene	ND		11	10	ug/L		01/29/25 13:47	02/05/25 23:03	1
Hexachlorocyclopentadiene	ND		21	4.8	ug/L		01/29/25 13:47	02/05/25 23:03	1
Hexachloroethane	ND		11	5.6	ug/L		01/29/25 13:47	02/05/25 23:03	1
Indene	ND		11	3.9	ug/L		01/29/25 13:47	02/05/25 23:03	1
Isophorone	ND		11	5.6	ug/L		01/29/25 13:47	02/05/25 23:03	1
2-Methylphenol	ND		11	3.4	ug/L		01/29/25 13:47	02/05/25 23:03	1
3 & 4 Methylphenol	ND		21	4.9	ug/L		01/29/25 13:47	02/05/25 23:03	1
2-Nitroaniline	ND		11	5.4	ug/L		01/29/25 13:47	02/05/25 23:03	1
3-Nitroaniline	ND		11	5.0	ug/L		01/29/25 13:47	02/05/25 23:03	1
4-Nitroaniline	ND		11	4.4	ug/L		01/29/25 13:47	02/05/25 23:03	1
Nitrobenzene	ND		11	5.0	ug/L		01/29/25 13:47	02/05/25 23:03	1
2-Nitrophenol	ND		11	4.9	ug/L		01/29/25 13:47	02/05/25 23:03	1
4-Nitrophenol	ND		11	3.5	ug/L		01/29/25 13:47	02/05/25 23:03	1
N-Nitrosodimethylamine	ND		11	2.4	ug/L		01/29/25 13:47	02/05/25 23:03	1
N-Nitrosodi-n-propylamine	ND		11	2.7	ug/L		01/29/25 13:47	02/05/25 23:03	1
N-Nitrosodiphenylamine	ND		11	4.0	ug/L		01/29/25 13:47	02/05/25 23:03	1
Pentachlorophenol	ND		21	13	ug/L		01/29/25 13:47	02/05/25 23:03	1
Phenol	ND		11	4.5	ug/L		01/29/25 13:47	02/05/25 23:03	1
Pyridine	ND		11	11	ug/L		01/29/25 13:47	02/05/25 23:03	1
Quinoline	ND		11	2.6	ug/L		01/29/25 13:47	02/05/25 23:03	1
2,4,5-Trichlorophenol	ND		11	4.3	ug/L		01/29/25 13:47	02/05/25 23:03	1
2,4,6-Trichlorophenol	ND		11	3.8	ug/L		01/29/25 13:47	02/05/25 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		21 - 114	01/29/25 13:47	02/05/25 23:03	1
2-Fluorophenol	55		10 - 105	01/29/25 13:47	02/05/25 23:03	1
Nitrobenzene-d5	75		16 - 127	01/29/25 13:47	02/05/25 23:03	1
Phenol-d5	41		10 - 129	01/29/25 13:47	02/05/25 23:03	1
Terphenyl-d14	103		13 - 150	01/29/25 13:47	02/05/25 23:03	1
2,4,6-Tribromophenol	87		10 - 150	01/29/25 13:47	02/05/25 23:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 21:27	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 21:27	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 21:27	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 21:27	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 21:27	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 21:27	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 21:27	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6B-ROX-012225

Lab Sample ID: 400-269777-4

Date Collected: 01/22/25 14:15

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 21:27	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 21:27	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 21:27	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 21:27	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 21:27	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 21:27	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 21:27	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 21:27	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 21:27	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/28/25 14:13	01/30/25 21:27	1
Nitrobenzene-d5	88		50 - 150	01/28/25 14:13	01/30/25 21:27	1
Terphenyl-d14	118		43 - 147	01/28/25 14:13	01/30/25 21:27	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.032	0.018	ug/L		01/29/25 09:05	01/29/25 17:27	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/29/25 09:05	01/29/25 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	53		51 - 149	01/29/25 09:05	01/29/25 17:27	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: TB-ROX-012225-8260-B

Lab Sample ID: 400-269777-5

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 16:42	1
Acrolein	ND		20	3.3	ug/L			02/02/25 16:42	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 16:42	1
Benzene	ND		1.0	0.50	ug/L			02/02/25 16:42	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 16:42	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 16:42	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 16:42	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 16:42	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 16:42	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 16:42	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 16:42	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 16:42	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 16:42	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 16:42	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 16:42	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 16:42	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 16:42	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 16:42	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 16:42	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 16:42	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 16:42	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 16:42	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 16:42	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 16:42	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 16:42	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 16:42	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 16:42	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 16:42	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 16:42	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 16:42	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 16:42	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 16:42	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 16:42	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 16:42	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 16:42	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 16:42	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/02/25 16:42	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 16:42	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 16:42	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 16:42	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/02/25 16:42	1
Naphthalene	ND		5.0	3.0	ug/L			02/02/25 16:42	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 16:42	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/02/25 16:42	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 16:42	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 16:42	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 16:42	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 16:42	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: TB-ROX-012225-8260-B

Lab Sample ID: 400-269777-5

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 16:42	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 16:42	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 16:42	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 16:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 16:42	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 16:42	1
Toluene	ND		1.0	0.90	ug/L			02/02/25 16:42	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 16:42	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 16:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 16:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 16:42	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 16:42	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 16:42	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 16:42	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 16:42	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 16:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 16:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 16:42	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 16:42	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/02/25 16:42	1
Xylenes, Total	ND		10	6.0	ug/L			02/02/25 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		56 - 136					02/02/25 16:42	1
Dibromofluoromethane	96		79 - 130					02/02/25 16:42	1
Toluene-d8 (Surr)	99		64 - 132					02/02/25 16:42	1

Client Sample Results

Client: AECOM

Job ID: 400-269777-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012225-8011-B

Lab Sample ID: 400-269777-6

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.034	0.019	ug/L		01/29/25 09:05	01/29/25 17:48	1
1,2-Dibromoethane	ND		0.023	0.017	ug/L		01/29/25 09:05	01/29/25 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	64		51 - 149				01/29/25 09:05	01/29/25 17:48	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZC-ROX-012225

Lab Sample ID: 400-269777-7

Date Collected: 01/22/25 09:10

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 13:03	1
Acrolein	ND		20	3.3	ug/L			02/02/25 13:03	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 13:03	1
Benzene	1.1		1.0	0.50	ug/L			02/02/25 13:03	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 13:03	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 13:03	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 13:03	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 13:03	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 13:03	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 13:03	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 13:03	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 13:03	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 13:03	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 13:03	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 13:03	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 13:03	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 13:03	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 13:03	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 13:03	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 13:03	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 13:03	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 13:03	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 13:03	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 13:03	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 13:03	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 13:03	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 13:03	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 13:03	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:03	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:03	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:03	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 13:03	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 13:03	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 13:03	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 13:03	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 13:03	1
Isopropylbenzene	6.6		1.0	0.53	ug/L			02/02/25 13:03	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 13:03	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 13:03	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 13:03	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 13:03	1
m-Xylene & p-Xylene	36		5.0	3.0	ug/L			02/02/25 13:03	1
Naphthalene	66		5.0	3.0	ug/L			02/02/25 13:03	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 13:03	1
N-Propylbenzene	9.5		1.0	0.69	ug/L			02/02/25 13:03	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 13:03	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 13:03	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 13:03	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 13:03	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZC-ROX-012225

Lab Sample ID: 400-269777-7

Date Collected: 01/22/25 09:10

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 13:03	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 13:03	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 13:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 13:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 13:03	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 13:03	1
Toluene	10		1.0	0.90	ug/L			02/02/25 13:03	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 13:03	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 13:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 13:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 13:03	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 13:03	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 13:03	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 13:03	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 13:03	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 13:03	1
1,2,4-Trimethylbenzene	7.6		1.0	0.82	ug/L			02/02/25 13:03	1
1,3,5-Trimethylbenzene	2.5		1.0	0.56	ug/L			02/02/25 13:03	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 13:03	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/02/25 13:03	1
Xylenes, Total	38		10	6.0	ug/L			02/02/25 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/02/25 13:03	1
Dibromofluoromethane	97		79 - 130		02/02/25 13:03	1
Toluene-d8 (Surr)	99		64 - 132		02/02/25 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	10	9.0	ug/L		01/29/25 13:47	02/05/25 23:27	1
Benzenethiol	ND		10	10	ug/L		01/29/25 13:47	02/05/25 23:27	1
Benzoic acid	ND		31	25	ug/L		01/29/25 13:47	02/05/25 23:27	1
Benzyl alcohol	ND		10	7.5	ug/L		01/29/25 13:47	02/05/25 23:27	1
Bis(2-chloroethoxy)methane	ND		10	4.8	ug/L		01/29/25 13:47	02/05/25 23:27	1
Bis(2-chloroethyl)ether	ND		10	4.0	ug/L		01/29/25 13:47	02/05/25 23:27	1
bis (2-chloroisopropyl) ether	ND		10	1.9	ug/L		01/29/25 13:47	02/05/25 23:27	1
Bis(2-ethylhexyl) phthalate	ND		10	9.2	ug/L		01/29/25 13:47	02/05/25 23:27	1
4-Bromophenyl phenyl ether	ND		10	8.9	ug/L		01/29/25 13:47	02/05/25 23:27	1
Butyl benzyl phthalate	ND		10	6.0	ug/L		01/29/25 13:47	02/05/25 23:27	1
4-Chloroaniline	ND		10	4.9	ug/L		01/29/25 13:47	02/05/25 23:27	1
4-Chloro-3-methylphenol	ND		10	5.5	ug/L		01/29/25 13:47	02/05/25 23:27	1
2-Chloronaphthalene	ND		10	3.9	ug/L		01/29/25 13:47	02/05/25 23:27	1
2-Chlorophenol	ND		10	4.2	ug/L		01/29/25 13:47	02/05/25 23:27	1
4-Chlorophenyl phenyl ether	ND		10	3.8	ug/L		01/29/25 13:47	02/05/25 23:27	1
Dibenz[a,h]acridine	ND		10	2.9	ug/L		01/29/25 13:47	02/05/25 23:27	1
Dibenzofuran	ND		10	4.1	ug/L		01/29/25 13:47	02/05/25 23:27	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/29/25 13:47	02/05/25 23:27	1
2,4-Dichlorophenol	ND		10	4.4	ug/L		01/29/25 13:47	02/05/25 23:27	1
Diethyl phthalate	ND		10	4.5	ug/L		01/29/25 13:47	02/05/25 23:27	1
2,4-Dimethylphenol	ND		10	5.4	ug/L		01/29/25 13:47	02/05/25 23:27	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZC-ROX-012225

Lab Sample ID: 400-269777-7

Date Collected: 01/22/25 09:10

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.3	ug/L		01/29/25 13:47	02/05/25 23:27	1
Di-n-butyl phthalate	ND		10	4.8	ug/L		01/29/25 13:47	02/05/25 23:27	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/29/25 13:47	02/05/25 23:27	1
2,4-Dinitrophenol	ND		31	4.8	ug/L		01/29/25 13:47	02/05/25 23:27	1
2,4-Dinitrotoluene	ND		10	5.3	ug/L		01/29/25 13:47	02/05/25 23:27	1
2,6-Dinitrotoluene	ND		10	4.0	ug/L		01/29/25 13:47	02/05/25 23:27	1
Di-n-octyl phthalate	ND		10	6.2	ug/L		01/29/25 13:47	02/05/25 23:27	1
1,4-Dioxane	ND		10	4.4	ug/L		01/29/25 13:47	02/05/25 23:27	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.4	ug/L		01/29/25 13:47	02/05/25 23:27	1
Hexachlorobenzene	ND		10	10	ug/L		01/29/25 13:47	02/05/25 23:27	1
Hexachlorocyclopentadiene	ND		21	4.7	ug/L		01/29/25 13:47	02/05/25 23:27	1
Hexachloroethane	ND		10	5.4	ug/L		01/29/25 13:47	02/05/25 23:27	1
Indene	ND		10	3.7	ug/L		01/29/25 13:47	02/05/25 23:27	1
Isophorone	ND		10	5.4	ug/L		01/29/25 13:47	02/05/25 23:27	1
2-Methylphenol	ND		10	3.3	ug/L		01/29/25 13:47	02/05/25 23:27	1
3 & 4 Methylphenol	ND		21	4.8	ug/L		01/29/25 13:47	02/05/25 23:27	1
2-Nitroaniline	ND		10	5.2	ug/L		01/29/25 13:47	02/05/25 23:27	1
3-Nitroaniline	ND		10	4.9	ug/L		01/29/25 13:47	02/05/25 23:27	1
4-Nitroaniline	ND		10	4.2	ug/L		01/29/25 13:47	02/05/25 23:27	1
Nitrobenzene	ND		10	4.9	ug/L		01/29/25 13:47	02/05/25 23:27	1
2-Nitrophenol	ND		10	4.8	ug/L		01/29/25 13:47	02/05/25 23:27	1
4-Nitrophenol	ND		10	3.4	ug/L		01/29/25 13:47	02/05/25 23:27	1
N-Nitrosodimethylamine	ND		10	2.3	ug/L		01/29/25 13:47	02/05/25 23:27	1
N-Nitrosodi-n-propylamine	ND		10	2.6	ug/L		01/29/25 13:47	02/05/25 23:27	1
N-Nitrosodiphenylamine	ND		10	3.8	ug/L		01/29/25 13:47	02/05/25 23:27	1
Pentachlorophenol	ND		21	12	ug/L		01/29/25 13:47	02/05/25 23:27	1
Phenol	ND		10	4.3	ug/L		01/29/25 13:47	02/05/25 23:27	1
Pyridine	ND		10	10	ug/L		01/29/25 13:47	02/05/25 23:27	1
Quinoline	ND		10	2.5	ug/L		01/29/25 13:47	02/05/25 23:27	1
2,4,5-Trichlorophenol	ND		10	4.1	ug/L		01/29/25 13:47	02/05/25 23:27	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/29/25 13:47	02/05/25 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		21 - 114	01/29/25 13:47	02/05/25 23:27	1
2-Fluorophenol	56		10 - 105	01/29/25 13:47	02/05/25 23:27	1
Nitrobenzene-d5	76		16 - 127	01/29/25 13:47	02/05/25 23:27	1
Phenol-d5	39		10 - 129	01/29/25 13:47	02/05/25 23:27	1
Terphenyl-d14	103		13 - 150	01/29/25 13:47	02/05/25 23:27	1
2,4,6-Tribromophenol	90		10 - 150	01/29/25 13:47	02/05/25 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.4	J	10	0.086	ug/L		01/28/25 14:13	01/30/25 11:34	1
Acenaphthylene	0.17	J	10	0.047	ug/L		01/28/25 14:13	01/30/25 11:34	1
Anthracene	0.37	J	10	0.074	ug/L		01/28/25 14:13	01/30/25 11:34	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 11:34	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 11:34	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 11:34	1
Benzo[g,h,i]perylene	ND		10	0.053	ug/L		01/28/25 14:13	01/30/25 11:34	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZC-ROX-012225

Lab Sample ID: 400-269777-7

Date Collected: 01/22/25 09:10

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 11:34	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 11:34	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 11:34	1
Fluoranthene	0.033	J	10	0.032	ug/L		01/28/25 14:13	01/30/25 11:34	1
Fluorene	1.2	J	10	0.088	ug/L		01/28/25 14:13	01/30/25 11:34	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 11:34	1
1-Methylnaphthalene	32		10	0.067	ug/L		01/28/25 14:13	01/30/25 11:34	1
2-Methylnaphthalene	7.6	J	10	0.078	ug/L		01/28/25 14:13	01/30/25 11:34	1
Phenanthrene	1.0	J	10	0.044	ug/L		01/28/25 14:13	01/30/25 11:34	1
Pyrene	0.069	J	10	0.040	ug/L		01/28/25 14:13	01/30/25 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		15 - 150	01/28/25 14:13	01/30/25 11:34	1
Nitrobenzene-d5	115		50 - 150	01/28/25 14:13	01/30/25 11:34	1
Terphenyl-d14	97		43 - 147	01/28/25 14:13	01/30/25 11:34	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/29/25 09:05	01/29/25 18:09	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/29/25 09:05	01/29/25 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	67		51 - 149	01/29/25 09:05	01/29/25 18:09	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225

Lab Sample ID: 400-269777-8

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 13:27	1
Acrolein	ND		20	3.3	ug/L			02/02/25 13:27	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 13:27	1
Benzene	7.6		1.0	0.50	ug/L			02/02/25 13:27	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 13:27	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 13:27	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 13:27	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 13:27	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 13:27	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 13:27	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 13:27	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 13:27	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 13:27	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 13:27	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 13:27	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 13:27	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 13:27	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 13:27	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 13:27	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 13:27	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 13:27	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 13:27	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 13:27	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 13:27	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 13:27	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 13:27	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 13:27	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 13:27	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:27	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:27	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:27	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 13:27	1
Ethylbenzene	0.91 J		1.0	0.50	ug/L			02/02/25 13:27	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 13:27	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 13:27	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 13:27	1
Isopropylbenzene	5.8		1.0	0.53	ug/L			02/02/25 13:27	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 13:27	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 13:27	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 13:27	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 13:27	1
m-Xylene & p-Xylene	7.0		5.0	3.0	ug/L			02/02/25 13:27	1
Naphthalene	7.1		5.0	3.0	ug/L			02/02/25 13:27	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 13:27	1
N-Propylbenzene	8.3		1.0	0.69	ug/L			02/02/25 13:27	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 13:27	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 13:27	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 13:27	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 13:27	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225

Lab Sample ID: 400-269777-8

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 13:27	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 13:27	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 13:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 13:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 13:27	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 13:27	1
Toluene	1.6		1.0	0.90	ug/L			02/02/25 13:27	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 13:27	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 13:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 13:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 13:27	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 13:27	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 13:27	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 13:27	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 13:27	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 13:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 13:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 13:27	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 13:27	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/02/25 13:27	1
Xylenes, Total	8.5	J	10	6.0	ug/L			02/02/25 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/02/25 13:27	1
Dibromofluoromethane	99		79 - 130		02/02/25 13:27	1
Toluene-d8 (Surr)	98		64 - 132		02/02/25 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.7	8.5	ug/L		01/29/25 13:47	02/05/25 20:19	1
Benzenethiol	ND		9.7	9.6	ug/L		01/29/25 13:47	02/05/25 20:19	1
Benzoic acid	ND		29	23	ug/L		01/29/25 13:47	02/05/25 20:19	1
Benzyl alcohol	ND		9.7	7.1	ug/L		01/29/25 13:47	02/05/25 20:19	1
Bis(2-chloroethoxy)methane	ND		9.7	4.5	ug/L		01/29/25 13:47	02/05/25 20:19	1
Bis(2-chloroethyl)ether	ND		9.7	3.8	ug/L		01/29/25 13:47	02/05/25 20:19	1
bis (2-chloroisopropyl) ether	ND		9.7	1.8	ug/L		01/29/25 13:47	02/05/25 20:19	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.7	ug/L		01/29/25 13:47	02/05/25 20:19	1
4-Bromophenyl phenyl ether	ND		9.7	8.4	ug/L		01/29/25 13:47	02/05/25 20:19	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		01/29/25 13:47	02/05/25 20:19	1
4-Chloroaniline	ND		9.7	4.6	ug/L		01/29/25 13:47	02/05/25 20:19	1
4-Chloro-3-methylphenol	ND		9.7	5.2	ug/L		01/29/25 13:47	02/05/25 20:19	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		01/29/25 13:47	02/05/25 20:19	1
2-Chlorophenol	ND		9.7	4.0	ug/L		01/29/25 13:47	02/05/25 20:19	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		01/29/25 13:47	02/05/25 20:19	1
Dibenz[a,h]acridine	ND		9.7	2.7	ug/L		01/29/25 13:47	02/05/25 20:19	1
Dibenzofuran	ND		9.7	3.9	ug/L		01/29/25 13:47	02/05/25 20:19	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/29/25 13:47	02/05/25 20:19	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		01/29/25 13:47	02/05/25 20:19	1
Diethyl phthalate	ND		9.7	4.3	ug/L		01/29/25 13:47	02/05/25 20:19	1
2,4-Dimethylphenol	ND		9.7	5.1	ug/L		01/29/25 13:47	02/05/25 20:19	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225

Lab Sample ID: 400-269777-8

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		01/29/25 13:47	02/05/25 20:19	1
Di-n-butyl phthalate	ND		9.7	4.5	ug/L		01/29/25 13:47	02/05/25 20:19	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		01/29/25 13:47	02/05/25 20:19	1
2,4-Dinitrophenol	ND		29	4.5	ug/L		01/29/25 13:47	02/05/25 20:19	1
2,4-Dinitrotoluene	ND		9.7	5.0	ug/L		01/29/25 13:47	02/05/25 20:19	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		01/29/25 13:47	02/05/25 20:19	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		01/29/25 13:47	02/05/25 20:19	1
1,4-Dioxane	ND		9.7	4.2	ug/L		01/29/25 13:47	02/05/25 20:19	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		01/29/25 13:47	02/05/25 20:19	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		01/29/25 13:47	02/05/25 20:19	1
Hexachlorocyclopentadiene	ND		19	4.4	ug/L		01/29/25 13:47	02/05/25 20:19	1
Hexachloroethane	ND		9.7	5.1	ug/L		01/29/25 13:47	02/05/25 20:19	1
Indene	ND		9.7	3.5	ug/L		01/29/25 13:47	02/05/25 20:19	1
Isophorone	ND		9.7	5.1	ug/L		01/29/25 13:47	02/05/25 20:19	1
2-Methylphenol	ND		9.7	3.1	ug/L		01/29/25 13:47	02/05/25 20:19	1
3 & 4 Methylphenol	ND		19	4.5	ug/L		01/29/25 13:47	02/05/25 20:19	1
2-Nitroaniline	ND		9.7	4.9	ug/L		01/29/25 13:47	02/05/25 20:19	1
3-Nitroaniline	ND		9.7	4.6	ug/L		01/29/25 13:47	02/05/25 20:19	1
4-Nitroaniline	ND		9.7	4.0	ug/L		01/29/25 13:47	02/05/25 20:19	1
Nitrobenzene	ND		9.7	4.6	ug/L		01/29/25 13:47	02/05/25 20:19	1
2-Nitrophenol	ND		9.7	4.5	ug/L		01/29/25 13:47	02/05/25 20:19	1
4-Nitrophenol	ND		9.7	3.2	ug/L		01/29/25 13:47	02/05/25 20:19	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		01/29/25 13:47	02/05/25 20:19	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		01/29/25 13:47	02/05/25 20:19	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		01/29/25 13:47	02/05/25 20:19	1
Pentachlorophenol	ND		19	12	ug/L		01/29/25 13:47	02/05/25 20:19	1
Phenol	ND		9.7	4.1	ug/L		01/29/25 13:47	02/05/25 20:19	1
Pyridine	ND		9.7	9.7	ug/L		01/29/25 13:47	02/05/25 20:19	1
Quinoline	ND		9.7	2.3	ug/L		01/29/25 13:47	02/05/25 20:19	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		01/29/25 13:47	02/05/25 20:19	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		01/29/25 13:47	02/05/25 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		21 - 114	01/29/25 13:47	02/05/25 20:19	1
2-Fluorophenol	51		10 - 105	01/29/25 13:47	02/05/25 20:19	1
Nitrobenzene-d5	79		16 - 127	01/29/25 13:47	02/05/25 20:19	1
Phenol-d5	38		10 - 129	01/29/25 13:47	02/05/25 20:19	1
Terphenyl-d14	102		13 - 150	01/29/25 13:47	02/05/25 20:19	1
2,4,6-Tribromophenol	104		10 - 150	01/29/25 13:47	02/05/25 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.11	J	10	0.085	ug/L		01/28/25 14:13	01/30/25 12:04	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 12:04	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 12:04	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 12:04	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 12:04	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 12:04	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 12:04	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225

Lab Sample ID: 400-269777-8

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 12:04	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 12:04	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 12:04	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 12:04	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 12:04	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 12:04	1
1-Methylnaphthalene	2.7	J	10	0.066	ug/L		01/28/25 14:13	01/30/25 12:04	1
2-Methylnaphthalene	1.0	J	10	0.077	ug/L		01/28/25 14:13	01/30/25 12:04	1
Phenanthrene	0.066	J	10	0.044	ug/L		01/28/25 14:13	01/30/25 12:04	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		15 - 150	01/28/25 14:13	01/30/25 12:04	1
Nitrobenzene-d5	119		50 - 150	01/28/25 14:13	01/30/25 12:04	1
Terphenyl-d14	105		43 - 147	01/28/25 14:13	01/30/25 12:04	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/29/25 09:05	01/29/25 18:52	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/29/25 09:05	01/29/25 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	74		51 - 149	01/29/25 09:05	01/29/25 18:52	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225-DUP

Lab Sample ID: 400-269777-9

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 13:51	1
Acrolein	ND		20	3.3	ug/L			02/02/25 13:51	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 13:51	1
Benzene	7.3		1.0	0.50	ug/L			02/02/25 13:51	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 13:51	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 13:51	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 13:51	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 13:51	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 13:51	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 13:51	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 13:51	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 13:51	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 13:51	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 13:51	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 13:51	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 13:51	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 13:51	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 13:51	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 13:51	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 13:51	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 13:51	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 13:51	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 13:51	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 13:51	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 13:51	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 13:51	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 13:51	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 13:51	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:51	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:51	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 13:51	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 13:51	1
Ethylbenzene	0.89 J		1.0	0.50	ug/L			02/02/25 13:51	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 13:51	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 13:51	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 13:51	1
Isopropylbenzene	5.3		1.0	0.53	ug/L			02/02/25 13:51	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 13:51	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 13:51	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 13:51	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 13:51	1
m-Xylene & p-Xylene	6.3		5.0	3.0	ug/L			02/02/25 13:51	1
Naphthalene	4.8 J		5.0	3.0	ug/L			02/02/25 13:51	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 13:51	1
N-Propylbenzene	7.5		1.0	0.69	ug/L			02/02/25 13:51	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 13:51	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 13:51	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 13:51	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 13:51	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225-DUP

Lab Sample ID: 400-269777-9

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 13:51	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 13:51	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 13:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 13:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 13:51	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 13:51	1
Toluene	1.5		1.0	0.90	ug/L			02/02/25 13:51	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 13:51	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 13:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 13:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 13:51	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 13:51	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 13:51	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 13:51	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 13:51	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 13:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 13:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 13:51	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 13:51	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/02/25 13:51	1
Xylenes, Total	7.7	J	10	6.0	ug/L			02/02/25 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/02/25 13:51	1
Dibromofluoromethane	98		79 - 130		02/02/25 13:51	1
Toluene-d8 (Surr)	98		64 - 132		02/02/25 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	9.7	8.4	ug/L		01/29/25 13:47	02/05/25 20:41	1
Benzenethiol	ND		9.7	9.6	ug/L		01/29/25 13:47	02/05/25 20:41	1
Benzoic acid	ND		29	23	ug/L		01/29/25 13:47	02/05/25 20:41	1
Benzyl alcohol	ND		9.7	7.1	ug/L		01/29/25 13:47	02/05/25 20:41	1
Bis(2-chloroethoxy)methane	ND		9.7	4.5	ug/L		01/29/25 13:47	02/05/25 20:41	1
Bis(2-chloroethyl)ether	ND		9.7	3.8	ug/L		01/29/25 13:47	02/05/25 20:41	1
bis (2-chloroisopropyl) ether	ND		9.7	1.7	ug/L		01/29/25 13:47	02/05/25 20:41	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.6	ug/L		01/29/25 13:47	02/05/25 20:41	1
4-Bromophenyl phenyl ether	ND		9.7	8.4	ug/L		01/29/25 13:47	02/05/25 20:41	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		01/29/25 13:47	02/05/25 20:41	1
4-Chloroaniline	ND		9.7	4.6	ug/L		01/29/25 13:47	02/05/25 20:41	1
4-Chloro-3-methylphenol	ND		9.7	5.1	ug/L		01/29/25 13:47	02/05/25 20:41	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		01/29/25 13:47	02/05/25 20:41	1
2-Chlorophenol	ND		9.7	4.0	ug/L		01/29/25 13:47	02/05/25 20:41	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		01/29/25 13:47	02/05/25 20:41	1
Dibenz[a,h]acridine	ND		9.7	2.7	ug/L		01/29/25 13:47	02/05/25 20:41	1
Dibenzofuran	ND		9.7	3.9	ug/L		01/29/25 13:47	02/05/25 20:41	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/29/25 13:47	02/05/25 20:41	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		01/29/25 13:47	02/05/25 20:41	1
Diethyl phthalate	ND		9.7	4.3	ug/L		01/29/25 13:47	02/05/25 20:41	1
2,4-Dimethylphenol	ND		9.7	5.1	ug/L		01/29/25 13:47	02/05/25 20:41	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225-DUP

Lab Sample ID: 400-269777-9

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		01/29/25 13:47	02/05/25 20:41	1
Di-n-butyl phthalate	ND		9.7	4.5	ug/L		01/29/25 13:47	02/05/25 20:41	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		01/29/25 13:47	02/05/25 20:41	1
2,4-Dinitrophenol	ND		29	4.5	ug/L		01/29/25 13:47	02/05/25 20:41	1
2,4-Dinitrotoluene	ND		9.7	5.0	ug/L		01/29/25 13:47	02/05/25 20:41	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		01/29/25 13:47	02/05/25 20:41	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		01/29/25 13:47	02/05/25 20:41	1
1,4-Dioxane	ND		9.7	4.2	ug/L		01/29/25 13:47	02/05/25 20:41	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		01/29/25 13:47	02/05/25 20:41	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		01/29/25 13:47	02/05/25 20:41	1
Hexachlorocyclopentadiene	ND		19	4.4	ug/L		01/29/25 13:47	02/05/25 20:41	1
Hexachloroethane	ND		9.7	5.1	ug/L		01/29/25 13:47	02/05/25 20:41	1
Indene	ND		9.7	3.5	ug/L		01/29/25 13:47	02/05/25 20:41	1
Isophorone	ND		9.7	5.1	ug/L		01/29/25 13:47	02/05/25 20:41	1
2-Methylphenol	ND		9.7	3.1	ug/L		01/29/25 13:47	02/05/25 20:41	1
3 & 4 Methylphenol	ND		19	4.5	ug/L		01/29/25 13:47	02/05/25 20:41	1
2-Nitroaniline	ND		9.7	4.9	ug/L		01/29/25 13:47	02/05/25 20:41	1
3-Nitroaniline	ND		9.7	4.6	ug/L		01/29/25 13:47	02/05/25 20:41	1
4-Nitroaniline	ND		9.7	4.0	ug/L		01/29/25 13:47	02/05/25 20:41	1
Nitrobenzene	ND		9.7	4.6	ug/L		01/29/25 13:47	02/05/25 20:41	1
2-Nitrophenol	ND		9.7	4.5	ug/L		01/29/25 13:47	02/05/25 20:41	1
4-Nitrophenol	ND		9.7	3.2	ug/L		01/29/25 13:47	02/05/25 20:41	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		01/29/25 13:47	02/05/25 20:41	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		01/29/25 13:47	02/05/25 20:41	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		01/29/25 13:47	02/05/25 20:41	1
Pentachlorophenol	ND		19	12	ug/L		01/29/25 13:47	02/05/25 20:41	1
Phenol	ND		9.7	4.1	ug/L		01/29/25 13:47	02/05/25 20:41	1
Pyridine	ND		9.7	9.7	ug/L		01/29/25 13:47	02/05/25 20:41	1
Quinoline	ND		9.7	2.3	ug/L		01/29/25 13:47	02/05/25 20:41	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		01/29/25 13:47	02/05/25 20:41	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		01/29/25 13:47	02/05/25 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		21 - 114	01/29/25 13:47	02/05/25 20:41	1
2-Fluorophenol	53		10 - 105	01/29/25 13:47	02/05/25 20:41	1
Nitrobenzene-d5	74		16 - 127	01/29/25 13:47	02/05/25 20:41	1
Phenol-d5	35		10 - 129	01/29/25 13:47	02/05/25 20:41	1
Terphenyl-d14	100		13 - 150	01/29/25 13:47	02/05/25 20:41	1
2,4,6-Tribromophenol	93		10 - 150	01/29/25 13:47	02/05/25 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.086	J	0.20	0.086	ug/L		01/28/25 14:25	01/29/25 18:27	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/28/25 14:25	01/29/25 18:27	1
Anthracene	ND		0.20	0.073	ug/L		01/28/25 14:25	01/29/25 18:27	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 18:27	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/28/25 14:25	01/29/25 18:27	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/28/25 14:25	01/29/25 18:27	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/28/25 14:25	01/29/25 18:27	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: ROST4PZG-ROX-012225-DUP

Lab Sample ID: 400-269777-9

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 18:27	1
Chrysene	ND		0.20	0.039	ug/L		01/28/25 14:25	01/29/25 18:27	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/28/25 14:25	01/29/25 18:27	1
Fluoranthene	ND		0.20	0.032	ug/L		01/28/25 14:25	01/29/25 18:27	1
Fluorene	ND		0.20	0.088	ug/L		01/28/25 14:25	01/29/25 18:27	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/28/25 14:25	01/29/25 18:27	1
1-Methylnaphthalene	2.3		0.20	0.066	ug/L		01/28/25 14:25	01/29/25 18:27	1
2-Methylnaphthalene	0.82	*1	0.20	0.078	ug/L		01/28/25 14:25	01/29/25 18:27	1
Phenanthrene	0.063	J	0.20	0.044	ug/L		01/28/25 14:25	01/29/25 18:27	1
Pyrene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/28/25 14:25	01/29/25 18:27	1
Nitrobenzene-d5	83		50 - 150	01/28/25 14:25	01/29/25 18:27	1
Terphenyl-d14	104		43 - 147	01/28/25 14:25	01/29/25 18:27	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/29/25 09:05	01/29/25 19:13	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/29/25 09:05	01/29/25 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	68		51 - 149	01/29/25 09:05	01/29/25 19:13	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW11-ROX-012225

Lab Sample ID: 400-269777-10

Date Collected: 01/22/25 12:20

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 14:16	1
Acrolein	ND		20	3.3	ug/L			02/02/25 14:16	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 14:16	1
Benzene	ND		1.0	0.50	ug/L			02/02/25 14:16	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 14:16	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 14:16	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 14:16	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 14:16	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 14:16	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 14:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 14:16	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 14:16	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 14:16	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 14:16	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 14:16	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 14:16	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 14:16	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 14:16	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 14:16	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 14:16	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 14:16	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 14:16	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 14:16	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 14:16	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 14:16	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 14:16	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 14:16	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 14:16	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 14:16	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 14:16	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 14:16	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 14:16	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 14:16	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 14:16	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 14:16	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 14:16	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/02/25 14:16	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 14:16	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 14:16	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 14:16	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/02/25 14:16	1
Naphthalene	ND		5.0	3.0	ug/L			02/02/25 14:16	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 14:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/02/25 14:16	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 14:16	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 14:16	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 14:16	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 14:16	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW11-ROX-012225

Lab Sample ID: 400-269777-10

Date Collected: 01/22/25 12:20

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 14:16	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 14:16	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 14:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 14:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 14:16	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 14:16	1
Toluene	ND		1.0	0.90	ug/L			02/02/25 14:16	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 14:16	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 14:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 14:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 14:16	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 14:16	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 14:16	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 14:16	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 14:16	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 14:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 14:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 14:16	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 14:16	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/02/25 14:16	1
Xylenes, Total	ND		10	6.0	ug/L			02/02/25 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		56 - 136		02/02/25 14:16	1
Dibromofluoromethane	96		79 - 130		02/02/25 14:16	1
Toluene-d8 (Surr)	99		64 - 132		02/02/25 14:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	10	8.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
Benzenethiol	ND		10	10	ug/L		01/29/25 13:47	02/05/25 21:03	1
Benzoic acid	ND		30	24	ug/L		01/29/25 13:47	02/05/25 21:03	1
Benzyl alcohol	ND		10	7.4	ug/L		01/29/25 13:47	02/05/25 21:03	1
Bis(2-chloroethoxy)methane	ND		10	4.7	ug/L		01/29/25 13:47	02/05/25 21:03	1
Bis(2-chloroethyl)ether	ND		10	4.0	ug/L		01/29/25 13:47	02/05/25 21:03	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
Bis(2-ethylhexyl) phthalate	ND		10	9.0	ug/L		01/29/25 13:47	02/05/25 21:03	1
4-Bromophenyl phenyl ether	ND		10	8.7	ug/L		01/29/25 13:47	02/05/25 21:03	1
Butyl benzyl phthalate	ND		10	5.9	ug/L		01/29/25 13:47	02/05/25 21:03	1
4-Chloroaniline	ND		10	4.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
4-Chloro-3-methylphenol	ND		10	5.4	ug/L		01/29/25 13:47	02/05/25 21:03	1
2-Chloronaphthalene	ND		10	3.9	ug/L		01/29/25 13:47	02/05/25 21:03	1
2-Chlorophenol	ND		10	4.2	ug/L		01/29/25 13:47	02/05/25 21:03	1
4-Chlorophenyl phenyl ether	ND		10	3.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
Dibenzofuran	ND		10	4.1	ug/L		01/29/25 13:47	02/05/25 21:03	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/29/25 13:47	02/05/25 21:03	1
2,4-Dichlorophenol	ND		10	4.4	ug/L		01/29/25 13:47	02/05/25 21:03	1
Diethyl phthalate	ND		10	4.5	ug/L		01/29/25 13:47	02/05/25 21:03	1
2,4-Dimethylphenol	ND		10	5.3	ug/L		01/29/25 13:47	02/05/25 21:03	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW11-ROX-012225

Lab Sample ID: 400-269777-10

Date Collected: 01/22/25 12:20

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.3	ug/L		01/29/25 13:47	02/05/25 21:03	1
Di-n-butyl phthalate	ND		10	4.7	ug/L		01/29/25 13:47	02/05/25 21:03	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/29/25 13:47	02/05/25 21:03	1
2,4-Dinitrophenol	ND		30	4.7	ug/L		01/29/25 13:47	02/05/25 21:03	1
2,4-Dinitrotoluene	ND		10	5.2	ug/L		01/29/25 13:47	02/05/25 21:03	1
2,6-Dinitrotoluene	ND		10	4.0	ug/L		01/29/25 13:47	02/05/25 21:03	1
Di-n-octyl phthalate	ND		10	6.1	ug/L		01/29/25 13:47	02/05/25 21:03	1
1,4-Dioxane	ND		10	4.4	ug/L		01/29/25 13:47	02/05/25 21:03	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/29/25 13:47	02/05/25 21:03	1
Hexachlorobenzene	ND		10	9.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
Hexachlorocyclopentadiene	ND		20	4.6	ug/L		01/29/25 13:47	02/05/25 21:03	1
Hexachloroethane	ND		10	5.3	ug/L		01/29/25 13:47	02/05/25 21:03	1
Indene	ND		10	3.7	ug/L		01/29/25 13:47	02/05/25 21:03	1
Isophorone	ND		10	5.3	ug/L		01/29/25 13:47	02/05/25 21:03	1
2-Methylphenol	ND		10	3.2	ug/L		01/29/25 13:47	02/05/25 21:03	1
3 & 4 Methylphenol	ND		20	4.7	ug/L		01/29/25 13:47	02/05/25 21:03	1
2-Nitroaniline	ND		10	5.1	ug/L		01/29/25 13:47	02/05/25 21:03	1
3-Nitroaniline	ND		10	4.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
4-Nitroaniline	ND		10	4.2	ug/L		01/29/25 13:47	02/05/25 21:03	1
Nitrobenzene	ND		10	4.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
2-Nitrophenol	ND		10	4.7	ug/L		01/29/25 13:47	02/05/25 21:03	1
4-Nitrophenol	ND		10	3.3	ug/L		01/29/25 13:47	02/05/25 21:03	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/29/25 13:47	02/05/25 21:03	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/29/25 13:47	02/05/25 21:03	1
N-Nitrosodiphenylamine	ND		10	3.8	ug/L		01/29/25 13:47	02/05/25 21:03	1
Pentachlorophenol	ND		20	12	ug/L		01/29/25 13:47	02/05/25 21:03	1
Phenol	ND		10	4.3	ug/L		01/29/25 13:47	02/05/25 21:03	1
Pyridine	ND		10	10	ug/L		01/29/25 13:47	02/05/25 21:03	1
Quinoline	ND		10	2.4	ug/L		01/29/25 13:47	02/05/25 21:03	1
2,4,5-Trichlorophenol	ND		10	4.1	ug/L		01/29/25 13:47	02/05/25 21:03	1
2,4,6-Trichlorophenol	ND		10	3.6	ug/L		01/29/25 13:47	02/05/25 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		21 - 114	01/29/25 13:47	02/05/25 21:03	1
2-Fluorophenol	53		10 - 105	01/29/25 13:47	02/05/25 21:03	1
Nitrobenzene-d5	79		16 - 127	01/29/25 13:47	02/05/25 21:03	1
Phenol-d5	43		10 - 129	01/29/25 13:47	02/05/25 21:03	1
Terphenyl-d14	94		13 - 150	01/29/25 13:47	02/05/25 21:03	1
2,4,6-Tribromophenol	101		10 - 150	01/29/25 13:47	02/05/25 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.086	ug/L		01/28/25 14:25	01/29/25 18:57	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/28/25 14:25	01/29/25 18:57	1
Anthracene	ND		0.20	0.074	ug/L		01/28/25 14:25	01/29/25 18:57	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 18:57	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/28/25 14:25	01/29/25 18:57	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/28/25 14:25	01/29/25 18:57	1
Benzo[g,h,i]perylene	ND		0.20	0.053	ug/L		01/28/25 14:25	01/29/25 18:57	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW11-ROX-012225

Lab Sample ID: 400-269777-10

Date Collected: 01/22/25 12:20

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 18:57	1
Chrysene	ND		0.20	0.039	ug/L		01/28/25 14:25	01/29/25 18:57	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/28/25 14:25	01/29/25 18:57	1
Fluoranthene	ND		0.20	0.032	ug/L		01/28/25 14:25	01/29/25 18:57	1
Fluorene	ND		0.20	0.088	ug/L		01/28/25 14:25	01/29/25 18:57	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/28/25 14:25	01/29/25 18:57	1
1-Methylnaphthalene	ND		0.20	0.067	ug/L		01/28/25 14:25	01/29/25 18:57	1
2-Methylnaphthalene	ND	*1	0.20	0.078	ug/L		01/28/25 14:25	01/29/25 18:57	1
Phenanthrene	ND		0.20	0.044	ug/L		01/28/25 14:25	01/29/25 18:57	1
Pyrene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		15 - 150	01/28/25 14:25	01/29/25 18:57	1
Nitrobenzene-d5	80		50 - 150	01/28/25 14:25	01/29/25 18:57	1
Terphenyl-d14	101		43 - 147	01/28/25 14:25	01/29/25 18:57	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.018	ug/L		01/29/25 09:05	01/29/25 19:34	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/29/25 09:05	01/29/25 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	64		51 - 149	01/29/25 09:05	01/29/25 19:34	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6A-ROX-012225

Lab Sample ID: 400-269777-11

Date Collected: 01/22/25 14:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 14:40	1
Acrolein	ND		20	3.3	ug/L			02/02/25 14:40	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 14:40	1
Benzene	ND		1.0	0.50	ug/L			02/02/25 14:40	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 14:40	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 14:40	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 14:40	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 14:40	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 14:40	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 14:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 14:40	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 14:40	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 14:40	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 14:40	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 14:40	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 14:40	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 14:40	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 14:40	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 14:40	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 14:40	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/02/25 14:40	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 14:40	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 14:40	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 14:40	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 14:40	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 14:40	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 14:40	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 14:40	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 14:40	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 14:40	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 14:40	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 14:40	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 14:40	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 14:40	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 14:40	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 14:40	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/02/25 14:40	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 14:40	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 14:40	1
Methyl tert-butyl ether	0.32	J	1.0	0.22	ug/L			02/02/25 14:40	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/02/25 14:40	1
Naphthalene	ND		5.0	3.0	ug/L			02/02/25 14:40	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 14:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/02/25 14:40	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 14:40	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 14:40	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 14:40	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 14:40	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6A-ROX-012225

Lab Sample ID: 400-269777-11

Date Collected: 01/22/25 14:00

Matrix: Water

Date Received: 01/25/25 08:22

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 14:40	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 14:40	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 14:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 14:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 14:40	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 14:40	1
Toluene	ND		1.0	0.90	ug/L			02/02/25 14:40	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 14:40	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 14:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 14:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 14:40	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 14:40	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 14:40	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 14:40	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 14:40	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 14:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 14:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 14:40	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 14:40	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/02/25 14:40	1
Xylenes, Total	ND		10	6.0	ug/L			02/02/25 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/02/25 14:40	1
Dibromofluoromethane	96		79 - 130		02/02/25 14:40	1
Toluene-d8 (Surr)	99		64 - 132		02/02/25 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	UJ	11	9.1	ug/L		01/29/25 13:47	02/05/25 21:26	1
Benzenethiol	ND		11	10	ug/L		01/29/25 13:47	02/05/25 21:26	1
Benzoic acid	ND		32	25	ug/L		01/29/25 13:47	02/05/25 21:26	1
Benzyl alcohol	ND		11	7.7	ug/L		01/29/25 13:47	02/05/25 21:26	1
Bis(2-chloroethoxy)methane	ND		11	4.8	ug/L		01/29/25 13:47	02/05/25 21:26	1
Bis(2-chloroethyl)ether	ND		11	4.1	ug/L		01/29/25 13:47	02/05/25 21:26	1
bis (2-chloroisopropyl) ether	ND		11	1.9	ug/L		01/29/25 13:47	02/05/25 21:26	1
Bis(2-ethylhexyl) phthalate	ND		11	9.4	ug/L		01/29/25 13:47	02/05/25 21:26	1
4-Bromophenyl phenyl ether	ND		11	9.0	ug/L		01/29/25 13:47	02/05/25 21:26	1
Butyl benzyl phthalate	ND		11	6.1	ug/L		01/29/25 13:47	02/05/25 21:26	1
4-Chloroaniline	ND		11	4.9	ug/L		01/29/25 13:47	02/05/25 21:26	1
4-Chloro-3-methylphenol	ND		11	5.6	ug/L		01/29/25 13:47	02/05/25 21:26	1
2-Chloronaphthalene	ND		11	4.0	ug/L		01/29/25 13:47	02/05/25 21:26	1
2-Chlorophenol	ND		11	4.3	ug/L		01/29/25 13:47	02/05/25 21:26	1
4-Chlorophenyl phenyl ether	ND		11	3.9	ug/L		01/29/25 13:47	02/05/25 21:26	1
Dibenz[a,h]acridine	ND		11	2.9	ug/L		01/29/25 13:47	02/05/25 21:26	1
Dibenzofuran	ND		11	4.2	ug/L		01/29/25 13:47	02/05/25 21:26	1
3,3'-Dichlorobenzidine	ND		12	12	ug/L		01/29/25 13:47	02/05/25 21:26	1
2,4-Dichlorophenol	ND		11	4.5	ug/L		01/29/25 13:47	02/05/25 21:26	1
Diethyl phthalate	ND		11	4.6	ug/L		01/29/25 13:47	02/05/25 21:26	1
2,4-Dimethylphenol	ND		11	5.5	ug/L		01/29/25 13:47	02/05/25 21:26	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6A-ROX-012225

Lab Sample ID: 400-269777-11

Date Collected: 01/22/25 14:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		11	4.4	ug/L		01/29/25 13:47	02/05/25 21:26	1
Di-n-butyl phthalate	ND		11	4.8	ug/L		01/29/25 13:47	02/05/25 21:26	1
4,6-Dinitro-ortho-cresol	ND		11	11	ug/L		01/29/25 13:47	02/05/25 21:26	1
2,4-Dinitrophenol	ND		32	4.8	ug/L		01/29/25 13:47	02/05/25 21:26	1
2,4-Dinitrotoluene	ND		11	5.4	ug/L		01/29/25 13:47	02/05/25 21:26	1
2,6-Dinitrotoluene	ND		11	4.1	ug/L		01/29/25 13:47	02/05/25 21:26	1
Di-n-octyl phthalate	ND		11	6.3	ug/L		01/29/25 13:47	02/05/25 21:26	1
1,4-Dioxane	ND		11	4.5	ug/L		01/29/25 13:47	02/05/25 21:26	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		11	3.5	ug/L		01/29/25 13:47	02/05/25 21:26	1
Hexachlorobenzene	ND		11	10	ug/L		01/29/25 13:47	02/05/25 21:26	1
Hexachlorocyclopentadiene	ND		21	4.7	ug/L		01/29/25 13:47	02/05/25 21:26	1
Hexachloroethane	ND		11	5.5	ug/L		01/29/25 13:47	02/05/25 21:26	1
Indene	ND		11	3.8	ug/L		01/29/25 13:47	02/05/25 21:26	1
Isophorone	ND		11	5.5	ug/L		01/29/25 13:47	02/05/25 21:26	1
2-Methylphenol	ND		11	3.4	ug/L		01/29/25 13:47	02/05/25 21:26	1
3 & 4 Methylphenol	ND		21	4.8	ug/L		01/29/25 13:47	02/05/25 21:26	1
2-Nitroaniline	ND		11	5.3	ug/L		01/29/25 13:47	02/05/25 21:26	1
3-Nitroaniline	ND		11	4.9	ug/L		01/29/25 13:47	02/05/25 21:26	1
4-Nitroaniline	ND		11	4.3	ug/L		01/29/25 13:47	02/05/25 21:26	1
Nitrobenzene	ND		11	4.9	ug/L		01/29/25 13:47	02/05/25 21:26	1
2-Nitrophenol	ND		11	4.8	ug/L		01/29/25 13:47	02/05/25 21:26	1
4-Nitrophenol	ND		11	3.5	ug/L		01/29/25 13:47	02/05/25 21:26	1
N-Nitrosodimethylamine	ND		11	2.3	ug/L		01/29/25 13:47	02/05/25 21:26	1
N-Nitrosodi-n-propylamine	ND		11	2.6	ug/L		01/29/25 13:47	02/05/25 21:26	1
N-Nitrosodiphenylamine	ND		11	3.9	ug/L		01/29/25 13:47	02/05/25 21:26	1
Pentachlorophenol	ND		21	13	ug/L		01/29/25 13:47	02/05/25 21:26	1
Phenol	ND		11	4.4	ug/L		01/29/25 13:47	02/05/25 21:26	1
Pyridine	ND		11	11	ug/L		01/29/25 13:47	02/05/25 21:26	1
Quinoline	ND		11	2.5	ug/L		01/29/25 13:47	02/05/25 21:26	1
2,4,5-Trichlorophenol	ND		11	4.2	ug/L		01/29/25 13:47	02/05/25 21:26	1
2,4,6-Trichlorophenol	ND		11	3.7	ug/L		01/29/25 13:47	02/05/25 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		21 - 114	01/29/25 13:47	02/05/25 21:26	1
2-Fluorophenol	54		10 - 105	01/29/25 13:47	02/05/25 21:26	1
Nitrobenzene-d5	64		16 - 127	01/29/25 13:47	02/05/25 21:26	1
Phenol-d5	42		10 - 129	01/29/25 13:47	02/05/25 21:26	1
Terphenyl-d14	100		13 - 150	01/29/25 13:47	02/05/25 21:26	1
2,4,6-Tribromophenol	109		10 - 150	01/29/25 13:47	02/05/25 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.087	ug/L		01/28/25 14:25	01/29/25 19:27	1
Acenaphthylene	ND		0.20	0.048	ug/L		01/28/25 14:25	01/29/25 19:27	1
Anthracene	ND		0.20	0.075	ug/L		01/28/25 14:25	01/29/25 19:27	1
Benzo[a]anthracene	ND		0.20	0.041	ug/L		01/28/25 14:25	01/29/25 19:27	1
Benzo[a]pyrene	ND		0.20	0.046	ug/L		01/28/25 14:25	01/29/25 19:27	1
Benzo[b]fluoranthene	ND		0.20	0.043	ug/L		01/28/25 14:25	01/29/25 19:27	1
Benzo[g,h,i]perylene	ND		0.20	0.053	ug/L		01/28/25 14:25	01/29/25 19:27	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW6A-ROX-012225

Lab Sample ID: 400-269777-11

Date Collected: 01/22/25 14:00

Matrix: Water

Date Received: 01/25/25 08:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		0.20	0.041	ug/L		01/28/25 14:25	01/29/25 19:27	1
Chrysene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 19:27	1
Dibenz(a,h)anthracene	ND		0.20	0.045	ug/L		01/28/25 14:25	01/29/25 19:27	1
Fluoranthene	ND		0.20	0.033	ug/L		01/28/25 14:25	01/29/25 19:27	1
Fluorene	ND		0.20	0.089	ug/L		01/28/25 14:25	01/29/25 19:27	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.033	ug/L		01/28/25 14:25	01/29/25 19:27	1
1-Methylnaphthalene	ND		0.20	0.068	ug/L		01/28/25 14:25	01/29/25 19:27	1
2-Methylnaphthalene	ND	*1	0.20	0.079	ug/L		01/28/25 14:25	01/29/25 19:27	1
Phenanthrene	ND		0.20	0.045	ug/L		01/28/25 14:25	01/29/25 19:27	1
Pyrene	ND		0.20	0.041	ug/L		01/28/25 14:25	01/29/25 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		15 - 150	01/28/25 14:25	01/29/25 19:27	1
Nitrobenzene-d5	90		50 - 150	01/28/25 14:25	01/29/25 19:27	1
Terphenyl-d14	107		43 - 147	01/28/25 14:25	01/29/25 19:27	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/29/25 09:05	01/29/25 19:55	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/29/25 09:05	01/29/25 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	70		51 - 149	01/29/25 09:05	01/29/25 19:55	1

Definitions/Glossary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-269777-1	TB-ROX-012225-8260-A	102	97	99
400-269777-3	MW6D-ROX-012225	100	96	99
400-269777-3 MS	MW6D-ROX-012225	103	98	98
400-269777-3 MSD	MW6D-ROX-012225	102	100	97
400-269777-4	MW6B-ROX-012225	101	97	99
400-269777-5	TB-ROX-012225-8260-B	100	96	99
400-269777-7	ROST4PZC-ROX-012225	101	97	99
400-269777-8	ROST4PZG-ROX-012225	102	99	98
400-269777-9	ROST4PZG-ROX-012225-DUP	102	98	98
400-269777-10	MW11-ROX-012225	100	96	99
400-269777-11	MW6A-ROX-012225	102	96	99
LCS 400-698212/1002	Lab Control Sample	102	98	99
MB 400-698212/4	Method Blank	103	95	99

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (21-114)	2FP (10-105)	NBZ (16-127)	PHL (10-129)	TPHL (13-150)	TBP (10-150)
400-269777-3	MW6D-ROX-012225	88	53	78	36	106	87
400-269777-3 MS	MW6D-ROX-012225	92	66	95	51	104	101
400-269777-3 MSD	MW6D-ROX-012225	89	60	92	46	103	99
400-269777-4	MW6B-ROX-012225	84	55	75	41	103	87
400-269777-7	ROST4PZC-ROX-012225	87	56	76	39	103	90
400-269777-8	ROST4PZG-ROX-012225	83	51	79	38	102	104
400-269777-9	ROST4PZG-ROX-012225-DUP	80	53	74	35	100	93
400-269777-10	MW11-ROX-012225	90	53	79	43	94	101
400-269777-11	MW6A-ROX-012225	97	54	64	42	100	109
LCS 400-697872/12-A	Lab Control Sample	85	71	83	54	111	82
LCS 400-697872/2-A	Lab Control Sample	92	60	97	44	112	103
LCSD 400-697872/13-A	Lab Control Sample Dup	78	46	76	31	107	78
MB 400-697872/1-A	Method Blank	73	39	70	26	100	75

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: AECOM

Job ID: 400-269777-1

Project/Site: ROXANA QUARTERLY GW 1Q25

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (15-150)	NBZ (50-150)	TPHL (43-147)
400-269777-3	MW6D-ROX-012225	110	94	126
400-269777-3 MS	MW6D-ROX-012225	102	92	111
400-269777-3 MSD	MW6D-ROX-012225	100	91	106
400-269777-4	MW6B-ROX-012225	94	88	118
400-269777-7	ROST4PZC-ROX-012225	98	115	97
400-269777-8	ROST4PZG-ROX-012225	98	119	105
400-269777-9	ROST4PZG-ROX-012225-DUP	94	83	104
400-269777-10	MW11-ROX-012225	100	80	101
400-269777-11	MW6A-ROX-012225	87	90	107
LCS 400-697715/2-A	Lab Control Sample	101	81	100
LCS 400-697722/2-A	Lab Control Sample	102	84	99
LCSD 400-697722/3-A	Lab Control Sample Dup	96	81	99
MB 400-697715/1-A	Method Blank	94	86	99
MB 400-697722/1-A	Method Blank	100	87	108

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (51-149)
400-269777-2	TB-ROX-012225-8011-A	61
400-269777-3	MW6D-ROX-012225	60
400-269777-3 MS	MW6D-ROX-012225	56
400-269777-3 MSD	MW6D-ROX-012225	58
400-269777-4	MW6B-ROX-012225	53
400-269777-6	TB-ROX-012225-8011-B	64
400-269777-7	ROST4PZC-ROX-012225	67
400-269777-8	ROST4PZG-ROX-012225	74
400-269777-9	ROST4PZG-ROX-012225-DUP	68
400-269777-10	MW11-ROX-012225	64
400-269777-11	MW6A-ROX-012225	70
LCS 400-697799/2-A	Lab Control Sample	94
LCSD 400-697799/3-A	Lab Control Sample Dup	90
MB 400-697799/1-A	Method Blank	87

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: TB-ROX-012225-8260-A

Lab Sample ID: 400-269777-1

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 16:18	BPO	EET PEN

Client Sample ID: TB-ROX-012225-8011-A

Lab Sample ID: 400-269777-2

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			31.3 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 16:02	KR	EET PEN

Client Sample ID: MW6D-ROX-012225

Lab Sample ID: 400-269777-3

Date Collected: 01/22/25 12:40

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 12:14	BPO	EET PEN
Total/NA	Prep	3510C			262.2 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 22:39	S1B	EET PEN
Total/NA	Prep	3511			30.1 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1	0 mL	1.0 mL	697964	01/30/25 19:56	JAW	EET PEN
Total/NA	Prep	8011			32.4 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 16:23	KR	EET PEN

Client Sample ID: MW6B-ROX-012225

Lab Sample ID: 400-269777-4

Date Collected: 01/22/25 14:15

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 12:38	BPO	EET PEN
Total/NA	Prep	3510C			233 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 23:03	S1B	EET PEN
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 21:27	JAW	EET PEN
Total/NA	Prep	8011			33.3 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 17:27	KR	EET PEN

Client Sample ID: TB-ROX-012225-8260-B

Lab Sample ID: 400-269777-5

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 16:42	BPO	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: TB-ROX-012225-8011-B

Lab Sample ID: 400-269777-6

Date Collected: 01/22/25 00:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			30.8 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 17:48	KR	EET PEN

Client Sample ID: ROST4PZC-ROX-012225

Lab Sample ID: 400-269777-7

Date Collected: 01/22/25 09:10

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 13:03	BPO	EET PEN
Total/NA	Prep	3510C			241.8 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 23:27	S1B	EET PEN
Total/NA	Prep	3511			29.7 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697971	01/30/25 11:34	S1B	EET PEN
Total/NA	Prep	8011			31.6 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 18:09	KR	EET PEN

Client Sample ID: ROST4PZG-ROX-012225

Lab Sample ID: 400-269777-8

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 13:27	BPO	EET PEN
Total/NA	Prep	3511			30.1 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697971	01/30/25 12:04	S1B	EET PEN
Total/NA	Prep	3510C			256.8 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698480	02/05/25 20:19	S1B	EET PEN
Total/NA	Prep	8011			32.1 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 18:52	KR	EET PEN

Client Sample ID: ROST4PZG-ROX-012225-DUP

Lab Sample ID: 400-269777-9

Date Collected: 01/22/25 10:45

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 13:51	BPO	EET PEN
Total/NA	Prep	3511			29.8 mL	2 mL	697722	01/28/25 14:25	RAW	EET PEN
Total/NA	Analysis	8270E		1			697898	01/29/25 18:27	JAW	EET PEN
Total/NA	Prep	3510C			257.4 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698480	02/05/25 20:41	S1B	EET PEN
Total/NA	Prep	8011			31.9 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 19:13	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: MW11-ROX-012225

Lab Sample ID: 400-269777-10

Date Collected: 01/22/25 12:20

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 14:16	BPO	EET PEN
Total/NA	Prep	3511			29.7 mL	2 mL	697722	01/28/25 14:25	RAW	EET PEN
Total/NA	Analysis	8270E		1			697898	01/29/25 18:57	JAW	EET PEN
Total/NA	Prep	3510C			246.4 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698480	02/05/25 21:03	S1B	EET PEN
Total/NA	Prep	8011			32.3 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 19:34	KR	EET PEN

Client Sample ID: MW6A-ROX-012225

Lab Sample ID: 400-269777-11

Date Collected: 01/22/25 14:00

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 14:40	BPO	EET PEN
Total/NA	Prep	3511			29.3 mL	2 mL	697722	01/28/25 14:25	RAW	EET PEN
Total/NA	Analysis	8270E		1			697898	01/29/25 19:27	JAW	EET PEN
Total/NA	Prep	3510C			237.8 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698480	02/05/25 21:26	S1B	EET PEN
Total/NA	Prep	8011			31.4 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 19:55	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697715/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1	0 mL	1.0 mL	697964	01/30/25 10:45	JAW	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697722/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697722	01/28/25 14:25	RAW	EET PEN
Total/NA	Analysis	8270E		1			697898	01/29/25 16:56	JAW	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697799/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 14:58	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697872/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697872	01/29/25 13:46	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 20:14	S1B	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698212/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 11:25	BPO	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697715/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 11:16	JAW	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697722/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697722	01/28/25 14:25	RAW	EET PEN
Total/NA	Analysis	8270E		1			697898	01/29/25 17:26	JAW	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697799/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 15:19	KR	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697872/12-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 20:38	S1B	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-697872/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697872	01/29/25 13:46	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 21:26	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698212/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 09:48	BPO	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697722/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697722	01/28/25 14:25	RAW	EET PEN
Total/NA	Analysis	8270E		1			697898	01/29/25 17:57	JAW	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697799/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 15:40	KR	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697872/13-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 21:02	S1B	EET PEN

Client Sample ID: MW6D-ROX-012225

Lab Sample ID: 400-269777-3 MS

Date Collected: 01/22/25 12:40

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 15:04	BPO	EET PEN
Total/NA	Prep	3510C			266.2 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 21:51	S1B	EET PEN
Total/NA	Prep	3511			30.1 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 20:26	JAW	EET PEN
Total/NA	Prep	8011			33.9 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 16:44	KR	EET PEN

Eurofins Pensacola

Lab Chronicle

Client: AECOM

Job ID: 400-269777-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: MW6D-ROX-012225

Lab Sample ID: 400-269777-3 MSD

Date Collected: 01/22/25 12:40

Matrix: Water

Date Received: 01/25/25 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 15:29	BPO	EET PEN
Total/NA	Prep	3510C			264.8 mL	1 mL	697872	01/29/25 13:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 22:15	S1B	EET PEN
Total/NA	Prep	3511			30 mL	2 mL	697715	01/28/25 14:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697964	01/30/25 20:56	JAW	EET PEN
Total/NA	Prep	8011			26.3 mL	35 mL	697799	01/29/25 09:05	KR	EET PEN
Total/NA	Analysis	8011		1			697883	01/29/25 17:06	KR	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

GC/MS VOA

Analysis Batch: 698212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-1	TB-ROX-012225-8260-A	Total/NA	Water	8260D	
400-269777-3	MW6D-ROX-012225	Total/NA	Water	8260D	
400-269777-4	MW6B-ROX-012225	Total/NA	Water	8260D	
400-269777-5	TB-ROX-012225-8260-B	Total/NA	Water	8260D	
400-269777-7	ROST4PZC-ROX-012225	Total/NA	Water	8260D	
400-269777-8	ROST4PZG-ROX-012225	Total/NA	Water	8260D	
400-269777-9	ROST4PZG-ROX-012225-DUP	Total/NA	Water	8260D	
400-269777-10	MW11-ROX-012225	Total/NA	Water	8260D	
400-269777-11	MW6A-ROX-012225	Total/NA	Water	8260D	
MB 400-698212/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698212/1002	Lab Control Sample	Total/NA	Water	8260D	
400-269777-3 MS	MW6D-ROX-012225	Total/NA	Water	8260D	
400-269777-3 MSD	MW6D-ROX-012225	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 697715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-3	MW6D-ROX-012225	Total/NA	Water	3511	
400-269777-4	MW6B-ROX-012225	Total/NA	Water	3511	
400-269777-7	ROST4PZC-ROX-012225	Total/NA	Water	3511	
400-269777-8	ROST4PZG-ROX-012225	Total/NA	Water	3511	
MB 400-697715/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697715/2-A	Lab Control Sample	Total/NA	Water	3511	
400-269777-3 MS	MW6D-ROX-012225	Total/NA	Water	3511	
400-269777-3 MSD	MW6D-ROX-012225	Total/NA	Water	3511	

Prep Batch: 697722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-9	ROST4PZG-ROX-012225-DUP	Total/NA	Water	3511	
400-269777-10	MW11-ROX-012225	Total/NA	Water	3511	
400-269777-11	MW6A-ROX-012225	Total/NA	Water	3511	
MB 400-697722/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697722/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 400-697722/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 697872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-3	MW6D-ROX-012225	Total/NA	Water	3510C	
400-269777-4	MW6B-ROX-012225	Total/NA	Water	3510C	
400-269777-7	ROST4PZC-ROX-012225	Total/NA	Water	3510C	
400-269777-8	ROST4PZG-ROX-012225	Total/NA	Water	3510C	
400-269777-9	ROST4PZG-ROX-012225-DUP	Total/NA	Water	3510C	
400-269777-10	MW11-ROX-012225	Total/NA	Water	3510C	
400-269777-11	MW6A-ROX-012225	Total/NA	Water	3510C	
MB 400-697872/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-697872/12-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-697872/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-697872/13-A	Lab Control Sample Dup	Total/NA	Water	3510C	
400-269777-3 MS	MW6D-ROX-012225	Total/NA	Water	3510C	
400-269777-3 MSD	MW6D-ROX-012225	Total/NA	Water	3510C	

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

GC/MS Semi VOA

Analysis Batch: 697898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-9	ROST4PZG-ROX-012225-DUP	Total/NA	Water	8270E	697722
400-269777-10	MW11-ROX-012225	Total/NA	Water	8270E	697722
400-269777-11	MW6A-ROX-012225	Total/NA	Water	8270E	697722
MB 400-697722/1-A	Method Blank	Total/NA	Water	8270E	697722
LCS 400-697722/2-A	Lab Control Sample	Total/NA	Water	8270E	697722
LCSD 400-697722/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	697722

Analysis Batch: 697964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-3	MW6D-ROX-012225	Total/NA	Water	8270E	697715
400-269777-4	MW6B-ROX-012225	Total/NA	Water	8270E	697715
MB 400-697715/1-A	Method Blank	Total/NA	Water	8270E	697715
LCS 400-697715/2-A	Lab Control Sample	Total/NA	Water	8270E	697715
400-269777-3 MS	MW6D-ROX-012225	Total/NA	Water	8270E	697715
400-269777-3 MSD	MW6D-ROX-012225	Total/NA	Water	8270E	697715

Analysis Batch: 697971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-7	ROST4PZC-ROX-012225	Total/NA	Water	8270E	697715
400-269777-8	ROST4PZG-ROX-012225	Total/NA	Water	8270E	697715

Analysis Batch: 698480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-8	ROST4PZG-ROX-012225	Total/NA	Water	8270E	697872
400-269777-9	ROST4PZG-ROX-012225-DUP	Total/NA	Water	8270E	697872
400-269777-10	MW11-ROX-012225	Total/NA	Water	8270E	697872
400-269777-11	MW6A-ROX-012225	Total/NA	Water	8270E	697872

Analysis Batch: 698513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-3	MW6D-ROX-012225	Total/NA	Water	8270E	697872
400-269777-4	MW6B-ROX-012225	Total/NA	Water	8270E	697872
400-269777-7	ROST4PZC-ROX-012225	Total/NA	Water	8270E	697872
MB 400-697872/1-A	Method Blank	Total/NA	Water	8270E	697872
LCS 400-697872/12-A	Lab Control Sample	Total/NA	Water	8270E	697872
LCS 400-697872/2-A	Lab Control Sample	Total/NA	Water	8270E	697872
LCSD 400-697872/13-A	Lab Control Sample Dup	Total/NA	Water	8270E	697872
400-269777-3 MS	MW6D-ROX-012225	Total/NA	Water	8270E	697872
400-269777-3 MSD	MW6D-ROX-012225	Total/NA	Water	8270E	697872

GC Semi VOA

Prep Batch: 697799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-2	TB-ROX-012225-8011-A	Total/NA	Water	8011	
400-269777-3	MW6D-ROX-012225	Total/NA	Water	8011	
400-269777-4	MW6B-ROX-012225	Total/NA	Water	8011	
400-269777-6	TB-ROX-012225-8011-B	Total/NA	Water	8011	
400-269777-7	ROST4PZC-ROX-012225	Total/NA	Water	8011	
400-269777-8	ROST4PZG-ROX-012225	Total/NA	Water	8011	
400-269777-9	ROST4PZG-ROX-012225-DUP	Total/NA	Water	8011	

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QC Association Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

GC Semi VOA (Continued)

Prep Batch: 697799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-10	MW11-ROX-012225	Total/NA	Water	8011	
400-269777-11	MW6A-ROX-012225	Total/NA	Water	8011	
MB 400-697799/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-697799/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-697799/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
400-269777-3 MS	MW6D-ROX-012225	Total/NA	Water	8011	
400-269777-3 MSD	MW6D-ROX-012225	Total/NA	Water	8011	

Analysis Batch: 697883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269777-2	TB-ROX-012225-8011-A	Total/NA	Water	8011	697799
400-269777-3	MW6D-ROX-012225	Total/NA	Water	8011	697799
400-269777-4	MW6B-ROX-012225	Total/NA	Water	8011	697799
400-269777-6	TB-ROX-012225-8011-B	Total/NA	Water	8011	697799
400-269777-7	ROST4PZC-ROX-012225	Total/NA	Water	8011	697799
400-269777-8	ROST4PZG-ROX-012225	Total/NA	Water	8011	697799
400-269777-9	ROST4PZG-ROX-012225-DUP	Total/NA	Water	8011	697799
400-269777-10	MW11-ROX-012225	Total/NA	Water	8011	697799
400-269777-11	MW6A-ROX-012225	Total/NA	Water	8011	697799
MB 400-697799/1-A	Method Blank	Total/NA	Water	8011	697799
LCS 400-697799/2-A	Lab Control Sample	Total/NA	Water	8011	697799
LCSD 400-697799/3-A	Lab Control Sample Dup	Total/NA	Water	8011	697799
400-269777-3 MS	MW6D-ROX-012225	Total/NA	Water	8011	697799
400-269777-3 MSD	MW6D-ROX-012225	Total/NA	Water	8011	697799

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: MB 400-698212/4

Matrix: Water

Analysis Batch: 698212

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 11:25	1
Acrolein	ND		20	3.3	ug/L			02/02/25 11:25	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 11:25	1
Benzene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 11:25	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 11:25	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 11:25	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 11:25	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 11:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 11:25	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 11:25	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 11:25	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 11:25	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 11:25	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 11:25	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 11:25	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 11:25	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 11:25	1
Dibromochloromethane	0.245	J	1.0	0.24	ug/L			02/02/25 11:25	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 11:25	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 11:25	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 11:25	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 11:25	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 11:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 11:25	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 11:25	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 11:25	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/02/25 11:25	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 11:25	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 11:25	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 11:25	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 11:25	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/02/25 11:25	1
Naphthalene	ND		5.0	3.0	ug/L			02/02/25 11:25	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 11:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/02/25 11:25	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 11:25	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 11:25	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 11:25	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: MB 400-698212/4

Matrix: Water

Analysis Batch: 698212

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 11:25	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 11:25	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 11:25	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 11:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 11:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 11:25	1
Toluene	ND		1.0	0.90	ug/L			02/02/25 11:25	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 11:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 11:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 11:25	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 11:25	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 11:25	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 11:25	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 11:25	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 11:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 11:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 11:25	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 11:25	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Xylenes, Total	ND		10	6.0	ug/L			02/02/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/02/25 11:25	1
Dibromofluoromethane	95		79 - 130		02/02/25 11:25	1
Toluene-d8 (Surr)	99		64 - 132		02/02/25 11:25	1

Lab Sample ID: LCS 400-698212/1002

Matrix: Water

Analysis Batch: 698212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	173		ug/L		87	43 - 150
Acrolein	500	419		ug/L		84	38 - 150
Acrylonitrile	500	495		ug/L		99	64 - 142
Benzene	50.0	48.1		ug/L		96	70 - 130
Bromobenzene	50.0	50.6		ug/L		101	70 - 132
Bromochloromethane	50.0	47.3		ug/L		95	70 - 130
Bromodichloromethane	50.0	48.4		ug/L		97	67 - 133
Bromoform	50.0	43.9		ug/L		88	57 - 140
Bromomethane	50.0	38.4		ug/L		77	10 - 150
2-Butanone (MEK)	200	149		ug/L		74	61 - 145
Carbon disulfide	50.0	38.0		ug/L		76	61 - 137
Carbon tetrachloride	50.0	45.5		ug/L		91	61 - 137
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	42.8		ug/L		86	55 - 141
2-Chloroethyl vinyl ether	50.0	44.2		ug/L		88	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: LCS 400-698212/1002

Matrix: Water

Analysis Batch: 698212

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	48.7		ug/L		97	69 - 130
1-Chlorohexane	50.0	56.1		ug/L		112	69 - 130
Chloromethane	50.0	42.3		ug/L		85	58 - 137
cis-1,2-Dichloroethene	50.0	54.4		ug/L		109	68 - 130
cis-1,3-Dichloropropene	50.0	48.6		ug/L		97	69 - 132
Dibromochloromethane	50.0	48.0		ug/L		96	67 - 135
1,2-Dichlorobenzene	50.0	53.1		ug/L		106	67 - 130
1,3-Dichlorobenzene	50.0	54.5		ug/L		109	70 - 130
1,4-Dichlorobenzene	50.0	54.0		ug/L		108	70 - 130
Dichlorodifluoromethane	50.0	33.4		ug/L		67	41 - 146
1,1-Dichloroethane	50.0	49.2		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	45.0		ug/L		90	69 - 130
1,1-Dichloroethene	50.0	45.4		ug/L		91	63 - 134
1,2-Dichloropropane	50.0	49.6		ug/L		99	70 - 130
1,3-Dichloropropane	50.0	49.2		ug/L		98	70 - 130
2,2-Dichloropropane	50.0	47.2		ug/L		94	52 - 135
1,1-Dichloropropene	50.0	46.1		ug/L		92	70 - 130
Ethylbenzene	50.0	52.0		ug/L		104	70 - 130
Ethyl methacrylate	50.0	49.4		ug/L		99	68 - 130
Hexachlorobutadiene	50.0	56.6		ug/L		113	53 - 140
2-Hexanone	200	195		ug/L		98	65 - 137
Isopropylbenzene	50.0	54.5		ug/L		109	70 - 130
Methylene bromide	50.0	47.5		ug/L		95	70 - 130
Methylene Chloride	50.0	45.4		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	193		ug/L		96	69 - 138
Methyl tert-butyl ether	50.0	46.4		ug/L		93	66 - 130
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	70 - 130
Naphthalene	50.0	46.6		ug/L		93	47 - 149
n-Butylbenzene	50.0	62.9		ug/L		126	67 - 130
N-Propylbenzene	50.0	56.9		ug/L		114	70 - 130
o-Chlorotoluene	50.0	55.9		ug/L		112	70 - 130
o-Xylene	50.0	52.3		ug/L		105	70 - 130
p-Chlorotoluene	50.0	55.8		ug/L		112	70 - 130
p-Isopropyltoluene	50.0	57.6		ug/L		115	65 - 130
sec-Butylbenzene	50.0	57.2		ug/L		114	66 - 130
Styrene	50.0	50.2		ug/L		100	70 - 130
tert-Butylbenzene	50.0	56.7		ug/L		113	64 - 139
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L		99	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/L		100	70 - 131
Tetrachloroethene	50.0	47.3		ug/L		95	65 - 130
Toluene	50.0	49.2		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	48.8		ug/L		98	63 - 130
1,2,3-Trichlorobenzene	50.0	49.8		ug/L		100	60 - 138
1,2,4-Trichlorobenzene	50.0	52.6		ug/L		105	60 - 140
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	68 - 130
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	70 - 130
Trichloroethene	50.0	49.3		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	45.6		ug/L		91	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: LCS 400-698212/1002

Matrix: Water

Analysis Batch: 698212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	47.3		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	50.0	55.1		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	50.0	56.7		ug/L		113	69 - 130
Vinyl acetate	100	96.9		ug/L		97	26 - 150
Vinyl chloride	50.0	38.3		ug/L		77	59 - 136
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		56 - 136
Dibromofluoromethane	98		79 - 130
Toluene-d8 (Surr)	99		64 - 132

Lab Sample ID: 400-269777-3 MS

Matrix: Water

Analysis Batch: 698212

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	ND	F1	200	79.1	F1	ug/L		40	43 - 150
Acrolein	ND		500	429		ug/L		86	38 - 150
Acrylonitrile	ND		500	504		ug/L		101	62 - 149
Benzene	ND		50.0	42.9		ug/L		86	56 - 142
Bromobenzene	ND		50.0	42.9		ug/L		86	59 - 136
Bromochloromethane	ND		50.0	43.6		ug/L		87	64 - 140
Bromodichloromethane	ND		50.0	41.7		ug/L		83	59 - 143
Bromoform	ND		50.0	41.2		ug/L		82	50 - 140
Bromomethane	ND		50.0	33.9		ug/L		68	10 - 150
2-Butanone (MEK)	ND	F1	200	109		ug/L		55	55 - 150
Carbon disulfide	ND		50.0	31.9		ug/L		64	48 - 150
Carbon tetrachloride	ND		50.0	39.8		ug/L		80	55 - 145
Chlorobenzene	ND		50.0	42.4		ug/L		85	64 - 130
Chloroethane	ND		50.0	27.7		ug/L		55	50 - 150
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 150
Chloroform	ND		50.0	44.2		ug/L		88	60 - 141
1-Chlorohexane	ND		50.0	46.8		ug/L		94	56 - 136
Chloromethane	ND		50.0	39.4		ug/L		79	49 - 148
cis-1,2-Dichloroethene	ND		50.0	58.8		ug/L		118	59 - 143
cis-1,3-Dichloropropene	ND		50.0	42.7		ug/L		85	57 - 140
Dibromochloromethane	ND		50.0	42.4		ug/L		85	56 - 143
1,2-Dichlorobenzene	ND		50.0	45.4		ug/L		91	52 - 137
1,3-Dichlorobenzene	ND		50.0	44.5		ug/L		89	54 - 135
1,4-Dichlorobenzene	ND		50.0	44.6		ug/L		89	53 - 135
Dichlorodifluoromethane	ND		50.0	29.7		ug/L		59	16 - 150
1,1-Dichloroethane	ND		50.0	43.6		ug/L		87	61 - 144
1,2-Dichloroethane	ND		50.0	41.7		ug/L		83	60 - 141
1,1-Dichloroethene	ND		50.0	34.8		ug/L		70	54 - 147
1,2-Dichloropropane	ND		50.0	43.7		ug/L		87	66 - 137
1,3-Dichloropropane	ND		50.0	44.7		ug/L		89	66 - 133
2,2-Dichloropropane	ND		50.0	40.7		ug/L		81	42 - 144

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: 400-269777-3 MS

Matrix: Water

Analysis Batch: 698212

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	ND		50.0	42.3		ug/L		85	65 - 136
Ethylbenzene	ND		50.0	43.8		ug/L		88	58 - 131
Ethyl methacrylate	ND		50.0	45.8		ug/L		92	64 - 130
Hexachlorobutadiene	ND		50.0	42.8		ug/L		86	31 - 149
2-Hexanone	ND		200	156		ug/L		78	65 - 140
Isopropylbenzene	ND		50.0	45.0		ug/L		90	56 - 133
Methylene bromide	ND		50.0	43.1		ug/L		86	63 - 138
Methylene Chloride	ND		50.0	38.6		ug/L		77	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	201		ug/L		100	63 - 146
Methyl tert-butyl ether	ND		50.0	44.3		ug/L		89	59 - 137
m-Xylene & p-Xylene	ND		50.0	43.2		ug/L		86	57 - 130
Naphthalene	ND		50.0	45.7		ug/L		91	25 - 150
n-Butylbenzene	ND		50.0	49.3		ug/L		99	41 - 142
N-Propylbenzene	ND		50.0	47.1		ug/L		94	51 - 138
o-Chlorotoluene	ND		50.0	47.3		ug/L		95	53 - 134
o-Xylene	ND		50.0	44.3		ug/L		89	61 - 130
p-Chlorotoluene	ND		50.0	45.2		ug/L		90	54 - 133
p-Isopropyltoluene	ND		50.0	45.9		ug/L		92	48 - 139
sec-Butylbenzene	ND		50.0	46.9		ug/L		94	50 - 138
Styrene	ND		50.0	43.2		ug/L		86	58 - 131
tert-Butylbenzene	ND		50.0	45.7		ug/L		91	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	44.1		ug/L		88	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	47.2		ug/L		94	66 - 135
Tetrachloroethene	ND		50.0	39.8		ug/L		80	52 - 133
Toluene	ND		50.0	42.5		ug/L		85	65 - 130
trans-1,2-Dichloroethene	ND		50.0	40.3		ug/L		81	61 - 143
trans-1,3-Dichloropropene	ND		50.0	43.2		ug/L		86	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	43.4		ug/L		87	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	43.5		ug/L		87	39 - 148
1,1,1-Trichloroethane	ND		50.0	41.7		ug/L		83	57 - 142
1,1,2-Trichloroethane	ND		50.0	45.7		ug/L		91	66 - 131
Trichloroethene	ND		50.0	43.8		ug/L		88	64 - 136
Trichlorofluoromethane	ND		50.0	27.7		ug/L		55	54 - 150
1,2,3-Trichloropropane	ND		50.0	47.5		ug/L		95	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	45.8		ug/L		92	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	46.8		ug/L		94	52 - 135
Vinyl acetate	ND		100	95.4		ug/L		95	26 - 150
Vinyl chloride	ND		50.0	36.1		ug/L		72	46 - 150
Xylenes, Total	ND		100	87.5		ug/L		88	59 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene	103		56 - 136						
Dibromofluoromethane	98		79 - 130						
Toluene-d8 (Surr)	98		64 - 132						

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: 400-269777-3 MSD

Matrix: Water

Analysis Batch: 698212

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND	F1	200	76.6	F1	ug/L		38	43 - 150	3	30
Acrolein	ND		500	420		ug/L		84	38 - 150	2	31
Acrylonitrile	ND		500	509		ug/L		102	62 - 149	1	30
Benzene	ND		50.0	42.9		ug/L		86	56 - 142	0	30
Bromobenzene	ND		50.0	42.4		ug/L		85	59 - 136	1	30
Bromochloromethane	ND		50.0	44.6		ug/L		89	64 - 140	2	30
Bromodichloromethane	ND		50.0	43.1		ug/L		86	59 - 143	3	30
Bromoform	ND		50.0	39.2		ug/L		78	50 - 140	5	30
Bromomethane	ND		50.0	32.8		ug/L		66	10 - 150	3	50
2-Butanone (MEK)	ND	F1	200	99.0	F1	ug/L		50	55 - 150	10	30
Carbon disulfide	ND		50.0	32.3		ug/L		65	48 - 150	1	30
Carbon tetrachloride	ND		50.0	39.8		ug/L		80	55 - 145	0	30
Chlorobenzene	ND		50.0	42.5		ug/L		85	64 - 130	0	30
Chloroethane	ND		50.0	37.0		ug/L		74	50 - 150	29	30
2-Chloroethyl vinyl ether	ND	F1	50.0	ND	F1	ug/L		0	10 - 150	NC	50
Chloroform	ND		50.0	44.6		ug/L		89	60 - 141	1	30
1-Chlorohexane	ND		50.0	44.3		ug/L		89	56 - 136	6	30
Chloromethane	ND		50.0	39.2		ug/L		78	49 - 148	1	31
cis-1,2-Dichloroethene	ND		50.0	47.3		ug/L		95	59 - 143	22	30
cis-1,3-Dichloropropene	ND		50.0	43.3		ug/L		87	57 - 140	1	30
Dibromochloromethane	ND		50.0	42.6		ug/L		85	56 - 143	1	30
1,2-Dichlorobenzene	ND		50.0	43.2		ug/L		86	52 - 137	5	30
1,3-Dichlorobenzene	ND		50.0	42.8		ug/L		86	54 - 135	4	30
1,4-Dichlorobenzene	ND		50.0	42.0		ug/L		84	53 - 135	6	30
Dichlorodifluoromethane	ND		50.0	30.9		ug/L		62	16 - 150	4	31
1,1-Dichloroethane	ND		50.0	44.3		ug/L		89	61 - 144	1	30
1,2-Dichloroethane	ND		50.0	42.2		ug/L		84	60 - 141	1	30
1,1-Dichloroethene	ND		50.0	40.9		ug/L		82	54 - 147	16	30
1,2-Dichloropropane	ND		50.0	46.2		ug/L		92	66 - 137	6	30
1,3-Dichloropropane	ND		50.0	44.6		ug/L		89	66 - 133	0	30
2,2-Dichloropropane	ND		50.0	40.6		ug/L		81	42 - 144	0	31
1,1-Dichloropropene	ND		50.0	41.6		ug/L		83	65 - 136	2	30
Ethylbenzene	ND		50.0	42.5		ug/L		85	58 - 131	3	30
Ethyl methacrylate	ND		50.0	45.3		ug/L		91	64 - 130	1	30
Hexachlorobutadiene	ND		50.0	39.2		ug/L		78	31 - 149	9	36
2-Hexanone	ND		200	142		ug/L		71	65 - 140	9	30
Isopropylbenzene	ND		50.0	42.8		ug/L		86	56 - 133	5	30
Methylene bromide	ND		50.0	44.5		ug/L		89	63 - 138	3	30
Methylene Chloride	ND		50.0	41.1		ug/L		82	60 - 146	6	32
4-Methyl-2-pentanone (MIBK)	ND		200	190		ug/L		95	63 - 146	5	30
Methyl tert-butyl ether	ND		50.0	45.6		ug/L		91	59 - 137	3	30
m-Xylene & p-Xylene	ND		50.0	42.1		ug/L		84	57 - 130	3	30
Naphthalene	ND		50.0	43.1		ug/L		86	25 - 150	6	30
n-Butylbenzene	ND		50.0	45.7		ug/L		91	41 - 142	8	31
N-Propylbenzene	ND		50.0	44.8		ug/L		90	51 - 138	5	30
o-Chlorotoluene	ND		50.0	43.8		ug/L		88	53 - 134	8	30
o-Xylene	ND		50.0	42.9		ug/L		86	61 - 130	3	30
p-Chlorotoluene	ND		50.0	43.2		ug/L		86	54 - 133	4	30

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: 400-269777-3 MSD

Matrix: Water

Analysis Batch: 698212

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	42.6		ug/L		85	48 - 139	7	30
sec-Butylbenzene	ND		50.0	43.6		ug/L		87	50 - 138	7	30
Styrene	ND		50.0	41.7		ug/L		83	58 - 131	4	30
tert-Butylbenzene	ND		50.0	44.0		ug/L		88	54 - 146	4	30
1,1,1,2-Tetrachloroethane	ND		50.0	42.6		ug/L		85	59 - 137	4	30
1,1,2,2-Tetrachloroethane	ND		50.0	46.2		ug/L		92	66 - 135	2	30
Tetrachloroethene	ND		50.0	38.9		ug/L		78	52 - 133	2	30
Toluene	ND		50.0	41.5		ug/L		83	65 - 130	2	30
trans-1,2-Dichloroethene	ND		50.0	41.7		ug/L		83	61 - 143	3	30
trans-1,3-Dichloropropene	ND		50.0	43.1		ug/L		86	53 - 133	0	30
1,2,3-Trichlorobenzene	ND		50.0	42.0		ug/L		84	43 - 145	3	30
1,2,4-Trichlorobenzene	ND		50.0	40.3		ug/L		81	39 - 148	8	30
1,1,1-Trichloroethane	ND		50.0	42.6		ug/L		85	57 - 142	2	30
1,1,2-Trichloroethane	ND		50.0	45.1		ug/L		90	66 - 131	1	30
Trichloroethene	ND		50.0	43.5		ug/L		87	64 - 136	1	30
Trichlorofluoromethane	ND		50.0	28.3		ug/L		57	54 - 150	2	30
1,2,3-Trichloropropane	ND		50.0	46.8		ug/L		94	65 - 133	2	30
1,2,4-Trimethylbenzene	ND		50.0	43.7		ug/L		87	50 - 139	5	30
1,3,5-Trimethylbenzene	ND		50.0	44.5		ug/L		89	52 - 135	5	30
Vinyl acetate	ND		100	93.6		ug/L		94	26 - 150	2	33
Vinyl chloride	ND		50.0	36.7		ug/L		73	46 - 150	2	30
Xylenes, Total	ND		100	85.0		ug/L		85	59 - 130	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	102		56 - 136
Dibromofluoromethane	100		79 - 130
Toluene-d8 (Surr)	97		64 - 132

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

Lab Sample ID: MB 400-697872/1-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		01/29/25 13:46	02/05/25 20:14	1
Benzenethiol	ND		10	9.9	ug/L		01/29/25 13:46	02/05/25 20:14	1
Benzoic acid	ND		30	24	ug/L		01/29/25 13:46	02/05/25 20:14	1
Benzyl alcohol	ND		10	7.3	ug/L		01/29/25 13:46	02/05/25 20:14	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		01/29/25 13:46	02/05/25 20:14	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		01/29/25 13:46	02/05/25 20:14	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		01/29/25 13:46	02/05/25 20:14	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		01/29/25 13:46	02/05/25 20:14	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		01/29/25 13:46	02/05/25 20:14	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		01/29/25 13:46	02/05/25 20:14	1
4-Chloroaniline	ND		10	4.7	ug/L		01/29/25 13:46	02/05/25 20:14	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		01/29/25 13:46	02/05/25 20:14	1
2-Chloronaphthalene	ND		10	3.8	ug/L		01/29/25 13:46	02/05/25 20:14	1
2-Chlorophenol	ND		10	4.1	ug/L		01/29/25 13:46	02/05/25 20:14	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: MB 400-697872/1-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		01/29/25 13:46	02/05/25 20:14	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		01/29/25 13:46	02/05/25 20:14	1
Dibenzofuran	ND		10	4.0	ug/L		01/29/25 13:46	02/05/25 20:14	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		01/29/25 13:46	02/05/25 20:14	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		01/29/25 13:46	02/05/25 20:14	1
Diethyl phthalate	ND		10	4.4	ug/L		01/29/25 13:46	02/05/25 20:14	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		01/29/25 13:46	02/05/25 20:14	1
Dimethyl phthalate	ND		10	4.2	ug/L		01/29/25 13:46	02/05/25 20:14	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		01/29/25 13:46	02/05/25 20:14	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		01/29/25 13:46	02/05/25 20:14	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		01/29/25 13:46	02/05/25 20:14	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		01/29/25 13:46	02/05/25 20:14	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		01/29/25 13:46	02/05/25 20:14	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		01/29/25 13:46	02/05/25 20:14	1
1,4-Dioxane	ND		10	4.3	ug/L		01/29/25 13:46	02/05/25 20:14	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		01/29/25 13:46	02/05/25 20:14	1
Hexachlorobenzene	ND		10	9.7	ug/L		01/29/25 13:46	02/05/25 20:14	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		01/29/25 13:46	02/05/25 20:14	1
Hexachloroethane	ND		10	5.2	ug/L		01/29/25 13:46	02/05/25 20:14	1
Indene	ND		10	3.6	ug/L		01/29/25 13:46	02/05/25 20:14	1
Isophorone	ND		10	5.2	ug/L		01/29/25 13:46	02/05/25 20:14	1
2-Methylphenol	ND		10	3.2	ug/L		01/29/25 13:46	02/05/25 20:14	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		01/29/25 13:46	02/05/25 20:14	1
2-Nitroaniline	ND		10	5.0	ug/L		01/29/25 13:46	02/05/25 20:14	1
3-Nitroaniline	ND		10	4.7	ug/L		01/29/25 13:46	02/05/25 20:14	1
4-Nitroaniline	ND		10	4.1	ug/L		01/29/25 13:46	02/05/25 20:14	1
Nitrobenzene	ND		10	4.7	ug/L		01/29/25 13:46	02/05/25 20:14	1
2-Nitrophenol	ND		10	4.6	ug/L		01/29/25 13:46	02/05/25 20:14	1
4-Nitrophenol	ND		10	3.3	ug/L		01/29/25 13:46	02/05/25 20:14	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		01/29/25 13:46	02/05/25 20:14	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		01/29/25 13:46	02/05/25 20:14	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		01/29/25 13:46	02/05/25 20:14	1
Pentachlorophenol	ND		20	12	ug/L		01/29/25 13:46	02/05/25 20:14	1
Phenol	ND		10	4.2	ug/L		01/29/25 13:46	02/05/25 20:14	1
Pyridine	ND		10	10	ug/L		01/29/25 13:46	02/05/25 20:14	1
Quinoline	ND		10	2.4	ug/L		01/29/25 13:46	02/05/25 20:14	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		01/29/25 13:46	02/05/25 20:14	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		01/29/25 13:46	02/05/25 20:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		21 - 114	01/29/25 13:46	02/05/25 20:14	1
2-Fluorophenol	39		10 - 105	01/29/25 13:46	02/05/25 20:14	1
Nitrobenzene-d5	70		16 - 127	01/29/25 13:46	02/05/25 20:14	1
Phenol-d5	26		10 - 129	01/29/25 13:46	02/05/25 20:14	1
Terphenyl-d14	100		13 - 150	01/29/25 13:46	02/05/25 20:14	1
2,4,6-Tribromophenol	75		10 - 150	01/29/25 13:46	02/05/25 20:14	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: LCS 400-697872/12-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzenethiol	120	67.6		ug/L		56	10 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	85		21 - 114				
2-Fluorophenol	71		10 - 105				
Nitrobenzene-d5	83		16 - 127				
Phenol-d5	54		10 - 129				
Terphenyl-d14	111		13 - 150				
2,4,6-Tribromophenol	82		10 - 150				

Lab Sample ID: LCS 400-697872/2-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	120	72.8		ug/L		61	10 - 127
Benzoic acid	493	220		ug/L		45	19 - 126
Benzyl alcohol	120	88.7		ug/L		74	17 - 109
Bis(2-chloroethoxy)methane	120	118		ug/L		98	24 - 125
Bis(2-chloroethyl)ether	120	102		ug/L		85	10 - 121
bis (2-chloroisopropyl) ether	120	124		ug/L		104	14 - 123
Bis(2-ethylhexyl) phthalate	120	113		ug/L		94	16 - 150
4-Bromophenyl phenyl ether	120	118		ug/L		98	17 - 150
Butyl benzyl phthalate	120	126		ug/L		105	21 - 150
4-Chloroaniline	120	91.0		ug/L		76	10 - 124
4-Chloro-3-methylphenol	120	111		ug/L		93	37 - 131
2-Chloronaphthalene	120	116		ug/L		97	24 - 132
2-Chlorophenol	120	105		ug/L		88	27 - 124
4-Chlorophenyl phenyl ether	120	122		ug/L		102	27 - 147
Dibenz[a,h]acridine	120	49.2		ug/L		41	40 - 140
Dibenzofuran	120	127		ug/L		106	30 - 135
3,3'-Dichlorobenzidine	160	235		ug/L		147	10 - 150
2,4-Dichlorophenol	120	108		ug/L		90	33 - 132
Diethyl phthalate	120	126		ug/L		105	37 - 145
2,4-Dimethylphenol	120	110		ug/L		92	38 - 132
Dimethyl phthalate	120	126		ug/L		105	32 - 137
Di-n-butyl phthalate	120	129		ug/L		107	27 - 150
4,6-Dinitro-ortho-cresol	240	272		ug/L		113	14 - 150
2,4-Dinitrophenol	240	259		ug/L		108	15 - 150
2,4-Dinitrotoluene	120	126		ug/L		105	35 - 136
2,6-Dinitrotoluene	120	126		ug/L		105	29 - 140
Di-n-octyl phthalate	120	107		ug/L		89	26 - 150
1,4-Dioxane	120	54.6		ug/L		45	10 - 87
1,2-Diphenylhydrazine (as Azobenzene)	120	125		ug/L		104	23 - 138
Hexachlorobenzene	120	130		ug/L		108	10 - 150
Hexachlorocyclopentadiene	120	84.9		ug/L		71	10 - 124
Hexachloroethane	120	89.4		ug/L		74	10 - 127

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: LCS 400-697872/2-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indene	120	102		ug/L		85	18 - 150
Isophorone	120	117		ug/L		98	28 - 127
2-Methylphenol	120	97.7		ug/L		81	34 - 124
3 & 4 Methylphenol	120	95.0		ug/L		79	32 - 122
2-Nitroaniline	120	120		ug/L		100	24 - 139
3-Nitroaniline	120	96.4		ug/L		80	10 - 128
4-Nitroaniline	120	99.6		ug/L		83	28 - 118
Nitrobenzene	120	110		ug/L		91	29 - 120
2-Nitrophenol	120	106		ug/L		89	25 - 148
4-Nitrophenol	240	134		ug/L		56	12 - 129
N-Nitrosodimethylamine	120	56.3		ug/L		47	10 - 115
N-Nitrosodi-n-propylamine	120	125		ug/L		104	24 - 142
N-Nitrosodiphenylamine	119	122		ug/L		103	29 - 138
Pentachlorophenol	240	240		ug/L		100	19 - 150
Phenol	120	55.3		ug/L		46	11 - 95
Pyridine	240	68.4		ug/L		29	10 - 82
Quinoline	120	44.4		ug/L		37	10 - 141
2,4,5-Trichlorophenol	120	113		ug/L		94	30 - 144
2,4,6-Trichlorophenol	120	113		ug/L		94	27 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	92		21 - 114
2-Fluorophenol	60		10 - 105
Nitrobenzene-d5	97		16 - 127
Phenol-d5	44		10 - 129
Terphenyl-d14	112		13 - 150
2,4,6-Tribromophenol	103		10 - 150

Lab Sample ID: LCSD 400-697872/13-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzenethiol	120	69.7		ug/L		58	10 - 140	3	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	78		21 - 114
2-Fluorophenol	46		10 - 105
Nitrobenzene-d5	76		16 - 127
Phenol-d5	31		10 - 129
Terphenyl-d14	107		13 - 150
2,4,6-Tribromophenol	78		10 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: 400-269777-3 MS

Matrix: Water

Analysis Batch: 698513

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	ND		113	65.9		ug/L		58	50 - 150
Benzoic acid	ND		463	287		ug/L		62	50 - 150
Benzyl alcohol	ND		113	89.2		ug/L		79	50 - 150
Bis(2-chloroethoxy)methane	ND		113	109		ug/L		97	50 - 150
Bis(2-chloroethyl)ether	ND		113	93.8		ug/L		83	50 - 150
bis (2-chloroisopropyl) ether	ND		113	115		ug/L		102	50 - 150
Bis(2-ethylhexyl) phthalate	ND		113	108		ug/L		96	50 - 150
4-Bromophenyl phenyl ether	ND		113	108		ug/L		96	50 - 150
Butyl benzyl phthalate	ND		113	116		ug/L		103	50 - 150
4-Chloroaniline	ND		113	84.4		ug/L		75	50 - 150
4-Chloro-3-methylphenol	ND		113	105		ug/L		93	50 - 150
2-Chloronaphthalene	ND		113	113		ug/L		100	50 - 150
2-Chlorophenol	ND		113	100		ug/L		89	50 - 150
4-Chlorophenyl phenyl ether	ND		113	114		ug/L		101	50 - 150
Dibenz[a,h]acridine	ND	F1	112	42.5	F1	ug/L		38	50 - 150
Dibenzofuran	ND		113	117		ug/L		104	50 - 150
3,3'-Dichlorobenzidine	ND		150	182		ug/L		121	50 - 150
2,4-Dichlorophenol	ND		113	103		ug/L		91	50 - 150
Diethyl phthalate	ND		113	114		ug/L		101	50 - 150
2,4-Dimethylphenol	ND		113	104		ug/L		92	50 - 150
Dimethyl phthalate	ND		113	116		ug/L		103	50 - 150
Di-n-butyl phthalate	ND		113	118		ug/L		105	50 - 150
4,6-Dinitro-ortho-cresol	ND		225	263		ug/L		117	50 - 150
2,4-Dinitrophenol	ND		225	280		ug/L		124	50 - 150
2,4-Dinitrotoluene	ND		113	117		ug/L		103	50 - 150
2,6-Dinitrotoluene	ND		113	116		ug/L		103	50 - 150
Di-n-octyl phthalate	ND		113	101		ug/L		89	50 - 150
1,4-Dioxane	ND	F1	113	49.5	F1	ug/L		44	50 - 150
1,2-Diphenylhydrazine (as Azobenzene)	ND		113	113		ug/L		101	50 - 150
Hexachlorobenzene	ND		113	119		ug/L		106	50 - 150
Hexachlorocyclopentadiene	ND		113	95.9		ug/L		85	50 - 150
Hexachloroethane	ND		113	87.5		ug/L		78	50 - 150
Indene	ND		113	91.8		ug/L		82	50 - 150
Isophorone	ND		113	109		ug/L		97	50 - 150
2-Methylphenol	ND		113	96.9		ug/L		86	50 - 150
3 & 4 Methylphenol	ND		113	93.7		ug/L		83	50 - 150
2-Nitroaniline	ND		113	112		ug/L		100	50 - 150
3-Nitroaniline	ND		113	95.0		ug/L		84	50 - 150
4-Nitroaniline	ND		113	98.6		ug/L		88	50 - 150
Nitrobenzene	ND		113	101		ug/L		90	50 - 150
2-Nitrophenol	ND		113	99.0		ug/L		88	50 - 150
4-Nitrophenol	ND		225	147		ug/L		65	50 - 150
N-Nitrosodimethylamine	ND	F1	113	60.2		ug/L		53	50 - 150
N-Nitrosodi-n-propylamine	ND		113	113		ug/L		100	50 - 150
N-Nitrosodiphenylamine	ND		112	111		ug/L		100	50 - 150
Pentachlorophenol	ND		225	233		ug/L		104	50 - 150
Phenol	ND	F1	113	60.3		ug/L		53	50 - 150
Pyridine	ND	F2 F1	225	59.1	F1	ug/L		26	50 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: 400-269777-3 MS

Matrix: Water

Analysis Batch: 698513

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Quinoline	ND	F1	112	41.0	F1	ug/L		36	50 - 150
2,4,5-Trichlorophenol	ND		113	106		ug/L		94	50 - 150
2,4,6-Trichlorophenol	ND		113	105		ug/L		93	50 - 150
Surrogate	MS %Recovery	MS Qualifier	Limits						
2-Fluorobiphenyl	92		21 - 114						
2-Fluorophenol	66		10 - 105						
Nitrobenzene-d5	95		16 - 127						
Phenol-d5	51		10 - 129						
Terphenyl-d14	104		13 - 150						
2,4,6-Tribromophenol	101		10 - 150						

Lab Sample ID: 400-269777-3 MSD

Matrix: Water

Analysis Batch: 698513

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Aniline	ND		113	76.6		ug/L		68	50 - 150	15	40
Benzoic acid	ND		465	256		ug/L		55	50 - 150	11	40
Benzyl alcohol	ND		113	83.1		ug/L		73	50 - 150	7	40
Bis(2-chloroethoxy)methane	ND		113	104		ug/L		91	50 - 150	5	40
Bis(2-chloroethyl)ether	ND		113	92.7		ug/L		82	50 - 150	1	40
bis (2-chloroisopropyl) ether	ND		113	108		ug/L		95	50 - 150	7	40
Bis(2-ethylhexyl) phthalate	ND		113	105		ug/L		93	50 - 150	2	40
4-Bromophenyl phenyl ether	ND		113	105		ug/L		93	50 - 150	2	40
Butyl benzyl phthalate	ND		113	119		ug/L		105	50 - 150	2	40
4-Chloroaniline	ND		113	88.3		ug/L		78	50 - 150	5	40
4-Chloro-3-methylphenol	ND		113	99.8		ug/L		88	50 - 150	5	40
2-Chloronaphthalene	ND		113	106		ug/L		93	50 - 150	7	40
2-Chlorophenol	ND		113	93.0		ug/L		82	50 - 150	7	40
4-Chlorophenyl phenyl ether	ND		113	109		ug/L		96	50 - 150	4	40
Dibenz[a,h]acridine	ND	F1	113	44.0	F1	ug/L		39	50 - 150	3	40
Dibenzofuran	ND		113	113		ug/L		99	50 - 150	4	40
3,3'-Dichlorobenzidine	ND		151	179		ug/L		118	50 - 150	2	40
2,4-Dichlorophenol	ND		113	96.0		ug/L		85	50 - 150	7	40
Diethyl phthalate	ND		113	112		ug/L		99	50 - 150	2	40
2,4-Dimethylphenol	ND		113	99.1		ug/L		87	50 - 150	5	40
Dimethyl phthalate	ND		113	112		ug/L		99	50 - 150	3	40
Di-n-butyl phthalate	ND		113	117		ug/L		103	50 - 150	1	40
4,6-Dinitro-ortho-cresol	ND		227	253		ug/L		112	50 - 150	4	40
2,4-Dinitrophenol	ND		227	255		ug/L		112	50 - 150	9	40
2,4-Dinitrotoluene	ND		113	112		ug/L		99	50 - 150	4	40
2,6-Dinitrotoluene	ND		113	111		ug/L		98	50 - 150	4	40
Di-n-octyl phthalate	ND		113	102		ug/L		90	50 - 150	1	40
1,4-Dioxane	ND	F1	113	41.0	F1	ug/L		36	50 - 150	19	40
1,2-Diphenylhydrazine (as Azobenzene)	ND		113	112		ug/L		99	50 - 150	1	40
Hexachlorobenzene	ND		113	116		ug/L		103	50 - 150	3	40
Hexachlorocyclopentadiene	ND		113	86.2		ug/L		76	50 - 150	11	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: 400-269777-3 MSD

Matrix: Water

Analysis Batch: 698513

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachloroethane	ND		113	87.1		ug/L		77	50 - 150	0	40
Indene	ND		113	86.6		ug/L		76	50 - 150	6	40
Isophorone	ND		113	105		ug/L		93	50 - 150	4	40
2-Methylphenol	ND		113	88.9		ug/L		78	50 - 150	9	40
3 & 4 Methylphenol	ND		113	85.8		ug/L		76	50 - 150	9	40
2-Nitroaniline	ND		113	107		ug/L		95	50 - 150	5	40
3-Nitroaniline	ND		113	94.1		ug/L		83	50 - 150	1	40
4-Nitroaniline	ND		113	96.4		ug/L		85	50 - 150	2	40
Nitrobenzene	ND		113	97.3		ug/L		86	50 - 150	4	40
2-Nitrophenol	ND		113	95.6		ug/L		84	50 - 150	3	40
4-Nitrophenol	ND		227	136		ug/L		60	50 - 150	8	40
N-Nitrosodimethylamine	ND	F1	113	56.0	F1	ug/L		49	50 - 150	7	40
N-Nitrosodi-n-propylamine	ND		113	106		ug/L		94	50 - 150	6	40
N-Nitrosodiphenylamine	ND		112	108		ug/L		96	50 - 150	3	40
Pentachlorophenol	ND		227	225		ug/L		99	50 - 150	4	40
Phenol	ND	F1	113	53.8	F1	ug/L		48	50 - 150	11	40
Pyridine	ND	F2 F1	227	89.6	F2 F1	ug/L		40	50 - 150	41	40
Quinoline	ND	F1	113	43.9	F1	ug/L		39	50 - 150	7	40
2,4,5-Trichlorophenol	ND		113	101		ug/L		89	50 - 150	4	40
2,4,6-Trichlorophenol	ND		113	101		ug/L		89	50 - 150	4	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	89		21 - 114
2-Fluorophenol	60		10 - 105
Nitrobenzene-d5	92		16 - 127
Phenol-d5	46		10 - 129
Terphenyl-d14	103		13 - 150
2,4,6-Tribromophenol	99		10 - 150

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

Lab Sample ID: MB 400-697715/1-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/28/25 14:13	01/30/25 10:45	1
Acenaphthylene	ND		10	0.047	ug/L		01/28/25 14:13	01/30/25 10:45	1
Anthracene	ND		10	0.073	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/28/25 14:13	01/30/25 10:45	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1
Chrysene	ND		10	0.039	ug/L		01/28/25 14:13	01/30/25 10:45	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 10:45	1
Fluoranthene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 10:45	1
Fluorene	ND		10	0.087	ug/L		01/28/25 14:13	01/30/25 10:45	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/28/25 14:13	01/30/25 10:45	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: MB 400-697715/1-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		10	0.066	ug/L		01/28/25 14:13	01/30/25 10:45	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/28/25 14:13	01/30/25 10:45	1
Phenanthrene	ND		10	0.044	ug/L		01/28/25 14:13	01/30/25 10:45	1
Pyrene	ND		10	0.040	ug/L		01/28/25 14:13	01/30/25 10:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/28/25 14:13	01/30/25 10:45	1
Nitrobenzene-d5	86		50 - 150	01/28/25 14:13	01/30/25 10:45	1
Terphenyl-d14	99		43 - 147	01/28/25 14:13	01/30/25 10:45	1

Lab Sample ID: LCS 400-697715/2-A

Matrix: Water

Analysis Batch: 697964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	3.20	J	ug/L		96	50 - 150
Acenaphthylene	3.34	3.30	J	ug/L		99	50 - 150
Anthracene	3.34	3.65	J	ug/L		110	50 - 150
Benzo[a]anthracene	3.34	3.35	J	ug/L		100	50 - 150
Benzo[a]pyrene	3.34	3.39	J	ug/L		102	50 - 150
Benzo[b]fluoranthene	3.34	3.38	J	ug/L		101	50 - 150
Benzo[g,h,i]perylene	3.34	3.35	J	ug/L		100	50 - 150
Benzo[k]fluoranthene	3.34	3.41	J	ug/L		102	50 - 150
Chrysene	3.34	3.86	J	ug/L		116	50 - 150
Dibenz(a,h)anthracene	3.34	3.33	J	ug/L		100	50 - 150
Fluoranthene	3.34	3.46	J	ug/L		104	50 - 150
Fluorene	3.34	3.49	J	ug/L		105	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.68	J	ug/L		110	50 - 150
1-Methylnaphthalene	3.34	3.10	J	ug/L		93	50 - 150
2-Methylnaphthalene	3.34	3.00	J	ug/L		90	50 - 150
Phenanthrene	3.34	3.49	J	ug/L		105	50 - 150
Pyrene	3.34	3.55	J	ug/L		107	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	101		15 - 150
Nitrobenzene-d5	81		50 - 150
Terphenyl-d14	100		43 - 147

Lab Sample ID: 400-269777-3 MS

Matrix: Water

Analysis Batch: 697964

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	ND		3.32	3.87	J	ug/L		116	50 - 150
Acenaphthylene	ND		3.32	3.50	J	ug/L		105	50 - 150
Anthracene	ND		3.32	3.80	J	ug/L		114	50 - 150
Benzo[a]anthracene	ND		3.32	3.70	J	ug/L		111	50 - 150
Benzo[a]pyrene	ND		3.32	3.75	J	ug/L		113	50 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: 400-269777-3 MS

Matrix: Water

Analysis Batch: 697964

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	ND		3.32	3.66	J	ug/L		110	50 - 150
Benzo[g,h,i]perylene	ND		3.32	3.61	J	ug/L		108	50 - 150
Benzo[k]fluoranthene	ND		3.32	3.88	J	ug/L		117	50 - 150
Chrysene	ND		3.32	4.00	J	ug/L		120	50 - 150
Dibenz(a,h)anthracene	ND		3.32	3.43	J	ug/L		103	50 - 150
Fluoranthene	ND		3.32	3.75	J	ug/L		113	50 - 150
Fluorene	ND		3.32	3.55	J	ug/L		107	50 - 150
Indeno[1,2,3-cd]pyrene	ND		3.32	3.87	J	ug/L		117	50 - 150
1-Methylnaphthalene	ND		3.32	3.54	J	ug/L		106	50 - 150
2-Methylnaphthalene	ND		3.32	3.21	J	ug/L		97	50 - 150
Phenanthrene	ND		3.32	3.66	J	ug/L		110	50 - 150
Pyrene	ND		3.32	3.88	J	ug/L		117	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	102		15 - 150
Nitrobenzene-d5	92		50 - 150
Terphenyl-d14	111		43 - 147

Lab Sample ID: 400-269777-3 MSD

Matrix: Water

Analysis Batch: 697964

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	ND		3.34	3.51	J	ug/L		105	50 - 150	10	40
Acenaphthylene	ND		3.34	3.36	J	ug/L		101	50 - 150	4	40
Anthracene	ND		3.34	3.45	J	ug/L		103	50 - 150	10	40
Benzo[a]anthracene	ND		3.34	3.42	J	ug/L		103	50 - 150	8	40
Benzo[a]pyrene	ND		3.34	3.41	J	ug/L		102	50 - 150	9	40
Benzo[b]fluoranthene	ND		3.34	3.26	J	ug/L		98	50 - 150	11	40
Benzo[g,h,i]perylene	ND		3.34	3.23	J	ug/L		97	50 - 150	11	40
Benzo[k]fluoranthene	ND		3.34	3.57	J	ug/L		107	50 - 150	8	40
Chrysene	ND		3.34	3.74	J	ug/L		112	50 - 150	7	40
Dibenz(a,h)anthracene	ND		3.34	3.13	J	ug/L		94	50 - 150	9	40
Fluoranthene	ND		3.34	3.41	J	ug/L		102	50 - 150	9	40
Fluorene	ND		3.34	3.45	J	ug/L		103	50 - 150	3	40
Indeno[1,2,3-cd]pyrene	ND		3.34	3.48	J	ug/L		104	50 - 150	11	40
1-Methylnaphthalene	ND		3.34	3.23	J	ug/L		97	50 - 150	9	40
2-Methylnaphthalene	ND		3.34	3.10	J	ug/L		93	50 - 150	3	40
Phenanthrene	ND		3.34	3.22	J	ug/L		96	50 - 150	13	40
Pyrene	ND		3.34	3.49	J	ug/L		105	50 - 150	11	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	100		15 - 150
Nitrobenzene-d5	91		50 - 150
Terphenyl-d14	106		43 - 147

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: MB 400-697722/1-A

Matrix: Water

Analysis Batch: 697898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.20	0.085	ug/L		01/28/25 14:25	01/29/25 16:56	1
Acenaphthylene	ND		0.20	0.047	ug/L		01/28/25 14:25	01/29/25 16:56	1
Anthracene	ND		0.20	0.073	ug/L		01/28/25 14:25	01/29/25 16:56	1
Benzo[a]anthracene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 16:56	1
Benzo[a]pyrene	ND		0.20	0.045	ug/L		01/28/25 14:25	01/29/25 16:56	1
Benzo[b]fluoranthene	ND		0.20	0.042	ug/L		01/28/25 14:25	01/29/25 16:56	1
Benzo[g,h,i]perylene	ND		0.20	0.052	ug/L		01/28/25 14:25	01/29/25 16:56	1
Benzo[k]fluoranthene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 16:56	1
Chrysene	ND		0.20	0.039	ug/L		01/28/25 14:25	01/29/25 16:56	1
Dibenz(a,h)anthracene	ND		0.20	0.044	ug/L		01/28/25 14:25	01/29/25 16:56	1
Fluoranthene	ND		0.20	0.032	ug/L		01/28/25 14:25	01/29/25 16:56	1
Fluorene	ND		0.20	0.087	ug/L		01/28/25 14:25	01/29/25 16:56	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.032	ug/L		01/28/25 14:25	01/29/25 16:56	1
1-Methylnaphthalene	ND		0.20	0.066	ug/L		01/28/25 14:25	01/29/25 16:56	1
2-Methylnaphthalene	ND		0.20	0.077	ug/L		01/28/25 14:25	01/29/25 16:56	1
Phenanthrene	ND		0.20	0.044	ug/L		01/28/25 14:25	01/29/25 16:56	1
Pyrene	ND		0.20	0.040	ug/L		01/28/25 14:25	01/29/25 16:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		15 - 150	01/28/25 14:25	01/29/25 16:56	1
Nitrobenzene-d5	87		50 - 150	01/28/25 14:25	01/29/25 16:56	1
Terphenyl-d14	108		43 - 147	01/28/25 14:25	01/29/25 16:56	1

Lab Sample ID: LCS 400-697722/2-A

Matrix: Water

Analysis Batch: 697898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	3.20		ug/L		96	50 - 150
Acenaphthylene	3.34	3.09		ug/L		93	50 - 150
Anthracene	3.34	3.51		ug/L		105	50 - 150
Benzo[a]anthracene	3.34	3.36		ug/L		101	50 - 150
Benzo[a]pyrene	3.34	3.45		ug/L		104	50 - 150
Benzo[b]fluoranthene	3.34	3.42		ug/L		102	50 - 150
Benzo[g,h,i]perylene	3.34	3.51		ug/L		105	50 - 150
Benzo[k]fluoranthene	3.34	3.58		ug/L		107	50 - 150
Chrysene	3.34	3.76		ug/L		113	50 - 150
Dibenz(a,h)anthracene	3.34	3.31		ug/L		99	50 - 150
Fluoranthene	3.34	3.31		ug/L		99	50 - 150
Fluorene	3.34	3.40		ug/L		102	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.80		ug/L		114	50 - 150
1-Methylnaphthalene	3.34	3.06		ug/L		92	50 - 150
2-Methylnaphthalene	3.34	3.08		ug/L		92	50 - 150
Phenanthrene	3.34	3.34		ug/L		100	50 - 150
Pyrene	3.34	3.42		ug/L		103	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	102		15 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

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

Lab Sample ID: LCS 400-697722/2-A

Matrix: Water

Analysis Batch: 697898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697722

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	84		50 - 150
Terphenyl-d14	99		43 - 147

Lab Sample ID: LCSD 400-697722/3-A

Matrix: Water

Analysis Batch: 697898

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	3.34	2.57		ug/L		77	50 - 150	22	40
Acenaphthylene	3.34	2.49		ug/L		75	50 - 150	22	40
Anthracene	3.34	3.09		ug/L		93	50 - 150	13	40
Benzo[a]anthracene	3.34	2.76		ug/L		83	50 - 150	20	40
Benzo[a]pyrene	3.34	2.93		ug/L		88	50 - 150	16	40
Benzo[b]fluoranthene	3.34	2.83		ug/L		85	50 - 150	19	40
Benzo[g,h,i]perylene	3.34	3.02		ug/L		91	50 - 150	15	40
Benzo[k]fluoranthene	3.34	3.00		ug/L		90	50 - 150	17	40
Chrysene	3.34	3.14		ug/L		94	50 - 150	18	40
Dibenz(a,h)anthracene	3.34	2.90		ug/L		87	50 - 150	13	40
Fluoranthene	3.34	2.86		ug/L		86	50 - 150	15	40
Fluorene	3.34	2.64		ug/L		79	50 - 150	25	40
Indeno[1,2,3-cd]pyrene	3.34	3.30		ug/L		99	50 - 150	14	40
1-Methylnaphthalene	3.34	2.21		ug/L		66	50 - 150	32	40
2-Methylnaphthalene	3.34	1.98	*1	ug/L		59	50 - 150	44	40
Phenanthrene	3.34	2.86		ug/L		86	50 - 150	15	40
Pyrene	3.34	2.97		ug/L		89	50 - 150	14	40

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	96		15 - 150
Nitrobenzene-d5	81		50 - 150
Terphenyl-d14	99		43 - 147

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-697799/1-A

Matrix: Water

Analysis Batch: 697883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/29/25 09:05	01/29/25 14:58	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/29/25 09:05	01/29/25 14:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		51 - 149	01/29/25 09:05	01/29/25 14:58	1

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269777-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCS 400-697799/2-A

Matrix: Water

Analysis Batch: 697883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697799

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
1,2-Dibromo-3-Chloropropane			0.101	0.0970		ug/L		96	60 - 140		
1,2-Dibromoethane			0.100	0.0927		ug/L		92	60 - 140		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene	94		51 - 149								

Lab Sample ID: LCSD 400-697799/3-A

Matrix: Water

Analysis Batch: 697883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697799

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limits		Limit
1,2-Dibromo-3-Chloropropane			0.101	0.0832		ug/L		83	60 - 140	9	30
1,2-Dibromoethane			0.100	0.101		ug/L		100	60 - 140	8	30
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
4-Bromofluorobenzene	90		51 - 149								

Lab Sample ID: 400-269777-3 MS

Matrix: Water

Analysis Batch: 697883

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697799

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2-Dibromo-3-Chloropropane	ND	F2	0.104	0.0749		ug/L		72	10 - 150		
1,2-Dibromoethane	ND	F2	0.104	0.0766		ug/L		74	39 - 150		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
4-Bromofluorobenzene	56		51 - 149								

Lab Sample ID: 400-269777-3 MSD

Matrix: Water

Analysis Batch: 697883

Client Sample ID: MW6D-ROX-012225

Prep Type: Total/NA

Prep Batch: 697799

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND	F2	0.134	0.0927	F2	ug/L		69	10 - 150	21	20
1,2-Dibromoethane	ND	F2	0.133	0.0967	F2	ug/L		72	39 - 150	23	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene	58		51 - 149								



☐ ACCOUNT () ☐ PALSCIENCE () ☒ ESTAMERICA (TestAmerica Pensacola; 3355 McLennore Dr. Pensacola, FL 32514 (850-474-1001)) ☐ Other ()		Print Bill To Contact Name: Melissa Remiger PO # 60738191 - 3.1.2 USPC/00114/R/02		PlanNet Site or Project ID 25278 GSAP Project ID USPC/00114/R/02		☐ CHECK IF NO INCIDENT # APPLIES DATE: 1/22/2025 PAGE: 2 of 2	
LAB Vendor # 1364589 (TestAmerica)		LOG CODE: SITE ADDRESS: Street and City 900 South Central Ave. ROXANA IL PHONE NO.: 314-802-1207 E-MAIL: melissa.remiger@aecom.com AECOM Project / Task Number: Roxana Quarterly GW 60738191 - 3.1.2 AECOM Other ID: Roxana 1025 Groundwater		AECOM Project / Task Number: Roxana Quarterly GW 60738191 - 3.1.2 AECOM Other ID: Roxana 1025 Groundwater		AECOM Project / Task Number: Roxana Quarterly GW 60738191 - 3.1.2 AECOM Other ID: Roxana 1025 Groundwater	
ADDRESS: 100 N. Broadway, 20th Floor, ST. LOUIS, MO 63102, USA PROJECT CONTACT (Hardcopy or PDF Report to): Melissa Remiger, Mary Massa, Brett Howell TELEPHONE: 314-429-0100 FAX: 314-429-0482 Bill To Contact E-MAIL: melissa.remiger@aecom.com		TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (14 DAY) ☐ LA - RWQCB REPORT FORMAT		RESULTS NEEDED ON WEEKEND ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS		FIELD NOTES:	
DELIVERABLES: ☐ LEVEL 1 ☒ LEVEL 2 ☐ LEVEL 3 ☒ LEVEL 4 ☐ OTHER (SPECIFY) EDD COOLER #1: Cooler #2: Cooler #3:		TEMPERATURE ON RECEIPT C°		TEMPERATURE ON RECEIPT C°		CONTAINER PID Readings or Laboratory Notes:	
SPECIAL INSTRUCTIONS OR NOTES: Email reports to: melissa.remiger@aecom.com; mary.massa@aecom.com; brett.howell@aecom.com * Include "J" values on Reports. * Provide sample receipt upon login. * Send EDDs to EDDSubmissions@aecomshell.com; Vlad.Virjan@aecom.com							
Field Sample Identification		SAMPLING DATE TIME		PRESERVATIVE HCL HNO3 H2SO4 NONE OTHER		NO. OF CONT.	
TB-ROX-012225-8260-B		1/22/2025 0000		Water 2		2	
TB-ROX-012225-8011-B		1/22/2025 0000		Water 2		2	
ROST4PZC-ROX-012225		1/22/2025 0910		Water 6		12	
ROST4PZG-ROX-012225		1/22/2025 1045		Water 6		12	
ROST4PZG-ROX-012225-DUP		1/22/2025 1045		Water 6		12	
MW11-ROX-012225		1/22/2025 1220		Water 6		12	
MW6A-ROX-012225		1/22/2025 1400		Water 6		12	
Relinquished by: (Signature) TONY JONES Relinquished by: (Signature)		Received by: (Signature) FEDEX: SEE PAGE 1 Received by: (Signature)		Date: 1/24/2025 Time: 1600		Date: 1/22/2025 Time: 8:22	
Relinquished by: (Signature)		Received by: (Signature)		Date: 1/25/25 Time: 11:22/25		Date: 1/25/25 Time: 11:22/25	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-269777-1

Login Number: 269777

List Source: Eurofins Pensacola

List Number: 1

Creator: Beecher (Roberts), Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C, 0.0°C IR8
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 containers received 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.	False	J-4 and D-11 arrived broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-269777-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269899-1

Site Name: Roxana

Prepared By and Date: Andrei Niculau 3/5/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/14//2025

Stage 2A Validation																							
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																		
		Pass	Fail ¹	N/A																			
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.																		
Holding Times	Analyses were performed within holding time.	X																					
Surrogate	Surrogate recoveries met acceptance criteria.	X																					
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X																					
Matrix Spike	MS recoveries met acceptance criteria.			X																			
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.		X																				
<table border="1"> <thead> <tr> <th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr> </thead> <tbody> <tr> <td>LCS/LCS 400-698271/2-A/3-A</td><td>SVOCs</td><td>3,3'-Dichlorobenzidine</td><td>162/149</td><td>8</td><td>10-150/40</td></tr> <tr> <td>LCS/LCS 400-698271/2-A/3-A</td><td>SVOCs</td><td>Pyridine</td><td>16/29</td><td>57</td><td>10-82/40</td></tr> </tbody> </table> Analytical data reported as non-detect and associated with LCS/LCSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPD alone outside evaluation criteria did not require qualification.						LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS/LCS 400-698271/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	162/149	8	10-150/40	LCS/LCS 400-698271/2-A/3-A	SVOCs	Pyridine	16/29	57	10-82/40
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria																		
LCS/LCS 400-698271/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	162/149	8	10-150/40																		
LCS/LCS 400-698271/2-A/3-A	SVOCs	Pyridine	16/29	57	10-82/40																		
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X																					
Laboratory Blank	Target analytes were not detected in the laboratory blank.		X																				

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation																	
Item Reviewed	Acceptable Criteria	Quality Condition			Comments												
		Pass	Fail ¹	N/A													
Method 8260D (VOCs)																	
<table><tr><th>Blank ID</th><th>Parameter</th><th>Analyte</th><th>Concentration/Amount</th></tr><tr><td>MB 400-698184/4</td><td>VOCs</td><td>2-Butanone (MEK)</td><td>2.61 µg/L</td></tr><tr><td>MB 400-698212/4</td><td>VOCs</td><td>Dibromochloromethane</td><td>0.245 µg/L</td></tr></table>						Blank ID	Parameter	Analyte	Concentration/Amount	MB 400-698184/4	VOCs	2-Butanone (MEK)	2.61 µg/L	MB 400-698212/4	VOCs	Dibromochloromethane	0.245 µg/L
Blank ID	Parameter	Analyte	Concentration/Amount														
MB 400-698184/4	VOCs	2-Butanone (MEK)	2.61 µg/L														
MB 400-698212/4	VOCs	Dibromochloromethane	0.245 µg/L														
Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.																	
Detection Limits ²	No results were reported as non-detect at elevated detection limits.		X		Analytes were detected in samples that were diluted.												
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X															
Usability	No results qualified as unusable.	X															
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.												

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.				
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria.		X		
Analytical data reported as non-detect and associated with ICV/CCV %D recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Method 8260D (VOCs) The continuous calibration verification (CCV) for vinyl chloride was outside evaluation criteria, biased low. The associated results for samples MW25-ROX-012725, MW25-ROX-012725 DUP, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725, MW7-ROX-012725 were qualified as estimated (UJ). Equipment blanks and trip blanks are quality control samples that do not require qualification. The continuous calibration verification (CCV) for chloromethane, vinyl chloride, chloroethane, acrolein, and bromoform was outside evaluation criteria, biased low. The associated results for sample MW4-ROX-012725 were qualified as estimated (UJ). Method 8270E (VOCs) The continuous calibration verification (CCV) for dibenz[a,h]acridine was outside evaluation criteria, biased low. The associated results for samples MW25-ROX-012725, MW25-ROX-012725 DUP, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725, MW7-ROX-012725, and MW4-ROX-012725 were qualified as estimated (UJ). Method 8011 (VOCs by 8011) The continuous calibration verification (CCV) for 1,2-dibromo-3-chloropropane was outside evaluation criteria, biased low. The associated results for samples MW25-ROX-012725, MW25-ROX-012725 DUP, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725, MW7-ROX-012725, and MW4-ROX-012725 were qualified as estimated (UJ).					
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115%			X	

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.				
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269899-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/13/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 12/05/2024

Stage 2A Validation																							
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																		
		Pass	Fail ¹	N/A																			
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems.																		
Holding Times	Analyses were performed within holding time.	X																					
The samples were in good condition and were received and maintained at temperatures of $\leq 6^{\circ}\text{C}$ and were extracted within seven days of collection and analyzed within 40 days of extraction.																							
Surrogate	Surrogate recoveries met acceptance criteria.	X																					
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted.																							
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X																					
Field duplicates are used to assess the field precision. Samples MW25-ROX-012725 / MW25-ROX-012725-DUP and P93A-ROX-012725/ P93A-ROX-012725-DUP were the field duplicate samples in this data set.																							
Field duplicate results were within the evaluation criteria of $< 25\%$ relative percent difference (RPD) when both results are $> 5x$ the quantitation limit (QL) or $< 2x$ the QL when one or both results is $< 5x$ QL.																							
Matrix Spike	MS recoveries met acceptance criteria.			X	The validated samples in this SDG were not chosen for an MS/MSD analysis.																		
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.		X																				
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LCS/LCS 400-698271/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	162/149	8	10-150/40																		
LCS/LCS 400-698271/2-A/3-A	SVOCs	Pyridine	16/29	57	10-82/40																		
Analytical data that required qualification based on LCS/LCSD data are referenced below. Analytical data reported as non-detect and associated with LCS/LCSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Analytical data associated with LCS/LCSD RPD alone outside evaluation criteria did not require qualification.																							

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Approximately 10% of the laboratory control spike recoveries were recalculated, and the summary forms versus the raw data were verified. No calculation or transcription errors were noted.					
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X			
One equipment blank was analyzed is to evaluate the existence and magnitude of contamination emanating from field activities. Target compounds were reported as non-detect. No qualification of data was required.					
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X			
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Analytes were detected in samples that were diluted.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			Evaluation of the analytical data followed procedures outlined in the USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review (EPA 2020) and USEPA CLP NFG for Organic Superfund Methods Data Review (January 2017) when 2017 criteria was more stringent.
Usability	No results qualified as unusable.	X			
Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy and precision, based on LCS and surrogate data, were achieved for this SDG.					
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria	X			
An ICAL was established to assess whether the instrument was capable of producing acceptable qualitative and quantitative data for semi-volatile analysis. SVOC samples as part of 400-269899-1 were analyzed using instruments Snoopy. PAH samples were analyzed using instrument Momo and was established on 01/04/2025. The ICAL for instrument Snoopy was established on 12/19/2024. ICALs for instruments Snoopy and Momo were established prior to sample analysis and using at least five concentration standards to establish the initial calibration curve as required by Method 8270E and 8270E Low Level. An average response factor (RF) was determined for each target compound, and the RFs were reviewed and verified as greater than the minimum RF as specified in Method 8270E. Review of the initial calibration summary forms for SVOCs and PAHs indicated target compounds had percent relative standard deviations (%RSDs) $\leq$ the maximum RSD of $< 20\%$ specified in Method 8270E. Linear regression or quadratic equations were applied to data for select target analytes and the resulting correlation coefficients (r) were greater than 0.990.					
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.	X			
GC/MS instrument performance checks were performed to ensure mass resolution, identification, and instrument sensitivity. Criteria for evaluation of instrument performance included possible transcription/calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. Instrument performance check samples were evaluated against criteria established in USEPA SW-846 Method 8270E. Based on the raw data, the ion abundance criteria were within evaluation criteria for all masses, therefore; no qualification of the data was required. The raw data forms were checked against the summary forms and no calculation or transcription errors were noted.					
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analyte at the specified frequency and appropriate concentrations.		X		

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	Organics The associated percent difference (%D) was within method criteria.				

An initial calibration verification (ICV) was analyzed following the initial calibration. Percent difference (%D) values from comparing ICV RF to the average ICAL RFs were within the Method 8270E quality control criteria with the following exceptions.

CV (Date/Time)	Compound	%D
ICV 400-694707/21 12/19/2024 17:22	3,3'-Dichlorobenzidine	67.8
Associated samples: MW4-ROX-012725-EB, MW4-ROX-012725, MW25-ROX-012725, MW25-ROX-012725-DUP, MW7-ROX-012725, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725		

Analytical data reported as non-detect and associated with ICV results above evaluation criteria, indicating a possible high bias, did not require qualification. Equipment blanks are quality control samples and do not require qualification.

Review of continuing calibration summary forms for SVOCs and PAHs indicated all RFs met the evaluation criteria of greater than the method specified minimum RF for all target compounds. In addition, %Ds met the evaluation criteria of < 20% specified in Method 8270E with the exceptions summarized in the table below.

CV (Date/Time)	Compound	%D
CCVIS 400-698584/3 02/06/2025 10:48	1,4-Dioxane	32.5
	4,6-Dinitro-ortho-cresol	34.4
	1,2-Diphenylhydrazine (as Azobenzene)	22.8
	Di-n-butyl phthalate	24.6
CCV 400-698584/5 02/06/2025 11:34	Dibenz[a,h]acridine	-27.5
CCV 400-698584/6 02/06/2025 11:56	Benzenethiol	48.8
Associated samples: MW4-ROX-012725-EB, MW4-ROX-012725, MW25-ROX-012725, MW25-ROX-012725-DUP, MW7-ROX-012725, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725		

The associated results for dibenz[a,h]acridine were qualified as estimated (UJ). Analytical data reported as non-detect and associated with CV results above evaluation criteria, indicating a possible high bias, did not require qualification. Equipment blanks are quality control samples and do not require qualification.

Recalculations of the RFs and %Ds for two target compounds were completed for each CV, and no errors in calculation were noted.

Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions			X	

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.				
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			The summary forms versus the raw data were verified and no transcription errors were noted.
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.	X			
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method	X			
For validation of the compound identification, method specified compound identification criteria were reviewed in approximately 10% of the samples. No anomalies were noted with the identification of the target compounds in the samples. For the validation of compound quantitation, 10% of the samples were recalculated from the raw data, and no calculation errors were noted. Additionally, the reporting limits (RLs) were verified to determine if RLs were adjusted for dilutions. No qualification of the data was required, and review of the data indicated the correct RLs were reported.					

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269899-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/13/2025

Event Reviewed: 1st Quarter 2025

Reviewed By and Date: Delaine Austin 3/17/2025

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.
Holding Times	Analyses were performed within holding time.	X			
The samples were received in good condition at a temperature of 0° C and maintained at ≤ 6°C. In addition, the samples were analyzed within 14 days of collection at a pH < 2.0. No qualification of data was required.					
Surrogate	Surrogate recoveries met acceptance criteria.	X			
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted.					
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X			
Field duplicates are used to assess the field precision. Samples MW25-ROX-012725 / MW25-ROX-012725-DUP and P93A-ROX-012725/ P93A-ROX-012725-DUP were the field duplicate samples in this data set. Field duplicate results were within the evaluation criteria of < 25% relative percent difference (RPD) when both results are > 5x the quantitation limit (QL) or < 2x the QL when one or both results is <5x QL.					
Matrix Spike	MS recoveries met acceptance criteria.			X	The validated samples in this SDG were not chosen for an MS/MSD analysis.
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.	X			
Approximately 10% of spiking compound recoveries for the LCS were recalculated and verified using the LCS summary forms, and no calculation or transcription errors were noted.					
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X			
Two trip blanks were analyzed to evaluate the existence and magnitude of contamination problems emanating from sample shipment to the laboratory. Target compounds were reported as non-detect. No qualification of data was required.					

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation													
Item Reviewed	Acceptable Criteria	Quality Condition			Comments								
		Pass	Fail ¹	N/A									
One equipment blank was analyzed to evaluate the existence and magnitude of contamination emanating from field activities. Target compounds were reported as non-detect. No qualification of data was required.													
Laboratory Blank	Target analytes were not detected in the laboratory blank.		X										
The purpose of the method blank samples is to evaluate the existence and magnitude of contamination problems emanating from laboratory activities. Method blank samples were analyzed with each analytical batch as required by USEPA SW-846 Method 8260D. All target compounds were reported as non-detect with the exception below.													
<table><tr><th>Blank ID</th><th>Parameter</th><th>Analyte</th><th>Concentration/Amount</th></tr><tr><td>MB 400-698184/4</td><td>VOCs</td><td>2-Butanone (MEK)</td><td>2.61 µg/L</td></tr></table>						Blank ID	Parameter	Analyte	Concentration/Amount	MB 400-698184/4	VOCs	2-Butanone (MEK)	2.61 µg/L
Blank ID	Parameter	Analyte	Concentration/Amount										
MB 400-698184/4	VOCs	2-Butanone (MEK)	2.61 µg/L										
Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.													
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Analytes were detected in samples that were diluted.								
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			Evaluation of the analytical data followed procedures outlined in the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review</i> (EPA 2020) and <i>USEPA CLP NFG for Organic Superfund Methods Data Review</i> (January 2017) when 2017 criteria was more stringent.								
Usability	No results qualified as unusable.	X											
Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy and precision, based on LCS and surrogate data, were achieved for this SDG.													
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.								

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria	X			
An ICAL was established to assess whether the instrument could produce acceptable qualitative and quantitative data for volatiles analyses. Validated samples included in this SDG were analyzed using instrument Brutus. The ICAL for instrument Brutus was established on 01/10/2025. At least five standard concentrations were used to establish the ICAL curve as required by USEPA SW-846 Method 8260D. The ICAL response factors (RFs) were reviewed and were greater than 0.01 for chloromethane, 0.30 for 1,1-dichloroethane, 0.10 for bromoform, 0.40 for chlorobenzene, 0.20 for 1,1,2,2-tetrachloroethane, and greater than NFG (2017) specified minimum RRFs for all other target analytes. No qualification of data was required. Review of the initial calibration summary forms indicated %RSDs were $\leq 30\%$ for calibration check compounds (CCCs) [1,1-dichloroethene, toluene, chloroform, ethylbenzene, 1,2-dichloropropane, and vinyl chloride], and $\leq 15\%$ for non-CCCs. The initial calibration for compounds with %RSD values $>15\%$ was determined using least square linear regression: correlation coefficients (r) were greater than 0.990.					
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.	X			
GC/MS instrument performance checks were performed to ensure mass resolution, identification, and instrument sensitivity. Criteria for evaluation of instrument performance included possible transcription/calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. Instrument performance check samples were evaluated against criteria established in USEPA SW-846 Method 8260D. Based on the summary forms, the ion abundance criteria were within evaluation criteria for all masses. No data qualifications were required based on instrument performance criteria.					
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analyte at the specified frequency and appropriate concentrations.		X		

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	Organics The associated percent difference (%D) was within method criteria.				

An initial calibration verification (ICV) was analyzed following the ICAL. Percent difference (%D) values from comparing ICV RF to the average ICAL RFs were within criteria specified in NFG (2017).

Review of CV summary forms indicated RFs met the evaluation criteria of greater than 0.10 for chloromethane, 0.10 for 1,1-dichloroethane, 0.10 for bromoform, 0.30 for chlorobenzene, and 0.30 for 1,1,2,2-tetrachloroethane. No qualification of data was required.

Percent differences or percent drifts (%D) met the evaluation criteria of $\leq 20\%$ for target analytes with the following exception.

CCV (Date and Time)	Compound	%D
CCVIS 400-698184/2 02/01/2025 09:36	Vinyl chloride	-21.1
Associated samples: TB-ROX-012725-8260-A, MW4-ROX-012725-EB, TB-ROX-012725-8260-B, MW25-ROX-012725, MW25-ROX-012725-DUP		
CCVIS 400-698212/2 02/02/2025 09:48	Vinyl chloride	-23.4
Associated samples: P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725, MW7-ROX-012725		
CCVIS 400-698252/2 02/03/2025 09:57	Chloromethane	-22.5
	Vinyl chloride	-27.9
	Chloroethane	-21.2
	Acrolein	-22.7
	Bromoform	-21.2
Associated samples: MW4-ROX-012725		

The associated results for vinyl chloride were qualified as estimated (UJ). Equipment blanks and trip blanks are quality control samples and do not require qualification.

The continuous calibration verification (CCV) for chloromethane, vinyl chloride, chloroethane, acrolein, and bromoform was outside evaluation criteria, biased low. The associated results for sample MW4-ROX-012725 were qualified as estimated (UJ).

Recalculations of the RFs and %Ds for select target compounds were completed for each CV, and no errors in calculation were noted.

Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution.			X	

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	Interferent elements were not present in the samples at concentrations greater than those in the ICSs.				
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			The summary forms versus the raw data were verified and no transcription errors were noted.
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.	X			
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method	X			
For validation of the compound identification, chromatograms were reviewed to verify the major peaks were identified, and the relative retention time was no greater than 0.06 minutes different from the associated CV retention times. Approximately 10% of the detected target analytes were verified. No anomalies were noted with the identification of the target compounds in the samples. For the validation of compound quantitation, approximately 10% of the detected target analytes were recalculated from the raw data, and no calculation errors were noted. Additionally, the RLs were verified to determine if RLs were adjusted for dilutions. No qualification to the data was required and review of the data indicated the correct RLs were reported.					

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-269899-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/13/2025

Event Reviewed: 1st Quarter 2025

Reviewed By and Date: Delaine Austin 3/17/2025

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems.
Holding Times	Analyses were performed within holding time.	X			
The samples were received in good condition and were received and maintained at temperatures of $\leq 6^{\circ}\text{C}$. In addition, the samples were analyzed within 14 days of collection. No qualifications to the data were required based on holding times and sample preservation.					
Surrogate	Surrogate recoveries met acceptance criteria.	X			
Approximately 10% of the recoveries were recalculated and no calculation or transcription errors were noted.					
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.	X			
Field duplicates are used to assess the field precision. Samples MW25-ROX-012725 / MW25-ROX-012725-DUP and P93A-ROX-012725/ P93A-ROX-012725-DUP were the field duplicate samples in this data set. Target compounds were not detected in either sample of both field duplicate pairs. Field duplicate precision was deemed acceptable.					
Matrix Spike	MS recoveries met acceptance criteria.			X	The validated samples in this SDG were not chosen for an MS/MSD analysis.
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.	X			
Approximately 10% of the recoveries were recalculated, and no calculation or transcription errors were noted.					
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X			
Two trip blanks were analyzed to evaluate the existence and magnitude of contamination problems emanating from sample shipment to the laboratory. Target compounds were reported as non-detect. No qualification of data was required.					
One equipment blank was analyzed to evaluate the existence and magnitude of contamination emanating from field activities. Target compounds were reported as non-detect. No qualification of data was required.					
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X			

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
The purpose of the method blank samples is to evaluate the existence and magnitude of contamination problems emanating from laboratory activities. Method blank samples were analyzed with each analytical batch as required by USEPA SW-846 Method 8011. Target compounds were reported as non-detect in all blanks. No qualification of data was required.					
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			Evaluation of the analytical data followed procedures outlined in the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review</i> (EPA 2020) and <i>USEPA CLP NFG for Organic Superfund Methods Data Review</i> (January 2017) when 2017 criteria was more stringent.
Usability	No results qualified as unusable.	X			
Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy and precision, based on LCS and surrogate data, were achieved for this SDG.					
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria	X			
An ICAL was established to assess whether the instrument was capable of producing acceptable qualitative and quantitative data for EDB/DBCP analyses. Validated samples included in this SDG were analyzed using instrument Toto. The ICAL for instrument Toto was established on 01/24/2025. At least five standard concentrations were used to establish the ICAL curve as required by Method 8011. Review of the ICAL summary forms indicated percent relative standard deviations (%RSDs) were $\leq 15\%$ for target compounds or were determined using linear regression and correlation coefficients (r^2) were greater than 0.990. A recalculation of the weighted linear regression was performed from the raw data and no errors in calculation were noted. Summary forms and raw data are provided for the primary column only since all target compounds were reported as non-detect in the samples and did not require confirmation.					
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analyte at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria.		X		
Review of the summary forms indicated that an initial calibration verification (ICV) was performed following the initial calibration. Review of ICV summary forms indicated percent differences (%Ds) were within the evaluation criterion of $\leq 30\%$ for both target compounds. No qualification of data was required.					

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation																										
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																					
		Pass	Fail ¹	N/A																						
Review of the CV summary forms indicated that all CVs were performed before the start of sample analysis, every ten sample injections, and at the end of sample analysis. %Ds met the evaluation criteria of ≤ 15% for both target compounds with the exceptions summarized in the table below.																										
<table><tr><th>CCV (Date and Time)</th><th>Compound</th><th>%D</th></tr><tr><td>CCV 400-697957/19-A 01/30/2025 14:51</td><td>1,2-Dibromo-3-chloropropane</td><td>-51.5</td></tr><tr><td colspan="3">Associated samples: TB-ROX-012725-8011-A, MW4-ROX-012725-EB, MW4-ROX-012725, MW25-ROX-012725</td></tr><tr><td>CCV 400-697957/20-A 01/30/2025 18:44</td><td>1,2-Dibromo-3-chloropropane</td><td>-19.3</td></tr><tr><td colspan="3">Associated samples: TB-ROX-012725-8011-A, MW4-ROX-012725-EB, MW4-ROX-012725, MW25-ROX-012725, MW25-ROX-012725-DUP, MW7-ROX-012725, TB-ROX-012725-8011-B, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725</td></tr><tr><td>CCV 400-697957/19-A 01/30/2025 21:55</td><td>1,2-Dibromo-3-chloropropane</td><td>-32.8</td></tr><tr><td colspan="3">Associated samples: MW25-ROX-012725-DUP, MW7-ROX-012725, TB-ROX-012725-8011-B, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725</td></tr></table>						CCV (Date and Time)	Compound	%D	CCV 400-697957/19-A 01/30/2025 14:51	1,2-Dibromo-3-chloropropane	-51.5	Associated samples: TB-ROX-012725-8011-A, MW4-ROX-012725-EB, MW4-ROX-012725, MW25-ROX-012725			CCV 400-697957/20-A 01/30/2025 18:44	1,2-Dibromo-3-chloropropane	-19.3	Associated samples: TB-ROX-012725-8011-A, MW4-ROX-012725-EB, MW4-ROX-012725, MW25-ROX-012725, MW25-ROX-012725-DUP, MW7-ROX-012725, TB-ROX-012725-8011-B, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725			CCV 400-697957/19-A 01/30/2025 21:55	1,2-Dibromo-3-chloropropane	-32.8	Associated samples: MW25-ROX-012725-DUP, MW7-ROX-012725, TB-ROX-012725-8011-B, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725		
CCV (Date and Time)	Compound	%D																								
CCV 400-697957/19-A 01/30/2025 14:51	1,2-Dibromo-3-chloropropane	-51.5																								
Associated samples: TB-ROX-012725-8011-A, MW4-ROX-012725-EB, MW4-ROX-012725, MW25-ROX-012725																										
CCV 400-697957/20-A 01/30/2025 18:44	1,2-Dibromo-3-chloropropane	-19.3																								
Associated samples: TB-ROX-012725-8011-A, MW4-ROX-012725-EB, MW4-ROX-012725, MW25-ROX-012725, MW25-ROX-012725-DUP, MW7-ROX-012725, TB-ROX-012725-8011-B, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725																										
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Associated samples: MW25-ROX-012725-DUP, MW7-ROX-012725, TB-ROX-012725-8011-B, P93C-ROX-012725, P93A-ROX-012725, P93A-ROX-012725-DUP, P58-ROX-012725, P93B-ROX-012725																										
The associated results for 1,2-dibromo-3-chloropropane were qualified as estimated (UJ). Trip blanks and Equipment blanks are quality control samples and do not require qualification.																										
Summary forms and raw data are provided for the primary column only since all target compounds were reported as non-detect in the samples and did not require confirmation.																										
Recalculations of the %D for one target compound was completed for the CV, and no errors in calculation were noted.																										
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X																						
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X																						
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			The summary forms versus the raw data were verified and no transcription errors were noted.																					
Second Column/Detector Confirmation Results	The reported results agreed with an RPD <40% between			X																						

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	the primary and confirmation columns.				
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.	X			
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method	X			
For validation of the compound identification, chromatograms were reviewed to verify the major peaks were identified, and the relative retention time was no greater than 0.06 minutes different from the associated CV retention times. Target compounds were not detected in any of the investigative groundwater samples in this data set. For the validation of compound quantitation, the LCS results were recalculated from the raw data since all target compounds were non-detect, and no calculation errors were noted. Additionally, the reporting limits (RLs) were verified to determine if RLs were adjusted for dilutions when applicable.					

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.



ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/10/2025 9:45:02 AM

JOB DESCRIPTION

ROXANA QUARTERLY GW 1Q25

JOB NUMBER

400-269899-1

Reviewed 3/4/2025
AN

Eurofins Pensacola

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 Southeast, LLC Project Manager.

Authorization



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Authorized for release by
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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Job ID: 400-269899-1

Eurofins Pensacola

Job Narrative 400-269899-1

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 1/28/2025 9:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.0°C and 2.1°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-698184 recovered outside acceptance criteria, low biased, for Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW25-ROX-012725 (400-269899-5) and MW25-ROX-012725-DUP (400-269899-6). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-698212 recovered outside acceptance criteria, low biased, for Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW7-ROX-012725 (400-269899-7), P93C-ROX-012725 (400-269899-10), P93A-ROX-012725 (400-269899-11), P93A-ROX-012725-DUP (400-269899-12), P58-ROX-012725 (400-269899-13) and P93B-ROX-012725 (400-269899-14). Elevated reporting limits (RLs) are provided.

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid : MW7-ROX-012725 (400-269899-7), P93C-ROX-012725 (400-269899-10), P93A-ROX-012725 (400-269899-11), P93A-ROX-012725-DUP (400-269899-12), P58-ROX-012725 (400-269899-13) and P93B-ROX-012725 (400-269899-14). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and acrylonitrile, acid-labile compounds that degrades in an acidic medium.

Method 8260D: The method blank for analytical batch 400-698212 contained Chlorodibromomethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid : MW4-ROX-012725 (400-269899-4). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and acrylonitrile, which are acid-labile compounds that degrades in an acidic medium.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-698252 recovered outside acceptance criteria, low biased, for Acrolein, Bromoform, Chloroethane, Chloromethane and Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-012725-8260-A (400-269899-1), MW4-ROX-012725-EB (400-269899-3), MW25-ROX-012725 (400-269899-5), MW25-ROX-012725-DUP (400-269899-6) and TB-ROX-012725-8260-B (400-269899-8). The requested target analyte list includes 2-chloroethyl vinyl ether, Acrolein and

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Job ID: 400-269899-1 (Continued)

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Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

Method 8260D: The method blank for analytical batch 400-698184 contained 2-Butanone (MEK) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC/MS Semi VOA

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-694707 was outside method criteria for the following analyte(s): 3,3'-Dichlorobenzidine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698584 recovered above the upper control limit for 1,4-Dioxane, Di-n-butyl phthalate, 1,2-Diphenylhydrazine (as Azobenzene) and 4,6-Dinitro-ortho-cresol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698584 recovered above the upper control limit for Benzenethiol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698584 recovered outside acceptance criteria, low biased, for Dibenz[a,h]acridine. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270E: The laboratory control sample (LCS) for preparation batch 400-698271 and analytical batch 400-698584 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-698271 and analytical batch 400-698584 recovered outside control limits for the following analytes: Pyridine.

Method 8270E_QQQ: The following sample was diluted to bring the concentration of target analytes within the calibration range: P58-ROX-012725 (400-269899-13). 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 Semi VOA

Method 8011: The continuing calibration verification (CCV) associated with batch 400-698015 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269899-1	TB-ROX-012725-8260-A	Water	01/27/25 00:00	01/28/25 09:24
400-269899-2	TB-ROX-012725-8011-A	Water	01/27/25 00:00	01/28/25 09:24
400-269899-3	MW4-ROX-012725-EB	Water	01/27/25 08:30	01/28/25 09:24
400-269899-4	MW4-ROX-012725	Water	01/27/25 09:55	01/28/25 09:24
400-269899-5	MW25-ROX-012725	Water	01/27/25 11:30	01/28/25 09:24
400-269899-6	MW25-ROX-012725-DUP	Water	01/27/25 11:30	01/28/25 09:24
400-269899-7	MW7-ROX-012725	Water	01/27/25 13:15	01/28/25 09:24
400-269899-8	TB-ROX-012725-8260-B	Water	01/27/25 00:00	01/28/25 09:24
400-269899-9	TB-ROX-012725-8011-B	Water	01/27/25 00:00	01/28/25 09:24
400-269899-10	P93C-ROX-012725	Water	01/27/25 09:40	01/28/25 09:24
400-269899-11	P93A-ROX-012725	Water	01/27/25 10:40	01/28/25 09:24
400-269899-12	P93A-ROX-012725-DUP	Water	01/27/25 10:40	01/28/25 09:24
400-269899-13	P58-ROX-012725	Water	01/27/25 12:00	01/28/25 09:24
400-269899-14	P93B-ROX-012725	Water	01/27/25 13:15	01/28/25 09:24

Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: TB-ROX-012725-8260-A

Lab Sample ID: 400-269899-1

No Detections.

Client Sample ID: TB-ROX-012725-8011-A

Lab Sample ID: 400-269899-2

No Detections.

Client Sample ID: MW4-ROX-012725-EB

Lab Sample ID: 400-269899-3

No Detections.

Client Sample ID: MW4-ROX-012725

Lab Sample ID: 400-269899-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		1.0	0.50	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	2.2		1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: MW25-ROX-012725

Lab Sample ID: 400-269899-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - DL	650000		5000	2500	ug/L	5000		8260D	Total/NA
2,4-Dimethylphenol	11		9.5	4.9	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	41		19	4.4	ug/L	1		8270E	Total/NA
Phenol	310		9.5	4.0	ug/L	1		8270E	Total/NA
Acenaphthene	0.11	J	10	0.085	ug/L	1		8270E	Total/NA
Fluoranthene	0.27	J	10	0.032	ug/L	1		8270E	Total/NA
Fluorene	0.17	J	10	0.087	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	7.5	J	10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	7.9	J	10	0.077	ug/L	1		8270E	Total/NA
Phenanthrene	0.47	J	10	0.044	ug/L	1		8270E	Total/NA
Pyrene	0.16	J	10	0.040	ug/L	1		8270E	Total/NA

Client Sample ID: MW25-ROX-012725-DUP

Lab Sample ID: 400-269899-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - DL	610000		5000	2500	ug/L	5000		8260D	Total/NA
2,4-Dimethylphenol	9.7		9.3	4.9	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	42		19	4.3	ug/L	1		8270E	Total/NA
Phenol	340		9.3	3.9	ug/L	1		8270E	Total/NA
Acenaphthene	0.10	J	10	0.086	ug/L	1		8270E	Total/NA
Fluorene	0.11	J	10	0.088	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	8.6	J	10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	9.2	J	10	0.078	ug/L	1		8270E	Total/NA

Client Sample ID: MW7-ROX-012725

Lab Sample ID: 400-269899-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	390000		2000	1000	ug/L	2000		8260D	Total/NA
Phenol	32		9.7	4.1	ug/L	1		8270E	Total/NA
Acenaphthene	0.51	J	10	0.085	ug/L	1		8270E	Total/NA
Anthracene	0.094	J	10	0.073	ug/L	1		8270E	Total/NA
Fluorene	0.39	J	10	0.087	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	5.9	J	10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	7.6	J	10	0.077	ug/L	1		8270E	Total/NA
Phenanthrene	1.4	J	10	0.044	ug/L	1		8270E	Total/NA
Pyrene	0.17	J	10	0.040	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: TB-ROX-012725-8260-B

Lab Sample ID: 400-269899-8

No Detections.

Client Sample ID: TB-ROX-012725-8011-B

Lab Sample ID: 400-269899-9

No Detections.

Client Sample ID: P93C-ROX-012725

Lab Sample ID: 400-269899-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13000		100	50	ug/L	100		8260D	Total/NA
Phenol	27		9.9	4.2	ug/L	1		8270E	Total/NA

Client Sample ID: P93A-ROX-012725

Lab Sample ID: 400-269899-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	40000		200	100	ug/L	200		8260D	Total/NA
Phenol	200		9.7	4.1	ug/L	1		8270E	Total/NA
Acenaphthene	0.24	J	10	0.085	ug/L	1		8270E	Total/NA
Fluorene	0.17	J	10	0.087	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	5.6	J	10	0.066	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.53	J	10	0.077	ug/L	1		8270E	Total/NA
Phenanthrene	0.049	J	10	0.044	ug/L	1		8270E	Total/NA

Client Sample ID: P93A-ROX-012725-DUP

Lab Sample ID: 400-269899-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	40000		200	100	ug/L	200		8260D	Total/NA
Phenol	190		9.5	4.0	ug/L	1		8270E	Total/NA
Acenaphthene	0.12	J	10	0.086	ug/L	1		8270E	Total/NA
Acenaphthylene	0.055	J	10	0.048	ug/L	1		8270E	Total/NA
Fluorene	0.18	J	10	0.088	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	6.5	J	10	0.067	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.64	J	10	0.078	ug/L	1		8270E	Total/NA
Phenanthrene	0.062	J	10	0.045	ug/L	1		8270E	Total/NA

Client Sample ID: P58-ROX-012725

Lab Sample ID: 400-269899-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	230000		2000	1000	ug/L	2000		8260D	Total/NA
2,4-Dimethylphenol	16		10	5.2	ug/L	1		8270E	Total/NA
3 & 4 Methylphenol	29		20	4.6	ug/L	1		8270E	Total/NA
Phenol	210		10	4.2	ug/L	1		8270E	Total/NA
Acenaphthene	1.7	J	10	0.086	ug/L	1		8270E	Total/NA
Acenaphthylene	0.31	J	10	0.047	ug/L	1		8270E	Total/NA
Anthracene	0.14	J	10	0.073	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.20	J	10	0.040	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.25	J	10	0.045	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.15	J	10	0.042	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.11	J	10	0.052	ug/L	1		8270E	Total/NA
Chrysene	0.39	J	10	0.039	ug/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.059	J	10	0.044	ug/L	1		8270E	Total/NA
Fluoranthene	0.11	J	10	0.032	ug/L	1		8270E	Total/NA
Fluorene	2.5	J	10	0.088	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.039	J	10	0.032	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	56		10	0.078	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: AECOM

Job ID: 400-269899-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: P58-ROX-012725 (Continued)

Lab Sample ID: 400-269899-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1.6	J	10	0.044	ug/L	1		8270E	Total/NA
Pyrene	0.50	J	10	0.040	ug/L	1		8270E	Total/NA
1-Methylnaphthalene - DL	90		50	0.33	ug/L	5		8270E	Total/NA

Client Sample ID: P93B-ROX-012725

Lab Sample ID: 400-269899-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	460000		2000	1000	ug/L	2000		8260D	Total/NA
Phenol	120		9.6	4.0	ug/L	1		8270E	Total/NA
1-Methylnaphthalene	0.21	J	10	0.067	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.16	J	10	0.078	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: TB-ROX-012725-8260-A

Lab Sample ID: 400-269899-1

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/01/25 15:54	1
Acrolein	ND		20	3.3	ug/L			02/01/25 15:54	1
Acrylonitrile	ND		10	2.8	ug/L			02/01/25 15:54	1
Benzene	ND		1.0	0.50	ug/L			02/01/25 15:54	1
Bromobenzene	ND		1.0	0.54	ug/L			02/01/25 15:54	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/01/25 15:54	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/01/25 15:54	1
Bromoform	ND		5.0	0.25	ug/L			02/01/25 15:54	1
Bromomethane	ND		1.0	0.98	ug/L			02/01/25 15:54	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/01/25 15:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/25 15:54	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/01/25 15:54	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/01/25 15:54	1
Chloroethane	ND		1.0	0.76	ug/L			02/01/25 15:54	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/01/25 15:54	1
Chloroform	ND		1.0	0.90	ug/L			02/01/25 15:54	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/01/25 15:54	1
Chloromethane	ND		1.0	0.40	ug/L			02/01/25 15:54	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/01/25 15:54	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/01/25 15:54	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/01/25 15:54	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/01/25 15:54	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/01/25 15:54	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/01/25 15:54	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/01/25 15:54	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/01/25 15:54	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/01/25 15:54	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/01/25 15:54	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 15:54	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 15:54	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 15:54	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/01/25 15:54	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/01/25 15:54	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/01/25 15:54	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/01/25 15:54	1
2-Hexanone	ND		25	4.3	ug/L			02/01/25 15:54	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/01/25 15:54	1
Methylene bromide	ND		5.0	0.22	ug/L			02/01/25 15:54	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/01/25 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/01/25 15:54	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/01/25 15:54	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/01/25 15:54	1
Naphthalene	ND		5.0	3.0	ug/L			02/01/25 15:54	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/01/25 15:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/01/25 15:54	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/01/25 15:54	1
o-Xylene	ND		5.0	3.0	ug/L			02/01/25 15:54	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/01/25 15:54	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/01/25 15:54	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: TB-ROX-012725-8260-A

Lab Sample ID: 400-269899-1

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/01/25 15:54	1
Styrene	ND		1.0	1.0	ug/L			02/01/25 15:54	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/01/25 15:54	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/01/25 15:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/01/25 15:54	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/01/25 15:54	1
Toluene	ND		1.0	0.90	ug/L			02/01/25 15:54	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/01/25 15:54	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/01/25 15:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/01/25 15:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/01/25 15:54	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/01/25 15:54	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/01/25 15:54	1
Trichloroethene	ND		1.0	0.15	ug/L			02/01/25 15:54	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/01/25 15:54	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/01/25 15:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/01/25 15:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/01/25 15:54	1
Vinyl acetate	ND		25	0.93	ug/L			02/01/25 15:54	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/01/25 15:54	1
Xylenes, Total	ND		10	6.0	ug/L			02/01/25 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		56 - 136					02/01/25 15:54	1
Dibromofluoromethane	98		79 - 130					02/01/25 15:54	1
Toluene-d8 (Surr)	100		64 - 132					02/01/25 15:54	1

Client Sample Results

Client: AECOM

Job ID: 400-269899-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012725-8011-A

Lab Sample ID: 400-269899-2

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.033	0.019	ug/L		01/30/25 09:24	01/30/25 17:19	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/30/25 09:24	01/30/25 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	63		51 - 149				01/30/25 09:24	01/30/25 17:19	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW4-ROX-012725-EB

Lab Sample ID: 400-269899-3

Date Collected: 01/27/25 08:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/01/25 16:18	1
Acrolein	ND		20	3.3	ug/L			02/01/25 16:18	1
Acrylonitrile	ND		10	2.8	ug/L			02/01/25 16:18	1
Benzene	ND		1.0	0.50	ug/L			02/01/25 16:18	1
Bromobenzene	ND		1.0	0.54	ug/L			02/01/25 16:18	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/01/25 16:18	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/01/25 16:18	1
Bromoform	ND		5.0	0.25	ug/L			02/01/25 16:18	1
Bromomethane	ND		1.0	0.98	ug/L			02/01/25 16:18	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/01/25 16:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/25 16:18	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/01/25 16:18	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/01/25 16:18	1
Chloroethane	ND		1.0	0.76	ug/L			02/01/25 16:18	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/01/25 16:18	1
Chloroform	ND		1.0	0.90	ug/L			02/01/25 16:18	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/01/25 16:18	1
Chloromethane	ND		1.0	0.40	ug/L			02/01/25 16:18	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/01/25 16:18	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/01/25 16:18	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/01/25 16:18	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/01/25 16:18	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/01/25 16:18	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/01/25 16:18	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/01/25 16:18	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/01/25 16:18	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/01/25 16:18	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/01/25 16:18	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 16:18	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 16:18	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 16:18	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/01/25 16:18	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/01/25 16:18	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/01/25 16:18	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/01/25 16:18	1
2-Hexanone	ND		25	4.3	ug/L			02/01/25 16:18	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/01/25 16:18	1
Methylene bromide	ND		5.0	0.22	ug/L			02/01/25 16:18	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/01/25 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/01/25 16:18	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/01/25 16:18	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/01/25 16:18	1
Naphthalene	ND		5.0	3.0	ug/L			02/01/25 16:18	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/01/25 16:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/01/25 16:18	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/01/25 16:18	1
o-Xylene	ND		5.0	3.0	ug/L			02/01/25 16:18	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/01/25 16:18	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/01/25 16:18	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW4-ROX-012725-EB

Lab Sample ID: 400-269899-3

Date Collected: 01/27/25 08:30

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/01/25 16:18	1
Styrene	ND		1.0	1.0	ug/L			02/01/25 16:18	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/01/25 16:18	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/01/25 16:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/01/25 16:18	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/01/25 16:18	1
Toluene	ND		1.0	0.90	ug/L			02/01/25 16:18	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/01/25 16:18	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/01/25 16:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/01/25 16:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/01/25 16:18	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/01/25 16:18	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/01/25 16:18	1
Trichloroethene	ND		1.0	0.15	ug/L			02/01/25 16:18	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/01/25 16:18	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/01/25 16:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/01/25 16:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/01/25 16:18	1
Vinyl acetate	ND		25	0.93	ug/L			02/01/25 16:18	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/01/25 16:18	1
Xylenes, Total	ND		10	6.0	ug/L			02/01/25 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/01/25 16:18	1
Dibromofluoromethane	96		79 - 130		02/01/25 16:18	1
Toluene-d8 (Surr)	100		64 - 132		02/01/25 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.7	8.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
Benzenethiol	ND		9.7	9.6	ug/L		02/03/25 10:40	02/06/25 14:58	1
Benzoic acid	ND		29	23	ug/L		02/03/25 10:40	02/06/25 14:58	1
Benzyl alcohol	ND		9.7	7.1	ug/L		02/03/25 10:40	02/06/25 14:58	1
Bis(2-chloroethoxy)methane	ND		9.7	4.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
Bis(2-chloroethyl)ether	ND		9.7	3.8	ug/L		02/03/25 10:40	02/06/25 14:58	1
bis (2-chloroisopropyl) ether	ND		9.7	1.7	ug/L		02/03/25 10:40	02/06/25 14:58	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.6	ug/L		02/03/25 10:40	02/06/25 14:58	1
4-Bromophenyl phenyl ether	ND		9.7	8.3	ug/L		02/03/25 10:40	02/06/25 14:58	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		02/03/25 10:40	02/06/25 14:58	1
4-Chloroaniline	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 14:58	1
4-Chloro-3-methylphenol	ND		9.7	5.1	ug/L		02/03/25 10:40	02/06/25 14:58	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		02/03/25 10:40	02/06/25 14:58	1
2-Chlorophenol	ND		9.7	4.0	ug/L		02/03/25 10:40	02/06/25 14:58	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		02/03/25 10:40	02/06/25 14:58	1
Dibenz[a,h]acridine	ND		9.7	2.7	ug/L		02/03/25 10:40	02/06/25 14:58	1
Dibenzofuran	ND		9.7	3.9	ug/L		02/03/25 10:40	02/06/25 14:58	1
3,3'-Dichlorobenzidine	ND	+	11	11	ug/L		02/03/25 10:40	02/06/25 14:58	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		02/03/25 10:40	02/06/25 14:58	1
Diethyl phthalate	ND		9.7	4.3	ug/L		02/03/25 10:40	02/06/25 14:58	1
2,4-Dimethylphenol	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 14:58	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW4-ROX-012725-EB

Lab Sample ID: 400-269899-3

Date Collected: 01/27/25 08:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		02/03/25 10:40	02/06/25 14:58	1
Di-n-butyl phthalate	ND		9.7	4.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		02/03/25 10:40	02/06/25 14:58	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
2,4-Dinitrotoluene	ND		9.7	4.9	ug/L		02/03/25 10:40	02/06/25 14:58	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		02/03/25 10:40	02/06/25 14:58	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		02/03/25 10:40	02/06/25 14:58	1
1,4-Dioxane	ND		9.7	4.2	ug/L		02/03/25 10:40	02/06/25 14:58	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		02/03/25 10:40	02/06/25 14:58	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
Hexachlorocyclopentadiene	ND		19	4.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
Hexachloroethane	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 14:58	1
Indene	ND		9.7	3.5	ug/L		02/03/25 10:40	02/06/25 14:58	1
Isophorone	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 14:58	1
2-Methylphenol	ND		9.7	3.1	ug/L		02/03/25 10:40	02/06/25 14:58	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
2-Nitroaniline	ND		9.7	4.8	ug/L		02/03/25 10:40	02/06/25 14:58	1
3-Nitroaniline	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 14:58	1
4-Nitroaniline	ND		9.7	4.0	ug/L		02/03/25 10:40	02/06/25 14:58	1
Nitrobenzene	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 14:58	1
2-Nitrophenol	ND		9.7	4.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
4-Nitrophenol	ND		9.7	3.2	ug/L		02/03/25 10:40	02/06/25 14:58	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		02/03/25 10:40	02/06/25 14:58	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		02/03/25 10:40	02/06/25 14:58	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		02/03/25 10:40	02/06/25 14:58	1
Pentachlorophenol	ND		19	12	ug/L		02/03/25 10:40	02/06/25 14:58	1
Phenol	ND		9.7	4.1	ug/L		02/03/25 10:40	02/06/25 14:58	1
Pyridine	ND	*1	9.7	9.7	ug/L		02/03/25 10:40	02/06/25 14:58	1
Quinoline	ND		9.7	2.3	ug/L		02/03/25 10:40	02/06/25 14:58	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		02/03/25 10:40	02/06/25 14:58	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		02/03/25 10:40	02/06/25 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		21 - 114	02/03/25 10:40	02/06/25 14:58	1
2-Fluorophenol	38		10 - 105	02/03/25 10:40	02/06/25 14:58	1
Nitrobenzene-d5	60		16 - 127	02/03/25 10:40	02/06/25 14:58	1
Phenol-d5	30		10 - 129	02/03/25 10:40	02/06/25 14:58	1
Terphenyl-d14	92		13 - 150	02/03/25 10:40	02/06/25 14:58	1
2,4,6-Tribromophenol	96		10 - 150	02/03/25 10:40	02/06/25 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.9	0.084	ug/L		01/30/25 10:36	01/31/25 17:33	1
Acenaphthylene	ND		9.9	0.047	ug/L		01/30/25 10:36	01/31/25 17:33	1
Anthracene	ND		9.9	0.072	ug/L		01/30/25 10:36	01/31/25 17:33	1
Benzo[a]anthracene	ND		9.9	0.040	ug/L		01/30/25 10:36	01/31/25 17:33	1
Benzo[a]pyrene	ND		9.9	0.045	ug/L		01/30/25 10:36	01/31/25 17:33	1
Benzo[b]fluoranthene	ND		9.9	0.042	ug/L		01/30/25 10:36	01/31/25 17:33	1
Benzo[g,h,i]perylene	ND		9.9	0.051	ug/L		01/30/25 10:36	01/31/25 17:33	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW4-ROX-012725-EB

Lab Sample ID: 400-269899-3

Date Collected: 01/27/25 08:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		9.9	0.040	ug/L		01/30/25 10:36	01/31/25 17:33	1
Chrysene	ND		9.9	0.039	ug/L		01/30/25 10:36	01/31/25 17:33	1
Dibenz(a,h)anthracene	ND		9.9	0.044	ug/L		01/30/25 10:36	01/31/25 17:33	1
Fluoranthene	ND		9.9	0.032	ug/L		01/30/25 10:36	01/31/25 17:33	1
Fluorene	ND		9.9	0.086	ug/L		01/30/25 10:36	01/31/25 17:33	1
Indeno[1,2,3-cd]pyrene	ND		9.9	0.032	ug/L		01/30/25 10:36	01/31/25 17:33	1
1-Methylnaphthalene	ND		9.9	0.065	ug/L		01/30/25 10:36	01/31/25 17:33	1
2-Methylnaphthalene	ND		9.9	0.076	ug/L		01/30/25 10:36	01/31/25 17:33	1
Phenanthrene	ND		9.9	0.044	ug/L		01/30/25 10:36	01/31/25 17:33	1
Pyrene	ND		9.9	0.040	ug/L		01/30/25 10:36	01/31/25 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		15 - 150	01/30/25 10:36	01/31/25 17:33	1
Nitrobenzene-d5	82		50 - 150	01/30/25 10:36	01/31/25 17:33	1
Terphenyl-d14	115		43 - 147	01/30/25 10:36	01/31/25 17:33	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.034	0.019	ug/L		01/30/25 09:24	01/30/25 17:41	1
1,2-Dibromoethane	ND		0.023	0.017	ug/L		01/30/25 09:24	01/30/25 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	62		51 - 149	01/30/25 09:24	01/30/25 17:41	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW4-ROX-012725

Lab Sample ID: 400-269899-4

Date Collected: 01/27/25 09:55

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 20:32	1
Acrolein	ND	UJ	20	3.3	ug/L			02/03/25 20:32	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 20:32	1
Benzene	1.2		1.0	0.50	ug/L			02/03/25 20:32	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 20:32	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 20:32	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 20:32	1
Bromoform	ND	UJ	5.0	0.25	ug/L			02/03/25 20:32	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 20:32	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 20:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 20:32	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 20:32	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 20:32	1
Chloroethane	ND	UJ	1.0	0.76	ug/L			02/03/25 20:32	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 20:32	1
Chloroform	ND		1.0	0.90	ug/L			02/03/25 20:32	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 20:32	1
Chloromethane	ND	UJ	1.0	0.40	ug/L			02/03/25 20:32	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 20:32	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 20:32	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 20:32	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 20:32	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 20:32	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 20:32	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 20:32	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 20:32	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 20:32	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 20:32	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 20:32	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 20:32	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 20:32	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 20:32	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 20:32	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 20:32	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 20:32	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 20:32	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 20:32	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 20:32	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 20:32	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 20:32	1
Methyl tert-butyl ether	2.2		1.0	0.22	ug/L			02/03/25 20:32	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 20:32	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 20:32	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 20:32	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 20:32	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 20:32	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 20:32	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 20:32	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 20:32	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW4-ROX-012725

Lab Sample ID: 400-269899-4

Date Collected: 01/27/25 09:55

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 20:32	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 20:32	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 20:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 20:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 20:32	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 20:32	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 20:32	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 20:32	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 20:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 20:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 20:32	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 20:32	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 20:32	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 20:32	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 20:32	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 20:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 20:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 20:32	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 20:32	1
Vinyl chloride	ND	UJ	1.0	0.50	ug/L			02/03/25 20:32	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/03/25 20:32	1
Dibromofluoromethane	96		79 - 130		02/03/25 20:32	1
Toluene-d8 (Surr)	102		64 - 132		02/03/25 20:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.5	8.3	ug/L		02/03/25 10:40	02/06/25 15:21	1
Benzenethiol	ND		9.5	9.4	ug/L		02/03/25 10:40	02/06/25 15:21	1
Benzoic acid	ND		29	23	ug/L		02/03/25 10:40	02/06/25 15:21	1
Benzyl alcohol	ND		9.5	6.9	ug/L		02/03/25 10:40	02/06/25 15:21	1
Bis(2-chloroethoxy)methane	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 15:21	1
Bis(2-chloroethyl)ether	ND		9.5	3.7	ug/L		02/03/25 10:40	02/06/25 15:21	1
bis (2-chloroisopropyl) ether	ND		9.5	1.7	ug/L		02/03/25 10:40	02/06/25 15:21	1
Bis(2-ethylhexyl) phthalate	ND		9.5	8.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
4-Bromophenyl phenyl ether	ND		9.5	8.2	ug/L		02/03/25 10:40	02/06/25 15:21	1
Butyl benzyl phthalate	ND		9.5	5.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
4-Chloroaniline	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
4-Chloro-3-methylphenol	ND		9.5	5.0	ug/L		02/03/25 10:40	02/06/25 15:21	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		02/03/25 10:40	02/06/25 15:21	1
2-Chlorophenol	ND		9.5	3.9	ug/L		02/03/25 10:40	02/06/25 15:21	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
Dibenz[a,h]acridine	ND	UJ	9.5	2.7	ug/L		02/03/25 10:40	02/06/25 15:21	1
Dibenzofuran	ND		9.5	3.8	ug/L		02/03/25 10:40	02/06/25 15:21	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		02/03/25 10:40	02/06/25 15:21	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		02/03/25 10:40	02/06/25 15:21	1
Diethyl phthalate	ND		9.5	4.2	ug/L		02/03/25 10:40	02/06/25 15:21	1
2,4-Dimethylphenol	ND		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 15:21	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW4-ROX-012725

Lab Sample ID: 400-269899-4

Date Collected: 01/27/25 09:55

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.5	4.0	ug/L		02/03/25 10:40	02/06/25 15:21	1
Di-n-butyl phthalate	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 15:21	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		02/03/25 10:40	02/06/25 15:21	1
2,4-Dinitrotoluene	ND		9.5	4.8	ug/L		02/03/25 10:40	02/06/25 15:21	1
2,6-Dinitrotoluene	ND		9.5	3.7	ug/L		02/03/25 10:40	02/06/25 15:21	1
Di-n-octyl phthalate	ND		9.5	5.7	ug/L		02/03/25 10:40	02/06/25 15:21	1
1,4-Dioxane	ND		9.5	4.1	ug/L		02/03/25 10:40	02/06/25 15:21	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		02/03/25 10:40	02/06/25 15:21	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		02/03/25 10:40	02/06/25 15:21	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		02/03/25 10:40	02/06/25 15:21	1
Hexachloroethane	ND		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 15:21	1
Indene	ND		9.5	3.4	ug/L		02/03/25 10:40	02/06/25 15:21	1
Isophorone	ND		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 15:21	1
2-Methylphenol	ND		9.5	3.0	ug/L		02/03/25 10:40	02/06/25 15:21	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		02/03/25 10:40	02/06/25 15:21	1
2-Nitroaniline	ND		9.5	4.8	ug/L		02/03/25 10:40	02/06/25 15:21	1
3-Nitroaniline	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
4-Nitroaniline	ND		9.5	3.9	ug/L		02/03/25 10:40	02/06/25 15:21	1
Nitrobenzene	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
2-Nitrophenol	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 15:21	1
4-Nitrophenol	ND		9.5	3.1	ug/L		02/03/25 10:40	02/06/25 15:21	1
N-Nitrosodimethylamine	ND		9.5	2.1	ug/L		02/03/25 10:40	02/06/25 15:21	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		02/03/25 10:40	02/06/25 15:21	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
Pentachlorophenol	ND		19	11	ug/L		02/03/25 10:40	02/06/25 15:21	1
Phenol	ND		9.5	4.0	ug/L		02/03/25 10:40	02/06/25 15:21	1
Pyridine	ND	*1	9.5	9.5	ug/L		02/03/25 10:40	02/06/25 15:21	1
Quinoline	ND		9.5	2.3	ug/L		02/03/25 10:40	02/06/25 15:21	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		02/03/25 10:40	02/06/25 15:21	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		02/03/25 10:40	02/06/25 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		21 - 114	02/03/25 10:40	02/06/25 15:21	1
2-Fluorophenol	44		10 - 105	02/03/25 10:40	02/06/25 15:21	1
Nitrobenzene-d5	79		16 - 127	02/03/25 10:40	02/06/25 15:21	1
Phenol-d5	30		10 - 129	02/03/25 10:40	02/06/25 15:21	1
Terphenyl-d14	85		13 - 150	02/03/25 10:40	02/06/25 15:21	1
2,4,6-Tribromophenol	97		10 - 150	02/03/25 10:40	02/06/25 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/30/25 10:36	01/31/25 18:04	1
Acenaphthylene	ND		10	0.047	ug/L		01/30/25 10:36	01/31/25 18:04	1
Anthracene	ND		10	0.073	ug/L		01/30/25 10:36	01/31/25 18:04	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 18:04	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/30/25 10:36	01/31/25 18:04	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/30/25 10:36	01/31/25 18:04	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/30/25 10:36	01/31/25 18:04	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW4-ROX-012725

Lab Sample ID: 400-269899-4

Date Collected: 01/27/25 09:55

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 18:04	1
Chrysene	ND		10	0.039	ug/L		01/30/25 10:36	01/31/25 18:04	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 18:04	1
Fluoranthene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 18:04	1
Fluorene	ND		10	0.087	ug/L		01/30/25 10:36	01/31/25 18:04	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 18:04	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/30/25 10:36	01/31/25 18:04	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/30/25 10:36	01/31/25 18:04	1
Phenanthrene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 18:04	1
Pyrene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		15 - 150	01/30/25 10:36	01/31/25 18:04	1
Nitrobenzene-d5	86		50 - 150	01/30/25 10:36	01/31/25 18:04	1
Terphenyl-d14	117		43 - 147	01/30/25 10:36	01/31/25 18:04	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.034	0.019	ug/L		01/30/25 09:24	01/30/25 18:02	1
1,2-Dibromoethane	ND		0.023	0.017	ug/L		01/30/25 09:24	01/30/25 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	78		51 - 149	01/30/25 09:24	01/30/25 18:02	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725

Lab Sample ID: 400-269899-5

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50000	20000	ug/L			02/01/25 20:23	2000
Acrolein	ND		40000	6600	ug/L			02/01/25 20:23	2000
Acrylonitrile	ND		20000	5600	ug/L			02/01/25 20:23	2000
Bromobenzene	ND		2000	1100	ug/L			02/01/25 20:23	2000
Bromochloromethane	ND		2000	1000	ug/L			02/01/25 20:23	2000
Bromodichloromethane	ND		2000	1000	ug/L			02/01/25 20:23	2000
Bromoform	ND		10000	500	ug/L			02/01/25 20:23	2000
Bromomethane	ND		2000	2000	ug/L			02/01/25 20:23	2000
2-Butanone (MEK)	ND		50000	5200	ug/L			02/01/25 20:23	2000
Carbon disulfide	ND		2000	1000	ug/L			02/01/25 20:23	2000
Carbon tetrachloride	ND		2000	380	ug/L			02/01/25 20:23	2000
Chlorobenzene	ND		2000	840	ug/L			02/01/25 20:23	2000
Chloroethane	ND		2000	1500	ug/L			02/01/25 20:23	2000
2-Chloroethyl vinyl ether	ND		10000	4000	ug/L			02/01/25 20:23	2000
Chloroform	ND		2000	1800	ug/L			02/01/25 20:23	2000
1-Chlorohexane	ND		2000	640	ug/L			02/01/25 20:23	2000
Chloromethane	ND		2000	800	ug/L			02/01/25 20:23	2000
cis-1,2-Dichloroethene	ND		2000	400	ug/L			02/01/25 20:23	2000
cis-1,3-Dichloropropene	ND		10000	1000	ug/L			02/01/25 20:23	2000
Dibromochloromethane	ND		2000	480	ug/L			02/01/25 20:23	2000
1,2-Dichlorobenzene	ND		2000	1000	ug/L			02/01/25 20:23	2000
1,3-Dichlorobenzene	ND		2000	1100	ug/L			02/01/25 20:23	2000
1,4-Dichlorobenzene	ND		2000	1300	ug/L			02/01/25 20:23	2000
Dichlorodifluoromethane	ND		2000	1700	ug/L			02/01/25 20:23	2000
1,1-Dichloroethane	ND		2000	1000	ug/L			02/01/25 20:23	2000
1,2-Dichloroethane	ND		2000	1100	ug/L			02/01/25 20:23	2000
1,1-Dichloroethene	ND		2000	1000	ug/L			02/01/25 20:23	2000
1,2-Dichloropropane	ND		2000	1000	ug/L			02/01/25 20:23	2000
1,3-Dichloropropane	ND		2000	1000	ug/L			02/01/25 20:23	2000
2,2-Dichloropropane	ND		2000	1000	ug/L			02/01/25 20:23	2000
1,1-Dichloropropene	ND		2000	180	ug/L			02/01/25 20:23	2000
Ethylbenzene	ND		2000	1000	ug/L			02/01/25 20:23	2000
Ethyl methacrylate	ND		2000	1200	ug/L			02/01/25 20:23	2000
Hexachlorobutadiene	ND		10000	1800	ug/L			02/01/25 20:23	2000
2-Hexanone	ND		50000	8500	ug/L			02/01/25 20:23	2000
Isopropylbenzene	ND		2000	1100	ug/L			02/01/25 20:23	2000
Methylene bromide	ND		10000	440	ug/L			02/01/25 20:23	2000
Methylene Chloride	ND		10000	6000	ug/L			02/01/25 20:23	2000
4-Methyl-2-pentanone (MIBK)	ND		50000	3600	ug/L			02/01/25 20:23	2000
Methyl tert-butyl ether	ND		2000	440	ug/L			02/01/25 20:23	2000
m-Xylene & p-Xylene	ND		10000	6000	ug/L			02/01/25 20:23	2000
Naphthalene	ND		10000	6000	ug/L			02/01/25 20:23	2000
n-Butylbenzene	ND		2000	1500	ug/L			02/01/25 20:23	2000
N-Propylbenzene	ND		2000	1400	ug/L			02/01/25 20:23	2000
o-Chlorotoluene	ND		2000	1100	ug/L			02/01/25 20:23	2000
o-Xylene	ND		10000	6000	ug/L			02/01/25 20:23	2000
p-Chlorotoluene	ND		2000	1100	ug/L			02/01/25 20:23	2000
p-Isopropyltoluene	ND		2000	1400	ug/L			02/01/25 20:23	2000
sec-Butylbenzene	ND		2000	1400	ug/L			02/01/25 20:23	2000

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725

Lab Sample ID: 400-269899-5

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2000	2000	ug/L			02/01/25 20:23	2000
tert-Butylbenzene	ND		2000	1300	ug/L			02/01/25 20:23	2000
1,1,1,2-Tetrachloroethane	ND		2000	760	ug/L			02/01/25 20:23	2000
1,1,2,2-Tetrachloroethane	ND		2000	1000	ug/L			02/01/25 20:23	2000
Tetrachloroethene	ND		2000	660	ug/L			02/01/25 20:23	2000
Toluene	ND		2000	1800	ug/L			02/01/25 20:23	2000
trans-1,2-Dichloroethene	ND		2000	1000	ug/L			02/01/25 20:23	2000
trans-1,3-Dichloropropene	ND		10000	400	ug/L			02/01/25 20:23	2000
1,2,3-Trichlorobenzene	ND		2000	1800	ug/L			02/01/25 20:23	2000
1,2,4-Trichlorobenzene	ND		2000	1600	ug/L			02/01/25 20:23	2000
1,1,1-Trichloroethane	ND		2000	360	ug/L			02/01/25 20:23	2000
1,1,2-Trichloroethane	ND		10000	420	ug/L			02/01/25 20:23	2000
Trichloroethene	ND		2000	300	ug/L			02/01/25 20:23	2000
Trichlorofluoromethane	ND		2000	500	ug/L			02/01/25 20:23	2000
1,2,3-Trichloropropane	ND		10000	1700	ug/L			02/01/25 20:23	2000
1,2,4-Trimethylbenzene	ND		2000	1600	ug/L			02/01/25 20:23	2000
1,3,5-Trimethylbenzene	ND		2000	1100	ug/L			02/01/25 20:23	2000
Vinyl acetate	ND		50000	1900	ug/L			02/01/25 20:23	2000
Vinyl chloride	ND	UJ	2000	1000	ug/L			02/01/25 20:23	2000
Xylenes, Total	ND		20000	12000	ug/L			02/01/25 20:23	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/01/25 20:23	2000
Dibromofluoromethane	93		79 - 130		02/01/25 20:23	2000
Toluene-d8 (Surr)	99		64 - 132		02/01/25 20:23	2000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	650000		5000	2500	ug/L			02/02/25 19:57	5000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/02/25 19:57	5000
Dibromofluoromethane	96		79 - 130		02/02/25 19:57	5000
Toluene-d8 (Surr)	98		64 - 132		02/02/25 19:57	5000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.5	8.2	ug/L		02/03/25 10:40	02/06/25 15:44	1
Benzenethiol	ND		9.5	9.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
Benzoic acid	ND		28	23	ug/L		02/03/25 10:40	02/06/25 15:44	1
Benzyl alcohol	ND		9.5	6.9	ug/L		02/03/25 10:40	02/06/25 15:44	1
Bis(2-chloroethoxy)methane	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
Bis(2-chloroethyl)ether	ND		9.5	3.7	ug/L		02/03/25 10:40	02/06/25 15:44	1
bis (2-chloroisopropyl) ether	ND		9.5	1.7	ug/L		02/03/25 10:40	02/06/25 15:44	1
Bis(2-ethylhexyl) phthalate	ND		9.5	8.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
4-Bromophenyl phenyl ether	ND		9.5	8.2	ug/L		02/03/25 10:40	02/06/25 15:44	1
Butyl benzyl phthalate	ND		9.5	5.5	ug/L		02/03/25 10:40	02/06/25 15:44	1
4-Chloroaniline	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 15:44	1
4-Chloro-3-methylphenol	ND		9.5	5.0	ug/L		02/03/25 10:40	02/06/25 15:44	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		02/03/25 10:40	02/06/25 15:44	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725

Lab Sample ID: 400-269899-5

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		9.5	3.9	ug/L		02/03/25 10:40	02/06/25 15:44	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		02/03/25 10:40	02/06/25 15:44	1
Dibenz[a,h]acridine	ND	UJ	9.5	2.7	ug/L		02/03/25 10:40	02/06/25 15:44	1
Dibenzofuran	ND		9.5	3.8	ug/L		02/03/25 10:40	02/06/25 15:44	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		02/03/25 10:40	02/06/25 15:44	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		02/03/25 10:40	02/06/25 15:44	1
Diethyl phthalate	ND		9.5	4.2	ug/L		02/03/25 10:40	02/06/25 15:44	1
2,4-Dimethylphenol	11		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 15:44	1
Dimethyl phthalate	ND		9.5	4.0	ug/L		02/03/25 10:40	02/06/25 15:44	1
Di-n-butyl phthalate	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		02/03/25 10:40	02/06/25 15:44	1
2,4-Dinitrophenol	ND		28	4.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
2,4-Dinitrotoluene	ND		9.5	4.8	ug/L		02/03/25 10:40	02/06/25 15:44	1
2,6-Dinitrotoluene	ND		9.5	3.7	ug/L		02/03/25 10:40	02/06/25 15:44	1
Di-n-octyl phthalate	ND		9.5	5.7	ug/L		02/03/25 10:40	02/06/25 15:44	1
1,4-Dioxane	ND		9.5	4.1	ug/L		02/03/25 10:40	02/06/25 15:44	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		02/03/25 10:40	02/06/25 15:44	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		02/03/25 10:40	02/06/25 15:44	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		02/03/25 10:40	02/06/25 15:44	1
Hexachloroethane	ND		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 15:44	1
Indene	ND		9.5	3.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
Isophorone	ND		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 15:44	1
2-Methylphenol	ND		9.5	3.0	ug/L		02/03/25 10:40	02/06/25 15:44	1
3 & 4 Methylphenol	41		19	4.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
2-Nitroaniline	ND		9.5	4.7	ug/L		02/03/25 10:40	02/06/25 15:44	1
3-Nitroaniline	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 15:44	1
4-Nitroaniline	ND		9.5	3.9	ug/L		02/03/25 10:40	02/06/25 15:44	1
Nitrobenzene	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 15:44	1
2-Nitrophenol	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
4-Nitrophenol	ND		9.5	3.1	ug/L		02/03/25 10:40	02/06/25 15:44	1
N-Nitrosodimethylamine	ND		9.5	2.1	ug/L		02/03/25 10:40	02/06/25 15:44	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		02/03/25 10:40	02/06/25 15:44	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		02/03/25 10:40	02/06/25 15:44	1
Pentachlorophenol	ND		19	11	ug/L		02/03/25 10:40	02/06/25 15:44	1
Phenol	310		9.5	4.0	ug/L		02/03/25 10:40	02/06/25 15:44	1
Pyridine	ND	*1	9.5	9.5	ug/L		02/03/25 10:40	02/06/25 15:44	1
Quinoline	ND		9.5	2.3	ug/L		02/03/25 10:40	02/06/25 15:44	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		02/03/25 10:40	02/06/25 15:44	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		02/03/25 10:40	02/06/25 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		21 - 114	02/03/25 10:40	02/06/25 15:44	1
2-Fluorophenol	52		10 - 105	02/03/25 10:40	02/06/25 15:44	1
Nitrobenzene-d5	72		16 - 127	02/03/25 10:40	02/06/25 15:44	1
Phenol-d5	37		10 - 129	02/03/25 10:40	02/06/25 15:44	1
Terphenyl-d14	91		13 - 150	02/03/25 10:40	02/06/25 15:44	1
2,4,6-Tribromophenol	113		10 - 150	02/03/25 10:40	02/06/25 15:44	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725

Lab Sample ID: 400-269899-5

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.11	J	10	0.085	ug/L		01/30/25 10:36	01/31/25 18:34	1
Acenaphthylene	ND		10	0.047	ug/L		01/30/25 10:36	01/31/25 18:34	1
Anthracene	ND		10	0.073	ug/L		01/30/25 10:36	01/31/25 18:34	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 18:34	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/30/25 10:36	01/31/25 18:34	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/30/25 10:36	01/31/25 18:34	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/30/25 10:36	01/31/25 18:34	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 18:34	1
Chrysene	ND		10	0.039	ug/L		01/30/25 10:36	01/31/25 18:34	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 18:34	1
Fluoranthene	0.27	J	10	0.032	ug/L		01/30/25 10:36	01/31/25 18:34	1
Fluorene	0.17	J	10	0.087	ug/L		01/30/25 10:36	01/31/25 18:34	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 18:34	1
1-Methylnaphthalene	7.5	J	10	0.066	ug/L		01/30/25 10:36	01/31/25 18:34	1
2-Methylnaphthalene	7.9	J	10	0.077	ug/L		01/30/25 10:36	01/31/25 18:34	1
Phenanthrene	0.47	J	10	0.044	ug/L		01/30/25 10:36	01/31/25 18:34	1
Pyrene	0.16	J	10	0.040	ug/L		01/30/25 10:36	01/31/25 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		15 - 150	01/30/25 10:36	01/31/25 18:34	1
Nitrobenzene-d5	81		50 - 150	01/30/25 10:36	01/31/25 18:34	1
Terphenyl-d14	120		43 - 147	01/30/25 10:36	01/31/25 18:34	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.034	0.019	ug/L		01/30/25 09:24	01/30/25 18:23	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/30/25 09:24	01/30/25 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	74		51 - 149	01/30/25 09:24	01/30/25 18:23	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725-DUP

Lab Sample ID: 400-269899-6

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50000	20000	ug/L			02/01/25 20:48	2000
Acrolein	ND		40000	6600	ug/L			02/01/25 20:48	2000
Acrylonitrile	ND		20000	5600	ug/L			02/01/25 20:48	2000
Bromobenzene	ND		2000	1100	ug/L			02/01/25 20:48	2000
Bromochloromethane	ND		2000	1000	ug/L			02/01/25 20:48	2000
Bromodichloromethane	ND		2000	1000	ug/L			02/01/25 20:48	2000
Bromoform	ND		10000	500	ug/L			02/01/25 20:48	2000
Bromomethane	ND		2000	2000	ug/L			02/01/25 20:48	2000
2-Butanone (MEK)	ND		50000	5200	ug/L			02/01/25 20:48	2000
Carbon disulfide	ND		2000	1000	ug/L			02/01/25 20:48	2000
Carbon tetrachloride	ND		2000	380	ug/L			02/01/25 20:48	2000
Chlorobenzene	ND		2000	840	ug/L			02/01/25 20:48	2000
Chloroethane	ND		2000	1500	ug/L			02/01/25 20:48	2000
2-Chloroethyl vinyl ether	ND		10000	4000	ug/L			02/01/25 20:48	2000
Chloroform	ND		2000	1800	ug/L			02/01/25 20:48	2000
1-Chlorohexane	ND		2000	640	ug/L			02/01/25 20:48	2000
Chloromethane	ND		2000	800	ug/L			02/01/25 20:48	2000
cis-1,2-Dichloroethene	ND		2000	400	ug/L			02/01/25 20:48	2000
cis-1,3-Dichloropropene	ND		10000	1000	ug/L			02/01/25 20:48	2000
Dibromochloromethane	ND		2000	480	ug/L			02/01/25 20:48	2000
1,2-Dichlorobenzene	ND		2000	1000	ug/L			02/01/25 20:48	2000
1,3-Dichlorobenzene	ND		2000	1100	ug/L			02/01/25 20:48	2000
1,4-Dichlorobenzene	ND		2000	1300	ug/L			02/01/25 20:48	2000
Dichlorodifluoromethane	ND		2000	1700	ug/L			02/01/25 20:48	2000
1,1-Dichloroethane	ND		2000	1000	ug/L			02/01/25 20:48	2000
1,2-Dichloroethane	ND		2000	1100	ug/L			02/01/25 20:48	2000
1,1-Dichloroethene	ND		2000	1000	ug/L			02/01/25 20:48	2000
1,2-Dichloropropane	ND		2000	1000	ug/L			02/01/25 20:48	2000
1,3-Dichloropropane	ND		2000	1000	ug/L			02/01/25 20:48	2000
2,2-Dichloropropane	ND		2000	1000	ug/L			02/01/25 20:48	2000
1,1-Dichloropropene	ND		2000	180	ug/L			02/01/25 20:48	2000
Ethylbenzene	ND		2000	1000	ug/L			02/01/25 20:48	2000
Ethyl methacrylate	ND		2000	1200	ug/L			02/01/25 20:48	2000
Hexachlorobutadiene	ND		10000	1800	ug/L			02/01/25 20:48	2000
2-Hexanone	ND		50000	8500	ug/L			02/01/25 20:48	2000
Isopropylbenzene	ND		2000	1100	ug/L			02/01/25 20:48	2000
Methylene bromide	ND		10000	440	ug/L			02/01/25 20:48	2000
Methylene Chloride	ND		10000	6000	ug/L			02/01/25 20:48	2000
4-Methyl-2-pentanone (MIBK)	ND		50000	3600	ug/L			02/01/25 20:48	2000
Methyl tert-butyl ether	ND		2000	440	ug/L			02/01/25 20:48	2000
m-Xylene & p-Xylene	ND		10000	6000	ug/L			02/01/25 20:48	2000
Naphthalene	ND		10000	6000	ug/L			02/01/25 20:48	2000
n-Butylbenzene	ND		2000	1500	ug/L			02/01/25 20:48	2000
N-Propylbenzene	ND		2000	1400	ug/L			02/01/25 20:48	2000
o-Chlorotoluene	ND		2000	1100	ug/L			02/01/25 20:48	2000
o-Xylene	ND		10000	6000	ug/L			02/01/25 20:48	2000
p-Chlorotoluene	ND		2000	1100	ug/L			02/01/25 20:48	2000
p-Isopropyltoluene	ND		2000	1400	ug/L			02/01/25 20:48	2000
sec-Butylbenzene	ND		2000	1400	ug/L			02/01/25 20:48	2000

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725-DUP

Lab Sample ID: 400-269899-6

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2000	2000	ug/L			02/01/25 20:48	2000
tert-Butylbenzene	ND		2000	1300	ug/L			02/01/25 20:48	2000
1,1,1,2-Tetrachloroethane	ND		2000	760	ug/L			02/01/25 20:48	2000
1,1,2,2-Tetrachloroethane	ND		2000	1000	ug/L			02/01/25 20:48	2000
Tetrachloroethene	ND		2000	660	ug/L			02/01/25 20:48	2000
Toluene	ND		2000	1800	ug/L			02/01/25 20:48	2000
trans-1,2-Dichloroethene	ND		2000	1000	ug/L			02/01/25 20:48	2000
trans-1,3-Dichloropropene	ND		10000	400	ug/L			02/01/25 20:48	2000
1,2,3-Trichlorobenzene	ND		2000	1800	ug/L			02/01/25 20:48	2000
1,2,4-Trichlorobenzene	ND		2000	1600	ug/L			02/01/25 20:48	2000
1,1,1-Trichloroethane	ND		2000	360	ug/L			02/01/25 20:48	2000
1,1,2-Trichloroethane	ND		10000	420	ug/L			02/01/25 20:48	2000
Trichloroethene	ND		2000	300	ug/L			02/01/25 20:48	2000
Trichlorofluoromethane	ND		2000	500	ug/L			02/01/25 20:48	2000
1,2,3-Trichloropropane	ND		10000	1700	ug/L			02/01/25 20:48	2000
1,2,4-Trimethylbenzene	ND		2000	1600	ug/L			02/01/25 20:48	2000
1,3,5-Trimethylbenzene	ND		2000	1100	ug/L			02/01/25 20:48	2000
Vinyl acetate	ND		50000	1900	ug/L			02/01/25 20:48	2000
Vinyl chloride	ND	UJ	2000	1000	ug/L			02/01/25 20:48	2000
Xylenes, Total	ND		20000	12000	ug/L			02/01/25 20:48	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/01/25 20:48	2000
Dibromofluoromethane	95		79 - 130		02/01/25 20:48	2000
Toluene-d8 (Surr)	99		64 - 132		02/01/25 20:48	2000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	610000		5000	2500	ug/L			02/02/25 20:22	5000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/02/25 20:22	5000
Dibromofluoromethane	96		79 - 130		02/02/25 20:22	5000
Toluene-d8 (Surr)	97		64 - 132		02/02/25 20:22	5000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.3	8.1	ug/L		02/03/25 10:40	02/06/25 16:06	1
Benzenethiol	ND		9.3	9.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
Benzoic acid	ND		28	22	ug/L		02/03/25 10:40	02/06/25 16:06	1
Benzyl alcohol	ND		9.3	6.8	ug/L		02/03/25 10:40	02/06/25 16:06	1
Bis(2-chloroethoxy)methane	ND		9.3	4.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
Bis(2-chloroethyl)ether	ND		9.3	3.6	ug/L		02/03/25 10:40	02/06/25 16:06	1
bis (2-chloroisopropyl) ether	ND		9.3	1.7	ug/L		02/03/25 10:40	02/06/25 16:06	1
Bis(2-ethylhexyl) phthalate	ND		9.3	8.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
4-Bromophenyl phenyl ether	ND		9.3	8.0	ug/L		02/03/25 10:40	02/06/25 16:06	1
Butyl benzyl phthalate	ND		9.3	5.4	ug/L		02/03/25 10:40	02/06/25 16:06	1
4-Chloroaniline	ND		9.3	4.4	ug/L		02/03/25 10:40	02/06/25 16:06	1
4-Chloro-3-methylphenol	ND		9.3	5.0	ug/L		02/03/25 10:40	02/06/25 16:06	1
2-Chloronaphthalene	ND		9.3	3.6	ug/L		02/03/25 10:40	02/06/25 16:06	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725-DUP

Lab Sample ID: 400-269899-6

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		9.3	3.8	ug/L		02/03/25 10:40	02/06/25 16:06	1
4-Chlorophenyl phenyl ether	ND		9.3	3.5	ug/L		02/03/25 10:40	02/06/25 16:06	1
Dibenz[a,h]acridine	ND	UJ	9.3	2.6	ug/L		02/03/25 10:40	02/06/25 16:06	1
Dibenzofuran	ND		9.3	3.7	ug/L		02/03/25 10:40	02/06/25 16:06	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		02/03/25 10:40	02/06/25 16:06	1
2,4-Dichlorophenol	ND		9.3	4.0	ug/L		02/03/25 10:40	02/06/25 16:06	1
Diethyl phthalate	ND		9.3	4.1	ug/L		02/03/25 10:40	02/06/25 16:06	1
2,4-Dimethylphenol	9.7		9.3	4.9	ug/L		02/03/25 10:40	02/06/25 16:06	1
Dimethyl phthalate	ND		9.3	3.9	ug/L		02/03/25 10:40	02/06/25 16:06	1
Di-n-butyl phthalate	ND		9.3	4.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
4,6-Dinitro-ortho-cresol	ND		9.3	9.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
2,4-Dinitrophenol	ND		28	4.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
2,4-Dinitrotoluene	ND		9.3	4.8	ug/L		02/03/25 10:40	02/06/25 16:06	1
2,6-Dinitrotoluene	ND		9.3	3.6	ug/L		02/03/25 10:40	02/06/25 16:06	1
Di-n-octyl phthalate	ND		9.3	5.6	ug/L		02/03/25 10:40	02/06/25 16:06	1
1,4-Dioxane	ND		9.3	4.0	ug/L		02/03/25 10:40	02/06/25 16:06	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.3	3.1	ug/L		02/03/25 10:40	02/06/25 16:06	1
Hexachlorobenzene	ND		9.3	9.1	ug/L		02/03/25 10:40	02/06/25 16:06	1
Hexachlorocyclopentadiene	ND		19	4.2	ug/L		02/03/25 10:40	02/06/25 16:06	1
Hexachloroethane	ND		9.3	4.9	ug/L		02/03/25 10:40	02/06/25 16:06	1
Indene	ND		9.3	3.4	ug/L		02/03/25 10:40	02/06/25 16:06	1
Isophorone	ND		9.3	4.9	ug/L		02/03/25 10:40	02/06/25 16:06	1
2-Methylphenol	ND		9.3	3.0	ug/L		02/03/25 10:40	02/06/25 16:06	1
3 & 4 Methylphenol	42		19	4.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
2-Nitroaniline	ND		9.3	4.7	ug/L		02/03/25 10:40	02/06/25 16:06	1
3-Nitroaniline	ND		9.3	4.4	ug/L		02/03/25 10:40	02/06/25 16:06	1
4-Nitroaniline	ND		9.3	3.8	ug/L		02/03/25 10:40	02/06/25 16:06	1
Nitrobenzene	ND		9.3	4.4	ug/L		02/03/25 10:40	02/06/25 16:06	1
2-Nitrophenol	ND		9.3	4.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
4-Nitrophenol	ND		9.3	3.1	ug/L		02/03/25 10:40	02/06/25 16:06	1
N-Nitrosodimethylamine	ND		9.3	2.1	ug/L		02/03/25 10:40	02/06/25 16:06	1
N-Nitrosodi-n-propylamine	ND		9.3	2.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
N-Nitrosodiphenylamine	ND		9.3	3.5	ug/L		02/03/25 10:40	02/06/25 16:06	1
Pentachlorophenol	ND		19	11	ug/L		02/03/25 10:40	02/06/25 16:06	1
Phenol	340		9.3	3.9	ug/L		02/03/25 10:40	02/06/25 16:06	1
Pyridine	ND	*1	9.3	9.3	ug/L		02/03/25 10:40	02/06/25 16:06	1
Quinoline	ND		9.3	2.2	ug/L		02/03/25 10:40	02/06/25 16:06	1
2,4,5-Trichlorophenol	ND		9.3	3.7	ug/L		02/03/25 10:40	02/06/25 16:06	1
2,4,6-Trichlorophenol	ND		9.3	3.3	ug/L		02/03/25 10:40	02/06/25 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		21 - 114	02/03/25 10:40	02/06/25 16:06	1
2-Fluorophenol	53		10 - 105	02/03/25 10:40	02/06/25 16:06	1
Nitrobenzene-d5	75		16 - 127	02/03/25 10:40	02/06/25 16:06	1
Phenol-d5	37		10 - 129	02/03/25 10:40	02/06/25 16:06	1
Terphenyl-d14	86		13 - 150	02/03/25 10:40	02/06/25 16:06	1
2,4,6-Tribromophenol	107		10 - 150	02/03/25 10:40	02/06/25 16:06	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725-DUP

Lab Sample ID: 400-269899-6

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.10	J	10	0.086	ug/L		01/30/25 10:36	01/31/25 19:04	1
Acenaphthylene	ND		10	0.047	ug/L		01/30/25 10:36	01/31/25 19:04	1
Anthracene	ND		10	0.073	ug/L		01/30/25 10:36	01/31/25 19:04	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 19:04	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/30/25 10:36	01/31/25 19:04	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/30/25 10:36	01/31/25 19:04	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/30/25 10:36	01/31/25 19:04	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 19:04	1
Chrysene	ND		10	0.039	ug/L		01/30/25 10:36	01/31/25 19:04	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 19:04	1
Fluoranthene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 19:04	1
Fluorene	0.11	J	10	0.088	ug/L		01/30/25 10:36	01/31/25 19:04	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 19:04	1
1-Methylnaphthalene	8.6	J	10	0.066	ug/L		01/30/25 10:36	01/31/25 19:04	1
2-Methylnaphthalene	9.2	J	10	0.078	ug/L		01/30/25 10:36	01/31/25 19:04	1
Phenanthrene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 19:04	1
Pyrene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		15 - 150	01/30/25 10:36	01/31/25 19:04	1
Nitrobenzene-d5	90		50 - 150	01/30/25 10:36	01/31/25 19:04	1
Terphenyl-d14	120		43 - 147	01/30/25 10:36	01/31/25 19:04	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.034	0.019	ug/L		01/30/25 09:24	01/30/25 19:06	1
1,2-Dibromoethane	ND		0.023	0.017	ug/L		01/30/25 09:24	01/30/25 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	70		51 - 149	01/30/25 09:24	01/30/25 19:06	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW7-ROX-012725

Lab Sample ID: 400-269899-7

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50000	20000	ug/L			02/02/25 19:33	2000
Acrolein	ND		40000	6600	ug/L			02/02/25 19:33	2000
Acrylonitrile	ND		20000	5600	ug/L			02/02/25 19:33	2000
Benzene	390000		2000	1000	ug/L			02/02/25 19:33	2000
Bromobenzene	ND		2000	1100	ug/L			02/02/25 19:33	2000
Bromochloromethane	ND		2000	1000	ug/L			02/02/25 19:33	2000
Bromodichloromethane	ND		2000	1000	ug/L			02/02/25 19:33	2000
Bromoform	ND		10000	500	ug/L			02/02/25 19:33	2000
Bromomethane	ND		2000	2000	ug/L			02/02/25 19:33	2000
2-Butanone (MEK)	ND		50000	5200	ug/L			02/02/25 19:33	2000
Carbon disulfide	ND		2000	1000	ug/L			02/02/25 19:33	2000
Carbon tetrachloride	ND		2000	380	ug/L			02/02/25 19:33	2000
Chlorobenzene	ND		2000	840	ug/L			02/02/25 19:33	2000
Chloroethane	ND		2000	1500	ug/L			02/02/25 19:33	2000
2-Chloroethyl vinyl ether	ND		10000	4000	ug/L			02/02/25 19:33	2000
Chloroform	ND		2000	1800	ug/L			02/02/25 19:33	2000
1-Chlorohexane	ND		2000	640	ug/L			02/02/25 19:33	2000
Chloromethane	ND		2000	800	ug/L			02/02/25 19:33	2000
cis-1,2-Dichloroethene	ND		2000	400	ug/L			02/02/25 19:33	2000
cis-1,3-Dichloropropene	ND		10000	1000	ug/L			02/02/25 19:33	2000
Dibromochloromethane	ND		2000	480	ug/L			02/02/25 19:33	2000
1,2-Dichlorobenzene	ND		2000	1000	ug/L			02/02/25 19:33	2000
1,3-Dichlorobenzene	ND		2000	1100	ug/L			02/02/25 19:33	2000
1,4-Dichlorobenzene	ND		2000	1300	ug/L			02/02/25 19:33	2000
Dichlorodifluoromethane	ND		2000	1700	ug/L			02/02/25 19:33	2000
1,1-Dichloroethane	ND		2000	1000	ug/L			02/02/25 19:33	2000
1,2-Dichloroethane	ND		2000	1100	ug/L			02/02/25 19:33	2000
1,1-Dichloroethene	ND		2000	1000	ug/L			02/02/25 19:33	2000
1,2-Dichloropropane	ND		2000	1000	ug/L			02/02/25 19:33	2000
1,3-Dichloropropane	ND		2000	1000	ug/L			02/02/25 19:33	2000
2,2-Dichloropropane	ND		2000	1000	ug/L			02/02/25 19:33	2000
1,1-Dichloropropene	ND		2000	180	ug/L			02/02/25 19:33	2000
Ethylbenzene	ND		2000	1000	ug/L			02/02/25 19:33	2000
Ethyl methacrylate	ND		2000	1200	ug/L			02/02/25 19:33	2000
Hexachlorobutadiene	ND		10000	1800	ug/L			02/02/25 19:33	2000
2-Hexanone	ND		50000	8500	ug/L			02/02/25 19:33	2000
Isopropylbenzene	ND		2000	1100	ug/L			02/02/25 19:33	2000
Methylene bromide	ND		10000	440	ug/L			02/02/25 19:33	2000
Methylene Chloride	ND		10000	6000	ug/L			02/02/25 19:33	2000
4-Methyl-2-pentanone (MIBK)	ND		50000	3600	ug/L			02/02/25 19:33	2000
Methyl tert-butyl ether	ND		2000	440	ug/L			02/02/25 19:33	2000
m-Xylene & p-Xylene	ND		10000	6000	ug/L			02/02/25 19:33	2000
Naphthalene	ND		10000	6000	ug/L			02/02/25 19:33	2000
n-Butylbenzene	ND		2000	1500	ug/L			02/02/25 19:33	2000
N-Propylbenzene	ND		2000	1400	ug/L			02/02/25 19:33	2000
o-Chlorotoluene	ND		2000	1100	ug/L			02/02/25 19:33	2000
o-Xylene	ND		10000	6000	ug/L			02/02/25 19:33	2000
p-Chlorotoluene	ND		2000	1100	ug/L			02/02/25 19:33	2000
p-Isopropyltoluene	ND		2000	1400	ug/L			02/02/25 19:33	2000

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW7-ROX-012725

Lab Sample ID: 400-269899-7

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2000	1400	ug/L			02/02/25 19:33	2000
Styrene	ND		2000	2000	ug/L			02/02/25 19:33	2000
tert-Butylbenzene	ND		2000	1300	ug/L			02/02/25 19:33	2000
1,1,1,2-Tetrachloroethane	ND		2000	760	ug/L			02/02/25 19:33	2000
1,1,2,2-Tetrachloroethane	ND		2000	1000	ug/L			02/02/25 19:33	2000
Tetrachloroethene	ND		2000	660	ug/L			02/02/25 19:33	2000
Toluene	ND		2000	1800	ug/L			02/02/25 19:33	2000
trans-1,2-Dichloroethene	ND		2000	1000	ug/L			02/02/25 19:33	2000
trans-1,3-Dichloropropene	ND		10000	400	ug/L			02/02/25 19:33	2000
1,2,3-Trichlorobenzene	ND		2000	1800	ug/L			02/02/25 19:33	2000
1,2,4-Trichlorobenzene	ND		2000	1600	ug/L			02/02/25 19:33	2000
1,1,1-Trichloroethane	ND		2000	360	ug/L			02/02/25 19:33	2000
1,1,2-Trichloroethane	ND		10000	420	ug/L			02/02/25 19:33	2000
Trichloroethene	ND		2000	300	ug/L			02/02/25 19:33	2000
Trichlorofluoromethane	ND		2000	500	ug/L			02/02/25 19:33	2000
1,2,3-Trichloropropane	ND		10000	1700	ug/L			02/02/25 19:33	2000
1,2,4-Trimethylbenzene	ND		2000	1600	ug/L			02/02/25 19:33	2000
1,3,5-Trimethylbenzene	ND		2000	1100	ug/L			02/02/25 19:33	2000
Vinyl acetate	ND		50000	1900	ug/L			02/02/25 19:33	2000
Vinyl chloride	ND	UJ	2000	1000	ug/L			02/02/25 19:33	2000
Xylenes, Total	ND		20000	12000	ug/L			02/02/25 19:33	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/02/25 19:33	2000
Dibromofluoromethane	93		79 - 130		02/02/25 19:33	2000
Toluene-d8 (Surr)	97		64 - 132		02/02/25 19:33	2000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.7	8.4	ug/L		02/03/25 10:40	02/06/25 16:29	1
Benzenethiol	ND		9.7	9.6	ug/L		02/03/25 10:40	02/06/25 16:29	1
Benzoic acid	ND		29	23	ug/L		02/03/25 10:40	02/06/25 16:29	1
Benzyl alcohol	ND		9.7	7.1	ug/L		02/03/25 10:40	02/06/25 16:29	1
Bis(2-chloroethoxy)methane	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 16:29	1
Bis(2-chloroethyl)ether	ND		9.7	3.8	ug/L		02/03/25 10:40	02/06/25 16:29	1
bis (2-chloroisopropyl) ether	ND		9.7	1.7	ug/L		02/03/25 10:40	02/06/25 16:29	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.6	ug/L		02/03/25 10:40	02/06/25 16:29	1
4-Bromophenyl phenyl ether	ND		9.7	8.3	ug/L		02/03/25 10:40	02/06/25 16:29	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		02/03/25 10:40	02/06/25 16:29	1
4-Chloroaniline	ND		9.7	4.6	ug/L		02/03/25 10:40	02/06/25 16:29	1
4-Chloro-3-methylphenol	ND		9.7	5.1	ug/L		02/03/25 10:40	02/06/25 16:29	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		02/03/25 10:40	02/06/25 16:29	1
2-Chlorophenol	ND		9.7	4.0	ug/L		02/03/25 10:40	02/06/25 16:29	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		02/03/25 10:40	02/06/25 16:29	1
Dibenz[a,h]acridine	ND	UJ	9.7	2.7	ug/L		02/03/25 10:40	02/06/25 16:29	1
Dibenzofuran	ND		9.7	3.9	ug/L		02/03/25 10:40	02/06/25 16:29	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		02/03/25 10:40	02/06/25 16:29	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		02/03/25 10:40	02/06/25 16:29	1
Diethyl phthalate	ND		9.7	4.3	ug/L		02/03/25 10:40	02/06/25 16:29	1
2,4-Dimethylphenol	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 16:29	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW7-ROX-012725

Lab Sample ID: 400-269899-7

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		02/03/25 10:40	02/06/25 16:29	1
Di-n-butyl phthalate	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 16:29	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		02/03/25 10:40	02/06/25 16:29	1
2,4-Dinitrophenol	ND		29	4.5	ug/L		02/03/25 10:40	02/06/25 16:29	1
2,4-Dinitrotoluene	ND		9.7	4.9	ug/L		02/03/25 10:40	02/06/25 16:29	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		02/03/25 10:40	02/06/25 16:29	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		02/03/25 10:40	02/06/25 16:29	1
1,4-Dioxane	ND		9.7	4.2	ug/L		02/03/25 10:40	02/06/25 16:29	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		02/03/25 10:40	02/06/25 16:29	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		02/03/25 10:40	02/06/25 16:29	1
Hexachlorocyclopentadiene	ND		19	4.4	ug/L		02/03/25 10:40	02/06/25 16:29	1
Hexachloroethane	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 16:29	1
Indene	ND		9.7	3.5	ug/L		02/03/25 10:40	02/06/25 16:29	1
Isophorone	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 16:29	1
2-Methylphenol	ND		9.7	3.1	ug/L		02/03/25 10:40	02/06/25 16:29	1
3 & 4 Methylphenol	ND		19	4.5	ug/L		02/03/25 10:40	02/06/25 16:29	1
2-Nitroaniline	ND		9.7	4.8	ug/L		02/03/25 10:40	02/06/25 16:29	1
3-Nitroaniline	ND		9.7	4.6	ug/L		02/03/25 10:40	02/06/25 16:29	1
4-Nitroaniline	ND		9.7	4.0	ug/L		02/03/25 10:40	02/06/25 16:29	1
Nitrobenzene	ND		9.7	4.6	ug/L		02/03/25 10:40	02/06/25 16:29	1
2-Nitrophenol	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 16:29	1
4-Nitrophenol	ND		9.7	3.2	ug/L		02/03/25 10:40	02/06/25 16:29	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		02/03/25 10:40	02/06/25 16:29	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		02/03/25 10:40	02/06/25 16:29	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		02/03/25 10:40	02/06/25 16:29	1
Pentachlorophenol	ND		19	12	ug/L		02/03/25 10:40	02/06/25 16:29	1
Phenol	32		9.7	4.1	ug/L		02/03/25 10:40	02/06/25 16:29	1
Pyridine	ND	*1	9.7	9.7	ug/L		02/03/25 10:40	02/06/25 16:29	1
Quinoline	ND		9.7	2.3	ug/L		02/03/25 10:40	02/06/25 16:29	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		02/03/25 10:40	02/06/25 16:29	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		02/03/25 10:40	02/06/25 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		21 - 114	02/03/25 10:40	02/06/25 16:29	1
2-Fluorophenol	51		10 - 105	02/03/25 10:40	02/06/25 16:29	1
Nitrobenzene-d5	71		16 - 127	02/03/25 10:40	02/06/25 16:29	1
Phenol-d5	35		10 - 129	02/03/25 10:40	02/06/25 16:29	1
Terphenyl-d14	84		13 - 150	02/03/25 10:40	02/06/25 16:29	1
2,4,6-Tribromophenol	102		10 - 150	02/03/25 10:40	02/06/25 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.51	J	10	0.085	ug/L		01/30/25 10:36	01/31/25 19:35	1
Acenaphthylene	ND		10	0.047	ug/L		01/30/25 10:36	01/31/25 19:35	1
Anthracene	0.094	J	10	0.073	ug/L		01/30/25 10:36	01/31/25 19:35	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 19:35	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/30/25 10:36	01/31/25 19:35	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/30/25 10:36	01/31/25 19:35	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/30/25 10:36	01/31/25 19:35	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW7-ROX-012725

Lab Sample ID: 400-269899-7

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 19:35	1
Chrysene	ND		10	0.039	ug/L		01/30/25 10:36	01/31/25 19:35	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 19:35	1
Fluoranthene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 19:35	1
Fluorene	0.39	J	10	0.087	ug/L		01/30/25 10:36	01/31/25 19:35	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 19:35	1
1-Methylnaphthalene	5.9	J	10	0.066	ug/L		01/30/25 10:36	01/31/25 19:35	1
2-Methylnaphthalene	7.6	J	10	0.077	ug/L		01/30/25 10:36	01/31/25 19:35	1
Phenanthrene	1.4	J	10	0.044	ug/L		01/30/25 10:36	01/31/25 19:35	1
Pyrene	0.17	J	10	0.040	ug/L		01/30/25 10:36	01/31/25 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		15 - 150	01/30/25 10:36	01/31/25 19:35	1
Nitrobenzene-d5	99		50 - 150	01/30/25 10:36	01/31/25 19:35	1
Terphenyl-d14	121		43 - 147	01/30/25 10:36	01/31/25 19:35	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/30/25 09:24	01/30/25 19:27	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/30/25 09:24	01/30/25 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	72		51 - 149	01/30/25 09:24	01/30/25 19:27	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: TB-ROX-012725-8260-B

Lab Sample ID: 400-269899-8

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/01/25 16:43	1
Acrolein	ND		20	3.3	ug/L			02/01/25 16:43	1
Acrylonitrile	ND		10	2.8	ug/L			02/01/25 16:43	1
Benzene	ND		1.0	0.50	ug/L			02/01/25 16:43	1
Bromobenzene	ND		1.0	0.54	ug/L			02/01/25 16:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/01/25 16:43	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/01/25 16:43	1
Bromoform	ND		5.0	0.25	ug/L			02/01/25 16:43	1
Bromomethane	ND		1.0	0.98	ug/L			02/01/25 16:43	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/01/25 16:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/25 16:43	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/01/25 16:43	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/01/25 16:43	1
Chloroethane	ND		1.0	0.76	ug/L			02/01/25 16:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/01/25 16:43	1
Chloroform	ND		1.0	0.90	ug/L			02/01/25 16:43	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/01/25 16:43	1
Chloromethane	ND		1.0	0.40	ug/L			02/01/25 16:43	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/01/25 16:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/01/25 16:43	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/01/25 16:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/01/25 16:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/01/25 16:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/01/25 16:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/01/25 16:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/01/25 16:43	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/01/25 16:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/01/25 16:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 16:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 16:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 16:43	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/01/25 16:43	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/01/25 16:43	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/01/25 16:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/01/25 16:43	1
2-Hexanone	ND		25	4.3	ug/L			02/01/25 16:43	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/01/25 16:43	1
Methylene bromide	ND		5.0	0.22	ug/L			02/01/25 16:43	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/01/25 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/01/25 16:43	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/01/25 16:43	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/01/25 16:43	1
Naphthalene	ND		5.0	3.0	ug/L			02/01/25 16:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/01/25 16:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/01/25 16:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/01/25 16:43	1
o-Xylene	ND		5.0	3.0	ug/L			02/01/25 16:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/01/25 16:43	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/01/25 16:43	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: TB-ROX-012725-8260-B

Lab Sample ID: 400-269899-8

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/01/25 16:43	1
Styrene	ND		1.0	1.0	ug/L			02/01/25 16:43	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/01/25 16:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/01/25 16:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/01/25 16:43	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/01/25 16:43	1
Toluene	ND		1.0	0.90	ug/L			02/01/25 16:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/01/25 16:43	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/01/25 16:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/01/25 16:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/01/25 16:43	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/01/25 16:43	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/01/25 16:43	1
Trichloroethene	ND		1.0	0.15	ug/L			02/01/25 16:43	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/01/25 16:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/01/25 16:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/01/25 16:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/01/25 16:43	1
Vinyl acetate	ND		25	0.93	ug/L			02/01/25 16:43	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/01/25 16:43	1
Xylenes, Total	ND		10	6.0	ug/L			02/01/25 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136					02/01/25 16:43	1
Dibromofluoromethane	97		79 - 130					02/01/25 16:43	1
Toluene-d8 (Surr)	99		64 - 132					02/01/25 16:43	1

Client Sample Results

Client: AECOM

Job ID: 400-269899-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012725-8011-B

Lab Sample ID: 400-269899-9

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/30/25 09:24	01/30/25 19:48	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/30/25 09:24	01/30/25 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	76		51 - 149				01/30/25 09:24	01/30/25 19:48	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93C-ROX-012725

Lab Sample ID: 400-269899-10

Date Collected: 01/27/25 09:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2500	1000	ug/L			02/02/25 17:06	100
Acrolein	ND		2000	330	ug/L			02/02/25 17:06	100
Acrylonitrile	ND		1000	280	ug/L			02/02/25 17:06	100
Benzene	13000		100	50	ug/L			02/02/25 17:06	100
Bromobenzene	ND		100	54	ug/L			02/02/25 17:06	100
Bromochloromethane	ND		100	52	ug/L			02/02/25 17:06	100
Bromodichloromethane	ND		100	50	ug/L			02/02/25 17:06	100
Bromoform	ND		500	25	ug/L			02/02/25 17:06	100
Bromomethane	ND		100	98	ug/L			02/02/25 17:06	100
2-Butanone (MEK)	ND		2500	260	ug/L			02/02/25 17:06	100
Carbon disulfide	ND		100	50	ug/L			02/02/25 17:06	100
Carbon tetrachloride	ND		100	19	ug/L			02/02/25 17:06	100
Chlorobenzene	ND		100	42	ug/L			02/02/25 17:06	100
Chloroethane	ND		100	76	ug/L			02/02/25 17:06	100
2-Chloroethyl vinyl ether	ND		500	200	ug/L			02/02/25 17:06	100
Chloroform	ND		100	90	ug/L			02/02/25 17:06	100
1-Chlorohexane	ND		100	32	ug/L			02/02/25 17:06	100
Chloromethane	ND		100	40	ug/L			02/02/25 17:06	100
cis-1,2-Dichloroethene	ND		100	20	ug/L			02/02/25 17:06	100
cis-1,3-Dichloropropene	ND		500	50	ug/L			02/02/25 17:06	100
Dibromochloromethane	ND		100	24	ug/L			02/02/25 17:06	100
1,2-Dichlorobenzene	ND		100	50	ug/L			02/02/25 17:06	100
1,3-Dichlorobenzene	ND		100	54	ug/L			02/02/25 17:06	100
1,4-Dichlorobenzene	ND		100	64	ug/L			02/02/25 17:06	100
Dichlorodifluoromethane	ND		100	85	ug/L			02/02/25 17:06	100
1,1-Dichloroethane	ND		100	50	ug/L			02/02/25 17:06	100
1,2-Dichloroethane	ND		100	55	ug/L			02/02/25 17:06	100
1,1-Dichloroethene	ND		100	50	ug/L			02/02/25 17:06	100
1,2-Dichloropropane	ND		100	50	ug/L			02/02/25 17:06	100
1,3-Dichloropropane	ND		100	50	ug/L			02/02/25 17:06	100
2,2-Dichloropropane	ND		100	50	ug/L			02/02/25 17:06	100
1,1-Dichloropropene	ND		100	9.0	ug/L			02/02/25 17:06	100
Ethylbenzene	ND		100	50	ug/L			02/02/25 17:06	100
Ethyl methacrylate	ND		100	60	ug/L			02/02/25 17:06	100
Hexachlorobutadiene	ND		500	90	ug/L			02/02/25 17:06	100
2-Hexanone	ND		2500	430	ug/L			02/02/25 17:06	100
Isopropylbenzene	ND		100	53	ug/L			02/02/25 17:06	100
Methylene bromide	ND		500	22	ug/L			02/02/25 17:06	100
Methylene Chloride	ND		500	300	ug/L			02/02/25 17:06	100
4-Methyl-2-pentanone (MIBK)	ND		2500	180	ug/L			02/02/25 17:06	100
Methyl tert-butyl ether	ND		100	22	ug/L			02/02/25 17:06	100
m-Xylene & p-Xylene	ND		500	300	ug/L			02/02/25 17:06	100
Naphthalene	ND		500	300	ug/L			02/02/25 17:06	100
n-Butylbenzene	ND		100	76	ug/L			02/02/25 17:06	100
N-Propylbenzene	ND		100	69	ug/L			02/02/25 17:06	100
o-Chlorotoluene	ND		100	57	ug/L			02/02/25 17:06	100
o-Xylene	ND		500	300	ug/L			02/02/25 17:06	100
p-Chlorotoluene	ND		100	56	ug/L			02/02/25 17:06	100
p-Isopropyltoluene	ND		100	71	ug/L			02/02/25 17:06	100

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93C-ROX-012725

Lab Sample ID: 400-269899-10

Date Collected: 01/27/25 09:40

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		100	70	ug/L			02/02/25 17:06	100
Styrene	ND		100	100	ug/L			02/02/25 17:06	100
tert-Butylbenzene	ND		100	63	ug/L			02/02/25 17:06	100
1,1,1,2-Tetrachloroethane	ND		100	38	ug/L			02/02/25 17:06	100
1,1,2,2-Tetrachloroethane	ND		100	50	ug/L			02/02/25 17:06	100
Tetrachloroethene	ND		100	33	ug/L			02/02/25 17:06	100
Toluene	ND		100	90	ug/L			02/02/25 17:06	100
trans-1,2-Dichloroethene	ND		100	50	ug/L			02/02/25 17:06	100
trans-1,3-Dichloropropene	ND		500	20	ug/L			02/02/25 17:06	100
1,2,3-Trichlorobenzene	ND		100	90	ug/L			02/02/25 17:06	100
1,2,4-Trichlorobenzene	ND		100	82	ug/L			02/02/25 17:06	100
1,1,1-Trichloroethane	ND		100	18	ug/L			02/02/25 17:06	100
1,1,2-Trichloroethane	ND		500	21	ug/L			02/02/25 17:06	100
Trichloroethene	ND		100	15	ug/L			02/02/25 17:06	100
Trichlorofluoromethane	ND		100	25	ug/L			02/02/25 17:06	100
1,2,3-Trichloropropane	ND		500	84	ug/L			02/02/25 17:06	100
1,2,4-Trimethylbenzene	ND		100	82	ug/L			02/02/25 17:06	100
1,3,5-Trimethylbenzene	ND		100	56	ug/L			02/02/25 17:06	100
Vinyl acetate	ND		2500	93	ug/L			02/02/25 17:06	100
Vinyl chloride	ND	UJ	100	50	ug/L			02/02/25 17:06	100
Xylenes, Total	ND		1000	600	ug/L			02/02/25 17:06	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/02/25 17:06	100
Dibromofluoromethane	98		79 - 130		02/02/25 17:06	100
Toluene-d8 (Surr)	98		64 - 132		02/02/25 17:06	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.9	8.6	ug/L		02/03/25 10:40	02/06/25 16:52	1
Benzenethiol	ND		9.9	9.8	ug/L		02/03/25 10:40	02/06/25 16:52	1
Benzoic acid	ND		30	24	ug/L		02/03/25 10:40	02/06/25 16:52	1
Benzyl alcohol	ND		9.9	7.2	ug/L		02/03/25 10:40	02/06/25 16:52	1
Bis(2-chloroethoxy)methane	ND		9.9	4.5	ug/L		02/03/25 10:40	02/06/25 16:52	1
Bis(2-chloroethyl)ether	ND		9.9	3.9	ug/L		02/03/25 10:40	02/06/25 16:52	1
bis (2-chloroisopropyl) ether	ND		9.9	1.8	ug/L		02/03/25 10:40	02/06/25 16:52	1
Bis(2-ethylhexyl) phthalate	ND		9.9	8.8	ug/L		02/03/25 10:40	02/06/25 16:52	1
4-Bromophenyl phenyl ether	ND		9.9	8.5	ug/L		02/03/25 10:40	02/06/25 16:52	1
Butyl benzyl phthalate	ND		9.9	5.7	ug/L		02/03/25 10:40	02/06/25 16:52	1
4-Chloroaniline	ND		9.9	4.6	ug/L		02/03/25 10:40	02/06/25 16:52	1
4-Chloro-3-methylphenol	ND		9.9	5.2	ug/L		02/03/25 10:40	02/06/25 16:52	1
2-Chloronaphthalene	ND		9.9	3.8	ug/L		02/03/25 10:40	02/06/25 16:52	1
2-Chlorophenol	ND		9.9	4.1	ug/L		02/03/25 10:40	02/06/25 16:52	1
4-Chlorophenyl phenyl ether	ND		9.9	3.7	ug/L		02/03/25 10:40	02/06/25 16:52	1
Dibenz[a,h]acridine	ND	UJ	9.9	2.8	ug/L		02/03/25 10:40	02/06/25 16:52	1
Dibenzofuran	ND		9.9	4.0	ug/L		02/03/25 10:40	02/06/25 16:52	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		02/03/25 10:40	02/06/25 16:52	1
2,4-Dichlorophenol	ND		9.9	4.3	ug/L		02/03/25 10:40	02/06/25 16:52	1
Diethyl phthalate	ND		9.9	4.4	ug/L		02/03/25 10:40	02/06/25 16:52	1
2,4-Dimethylphenol	ND		9.9	5.1	ug/L		02/03/25 10:40	02/06/25 16:52	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93C-ROX-012725

Lab Sample ID: 400-269899-10

Date Collected: 01/27/25 09:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.9	4.2	ug/L		02/03/25 10:40	02/06/25 16:52	1
Di-n-butyl phthalate	ND		9.9	4.5	ug/L		02/03/25 10:40	02/06/25 16:52	1
4,6-Dinitro-ortho-cresol	ND		9.9	9.9	ug/L		02/03/25 10:40	02/06/25 16:52	1
2,4-Dinitrophenol	ND		30	4.5	ug/L		02/03/25 10:40	02/06/25 16:52	1
2,4-Dinitrotoluene	ND		9.9	5.0	ug/L		02/03/25 10:40	02/06/25 16:52	1
2,6-Dinitrotoluene	ND		9.9	3.9	ug/L		02/03/25 10:40	02/06/25 16:52	1
Di-n-octyl phthalate	ND		9.9	5.9	ug/L		02/03/25 10:40	02/06/25 16:52	1
1,4-Dioxane	ND		9.9	4.3	ug/L		02/03/25 10:40	02/06/25 16:52	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.9	3.3	ug/L		02/03/25 10:40	02/06/25 16:52	1
Hexachlorobenzene	ND		9.9	9.6	ug/L		02/03/25 10:40	02/06/25 16:52	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		02/03/25 10:40	02/06/25 16:52	1
Hexachloroethane	ND		9.9	5.1	ug/L		02/03/25 10:40	02/06/25 16:52	1
Indene	ND		9.9	3.6	ug/L		02/03/25 10:40	02/06/25 16:52	1
Isophorone	ND		9.9	5.1	ug/L		02/03/25 10:40	02/06/25 16:52	1
2-Methylphenol	ND		9.9	3.2	ug/L		02/03/25 10:40	02/06/25 16:52	1
3 & 4 Methylphenol	ND		20	4.5	ug/L		02/03/25 10:40	02/06/25 16:52	1
2-Nitroaniline	ND		9.9	4.9	ug/L		02/03/25 10:40	02/06/25 16:52	1
3-Nitroaniline	ND		9.9	4.6	ug/L		02/03/25 10:40	02/06/25 16:52	1
4-Nitroaniline	ND		9.9	4.1	ug/L		02/03/25 10:40	02/06/25 16:52	1
Nitrobenzene	ND		9.9	4.6	ug/L		02/03/25 10:40	02/06/25 16:52	1
2-Nitrophenol	ND		9.9	4.5	ug/L		02/03/25 10:40	02/06/25 16:52	1
4-Nitrophenol	ND		9.9	3.3	ug/L		02/03/25 10:40	02/06/25 16:52	1
N-Nitrosodimethylamine	ND		9.9	2.2	ug/L		02/03/25 10:40	02/06/25 16:52	1
N-Nitrosodi-n-propylamine	ND		9.9	2.5	ug/L		02/03/25 10:40	02/06/25 16:52	1
N-Nitrosodiphenylamine	ND		9.9	3.7	ug/L		02/03/25 10:40	02/06/25 16:52	1
Pentachlorophenol	ND		20	12	ug/L		02/03/25 10:40	02/06/25 16:52	1
Phenol	27		9.9	4.2	ug/L		02/03/25 10:40	02/06/25 16:52	1
Pyridine	ND	*1	9.9	9.9	ug/L		02/03/25 10:40	02/06/25 16:52	1
Quinoline	ND		9.9	2.4	ug/L		02/03/25 10:40	02/06/25 16:52	1
2,4,5-Trichlorophenol	ND		9.9	4.0	ug/L		02/03/25 10:40	02/06/25 16:52	1
2,4,6-Trichlorophenol	ND		9.9	3.5	ug/L		02/03/25 10:40	02/06/25 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		21 - 114	02/03/25 10:40	02/06/25 16:52	1
2-Fluorophenol	43		10 - 105	02/03/25 10:40	02/06/25 16:52	1
Nitrobenzene-d5	66		16 - 127	02/03/25 10:40	02/06/25 16:52	1
Phenol-d5	32		10 - 129	02/03/25 10:40	02/06/25 16:52	1
Terphenyl-d14	84		13 - 150	02/03/25 10:40	02/06/25 16:52	1
2,4,6-Tribromophenol	106		10 - 150	02/03/25 10:40	02/06/25 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/30/25 10:36	01/31/25 20:05	1
Acenaphthylene	ND		10	0.047	ug/L		01/30/25 10:36	01/31/25 20:05	1
Anthracene	ND		10	0.073	ug/L		01/30/25 10:36	01/31/25 20:05	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 20:05	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/30/25 10:36	01/31/25 20:05	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/30/25 10:36	01/31/25 20:05	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/30/25 10:36	01/31/25 20:05	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93C-ROX-012725

Lab Sample ID: 400-269899-10

Date Collected: 01/27/25 09:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 20:05	1
Chrysene	ND		10	0.039	ug/L		01/30/25 10:36	01/31/25 20:05	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 20:05	1
Fluoranthene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 20:05	1
Fluorene	ND		10	0.087	ug/L		01/30/25 10:36	01/31/25 20:05	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 20:05	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/30/25 10:36	01/31/25 20:05	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/30/25 10:36	01/31/25 20:05	1
Phenanthrene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 20:05	1
Pyrene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		15 - 150	01/30/25 10:36	01/31/25 20:05	1
Nitrobenzene-d5	88		50 - 150	01/30/25 10:36	01/31/25 20:05	1
Terphenyl-d14	123		43 - 147	01/30/25 10:36	01/31/25 20:05	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.018	ug/L		01/30/25 09:24	01/30/25 20:09	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/30/25 09:24	01/30/25 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	70		51 - 149	01/30/25 09:24	01/30/25 20:09	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93A-ROX-012725

Lab Sample ID: 400-269899-11

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5000	2000	ug/L			02/02/25 17:31	200
Acrolein	ND		4000	660	ug/L			02/02/25 17:31	200
Acrylonitrile	ND		2000	560	ug/L			02/02/25 17:31	200
Benzene	40000		200	100	ug/L			02/02/25 17:31	200
Bromobenzene	ND		200	110	ug/L			02/02/25 17:31	200
Bromochloromethane	ND		200	100	ug/L			02/02/25 17:31	200
Bromodichloromethane	ND		200	100	ug/L			02/02/25 17:31	200
Bromoform	ND		1000	50	ug/L			02/02/25 17:31	200
Bromomethane	ND		200	200	ug/L			02/02/25 17:31	200
2-Butanone (MEK)	ND		5000	520	ug/L			02/02/25 17:31	200
Carbon disulfide	ND		200	100	ug/L			02/02/25 17:31	200
Carbon tetrachloride	ND		200	38	ug/L			02/02/25 17:31	200
Chlorobenzene	ND		200	84	ug/L			02/02/25 17:31	200
Chloroethane	ND		200	150	ug/L			02/02/25 17:31	200
2-Chloroethyl vinyl ether	ND		1000	400	ug/L			02/02/25 17:31	200
Chloroform	ND		200	180	ug/L			02/02/25 17:31	200
1-Chlorohexane	ND		200	64	ug/L			02/02/25 17:31	200
Chloromethane	ND		200	80	ug/L			02/02/25 17:31	200
cis-1,2-Dichloroethene	ND		200	40	ug/L			02/02/25 17:31	200
cis-1,3-Dichloropropene	ND		1000	100	ug/L			02/02/25 17:31	200
Dibromochloromethane	ND		200	48	ug/L			02/02/25 17:31	200
1,2-Dichlorobenzene	ND		200	100	ug/L			02/02/25 17:31	200
1,3-Dichlorobenzene	ND		200	110	ug/L			02/02/25 17:31	200
1,4-Dichlorobenzene	ND		200	130	ug/L			02/02/25 17:31	200
Dichlorodifluoromethane	ND		200	170	ug/L			02/02/25 17:31	200
1,1-Dichloroethane	ND		200	100	ug/L			02/02/25 17:31	200
1,2-Dichloroethane	ND		200	110	ug/L			02/02/25 17:31	200
1,1-Dichloroethene	ND		200	100	ug/L			02/02/25 17:31	200
1,2-Dichloropropane	ND		200	100	ug/L			02/02/25 17:31	200
1,3-Dichloropropane	ND		200	100	ug/L			02/02/25 17:31	200
2,2-Dichloropropane	ND		200	100	ug/L			02/02/25 17:31	200
1,1-Dichloropropene	ND		200	18	ug/L			02/02/25 17:31	200
Ethylbenzene	ND		200	100	ug/L			02/02/25 17:31	200
Ethyl methacrylate	ND		200	120	ug/L			02/02/25 17:31	200
Hexachlorobutadiene	ND		1000	180	ug/L			02/02/25 17:31	200
2-Hexanone	ND		5000	850	ug/L			02/02/25 17:31	200
Isopropylbenzene	ND		200	110	ug/L			02/02/25 17:31	200
Methylene bromide	ND		1000	44	ug/L			02/02/25 17:31	200
Methylene Chloride	ND		1000	600	ug/L			02/02/25 17:31	200
4-Methyl-2-pentanone (MIBK)	ND		5000	360	ug/L			02/02/25 17:31	200
Methyl tert-butyl ether	ND		200	44	ug/L			02/02/25 17:31	200
m-Xylene & p-Xylene	ND		1000	600	ug/L			02/02/25 17:31	200
Naphthalene	ND		1000	600	ug/L			02/02/25 17:31	200
n-Butylbenzene	ND		200	150	ug/L			02/02/25 17:31	200
N-Propylbenzene	ND		200	140	ug/L			02/02/25 17:31	200
o-Chlorotoluene	ND		200	110	ug/L			02/02/25 17:31	200
o-Xylene	ND		1000	600	ug/L			02/02/25 17:31	200
p-Chlorotoluene	ND		200	110	ug/L			02/02/25 17:31	200
p-Isopropyltoluene	ND		200	140	ug/L			02/02/25 17:31	200

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93A-ROX-012725

Lab Sample ID: 400-269899-11

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		200	140	ug/L			02/02/25 17:31	200
Styrene	ND		200	200	ug/L			02/02/25 17:31	200
tert-Butylbenzene	ND		200	130	ug/L			02/02/25 17:31	200
1,1,1,2-Tetrachloroethane	ND		200	76	ug/L			02/02/25 17:31	200
1,1,2,2-Tetrachloroethane	ND		200	100	ug/L			02/02/25 17:31	200
Tetrachloroethene	ND		200	66	ug/L			02/02/25 17:31	200
Toluene	ND		200	180	ug/L			02/02/25 17:31	200
trans-1,2-Dichloroethene	ND		200	100	ug/L			02/02/25 17:31	200
trans-1,3-Dichloropropene	ND		1000	40	ug/L			02/02/25 17:31	200
1,2,3-Trichlorobenzene	ND		200	180	ug/L			02/02/25 17:31	200
1,2,4-Trichlorobenzene	ND		200	160	ug/L			02/02/25 17:31	200
1,1,1-Trichloroethane	ND		200	36	ug/L			02/02/25 17:31	200
1,1,2-Trichloroethane	ND		1000	42	ug/L			02/02/25 17:31	200
Trichloroethene	ND		200	30	ug/L			02/02/25 17:31	200
Trichlorofluoromethane	ND		200	50	ug/L			02/02/25 17:31	200
1,2,3-Trichloropropane	ND		1000	170	ug/L			02/02/25 17:31	200
1,2,4-Trimethylbenzene	ND		200	160	ug/L			02/02/25 17:31	200
1,3,5-Trimethylbenzene	ND		200	110	ug/L			02/02/25 17:31	200
Vinyl acetate	ND		5000	190	ug/L			02/02/25 17:31	200
Vinyl chloride	ND	UJ	200	100	ug/L			02/02/25 17:31	200
Xylenes, Total	ND		2000	1200	ug/L			02/02/25 17:31	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/02/25 17:31	200
Dibromofluoromethane	95		79 - 130		02/02/25 17:31	200
Toluene-d8 (Surr)	99		64 - 132		02/02/25 17:31	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.7	8.4	ug/L		02/03/25 10:40	02/06/25 17:14	1
Benzenethiol	ND		9.7	9.6	ug/L		02/03/25 10:40	02/06/25 17:14	1
Benzoic acid	ND		29	23	ug/L		02/03/25 10:40	02/06/25 17:14	1
Benzyl alcohol	ND		9.7	7.1	ug/L		02/03/25 10:40	02/06/25 17:14	1
Bis(2-chloroethoxy)methane	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 17:14	1
Bis(2-chloroethyl)ether	ND		9.7	3.8	ug/L		02/03/25 10:40	02/06/25 17:14	1
bis (2-chloroisopropyl) ether	ND		9.7	1.7	ug/L		02/03/25 10:40	02/06/25 17:14	1
Bis(2-ethylhexyl) phthalate	ND		9.7	8.6	ug/L		02/03/25 10:40	02/06/25 17:14	1
4-Bromophenyl phenyl ether	ND		9.7	8.3	ug/L		02/03/25 10:40	02/06/25 17:14	1
Butyl benzyl phthalate	ND		9.7	5.6	ug/L		02/03/25 10:40	02/06/25 17:14	1
4-Chloroaniline	ND		9.7	4.6	ug/L		02/03/25 10:40	02/06/25 17:14	1
4-Chloro-3-methylphenol	ND		9.7	5.1	ug/L		02/03/25 10:40	02/06/25 17:14	1
2-Chloronaphthalene	ND		9.7	3.7	ug/L		02/03/25 10:40	02/06/25 17:14	1
2-Chlorophenol	ND		9.7	4.0	ug/L		02/03/25 10:40	02/06/25 17:14	1
4-Chlorophenyl phenyl ether	ND		9.7	3.6	ug/L		02/03/25 10:40	02/06/25 17:14	1
Dibenz[a,h]acridine	ND	UJ	9.7	2.7	ug/L		02/03/25 10:40	02/06/25 17:14	1
Dibenzofuran	ND		9.7	3.9	ug/L		02/03/25 10:40	02/06/25 17:14	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		02/03/25 10:40	02/06/25 17:14	1
2,4-Dichlorophenol	ND		9.7	4.2	ug/L		02/03/25 10:40	02/06/25 17:14	1
Diethyl phthalate	ND		9.7	4.3	ug/L		02/03/25 10:40	02/06/25 17:14	1
2,4-Dimethylphenol	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 17:14	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93A-ROX-012725

Lab Sample ID: 400-269899-11

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.7	4.1	ug/L		02/03/25 10:40	02/06/25 17:14	1
Di-n-butyl phthalate	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 17:14	1
4,6-Dinitro-ortho-cresol	ND		9.7	9.7	ug/L		02/03/25 10:40	02/06/25 17:14	1
2,4-Dinitrophenol	ND		29	4.5	ug/L		02/03/25 10:40	02/06/25 17:14	1
2,4-Dinitrotoluene	ND		9.7	4.9	ug/L		02/03/25 10:40	02/06/25 17:14	1
2,6-Dinitrotoluene	ND		9.7	3.8	ug/L		02/03/25 10:40	02/06/25 17:14	1
Di-n-octyl phthalate	ND		9.7	5.8	ug/L		02/03/25 10:40	02/06/25 17:14	1
1,4-Dioxane	ND		9.7	4.2	ug/L		02/03/25 10:40	02/06/25 17:14	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.7	3.2	ug/L		02/03/25 10:40	02/06/25 17:14	1
Hexachlorobenzene	ND		9.7	9.4	ug/L		02/03/25 10:40	02/06/25 17:14	1
Hexachlorocyclopentadiene	ND		19	4.4	ug/L		02/03/25 10:40	02/06/25 17:14	1
Hexachloroethane	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 17:14	1
Indene	ND		9.7	3.5	ug/L		02/03/25 10:40	02/06/25 17:14	1
Isophorone	ND		9.7	5.0	ug/L		02/03/25 10:40	02/06/25 17:14	1
2-Methylphenol	ND		9.7	3.1	ug/L		02/03/25 10:40	02/06/25 17:14	1
3 & 4 Methylphenol	ND		19	4.5	ug/L		02/03/25 10:40	02/06/25 17:14	1
2-Nitroaniline	ND		9.7	4.8	ug/L		02/03/25 10:40	02/06/25 17:14	1
3-Nitroaniline	ND		9.7	4.6	ug/L		02/03/25 10:40	02/06/25 17:14	1
4-Nitroaniline	ND		9.7	4.0	ug/L		02/03/25 10:40	02/06/25 17:14	1
Nitrobenzene	ND		9.7	4.6	ug/L		02/03/25 10:40	02/06/25 17:14	1
2-Nitrophenol	ND		9.7	4.5	ug/L		02/03/25 10:40	02/06/25 17:14	1
4-Nitrophenol	ND		9.7	3.2	ug/L		02/03/25 10:40	02/06/25 17:14	1
N-Nitrosodimethylamine	ND		9.7	2.1	ug/L		02/03/25 10:40	02/06/25 17:14	1
N-Nitrosodi-n-propylamine	ND		9.7	2.4	ug/L		02/03/25 10:40	02/06/25 17:14	1
N-Nitrosodiphenylamine	ND		9.7	3.6	ug/L		02/03/25 10:40	02/06/25 17:14	1
Pentachlorophenol	ND		19	12	ug/L		02/03/25 10:40	02/06/25 17:14	1
Phenol	200		9.7	4.1	ug/L		02/03/25 10:40	02/06/25 17:14	1
Pyridine	ND	*1	9.7	9.7	ug/L		02/03/25 10:40	02/06/25 17:14	1
Quinoline	ND		9.7	2.3	ug/L		02/03/25 10:40	02/06/25 17:14	1
2,4,5-Trichlorophenol	ND		9.7	3.9	ug/L		02/03/25 10:40	02/06/25 17:14	1
2,4,6-Trichlorophenol	ND		9.7	3.4	ug/L		02/03/25 10:40	02/06/25 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		21 - 114	02/03/25 10:40	02/06/25 17:14	1
2-Fluorophenol	42		10 - 105	02/03/25 10:40	02/06/25 17:14	1
Nitrobenzene-d5	88		16 - 127	02/03/25 10:40	02/06/25 17:14	1
Phenol-d5	35		10 - 129	02/03/25 10:40	02/06/25 17:14	1
Terphenyl-d14	97		13 - 150	02/03/25 10:40	02/06/25 17:14	1
2,4,6-Tribromophenol	107		10 - 150	02/03/25 10:40	02/06/25 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.24	J	10	0.085	ug/L		01/30/25 10:36	01/31/25 20:35	1
Acenaphthylene	ND		10	0.047	ug/L		01/30/25 10:36	01/31/25 20:35	1
Anthracene	ND		10	0.073	ug/L		01/30/25 10:36	01/31/25 20:35	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 20:35	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/30/25 10:36	01/31/25 20:35	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/30/25 10:36	01/31/25 20:35	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/30/25 10:36	01/31/25 20:35	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93A-ROX-012725

Lab Sample ID: 400-269899-11

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 20:35	1
Chrysene	ND		10	0.039	ug/L		01/30/25 10:36	01/31/25 20:35	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 20:35	1
Fluoranthene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 20:35	1
Fluorene	0.17	J	10	0.087	ug/L		01/30/25 10:36	01/31/25 20:35	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 20:35	1
1-Methylnaphthalene	5.6	J	10	0.066	ug/L		01/30/25 10:36	01/31/25 20:35	1
2-Methylnaphthalene	0.53	J	10	0.077	ug/L		01/30/25 10:36	01/31/25 20:35	1
Phenanthrene	0.049	J	10	0.044	ug/L		01/30/25 10:36	01/31/25 20:35	1
Pyrene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		15 - 150	01/30/25 10:36	01/31/25 20:35	1
Nitrobenzene-d5	85		50 - 150	01/30/25 10:36	01/31/25 20:35	1
Terphenyl-d14	106		43 - 147	01/30/25 10:36	01/31/25 20:35	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/30/25 09:24	01/30/25 20:31	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/30/25 09:24	01/30/25 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		51 - 149	01/30/25 09:24	01/30/25 20:31	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93A-ROX-012725-DUP

Lab Sample ID: 400-269899-12

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5000	2000	ug/L			02/02/25 17:55	200
Acrolein	ND		4000	660	ug/L			02/02/25 17:55	200
Acrylonitrile	ND		2000	560	ug/L			02/02/25 17:55	200
Benzene	40000		200	100	ug/L			02/02/25 17:55	200
Bromobenzene	ND		200	110	ug/L			02/02/25 17:55	200
Bromochloromethane	ND		200	100	ug/L			02/02/25 17:55	200
Bromodichloromethane	ND		200	100	ug/L			02/02/25 17:55	200
Bromoform	ND		1000	50	ug/L			02/02/25 17:55	200
Bromomethane	ND		200	200	ug/L			02/02/25 17:55	200
2-Butanone (MEK)	ND		5000	520	ug/L			02/02/25 17:55	200
Carbon disulfide	ND		200	100	ug/L			02/02/25 17:55	200
Carbon tetrachloride	ND		200	38	ug/L			02/02/25 17:55	200
Chlorobenzene	ND		200	84	ug/L			02/02/25 17:55	200
Chloroethane	ND		200	150	ug/L			02/02/25 17:55	200
2-Chloroethyl vinyl ether	ND		1000	400	ug/L			02/02/25 17:55	200
Chloroform	ND		200	180	ug/L			02/02/25 17:55	200
1-Chlorohexane	ND		200	64	ug/L			02/02/25 17:55	200
Chloromethane	ND		200	80	ug/L			02/02/25 17:55	200
cis-1,2-Dichloroethene	ND		200	40	ug/L			02/02/25 17:55	200
cis-1,3-Dichloropropene	ND		1000	100	ug/L			02/02/25 17:55	200
Dibromochloromethane	ND		200	48	ug/L			02/02/25 17:55	200
1,2-Dichlorobenzene	ND		200	100	ug/L			02/02/25 17:55	200
1,3-Dichlorobenzene	ND		200	110	ug/L			02/02/25 17:55	200
1,4-Dichlorobenzene	ND		200	130	ug/L			02/02/25 17:55	200
Dichlorodifluoromethane	ND		200	170	ug/L			02/02/25 17:55	200
1,1-Dichloroethane	ND		200	100	ug/L			02/02/25 17:55	200
1,2-Dichloroethane	ND		200	110	ug/L			02/02/25 17:55	200
1,1-Dichloroethene	ND		200	100	ug/L			02/02/25 17:55	200
1,2-Dichloropropane	ND		200	100	ug/L			02/02/25 17:55	200
1,3-Dichloropropane	ND		200	100	ug/L			02/02/25 17:55	200
2,2-Dichloropropane	ND		200	100	ug/L			02/02/25 17:55	200
1,1-Dichloropropene	ND		200	18	ug/L			02/02/25 17:55	200
Ethylbenzene	ND		200	100	ug/L			02/02/25 17:55	200
Ethyl methacrylate	ND		200	120	ug/L			02/02/25 17:55	200
Hexachlorobutadiene	ND		1000	180	ug/L			02/02/25 17:55	200
2-Hexanone	ND		5000	850	ug/L			02/02/25 17:55	200
Isopropylbenzene	ND		200	110	ug/L			02/02/25 17:55	200
Methylene bromide	ND		1000	44	ug/L			02/02/25 17:55	200
Methylene Chloride	ND		1000	600	ug/L			02/02/25 17:55	200
4-Methyl-2-pentanone (MIBK)	ND		5000	360	ug/L			02/02/25 17:55	200
Methyl tert-butyl ether	ND		200	44	ug/L			02/02/25 17:55	200
m-Xylene & p-Xylene	ND		1000	600	ug/L			02/02/25 17:55	200
Naphthalene	ND		1000	600	ug/L			02/02/25 17:55	200
n-Butylbenzene	ND		200	150	ug/L			02/02/25 17:55	200
N-Propylbenzene	ND		200	140	ug/L			02/02/25 17:55	200
o-Chlorotoluene	ND		200	110	ug/L			02/02/25 17:55	200
o-Xylene	ND		1000	600	ug/L			02/02/25 17:55	200
p-Chlorotoluene	ND		200	110	ug/L			02/02/25 17:55	200
p-Isopropyltoluene	ND		200	140	ug/L			02/02/25 17:55	200

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93A-ROX-012725-DUP

Lab Sample ID: 400-269899-12

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		200	140	ug/L			02/02/25 17:55	200
Styrene	ND		200	200	ug/L			02/02/25 17:55	200
tert-Butylbenzene	ND		200	130	ug/L			02/02/25 17:55	200
1,1,1,2-Tetrachloroethane	ND		200	76	ug/L			02/02/25 17:55	200
1,1,2,2-Tetrachloroethane	ND		200	100	ug/L			02/02/25 17:55	200
Tetrachloroethene	ND		200	66	ug/L			02/02/25 17:55	200
Toluene	ND		200	180	ug/L			02/02/25 17:55	200
trans-1,2-Dichloroethene	ND		200	100	ug/L			02/02/25 17:55	200
trans-1,3-Dichloropropene	ND		1000	40	ug/L			02/02/25 17:55	200
1,2,3-Trichlorobenzene	ND		200	180	ug/L			02/02/25 17:55	200
1,2,4-Trichlorobenzene	ND		200	160	ug/L			02/02/25 17:55	200
1,1,1-Trichloroethane	ND		200	36	ug/L			02/02/25 17:55	200
1,1,2-Trichloroethane	ND		1000	42	ug/L			02/02/25 17:55	200
Trichloroethene	ND		200	30	ug/L			02/02/25 17:55	200
Trichlorofluoromethane	ND		200	50	ug/L			02/02/25 17:55	200
1,2,3-Trichloropropane	ND		1000	170	ug/L			02/02/25 17:55	200
1,2,4-Trimethylbenzene	ND		200	160	ug/L			02/02/25 17:55	200
1,3,5-Trimethylbenzene	ND		200	110	ug/L			02/02/25 17:55	200
Vinyl acetate	ND		5000	190	ug/L			02/02/25 17:55	200
Vinyl chloride	ND	UJ	200	100	ug/L			02/02/25 17:55	200
Xylenes, Total	ND		2000	1200	ug/L			02/02/25 17:55	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/02/25 17:55	200
Dibromofluoromethane	96		79 - 130		02/02/25 17:55	200
Toluene-d8 (Surr)	99		64 - 132		02/02/25 17:55	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.5	8.3	ug/L		02/03/25 10:40	02/06/25 17:37	1
Benzenethiol	ND		9.5	9.4	ug/L		02/03/25 10:40	02/06/25 17:37	1
Benzoic acid	ND		29	23	ug/L		02/03/25 10:40	02/06/25 17:37	1
Benzyl alcohol	ND		9.5	6.9	ug/L		02/03/25 10:40	02/06/25 17:37	1
Bis(2-chloroethoxy)methane	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 17:37	1
Bis(2-chloroethyl)ether	ND		9.5	3.7	ug/L		02/03/25 10:40	02/06/25 17:37	1
bis (2-chloroisopropyl) ether	ND		9.5	1.7	ug/L		02/03/25 10:40	02/06/25 17:37	1
Bis(2-ethylhexyl) phthalate	ND		9.5	8.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
4-Bromophenyl phenyl ether	ND		9.5	8.2	ug/L		02/03/25 10:40	02/06/25 17:37	1
Butyl benzyl phthalate	ND		9.5	5.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
4-Chloroaniline	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
4-Chloro-3-methylphenol	ND		9.5	5.0	ug/L		02/03/25 10:40	02/06/25 17:37	1
2-Chloronaphthalene	ND		9.5	3.6	ug/L		02/03/25 10:40	02/06/25 17:37	1
2-Chlorophenol	ND		9.5	3.9	ug/L		02/03/25 10:40	02/06/25 17:37	1
4-Chlorophenyl phenyl ether	ND		9.5	3.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
Dibenz[a,h]acridine	ND	UJ	9.5	2.7	ug/L		02/03/25 10:40	02/06/25 17:37	1
Dibenzofuran	ND		9.5	3.8	ug/L		02/03/25 10:40	02/06/25 17:37	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		02/03/25 10:40	02/06/25 17:37	1
2,4-Dichlorophenol	ND		9.5	4.1	ug/L		02/03/25 10:40	02/06/25 17:37	1
Diethyl phthalate	ND		9.5	4.2	ug/L		02/03/25 10:40	02/06/25 17:37	1
2,4-Dimethylphenol	ND		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 17:37	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93A-ROX-012725-DUP

Lab Sample ID: 400-269899-12

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.5	4.0	ug/L		02/03/25 10:40	02/06/25 17:37	1
Di-n-butyl phthalate	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 17:37	1
4,6-Dinitro-ortho-cresol	ND		9.5	9.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		02/03/25 10:40	02/06/25 17:37	1
2,4-Dinitrotoluene	ND		9.5	4.8	ug/L		02/03/25 10:40	02/06/25 17:37	1
2,6-Dinitrotoluene	ND		9.5	3.7	ug/L		02/03/25 10:40	02/06/25 17:37	1
Di-n-octyl phthalate	ND		9.5	5.7	ug/L		02/03/25 10:40	02/06/25 17:37	1
1,4-Dioxane	ND		9.5	4.1	ug/L		02/03/25 10:40	02/06/25 17:37	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.5	3.1	ug/L		02/03/25 10:40	02/06/25 17:37	1
Hexachlorobenzene	ND		9.5	9.2	ug/L		02/03/25 10:40	02/06/25 17:37	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		02/03/25 10:40	02/06/25 17:37	1
Hexachloroethane	ND		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 17:37	1
Indene	ND		9.5	3.4	ug/L		02/03/25 10:40	02/06/25 17:37	1
Isophorone	ND		9.5	4.9	ug/L		02/03/25 10:40	02/06/25 17:37	1
2-Methylphenol	ND		9.5	3.0	ug/L		02/03/25 10:40	02/06/25 17:37	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		02/03/25 10:40	02/06/25 17:37	1
2-Nitroaniline	ND		9.5	4.8	ug/L		02/03/25 10:40	02/06/25 17:37	1
3-Nitroaniline	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
4-Nitroaniline	ND		9.5	3.9	ug/L		02/03/25 10:40	02/06/25 17:37	1
Nitrobenzene	ND		9.5	4.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
2-Nitrophenol	ND		9.5	4.4	ug/L		02/03/25 10:40	02/06/25 17:37	1
4-Nitrophenol	ND		9.5	3.1	ug/L		02/03/25 10:40	02/06/25 17:37	1
N-Nitrosodimethylamine	ND		9.5	2.1	ug/L		02/03/25 10:40	02/06/25 17:37	1
N-Nitrosodi-n-propylamine	ND		9.5	2.4	ug/L		02/03/25 10:40	02/06/25 17:37	1
N-Nitrosodiphenylamine	ND		9.5	3.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
Pentachlorophenol	ND		19	11	ug/L		02/03/25 10:40	02/06/25 17:37	1
Phenol	190		9.5	4.0	ug/L		02/03/25 10:40	02/06/25 17:37	1
Pyridine	ND	*1	9.5	9.5	ug/L		02/03/25 10:40	02/06/25 17:37	1
Quinoline	ND		9.5	2.3	ug/L		02/03/25 10:40	02/06/25 17:37	1
2,4,5-Trichlorophenol	ND		9.5	3.8	ug/L		02/03/25 10:40	02/06/25 17:37	1
2,4,6-Trichlorophenol	ND		9.5	3.3	ug/L		02/03/25 10:40	02/06/25 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		21 - 114	02/03/25 10:40	02/06/25 17:37	1
2-Fluorophenol	42		10 - 105	02/03/25 10:40	02/06/25 17:37	1
Nitrobenzene-d5	66		16 - 127	02/03/25 10:40	02/06/25 17:37	1
Phenol-d5	34		10 - 129	02/03/25 10:40	02/06/25 17:37	1
Terphenyl-d14	69		13 - 150	02/03/25 10:40	02/06/25 17:37	1
2,4,6-Tribromophenol	110		10 - 150	02/03/25 10:40	02/06/25 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.12	J	10	0.086	ug/L		01/30/25 10:36	01/31/25 21:05	1
Acenaphthylene	0.055	J	10	0.048	ug/L		01/30/25 10:36	01/31/25 21:05	1
Anthracene	ND		10	0.074	ug/L		01/30/25 10:36	01/31/25 21:05	1
Benzo[a]anthracene	ND		10	0.041	ug/L		01/30/25 10:36	01/31/25 21:05	1
Benzo[a]pyrene	ND		10	0.046	ug/L		01/30/25 10:36	01/31/25 21:05	1
Benzo[b]fluoranthene	ND		10	0.043	ug/L		01/30/25 10:36	01/31/25 21:05	1
Benzo[g,h,i]perylene	ND		10	0.053	ug/L		01/30/25 10:36	01/31/25 21:05	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93A-ROX-012725-DUP

Lab Sample ID: 400-269899-12

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.041	ug/L		01/30/25 10:36	01/31/25 21:05	1
Chrysene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 21:05	1
Dibenz(a,h)anthracene	ND		10	0.045	ug/L		01/30/25 10:36	01/31/25 21:05	1
Fluoranthene	ND		10	0.033	ug/L		01/30/25 10:36	01/31/25 21:05	1
Fluorene	0.18	J	10	0.088	ug/L		01/30/25 10:36	01/31/25 21:05	1
Indeno[1,2,3-cd]pyrene	ND		10	0.033	ug/L		01/30/25 10:36	01/31/25 21:05	1
1-Methylnaphthalene	6.5	J	10	0.067	ug/L		01/30/25 10:36	01/31/25 21:05	1
2-Methylnaphthalene	0.64	J	10	0.078	ug/L		01/30/25 10:36	01/31/25 21:05	1
Phenanthrene	0.062	J	10	0.045	ug/L		01/30/25 10:36	01/31/25 21:05	1
Pyrene	ND		10	0.041	ug/L		01/30/25 10:36	01/31/25 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		15 - 150	01/30/25 10:36	01/31/25 21:05	1
Nitrobenzene-d5	100		50 - 150	01/30/25 10:36	01/31/25 21:05	1
Terphenyl-d14	124		43 - 147	01/30/25 10:36	01/31/25 21:05	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.032	0.018	ug/L		01/30/25 09:24	01/30/25 20:52	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/30/25 09:24	01/30/25 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		51 - 149	01/30/25 09:24	01/30/25 20:52	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P58-ROX-012725

Lab Sample ID: 400-269899-13

Date Collected: 01/27/25 12:00

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50000	20000	ug/L			02/02/25 18:20	2000
Acrolein	ND		40000	6600	ug/L			02/02/25 18:20	2000
Acrylonitrile	ND		20000	5600	ug/L			02/02/25 18:20	2000
Benzene	230000		2000	1000	ug/L			02/02/25 18:20	2000
Bromobenzene	ND		2000	1100	ug/L			02/02/25 18:20	2000
Bromochloromethane	ND		2000	1000	ug/L			02/02/25 18:20	2000
Bromodichloromethane	ND		2000	1000	ug/L			02/02/25 18:20	2000
Bromoform	ND		10000	500	ug/L			02/02/25 18:20	2000
Bromomethane	ND		2000	2000	ug/L			02/02/25 18:20	2000
2-Butanone (MEK)	ND		50000	5200	ug/L			02/02/25 18:20	2000
Carbon disulfide	ND		2000	1000	ug/L			02/02/25 18:20	2000
Carbon tetrachloride	ND		2000	380	ug/L			02/02/25 18:20	2000
Chlorobenzene	ND		2000	840	ug/L			02/02/25 18:20	2000
Chloroethane	ND		2000	1500	ug/L			02/02/25 18:20	2000
2-Chloroethyl vinyl ether	ND		10000	4000	ug/L			02/02/25 18:20	2000
Chloroform	ND		2000	1800	ug/L			02/02/25 18:20	2000
1-Chlorohexane	ND		2000	640	ug/L			02/02/25 18:20	2000
Chloromethane	ND		2000	800	ug/L			02/02/25 18:20	2000
cis-1,2-Dichloroethene	ND		2000	400	ug/L			02/02/25 18:20	2000
cis-1,3-Dichloropropene	ND		10000	1000	ug/L			02/02/25 18:20	2000
Dibromochloromethane	ND		2000	480	ug/L			02/02/25 18:20	2000
1,2-Dichlorobenzene	ND		2000	1000	ug/L			02/02/25 18:20	2000
1,3-Dichlorobenzene	ND		2000	1100	ug/L			02/02/25 18:20	2000
1,4-Dichlorobenzene	ND		2000	1300	ug/L			02/02/25 18:20	2000
Dichlorodifluoromethane	ND		2000	1700	ug/L			02/02/25 18:20	2000
1,1-Dichloroethane	ND		2000	1000	ug/L			02/02/25 18:20	2000
1,2-Dichloroethane	ND		2000	1100	ug/L			02/02/25 18:20	2000
1,1-Dichloroethene	ND		2000	1000	ug/L			02/02/25 18:20	2000
1,2-Dichloropropane	ND		2000	1000	ug/L			02/02/25 18:20	2000
1,3-Dichloropropane	ND		2000	1000	ug/L			02/02/25 18:20	2000
2,2-Dichloropropane	ND		2000	1000	ug/L			02/02/25 18:20	2000
1,1-Dichloropropene	ND		2000	180	ug/L			02/02/25 18:20	2000
Ethylbenzene	ND		2000	1000	ug/L			02/02/25 18:20	2000
Ethyl methacrylate	ND		2000	1200	ug/L			02/02/25 18:20	2000
Hexachlorobutadiene	ND		10000	1800	ug/L			02/02/25 18:20	2000
2-Hexanone	ND		50000	8500	ug/L			02/02/25 18:20	2000
Isopropylbenzene	ND		2000	1100	ug/L			02/02/25 18:20	2000
Methylene bromide	ND		10000	440	ug/L			02/02/25 18:20	2000
Methylene Chloride	ND		10000	6000	ug/L			02/02/25 18:20	2000
4-Methyl-2-pentanone (MIBK)	ND		50000	3600	ug/L			02/02/25 18:20	2000
Methyl tert-butyl ether	ND		2000	440	ug/L			02/02/25 18:20	2000
m-Xylene & p-Xylene	ND		10000	6000	ug/L			02/02/25 18:20	2000
Naphthalene	ND		10000	6000	ug/L			02/02/25 18:20	2000
n-Butylbenzene	ND		2000	1500	ug/L			02/02/25 18:20	2000
N-Propylbenzene	ND		2000	1400	ug/L			02/02/25 18:20	2000
o-Chlorotoluene	ND		2000	1100	ug/L			02/02/25 18:20	2000
o-Xylene	ND		10000	6000	ug/L			02/02/25 18:20	2000
p-Chlorotoluene	ND		2000	1100	ug/L			02/02/25 18:20	2000
p-Isopropyltoluene	ND		2000	1400	ug/L			02/02/25 18:20	2000

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P58-ROX-012725

Lab Sample ID: 400-269899-13

Date Collected: 01/27/25 12:00

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2000	1400	ug/L			02/02/25 18:20	2000
Styrene	ND		2000	2000	ug/L			02/02/25 18:20	2000
tert-Butylbenzene	ND		2000	1300	ug/L			02/02/25 18:20	2000
1,1,1,2-Tetrachloroethane	ND		2000	760	ug/L			02/02/25 18:20	2000
1,1,2,2-Tetrachloroethane	ND		2000	1000	ug/L			02/02/25 18:20	2000
Tetrachloroethene	ND		2000	660	ug/L			02/02/25 18:20	2000
Toluene	ND		2000	1800	ug/L			02/02/25 18:20	2000
trans-1,2-Dichloroethene	ND		2000	1000	ug/L			02/02/25 18:20	2000
trans-1,3-Dichloropropene	ND		10000	400	ug/L			02/02/25 18:20	2000
1,2,3-Trichlorobenzene	ND		2000	1800	ug/L			02/02/25 18:20	2000
1,2,4-Trichlorobenzene	ND		2000	1600	ug/L			02/02/25 18:20	2000
1,1,1-Trichloroethane	ND		2000	360	ug/L			02/02/25 18:20	2000
1,1,2-Trichloroethane	ND		10000	420	ug/L			02/02/25 18:20	2000
Trichloroethene	ND		2000	300	ug/L			02/02/25 18:20	2000
Trichlorofluoromethane	ND		2000	500	ug/L			02/02/25 18:20	2000
1,2,3-Trichloropropane	ND		10000	1700	ug/L			02/02/25 18:20	2000
1,2,4-Trimethylbenzene	ND		2000	1600	ug/L			02/02/25 18:20	2000
1,3,5-Trimethylbenzene	ND		2000	1100	ug/L			02/02/25 18:20	2000
Vinyl acetate	ND		50000	1900	ug/L			02/02/25 18:20	2000
Vinyl chloride	ND	UJ	2000	1000	ug/L			02/02/25 18:20	2000
Xylenes, Total	ND		20000	12000	ug/L			02/02/25 18:20	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/02/25 18:20	2000
Dibromofluoromethane	96		79 - 130		02/02/25 18:20	2000
Toluene-d8 (Surr)	97		64 - 132		02/02/25 18:20	2000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		02/03/25 10:40	02/06/25 17:59	1
Benzenethiol	ND		10	9.9	ug/L		02/03/25 10:40	02/06/25 17:59	1
Benzoic acid	ND		30	24	ug/L		02/03/25 10:40	02/06/25 17:59	1
Benzyl alcohol	ND		10	7.3	ug/L		02/03/25 10:40	02/06/25 17:59	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		02/03/25 10:40	02/06/25 17:59	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		02/03/25 10:40	02/06/25 17:59	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		02/03/25 10:40	02/06/25 17:59	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		02/03/25 10:40	02/06/25 17:59	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		02/03/25 10:40	02/06/25 17:59	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		02/03/25 10:40	02/06/25 17:59	1
4-Chloroaniline	ND		10	4.7	ug/L		02/03/25 10:40	02/06/25 17:59	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		02/03/25 10:40	02/06/25 17:59	1
2-Chloronaphthalene	ND		10	3.8	ug/L		02/03/25 10:40	02/06/25 17:59	1
2-Chlorophenol	ND		10	4.1	ug/L		02/03/25 10:40	02/06/25 17:59	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		02/03/25 10:40	02/06/25 17:59	1
Dibenz[a,h]acridine	ND	UJ	10	2.8	ug/L		02/03/25 10:40	02/06/25 17:59	1
Dibenzofuran	ND		10	4.0	ug/L		02/03/25 10:40	02/06/25 17:59	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		02/03/25 10:40	02/06/25 17:59	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		02/03/25 10:40	02/06/25 17:59	1
Diethyl phthalate	ND		10	4.4	ug/L		02/03/25 10:40	02/06/25 17:59	1
2,4-Dimethylphenol	16		10	5.2	ug/L		02/03/25 10:40	02/06/25 17:59	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P58-ROX-012725

Lab Sample ID: 400-269899-13

Date Collected: 01/27/25 12:00

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		10	4.2	ug/L		02/03/25 10:40	02/06/25 17:59	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		02/03/25 10:40	02/06/25 17:59	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		02/03/25 10:40	02/06/25 17:59	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		02/03/25 10:40	02/06/25 17:59	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		02/03/25 10:40	02/06/25 17:59	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		02/03/25 10:40	02/06/25 17:59	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		02/03/25 10:40	02/06/25 17:59	1
1,4-Dioxane	ND		10	4.3	ug/L		02/03/25 10:40	02/06/25 17:59	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		02/03/25 10:40	02/06/25 17:59	1
Hexachlorobenzene	ND		10	9.7	ug/L		02/03/25 10:40	02/06/25 17:59	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		02/03/25 10:40	02/06/25 17:59	1
Hexachloroethane	ND		10	5.2	ug/L		02/03/25 10:40	02/06/25 17:59	1
Indene	ND		10	3.6	ug/L		02/03/25 10:40	02/06/25 17:59	1
Isophorone	ND		10	5.2	ug/L		02/03/25 10:40	02/06/25 17:59	1
2-Methylphenol	ND		10	3.2	ug/L		02/03/25 10:40	02/06/25 17:59	1
3 & 4 Methylphenol	29		20	4.6	ug/L		02/03/25 10:40	02/06/25 17:59	1
2-Nitroaniline	ND		10	5.0	ug/L		02/03/25 10:40	02/06/25 17:59	1
3-Nitroaniline	ND		10	4.7	ug/L		02/03/25 10:40	02/06/25 17:59	1
4-Nitroaniline	ND		10	4.1	ug/L		02/03/25 10:40	02/06/25 17:59	1
Nitrobenzene	ND		10	4.7	ug/L		02/03/25 10:40	02/06/25 17:59	1
2-Nitrophenol	ND		10	4.6	ug/L		02/03/25 10:40	02/06/25 17:59	1
4-Nitrophenol	ND		10	3.3	ug/L		02/03/25 10:40	02/06/25 17:59	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		02/03/25 10:40	02/06/25 17:59	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		02/03/25 10:40	02/06/25 17:59	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		02/03/25 10:40	02/06/25 17:59	1
Pentachlorophenol	ND		20	12	ug/L		02/03/25 10:40	02/06/25 17:59	1
Phenol	210		10	4.2	ug/L		02/03/25 10:40	02/06/25 17:59	1
Pyridine	ND *1		10	10	ug/L		02/03/25 10:40	02/06/25 17:59	1
Quinoline	ND		10	2.4	ug/L		02/03/25 10:40	02/06/25 17:59	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		02/03/25 10:40	02/06/25 17:59	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		02/03/25 10:40	02/06/25 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		21 - 114	02/03/25 10:40	02/06/25 17:59	1
2-Fluorophenol	44		10 - 105	02/03/25 10:40	02/06/25 17:59	1
Nitrobenzene-d5	84		16 - 127	02/03/25 10:40	02/06/25 17:59	1
Phenol-d5	34		10 - 129	02/03/25 10:40	02/06/25 17:59	1
Terphenyl-d14	71		13 - 150	02/03/25 10:40	02/06/25 17:59	1
2,4,6-Tribromophenol	101		10 - 150	02/03/25 10:40	02/06/25 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.7	J	10	0.086	ug/L		01/30/25 10:36	01/31/25 21:35	1
Acenaphthylene	0.31	J	10	0.047	ug/L		01/30/25 10:36	01/31/25 21:35	1
Anthracene	0.14	J	10	0.073	ug/L		01/30/25 10:36	01/31/25 21:35	1
Benzo[a]anthracene	0.20	J	10	0.040	ug/L		01/30/25 10:36	01/31/25 21:35	1
Benzo[a]pyrene	0.25	J	10	0.045	ug/L		01/30/25 10:36	01/31/25 21:35	1
Benzo[b]fluoranthene	0.15	J	10	0.042	ug/L		01/30/25 10:36	01/31/25 21:35	1
Benzo[g,h,i]perylene	0.11	J	10	0.052	ug/L		01/30/25 10:36	01/31/25 21:35	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P58-ROX-012725

Lab Sample ID: 400-269899-13

Date Collected: 01/27/25 12:00

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 21:35	1
Chrysene	0.39	J	10	0.039	ug/L		01/30/25 10:36	01/31/25 21:35	1
Dibenz(a,h)anthracene	0.059	J	10	0.044	ug/L		01/30/25 10:36	01/31/25 21:35	1
Fluoranthene	0.11	J	10	0.032	ug/L		01/30/25 10:36	01/31/25 21:35	1
Fluorene	2.5	J	10	0.088	ug/L		01/30/25 10:36	01/31/25 21:35	1
Indeno[1,2,3-cd]pyrene	0.039	J	10	0.032	ug/L		01/30/25 10:36	01/31/25 21:35	1
2-Methylnaphthalene	56		10	0.078	ug/L		01/30/25 10:36	01/31/25 21:35	1
Phenanthrene	1.6	J	10	0.044	ug/L		01/30/25 10:36	01/31/25 21:35	1
Pyrene	0.50	J	10	0.040	ug/L		01/30/25 10:36	01/31/25 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		15 - 150				01/30/25 10:36	01/31/25 21:35	1
Nitrobenzene-d5	109		50 - 150				01/30/25 10:36	01/31/25 21:35	1
Terphenyl-d14	108		43 - 147				01/30/25 10:36	01/31/25 21:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	90		50	0.33	ug/L		01/30/25 10:36	02/03/25 13:28	5

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.034	0.019	ug/L		01/30/25 09:24	01/30/25 21:13	1
1,2-Dibromoethane	ND		0.023	0.017	ug/L		01/30/25 09:24	01/30/25 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		51 - 149				01/30/25 09:24	01/30/25 21:13	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93B-ROX-012725

Lab Sample ID: 400-269899-14

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50000	20000	ug/L			02/02/25 18:44	2000
Acrolein	ND		40000	6600	ug/L			02/02/25 18:44	2000
Acrylonitrile	ND		20000	5600	ug/L			02/02/25 18:44	2000
Benzene	460000		2000	1000	ug/L			02/02/25 18:44	2000
Bromobenzene	ND		2000	1100	ug/L			02/02/25 18:44	2000
Bromochloromethane	ND		2000	1000	ug/L			02/02/25 18:44	2000
Bromodichloromethane	ND		2000	1000	ug/L			02/02/25 18:44	2000
Bromoform	ND		10000	500	ug/L			02/02/25 18:44	2000
Bromomethane	ND		2000	2000	ug/L			02/02/25 18:44	2000
2-Butanone (MEK)	ND		50000	5200	ug/L			02/02/25 18:44	2000
Carbon disulfide	ND		2000	1000	ug/L			02/02/25 18:44	2000
Carbon tetrachloride	ND		2000	380	ug/L			02/02/25 18:44	2000
Chlorobenzene	ND		2000	840	ug/L			02/02/25 18:44	2000
Chloroethane	ND		2000	1500	ug/L			02/02/25 18:44	2000
2-Chloroethyl vinyl ether	ND		10000	4000	ug/L			02/02/25 18:44	2000
Chloroform	ND		2000	1800	ug/L			02/02/25 18:44	2000
1-Chlorohexane	ND		2000	640	ug/L			02/02/25 18:44	2000
Chloromethane	ND		2000	800	ug/L			02/02/25 18:44	2000
cis-1,2-Dichloroethene	ND		2000	400	ug/L			02/02/25 18:44	2000
cis-1,3-Dichloropropene	ND		10000	1000	ug/L			02/02/25 18:44	2000
Dibromochloromethane	ND		2000	480	ug/L			02/02/25 18:44	2000
1,2-Dichlorobenzene	ND		2000	1000	ug/L			02/02/25 18:44	2000
1,3-Dichlorobenzene	ND		2000	1100	ug/L			02/02/25 18:44	2000
1,4-Dichlorobenzene	ND		2000	1300	ug/L			02/02/25 18:44	2000
Dichlorodifluoromethane	ND		2000	1700	ug/L			02/02/25 18:44	2000
1,1-Dichloroethane	ND		2000	1000	ug/L			02/02/25 18:44	2000
1,2-Dichloroethane	ND		2000	1100	ug/L			02/02/25 18:44	2000
1,1-Dichloroethene	ND		2000	1000	ug/L			02/02/25 18:44	2000
1,2-Dichloropropane	ND		2000	1000	ug/L			02/02/25 18:44	2000
1,3-Dichloropropane	ND		2000	1000	ug/L			02/02/25 18:44	2000
2,2-Dichloropropane	ND		2000	1000	ug/L			02/02/25 18:44	2000
1,1-Dichloropropene	ND		2000	180	ug/L			02/02/25 18:44	2000
Ethylbenzene	ND		2000	1000	ug/L			02/02/25 18:44	2000
Ethyl methacrylate	ND		2000	1200	ug/L			02/02/25 18:44	2000
Hexachlorobutadiene	ND		10000	1800	ug/L			02/02/25 18:44	2000
2-Hexanone	ND		50000	8500	ug/L			02/02/25 18:44	2000
Isopropylbenzene	ND		2000	1100	ug/L			02/02/25 18:44	2000
Methylene bromide	ND		10000	440	ug/L			02/02/25 18:44	2000
Methylene Chloride	ND		10000	6000	ug/L			02/02/25 18:44	2000
4-Methyl-2-pentanone (MIBK)	ND		50000	3600	ug/L			02/02/25 18:44	2000
Methyl tert-butyl ether	ND		2000	440	ug/L			02/02/25 18:44	2000
m-Xylene & p-Xylene	ND		10000	6000	ug/L			02/02/25 18:44	2000
Naphthalene	ND		10000	6000	ug/L			02/02/25 18:44	2000
n-Butylbenzene	ND		2000	1500	ug/L			02/02/25 18:44	2000
N-Propylbenzene	ND		2000	1400	ug/L			02/02/25 18:44	2000
o-Chlorotoluene	ND		2000	1100	ug/L			02/02/25 18:44	2000
o-Xylene	ND		10000	6000	ug/L			02/02/25 18:44	2000
p-Chlorotoluene	ND		2000	1100	ug/L			02/02/25 18:44	2000
p-Isopropyltoluene	ND		2000	1400	ug/L			02/02/25 18:44	2000

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93B-ROX-012725

Lab Sample ID: 400-269899-14

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2000	1400	ug/L			02/02/25 18:44	2000
Styrene	ND		2000	2000	ug/L			02/02/25 18:44	2000
tert-Butylbenzene	ND		2000	1300	ug/L			02/02/25 18:44	2000
1,1,1,2-Tetrachloroethane	ND		2000	760	ug/L			02/02/25 18:44	2000
1,1,2,2-Tetrachloroethane	ND		2000	1000	ug/L			02/02/25 18:44	2000
Tetrachloroethene	ND		2000	660	ug/L			02/02/25 18:44	2000
Toluene	ND		2000	1800	ug/L			02/02/25 18:44	2000
trans-1,2-Dichloroethene	ND		2000	1000	ug/L			02/02/25 18:44	2000
trans-1,3-Dichloropropene	ND		10000	400	ug/L			02/02/25 18:44	2000
1,2,3-Trichlorobenzene	ND		2000	1800	ug/L			02/02/25 18:44	2000
1,2,4-Trichlorobenzene	ND		2000	1600	ug/L			02/02/25 18:44	2000
1,1,1-Trichloroethane	ND		2000	360	ug/L			02/02/25 18:44	2000
1,1,2-Trichloroethane	ND		10000	420	ug/L			02/02/25 18:44	2000
Trichloroethene	ND		2000	300	ug/L			02/02/25 18:44	2000
Trichlorofluoromethane	ND		2000	500	ug/L			02/02/25 18:44	2000
1,2,3-Trichloropropane	ND		10000	1700	ug/L			02/02/25 18:44	2000
1,2,4-Trimethylbenzene	ND		2000	1600	ug/L			02/02/25 18:44	2000
1,3,5-Trimethylbenzene	ND		2000	1100	ug/L			02/02/25 18:44	2000
Vinyl acetate	ND		50000	1900	ug/L			02/02/25 18:44	2000
Vinyl chloride	ND	UJ	2000	1000	ug/L			02/02/25 18:44	2000
Xylenes, Total	ND		20000	12000	ug/L			02/02/25 18:44	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 136		02/02/25 18:44	2000
Dibromofluoromethane	96		79 - 130		02/02/25 18:44	2000
Toluene-d8 (Surr)	98		64 - 132		02/02/25 18:44	2000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		9.6	8.3	ug/L		02/03/25 10:40	02/06/25 18:22	1
Benzenethiol	ND		9.6	9.5	ug/L		02/03/25 10:40	02/06/25 18:22	1
Benzoic acid	ND		29	23	ug/L		02/03/25 10:40	02/06/25 18:22	1
Benzyl alcohol	ND		9.6	7.0	ug/L		02/03/25 10:40	02/06/25 18:22	1
Bis(2-chloroethoxy)methane	ND		9.6	4.4	ug/L		02/03/25 10:40	02/06/25 18:22	1
Bis(2-chloroethyl)ether	ND		9.6	3.7	ug/L		02/03/25 10:40	02/06/25 18:22	1
bis (2-chloroisopropyl) ether	ND		9.6	1.7	ug/L		02/03/25 10:40	02/06/25 18:22	1
Bis(2-ethylhexyl) phthalate	ND		9.6	8.5	ug/L		02/03/25 10:40	02/06/25 18:22	1
4-Bromophenyl phenyl ether	ND		9.6	8.3	ug/L		02/03/25 10:40	02/06/25 18:22	1
Butyl benzyl phthalate	ND		9.6	5.6	ug/L		02/03/25 10:40	02/06/25 18:22	1
4-Chloroaniline	ND		9.6	4.5	ug/L		02/03/25 10:40	02/06/25 18:22	1
4-Chloro-3-methylphenol	ND		9.6	5.1	ug/L		02/03/25 10:40	02/06/25 18:22	1
2-Chloronaphthalene	ND		9.6	3.6	ug/L		02/03/25 10:40	02/06/25 18:22	1
2-Chlorophenol	ND		9.6	3.9	ug/L		02/03/25 10:40	02/06/25 18:22	1
4-Chlorophenyl phenyl ether	ND		9.6	3.5	ug/L		02/03/25 10:40	02/06/25 18:22	1
Dibenz[a,h]acridine	ND	UJ	9.6	2.7	ug/L		02/03/25 10:40	02/06/25 18:22	1
Dibenzofuran	ND		9.6	3.8	ug/L		02/03/25 10:40	02/06/25 18:22	1
3,3'-Dichlorobenzidine	ND	*+	11	11	ug/L		02/03/25 10:40	02/06/25 18:22	1
2,4-Dichlorophenol	ND		9.6	4.1	ug/L		02/03/25 10:40	02/06/25 18:22	1
Diethyl phthalate	ND		9.6	4.2	ug/L		02/03/25 10:40	02/06/25 18:22	1
2,4-Dimethylphenol	ND		9.6	5.0	ug/L		02/03/25 10:40	02/06/25 18:22	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93B-ROX-012725

Lab Sample ID: 400-269899-14

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.6	4.0	ug/L		02/03/25 10:40	02/06/25 18:22	1
Di-n-butyl phthalate	ND		9.6	4.4	ug/L		02/03/25 10:40	02/06/25 18:22	1
4,6-Dinitro-ortho-cresol	ND		9.6	9.6	ug/L		02/03/25 10:40	02/06/25 18:22	1
2,4-Dinitrophenol	ND		29	4.4	ug/L		02/03/25 10:40	02/06/25 18:22	1
2,4-Dinitrotoluene	ND		9.6	4.9	ug/L		02/03/25 10:40	02/06/25 18:22	1
2,6-Dinitrotoluene	ND		9.6	3.7	ug/L		02/03/25 10:40	02/06/25 18:22	1
Di-n-octyl phthalate	ND		9.6	5.8	ug/L		02/03/25 10:40	02/06/25 18:22	1
1,4-Dioxane	ND		9.6	4.1	ug/L		02/03/25 10:40	02/06/25 18:22	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.6	3.2	ug/L		02/03/25 10:40	02/06/25 18:22	1
Hexachlorobenzene	ND		9.6	9.3	ug/L		02/03/25 10:40	02/06/25 18:22	1
Hexachlorocyclopentadiene	ND		19	4.3	ug/L		02/03/25 10:40	02/06/25 18:22	1
Hexachloroethane	ND		9.6	5.0	ug/L		02/03/25 10:40	02/06/25 18:22	1
Indene	ND		9.6	3.5	ug/L		02/03/25 10:40	02/06/25 18:22	1
Isophorone	ND		9.6	5.0	ug/L		02/03/25 10:40	02/06/25 18:22	1
2-Methylphenol	ND		9.6	3.1	ug/L		02/03/25 10:40	02/06/25 18:22	1
3 & 4 Methylphenol	ND		19	4.4	ug/L		02/03/25 10:40	02/06/25 18:22	1
2-Nitroaniline	ND		9.6	4.8	ug/L		02/03/25 10:40	02/06/25 18:22	1
3-Nitroaniline	ND		9.6	4.5	ug/L		02/03/25 10:40	02/06/25 18:22	1
4-Nitroaniline	ND		9.6	3.9	ug/L		02/03/25 10:40	02/06/25 18:22	1
Nitrobenzene	ND		9.6	4.5	ug/L		02/03/25 10:40	02/06/25 18:22	1
2-Nitrophenol	ND		9.6	4.4	ug/L		02/03/25 10:40	02/06/25 18:22	1
4-Nitrophenol	ND		9.6	3.2	ug/L		02/03/25 10:40	02/06/25 18:22	1
N-Nitrosodimethylamine	ND		9.6	2.1	ug/L		02/03/25 10:40	02/06/25 18:22	1
N-Nitrosodi-n-propylamine	ND		9.6	2.4	ug/L		02/03/25 10:40	02/06/25 18:22	1
N-Nitrosodiphenylamine	ND		9.6	3.5	ug/L		02/03/25 10:40	02/06/25 18:22	1
Pentachlorophenol	ND		19	11	ug/L		02/03/25 10:40	02/06/25 18:22	1
Phenol	120		9.6	4.0	ug/L		02/03/25 10:40	02/06/25 18:22	1
Pyridine	ND	*1	9.6	9.6	ug/L		02/03/25 10:40	02/06/25 18:22	1
Quinoline	ND		9.6	2.3	ug/L		02/03/25 10:40	02/06/25 18:22	1
2,4,5-Trichlorophenol	ND		9.6	3.8	ug/L		02/03/25 10:40	02/06/25 18:22	1
2,4,6-Trichlorophenol	ND		9.6	3.4	ug/L		02/03/25 10:40	02/06/25 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		21 - 114	02/03/25 10:40	02/06/25 18:22	1
2-Fluorophenol	39		10 - 105	02/03/25 10:40	02/06/25 18:22	1
Nitrobenzene-d5	63		16 - 127	02/03/25 10:40	02/06/25 18:22	1
Phenol-d5	31		10 - 129	02/03/25 10:40	02/06/25 18:22	1
Terphenyl-d14	85		13 - 150	02/03/25 10:40	02/06/25 18:22	1
2,4,6-Tribromophenol	102		10 - 150	02/03/25 10:40	02/06/25 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.086	ug/L		01/30/25 10:36	01/31/25 22:05	1
Acenaphthylene	ND		10	0.047	ug/L		01/30/25 10:36	01/31/25 22:05	1
Anthracene	ND		10	0.074	ug/L		01/30/25 10:36	01/31/25 22:05	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 22:05	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/30/25 10:36	01/31/25 22:05	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/30/25 10:36	01/31/25 22:05	1
Benzo[g,h,i]perylene	ND		10	0.053	ug/L		01/30/25 10:36	01/31/25 22:05	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P93B-ROX-012725

Lab Sample ID: 400-269899-14

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 22:05	1
Chrysene	ND		10	0.039	ug/L		01/30/25 10:36	01/31/25 22:05	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 22:05	1
Fluoranthene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 22:05	1
Fluorene	ND		10	0.088	ug/L		01/30/25 10:36	01/31/25 22:05	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/30/25 10:36	01/31/25 22:05	1
1-Methylnaphthalene	0.21	J	10	0.067	ug/L		01/30/25 10:36	01/31/25 22:05	1
2-Methylnaphthalene	0.16	J	10	0.078	ug/L		01/30/25 10:36	01/31/25 22:05	1
Phenanthrene	ND		10	0.044	ug/L		01/30/25 10:36	01/31/25 22:05	1
Pyrene	ND		10	0.040	ug/L		01/30/25 10:36	01/31/25 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		15 - 150	01/30/25 10:36	01/31/25 22:05	1
Nitrobenzene-d5	89		50 - 150	01/30/25 10:36	01/31/25 22:05	1
Terphenyl-d14	113		43 - 147	01/30/25 10:36	01/31/25 22:05	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.034	0.019	ug/L		01/30/25 09:24	01/30/25 21:34	1
1,2-Dibromoethane	ND		0.022	0.017	ug/L		01/30/25 09:24	01/30/25 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		51 - 149	01/30/25 09:24	01/30/25 21:34	1

Definitions/Glossary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-269899-1	TB-ROX-012725-8260-A	104	98	100
400-269899-3	MW4-ROX-012725-EB	102	96	100
400-269899-4	MW4-ROX-012725	102	96	102
400-269899-5	MW25-ROX-012725	102	93	99
400-269899-5 - DL	MW25-ROX-012725	101	96	98
400-269899-6	MW25-ROX-012725-DUP	101	95	99
400-269899-6 - DL	MW25-ROX-012725-DUP	101	96	97
400-269899-7	MW7-ROX-012725	102	93	97
400-269899-8	TB-ROX-012725-8260-B	102	97	99
400-269899-10	P93C-ROX-012725	103	98	98
400-269899-11	P93A-ROX-012725	102	95	99
400-269899-12	P93A-ROX-012725-DUP	103	96	99
400-269899-13	P58-ROX-012725	101	96	97
400-269899-14	P93B-ROX-012725	101	96	98
LCS 400-698184/1002	Lab Control Sample	101	99	99
LCS 400-698212/1002	Lab Control Sample	102	98	99
LCS 400-698252/1002	Lab Control Sample	101	98	97
MB 400-698184/4	Method Blank	103	97	99
MB 400-698212/4	Method Blank	103	95	99
MB 400-698252/4	Method Blank	103	99	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (21-114)	2FP (10-105)	NBZ (16-127)	PHL (10-129)	TPHL (13-150)	TBP (10-150)
400-269899-3	MW4-ROX-012725-EB	85	38	60	30	92	96
400-269899-4	MW4-ROX-012725	72	44	79	30	85	97
400-269899-5	MW25-ROX-012725	88	52	72	37	91	113
400-269899-6	MW25-ROX-012725-DUP	73	53	75	37	86	107
400-269899-7	MW7-ROX-012725	77	51	71	35	84	102
400-269899-10	P93C-ROX-012725	72	43	66	32	84	106
400-269899-11	P93A-ROX-012725	94	42	88	35	97	107
400-269899-12	P93A-ROX-012725-DUP	84	42	66	34	69	110
400-269899-13	P58-ROX-012725	64	44	84	34	71	101
400-269899-14	P93B-ROX-012725	70	39	63	31	85	102
LCS 400-698271/14-A	Lab Control Sample	66	40	67	30	84	95
LCS 400-698271/2-A	Lab Control Sample	85	42	79	32	93	108
LCSD 400-698271/15-A	Lab Control Sample Dup	71	44	67	33	112	97
LCSD 400-698271/3-A	Lab Control Sample Dup	72	47	82	37	103	104
MB 400-698271/1-A	Method Blank	79	37	79	29	98	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol

Eurofins Pensacola

Surrogate Summary

Client: AECOM

Job ID: 400-269899-1

Project/Site: ROXANA QUARTERLY GW 1Q25

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (15-150)	NBZ (50-150)	TPHL (43-147)
400-269899-3	MW4-ROX-012725-EB	96	82	115
400-269899-4	MW4-ROX-012725	93	86	117
400-269899-5	MW25-ROX-012725	89	81	120
400-269899-6	MW25-ROX-012725-DUP	95	90	120
400-269899-7	MW7-ROX-012725	93	99	121
400-269899-10	P93C-ROX-012725	92	88	123
400-269899-11	P93A-ROX-012725	94	85	106
400-269899-12	P93A-ROX-012725-DUP	100	100	124
400-269899-13	P58-ROX-012725	93	109	108
400-269899-14	P93B-ROX-012725	92	89	113
LCS 400-697902/2-A	Lab Control Sample	106	119	115
LCSD 400-697902/3-A	Lab Control Sample Dup	103	113	110
MB 400-697902/1-A	Method Blank	109	129	110

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (51-149)		
400-269899-2	TB-ROX-012725-8011-A	63		
400-269899-3	MW4-ROX-012725-EB	62		
400-269899-4	MW4-ROX-012725	78		
400-269899-5	MW25-ROX-012725	74		
400-269899-6	MW25-ROX-012725-DUP	70		
400-269899-7	MW7-ROX-012725	72		
400-269899-9	TB-ROX-012725-8011-B	76		
400-269899-10	P93C-ROX-012725	70		
400-269899-11	P93A-ROX-012725	102		
400-269899-12	P93A-ROX-012725-DUP	86		
400-269899-13	P58-ROX-012725	105		
400-269899-14	P93B-ROX-012725	89		
LCS 400-697957/2-A	Lab Control Sample	74 p		
LCSD 400-697957/3-A	Lab Control Sample Dup	77		
MB 400-697957/1-A	Method Blank	75		

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method Summary

Client: AECOM

Job ID: 400-269899-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: TB-ROX-012725-8260-A

Lab Sample ID: 400-269899-1

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698184	02/01/25 15:54	BPO	EET PEN

Client Sample ID: TB-ROX-012725-8011-A

Lab Sample ID: 400-269899-2

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			32.1 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 17:19	KR	EET PEN

Client Sample ID: MW4-ROX-012725-EB

Lab Sample ID: 400-269899-3

Date Collected: 01/27/25 08:30

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698184	02/01/25 16:18	BPO	EET PEN
Total/NA	Prep	3511			30.3 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 17:33	S1B	EET PEN
Total/NA	Prep	3510C			258.6 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 14:58	S1B	EET PEN
Total/NA	Prep	8011			30.8 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 17:41	KR	EET PEN

Client Sample ID: MW4-ROX-012725

Lab Sample ID: 400-269899-4

Date Collected: 01/27/25 09:55

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 20:32	BPO	EET PEN
Total/NA	Prep	3511			29.9 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 18:04	S1B	EET PEN
Total/NA	Prep	3510C			263 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 15:21	S1B	EET PEN
Total/NA	Prep	8011			30.6 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 18:02	KR	EET PEN

Client Sample ID: MW25-ROX-012725

Lab Sample ID: 400-269899-5

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2000	5 mL	5 mL	698184	02/01/25 20:23	BPO	EET PEN
Total/NA	Analysis	8260D	DL	5000	5 mL	5 mL	698212	02/02/25 19:57	BPO	EET PEN
Total/NA	Prep	3511			30 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 18:34	S1B	EET PEN

Eurofins Pensacola

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: MW25-ROX-012725

Lab Sample ID: 400-269899-5

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			263.8 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 15:44	S1B	EET PEN
Total/NA	Prep	8011			31.2 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 18:23	KR	EET PEN

Client Sample ID: MW25-ROX-012725-DUP

Lab Sample ID: 400-269899-6

Date Collected: 01/27/25 11:30

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2000	5 mL	5 mL	698184	02/01/25 20:48	BPO	EET PEN
Total/NA	Analysis	8260D	DL	5000	5 mL	5 mL	698212	02/02/25 20:22	BPO	EET PEN
Total/NA	Prep	3511			29.8 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 19:04	S1B	EET PEN
Total/NA	Prep	3510C			267.4 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 16:06	S1B	EET PEN
Total/NA	Prep	8011			30.9 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 19:06	KR	EET PEN

Client Sample ID: MW7-ROX-012725

Lab Sample ID: 400-269899-7

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2000	5 mL	5 mL	698212	02/02/25 19:33	BPO	EET PEN
Total/NA	Prep	3511			30.1 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 19:35	S1B	EET PEN
Total/NA	Prep	3510C			257.8 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 16:29	S1B	EET PEN
Total/NA	Prep	8011			31.5 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 19:27	KR	EET PEN

Client Sample ID: TB-ROX-012725-8260-B

Lab Sample ID: 400-269899-8

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698184	02/01/25 16:43	BPO	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: TB-ROX-012725-8011-B

Lab Sample ID: 400-269899-9

Date Collected: 01/27/25 00:00

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			33.1 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 19:48	KR	EET PEN

Client Sample ID: P93C-ROX-012725

Lab Sample ID: 400-269899-10

Date Collected: 01/27/25 09:40

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	5 mL	5 mL	698212	02/02/25 17:06	BPO	EET PEN
Total/NA	Prep	3511			29.9 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 20:05	S1B	EET PEN
Total/NA	Prep	3510C			252.8 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 16:52	S1B	EET PEN
Total/NA	Prep	8011			32.2 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 20:09	KR	EET PEN

Client Sample ID: P93A-ROX-012725

Lab Sample ID: 400-269899-11

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		200	5 mL	5 mL	698212	02/02/25 17:31	BPO	EET PEN
Total/NA	Prep	3511			29.9 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 20:35	S1B	EET PEN
Total/NA	Prep	3510C			258 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 17:14	S1B	EET PEN
Total/NA	Prep	8011			31.8 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 20:31	KR	EET PEN

Client Sample ID: P93A-ROX-012725-DUP

Lab Sample ID: 400-269899-12

Date Collected: 01/27/25 10:40

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		200	5 mL	5 mL	698212	02/02/25 17:55	BPO	EET PEN
Total/NA	Prep	3511			29.5 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 21:05	S1B	EET PEN
Total/NA	Prep	3510C			263 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 17:37	S1B	EET PEN
Total/NA	Prep	8011			32.5 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 20:52	KR	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: P58-ROX-012725

Lab Sample ID: 400-269899-13

Date Collected: 01/27/25 12:00

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2000	5 mL	5 mL	698212	02/02/25 18:20	BPO	EET PEN
Total/NA	Prep	3511			29.8 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 21:35	S1B	EET PEN
Total/NA	Prep	3511	DL		29.8 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E	DL	5			698290	02/03/25 13:28	KJA	EET PEN
Total/NA	Prep	3510C			250.6 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 17:59	S1B	EET PEN
Total/NA	Prep	8011			31.1 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 21:13	KR	EET PEN

Client Sample ID: P93B-ROX-012725

Lab Sample ID: 400-269899-14

Date Collected: 01/27/25 13:15

Matrix: Water

Date Received: 01/28/25 09:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2000	5 mL	5 mL	698212	02/02/25 18:44	BPO	EET PEN
Total/NA	Prep	3511			29.7 mL	2 mL	697902	01/30/25 10:36	RAW	EET PEN
Total/NA	Analysis	8270E		1			698116	01/31/25 22:05	S1B	EET PEN
Total/NA	Prep	3510C			260.6 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 18:22	S1B	EET PEN
Total/NA	Prep	8011			31.3 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 21:34	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697902/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697902	01/29/25 16:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697971	01/30/25 12:34	S1B	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-697957/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 15:12	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698184/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698184	02/01/25 11:01	BPO	EET PEN

Eurofins Pensacola

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-698212/4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 11:25	BPO	EET PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-698252/4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 11:09	BPO	EET PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-698271/1-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 13:49	S1B	EET PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 400-697902/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697902	01/29/25 16:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697971	01/30/25 13:04	S1B	EET PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 400-697957/2-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 15:33	KR	EET PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 400-698184/1002

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698184	02/01/25 09:36	BPO	EET PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 400-698212/1002

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698212	02/02/25 09:48	BPO	EET PEN

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Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698252/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698252	02/03/25 09:57	BPO	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698271/14-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698271	02/03/25 10:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 18:44	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698271/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 14:12	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697902/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	697902	01/29/25 16:13	RAW	EET PEN
Total/NA	Analysis	8270E		1			697971	01/30/25 13:34	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-697957/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	697957	01/30/25 09:24	KR	EET PEN
Total/NA	Analysis	8011		1			698015	01/30/25 15:54	KR	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-698271/15-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698271	02/03/25 10:47	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 19:07	S1B	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-698271/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698271	02/03/25 10:40	BKL	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 14:35	S1B	EET PEN

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

GC/MS VOA

Analysis Batch: 698184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-1	TB-ROX-012725-8260-A	Total/NA	Water	8260D	
400-269899-3	MW4-ROX-012725-EB	Total/NA	Water	8260D	
400-269899-5	MW25-ROX-012725	Total/NA	Water	8260D	
400-269899-6	MW25-ROX-012725-DUP	Total/NA	Water	8260D	
400-269899-8	TB-ROX-012725-8260-B	Total/NA	Water	8260D	
MB 400-698184/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698184/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 698212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-5 - DL	MW25-ROX-012725	Total/NA	Water	8260D	
400-269899-6 - DL	MW25-ROX-012725-DUP	Total/NA	Water	8260D	
400-269899-7	MW7-ROX-012725	Total/NA	Water	8260D	
400-269899-10	P93C-ROX-012725	Total/NA	Water	8260D	
400-269899-11	P93A-ROX-012725	Total/NA	Water	8260D	
400-269899-12	P93A-ROX-012725-DUP	Total/NA	Water	8260D	
400-269899-13	P58-ROX-012725	Total/NA	Water	8260D	
400-269899-14	P93B-ROX-012725	Total/NA	Water	8260D	
MB 400-698212/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698212/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 698252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-4	MW4-ROX-012725	Total/NA	Water	8260D	
MB 400-698252/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698252/1002	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 697902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-3	MW4-ROX-012725-EB	Total/NA	Water	3511	
400-269899-4	MW4-ROX-012725	Total/NA	Water	3511	
400-269899-5	MW25-ROX-012725	Total/NA	Water	3511	
400-269899-6	MW25-ROX-012725-DUP	Total/NA	Water	3511	
400-269899-7	MW7-ROX-012725	Total/NA	Water	3511	
400-269899-10	P93C-ROX-012725	Total/NA	Water	3511	
400-269899-11	P93A-ROX-012725	Total/NA	Water	3511	
400-269899-12	P93A-ROX-012725-DUP	Total/NA	Water	3511	
400-269899-13	P58-ROX-012725	Total/NA	Water	3511	
400-269899-13 - DL	P58-ROX-012725	Total/NA	Water	3511	
400-269899-14	P93B-ROX-012725	Total/NA	Water	3511	
MB 400-697902/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-697902/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 400-697902/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 697971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-697902/1-A	Method Blank	Total/NA	Water	8270E	697902
LCS 400-697902/2-A	Lab Control Sample	Total/NA	Water	8270E	697902
LCSD 400-697902/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	697902

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QC Association Summary

Client: AECOM

Job ID: 400-269899-1

Project/Site: ROXANA QUARTERLY GW 1Q25

GC/MS Semi VOA

Analysis Batch: 698116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-3	MW4-ROX-012725-EB	Total/NA	Water	8270E	697902
400-269899-4	MW4-ROX-012725	Total/NA	Water	8270E	697902
400-269899-5	MW25-ROX-012725	Total/NA	Water	8270E	697902
400-269899-6	MW25-ROX-012725-DUP	Total/NA	Water	8270E	697902
400-269899-7	MW7-ROX-012725	Total/NA	Water	8270E	697902
400-269899-10	P93C-ROX-012725	Total/NA	Water	8270E	697902
400-269899-11	P93A-ROX-012725	Total/NA	Water	8270E	697902
400-269899-12	P93A-ROX-012725-DUP	Total/NA	Water	8270E	697902
400-269899-13	P58-ROX-012725	Total/NA	Water	8270E	697902
400-269899-14	P93B-ROX-012725	Total/NA	Water	8270E	697902

Prep Batch: 698271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-3	MW4-ROX-012725-EB	Total/NA	Water	3510C	
400-269899-4	MW4-ROX-012725	Total/NA	Water	3510C	
400-269899-5	MW25-ROX-012725	Total/NA	Water	3510C	
400-269899-6	MW25-ROX-012725-DUP	Total/NA	Water	3510C	
400-269899-7	MW7-ROX-012725	Total/NA	Water	3510C	
400-269899-10	P93C-ROX-012725	Total/NA	Water	3510C	
400-269899-11	P93A-ROX-012725	Total/NA	Water	3510C	
400-269899-12	P93A-ROX-012725-DUP	Total/NA	Water	3510C	
400-269899-13	P58-ROX-012725	Total/NA	Water	3510C	
400-269899-14	P93B-ROX-012725	Total/NA	Water	3510C	
MB 400-698271/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-698271/14-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-698271/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-698271/15-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 400-698271/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 698290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-13 - DL	P58-ROX-012725	Total/NA	Water	8270E	697902

Analysis Batch: 698584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-3	MW4-ROX-012725-EB	Total/NA	Water	8270E	698271
400-269899-4	MW4-ROX-012725	Total/NA	Water	8270E	698271
400-269899-5	MW25-ROX-012725	Total/NA	Water	8270E	698271
400-269899-6	MW25-ROX-012725-DUP	Total/NA	Water	8270E	698271
400-269899-7	MW7-ROX-012725	Total/NA	Water	8270E	698271
400-269899-10	P93C-ROX-012725	Total/NA	Water	8270E	698271
400-269899-11	P93A-ROX-012725	Total/NA	Water	8270E	698271
400-269899-12	P93A-ROX-012725-DUP	Total/NA	Water	8270E	698271
400-269899-13	P58-ROX-012725	Total/NA	Water	8270E	698271
400-269899-14	P93B-ROX-012725	Total/NA	Water	8270E	698271
MB 400-698271/1-A	Method Blank	Total/NA	Water	8270E	698271
LCS 400-698271/14-A	Lab Control Sample	Total/NA	Water	8270E	698271
LCS 400-698271/2-A	Lab Control Sample	Total/NA	Water	8270E	698271
LCSD 400-698271/15-A	Lab Control Sample Dup	Total/NA	Water	8270E	698271
LCSD 400-698271/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	698271

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QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

GC Semi VOA

Prep Batch: 697957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-2	TB-ROX-012725-8011-A	Total/NA	Water	8011	
400-269899-3	MW4-ROX-012725-EB	Total/NA	Water	8011	
400-269899-4	MW4-ROX-012725	Total/NA	Water	8011	
400-269899-5	MW25-ROX-012725	Total/NA	Water	8011	
400-269899-6	MW25-ROX-012725-DUP	Total/NA	Water	8011	
400-269899-7	MW7-ROX-012725	Total/NA	Water	8011	
400-269899-9	TB-ROX-012725-8011-B	Total/NA	Water	8011	
400-269899-10	P93C-ROX-012725	Total/NA	Water	8011	
400-269899-11	P93A-ROX-012725	Total/NA	Water	8011	
400-269899-12	P93A-ROX-012725-DUP	Total/NA	Water	8011	
400-269899-13	P58-ROX-012725	Total/NA	Water	8011	
400-269899-14	P93B-ROX-012725	Total/NA	Water	8011	
MB 400-697957/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-697957/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-697957/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 698015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269899-2	TB-ROX-012725-8011-A	Total/NA	Water	8011	697957
400-269899-3	MW4-ROX-012725-EB	Total/NA	Water	8011	697957
400-269899-4	MW4-ROX-012725	Total/NA	Water	8011	697957
400-269899-5	MW25-ROX-012725	Total/NA	Water	8011	697957
400-269899-6	MW25-ROX-012725-DUP	Total/NA	Water	8011	697957
400-269899-7	MW7-ROX-012725	Total/NA	Water	8011	697957
400-269899-9	TB-ROX-012725-8011-B	Total/NA	Water	8011	697957
400-269899-10	P93C-ROX-012725	Total/NA	Water	8011	697957
400-269899-11	P93A-ROX-012725	Total/NA	Water	8011	697957
400-269899-12	P93A-ROX-012725-DUP	Total/NA	Water	8011	697957
400-269899-13	P58-ROX-012725	Total/NA	Water	8011	697957
400-269899-14	P93B-ROX-012725	Total/NA	Water	8011	697957
MB 400-697957/1-A	Method Blank	Total/NA	Water	8011	697957
LCS 400-697957/2-A	Lab Control Sample	Total/NA	Water	8011	697957
LCSD 400-697957/3-A	Lab Control Sample Dup	Total/NA	Water	8011	697957

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: MB 400-698184/4

Matrix: Water

Analysis Batch: 698184

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/01/25 11:01	1
Acrolein	ND		20	3.3	ug/L			02/01/25 11:01	1
Acrylonitrile	ND		10	2.8	ug/L			02/01/25 11:01	1
Benzene	ND		1.0	0.50	ug/L			02/01/25 11:01	1
Bromobenzene	ND		1.0	0.54	ug/L			02/01/25 11:01	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/01/25 11:01	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/01/25 11:01	1
Bromoform	ND		5.0	0.25	ug/L			02/01/25 11:01	1
Bromomethane	ND		1.0	0.98	ug/L			02/01/25 11:01	1
2-Butanone (MEK)	2.61	J	25	2.6	ug/L			02/01/25 11:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/01/25 11:01	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/01/25 11:01	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/01/25 11:01	1
Chloroethane	ND		1.0	0.76	ug/L			02/01/25 11:01	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/01/25 11:01	1
Chloroform	ND		1.0	0.90	ug/L			02/01/25 11:01	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/01/25 11:01	1
Chloromethane	ND		1.0	0.40	ug/L			02/01/25 11:01	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/01/25 11:01	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/01/25 11:01	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/01/25 11:01	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/01/25 11:01	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/01/25 11:01	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/01/25 11:01	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/01/25 11:01	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/01/25 11:01	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/01/25 11:01	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/01/25 11:01	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 11:01	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 11:01	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/01/25 11:01	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/01/25 11:01	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/01/25 11:01	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/01/25 11:01	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/01/25 11:01	1
2-Hexanone	ND		25	4.3	ug/L			02/01/25 11:01	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/01/25 11:01	1
Methylene bromide	ND		5.0	0.22	ug/L			02/01/25 11:01	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/01/25 11:01	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/01/25 11:01	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/01/25 11:01	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/01/25 11:01	1
Naphthalene	ND		5.0	3.0	ug/L			02/01/25 11:01	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/01/25 11:01	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/01/25 11:01	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/01/25 11:01	1
o-Xylene	ND		5.0	3.0	ug/L			02/01/25 11:01	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/01/25 11:01	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: MB 400-698184/4

Matrix: Water

Analysis Batch: 698184

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/01/25 11:01	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/01/25 11:01	1
Styrene	ND		1.0	1.0	ug/L			02/01/25 11:01	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/01/25 11:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/01/25 11:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/01/25 11:01	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/01/25 11:01	1
Toluene	ND		1.0	0.90	ug/L			02/01/25 11:01	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/01/25 11:01	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/01/25 11:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/01/25 11:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/01/25 11:01	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/01/25 11:01	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/01/25 11:01	1
Trichloroethene	ND		1.0	0.15	ug/L			02/01/25 11:01	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/01/25 11:01	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/01/25 11:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/01/25 11:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/01/25 11:01	1
Vinyl acetate	ND		25	0.93	ug/L			02/01/25 11:01	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/01/25 11:01	1
Xylenes, Total	ND		10	6.0	ug/L			02/01/25 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/01/25 11:01	1
Dibromofluoromethane	97		79 - 130		02/01/25 11:01	1
Toluene-d8 (Surr)	99		64 - 132		02/01/25 11:01	1

Lab Sample ID: LCS 400-698184/1002

Matrix: Water

Analysis Batch: 698184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	205		ug/L		103	43 - 150
Acrolein	500	454		ug/L		91	38 - 150
Acrylonitrile	500	536		ug/L		107	64 - 142
Benzene	50.0	50.8		ug/L		102	70 - 130
Bromobenzene	50.0	52.8		ug/L		106	70 - 132
Bromochloromethane	50.0	51.6		ug/L		103	70 - 130
Bromodichloromethane	50.0	51.3		ug/L		103	67 - 133
Bromoform	50.0	46.3		ug/L		93	57 - 140
Bromomethane	50.0	42.8		ug/L		86	10 - 150
2-Butanone (MEK)	200	182		ug/L		91	61 - 145
Carbon disulfide	50.0	40.6		ug/L		81	61 - 137
Carbon tetrachloride	50.0	47.9		ug/L		96	61 - 137
Chlorobenzene	50.0	53.3		ug/L		107	70 - 130
Chloroethane	50.0	44.7		ug/L		89	55 - 141
2-Chloroethyl vinyl ether	50.0	47.3		ug/L		95	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCS 400-698184/1002

Matrix: Water

Analysis Batch: 698184

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	51.9		ug/L		104	69 - 130
1-Chlorohexane	50.0	57.5		ug/L		115	69 - 130
Chloromethane	50.0	46.1		ug/L		92	58 - 137
cis-1,2-Dichloroethene	50.0	58.4		ug/L		117	68 - 130
cis-1,3-Dichloropropene	50.0	52.8		ug/L		106	69 - 132
Dibromochloromethane	50.0	52.0		ug/L		104	67 - 135
1,2-Dichlorobenzene	50.0	56.3		ug/L		113	67 - 130
1,3-Dichlorobenzene	50.0	56.3		ug/L		113	70 - 130
1,4-Dichlorobenzene	50.0	56.0		ug/L		112	70 - 130
Dichlorodifluoromethane	50.0	33.8		ug/L		68	41 - 146
1,1-Dichloroethane	50.0	52.6		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	49.3		ug/L		99	69 - 130
1,1-Dichloroethene	50.0	50.8		ug/L		102	63 - 134
1,2-Dichloropropane	50.0	53.7		ug/L		107	70 - 130
1,3-Dichloropropane	50.0	52.3		ug/L		105	70 - 130
2,2-Dichloropropane	50.0	49.8		ug/L		100	52 - 135
1,1-Dichloropropene	50.0	49.9		ug/L		100	70 - 130
Ethylbenzene	50.0	54.8		ug/L		110	70 - 130
Ethyl methacrylate	50.0	52.4		ug/L		105	68 - 130
Hexachlorobutadiene	50.0	59.4		ug/L		119	53 - 140
2-Hexanone	200	210		ug/L		105	65 - 137
Isopropylbenzene	50.0	55.7		ug/L		111	70 - 130
Methylene bromide	50.0	50.8		ug/L		102	70 - 130
Methylene Chloride	50.0	48.3		ug/L		97	66 - 135
4-Methyl-2-pentanone (MIBK)	200	208		ug/L		104	69 - 138
Methyl tert-butyl ether	50.0	52.1		ug/L		104	66 - 130
m-Xylene & p-Xylene	50.0	54.4		ug/L		109	70 - 130
Naphthalene	50.0	49.4		ug/L		99	47 - 149
n-Butylbenzene	50.0	64.6		ug/L		129	67 - 130
N-Propylbenzene	50.0	58.1		ug/L		116	70 - 130
o-Chlorotoluene	50.0	59.0		ug/L		118	70 - 130
o-Xylene	50.0	54.6		ug/L		109	70 - 130
p-Chlorotoluene	50.0	57.7		ug/L		115	70 - 130
p-Isopropyltoluene	50.0	59.5		ug/L		119	65 - 130
sec-Butylbenzene	50.0	59.0		ug/L		118	66 - 130
Styrene	50.0	52.3		ug/L		105	70 - 130
tert-Butylbenzene	50.0	58.2		ug/L		116	64 - 139
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/L		105	67 - 131
1,1,2,2-Tetrachloroethane	50.0	51.4		ug/L		103	70 - 131
Tetrachloroethene	50.0	49.8		ug/L		100	65 - 130
Toluene	50.0	51.9		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 130
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	63 - 130
1,2,3-Trichlorobenzene	50.0	51.0		ug/L		102	60 - 138
1,2,4-Trichlorobenzene	50.0	54.8		ug/L		110	60 - 140
1,1,1-Trichloroethane	50.0	49.5		ug/L		99	68 - 130
1,1,2-Trichloroethane	50.0	52.8		ug/L		106	70 - 130
Trichloroethene	50.0	50.7		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	47.0		ug/L		94	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCS 400-698184/1002

Matrix: Water

Analysis Batch: 698184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	50.0	57.3		ug/L		115	70 - 130
1,3,5-Trimethylbenzene	50.0	58.3		ug/L		117	69 - 130
Vinyl acetate	100	105		ug/L		105	26 - 150
Vinyl chloride	50.0	39.4		ug/L		79	59 - 136
Xylenes, Total	100	109		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		56 - 136
Dibromofluoromethane	99		79 - 130
Toluene-d8 (Surr)	99		64 - 132

Lab Sample ID: MB 400-698212/4

Matrix: Water

Analysis Batch: 698212

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/02/25 11:25	1
Acrolein	ND		20	3.3	ug/L			02/02/25 11:25	1
Acrylonitrile	ND		10	2.8	ug/L			02/02/25 11:25	1
Benzene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Bromobenzene	ND		1.0	0.54	ug/L			02/02/25 11:25	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/02/25 11:25	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Bromoform	ND		5.0	0.25	ug/L			02/02/25 11:25	1
Bromomethane	ND		1.0	0.98	ug/L			02/02/25 11:25	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/02/25 11:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/02/25 11:25	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/02/25 11:25	1
Chloroethane	ND		1.0	0.76	ug/L			02/02/25 11:25	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/02/25 11:25	1
Chloroform	ND		1.0	0.90	ug/L			02/02/25 11:25	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/02/25 11:25	1
Chloromethane	ND		1.0	0.40	ug/L			02/02/25 11:25	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/02/25 11:25	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/02/25 11:25	1
Dibromochloromethane	0.245	J	1.0	0.24	ug/L			02/02/25 11:25	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/02/25 11:25	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/02/25 11:25	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/02/25 11:25	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/02/25 11:25	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/02/25 11:25	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: MB 400-698212/4

Matrix: Water

Analysis Batch: 698212

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/02/25 11:25	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/02/25 11:25	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/02/25 11:25	1
2-Hexanone	ND		25	4.3	ug/L			02/02/25 11:25	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/02/25 11:25	1
Methylene bromide	ND		5.0	0.22	ug/L			02/02/25 11:25	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/02/25 11:25	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/02/25 11:25	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/02/25 11:25	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/02/25 11:25	1
Naphthalene	ND		5.0	3.0	ug/L			02/02/25 11:25	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/02/25 11:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/02/25 11:25	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/02/25 11:25	1
o-Xylene	ND		5.0	3.0	ug/L			02/02/25 11:25	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/02/25 11:25	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/02/25 11:25	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/02/25 11:25	1
Styrene	ND		1.0	1.0	ug/L			02/02/25 11:25	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/02/25 11:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/02/25 11:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/02/25 11:25	1
Toluene	ND		1.0	0.90	ug/L			02/02/25 11:25	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/02/25 11:25	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/02/25 11:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/02/25 11:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/02/25 11:25	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/02/25 11:25	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/02/25 11:25	1
Trichloroethene	ND		1.0	0.15	ug/L			02/02/25 11:25	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/02/25 11:25	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/02/25 11:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/02/25 11:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/02/25 11:25	1
Vinyl acetate	ND		25	0.93	ug/L			02/02/25 11:25	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/02/25 11:25	1
Xylenes, Total	ND		10	6.0	ug/L			02/02/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/02/25 11:25	1
Dibromofluoromethane	95		79 - 130		02/02/25 11:25	1
Toluene-d8 (Surr)	99		64 - 132		02/02/25 11:25	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCS 400-698212/1002

Matrix: Water

Analysis Batch: 698212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	173		ug/L		87	43 - 150
Acrolein	500	419		ug/L		84	38 - 150
Acrylonitrile	500	495		ug/L		99	64 - 142
Benzene	50.0	48.1		ug/L		96	70 - 130
Bromobenzene	50.0	50.6		ug/L		101	70 - 132
Bromochloromethane	50.0	47.3		ug/L		95	70 - 130
Bromodichloromethane	50.0	48.4		ug/L		97	67 - 133
Bromoform	50.0	43.9		ug/L		88	57 - 140
Bromomethane	50.0	38.4		ug/L		77	10 - 150
2-Butanone (MEK)	200	149		ug/L		74	61 - 145
Carbon disulfide	50.0	38.0		ug/L		76	61 - 137
Carbon tetrachloride	50.0	45.5		ug/L		91	61 - 137
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	42.8		ug/L		86	55 - 141
2-Chloroethyl vinyl ether	50.0	44.2		ug/L		88	10 - 150
Chloroform	50.0	48.7		ug/L		97	69 - 130
1-Chlorohexane	50.0	56.1		ug/L		112	69 - 130
Chloromethane	50.0	42.3		ug/L		85	58 - 137
cis-1,2-Dichloroethene	50.0	54.4		ug/L		109	68 - 130
cis-1,3-Dichloropropene	50.0	48.6		ug/L		97	69 - 132
Dibromochloromethane	50.0	48.0		ug/L		96	67 - 135
1,2-Dichlorobenzene	50.0	53.1		ug/L		106	67 - 130
1,3-Dichlorobenzene	50.0	54.5		ug/L		109	70 - 130
1,4-Dichlorobenzene	50.0	54.0		ug/L		108	70 - 130
Dichlorodifluoromethane	50.0	33.4		ug/L		67	41 - 146
1,1-Dichloroethane	50.0	49.2		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	45.0		ug/L		90	69 - 130
1,1-Dichloroethene	50.0	45.4		ug/L		91	63 - 134
1,2-Dichloropropane	50.0	49.6		ug/L		99	70 - 130
1,3-Dichloropropane	50.0	49.2		ug/L		98	70 - 130
2,2-Dichloropropane	50.0	47.2		ug/L		94	52 - 135
1,1-Dichloropropene	50.0	46.1		ug/L		92	70 - 130
Ethylbenzene	50.0	52.0		ug/L		104	70 - 130
Ethyl methacrylate	50.0	49.4		ug/L		99	68 - 130
Hexachlorobutadiene	50.0	56.6		ug/L		113	53 - 140
2-Hexanone	200	195		ug/L		98	65 - 137
Isopropylbenzene	50.0	54.5		ug/L		109	70 - 130
Methylene bromide	50.0	47.5		ug/L		95	70 - 130
Methylene Chloride	50.0	45.4		ug/L		91	66 - 135
4-Methyl-2-pentanone (MIBK)	200	193		ug/L		96	69 - 138
Methyl tert-butyl ether	50.0	46.4		ug/L		93	66 - 130
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	70 - 130
Naphthalene	50.0	46.6		ug/L		93	47 - 149
n-Butylbenzene	50.0	62.9		ug/L		126	67 - 130
N-Propylbenzene	50.0	56.9		ug/L		114	70 - 130
o-Chlorotoluene	50.0	55.9		ug/L		112	70 - 130
o-Xylene	50.0	52.3		ug/L		105	70 - 130
p-Chlorotoluene	50.0	55.8		ug/L		112	70 - 130

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCS 400-698212/1002

Matrix: Water

Analysis Batch: 698212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
p-Isopropyltoluene	50.0	57.6		ug/L		115	65 - 130
sec-Butylbenzene	50.0	57.2		ug/L		114	66 - 130
Styrene	50.0	50.2		ug/L		100	70 - 130
tert-Butylbenzene	50.0	56.7		ug/L		113	64 - 139
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L		99	67 - 131
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/L		100	70 - 131
Tetrachloroethene	50.0	47.3		ug/L		95	65 - 130
Toluene	50.0	49.2		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	48.8		ug/L		98	63 - 130
1,2,3-Trichlorobenzene	50.0	49.8		ug/L		100	60 - 138
1,2,4-Trichlorobenzene	50.0	52.6		ug/L		105	60 - 140
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	68 - 130
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	70 - 130
Trichloroethene	50.0	49.3		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	45.6		ug/L		91	65 - 138
1,2,3-Trichloropropane	50.0	47.3		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	50.0	55.1		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	50.0	56.7		ug/L		113	69 - 130
Vinyl acetate	100	96.9		ug/L		97	26 - 150
Vinyl chloride	50.0	38.3		ug/L		77	59 - 136
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		56 - 136
Dibromofluoromethane	98		79 - 130
Toluene-d8 (Surr)	99		64 - 132

Lab Sample ID: MB 400-698252/4

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/03/25 11:09	1
Acrolein	ND		20	3.3	ug/L			02/03/25 11:09	1
Acrylonitrile	ND		10	2.8	ug/L			02/03/25 11:09	1
Benzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Bromobenzene	ND		1.0	0.54	ug/L			02/03/25 11:09	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/03/25 11:09	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Bromoform	ND		5.0	0.25	ug/L			02/03/25 11:09	1
Bromomethane	ND		1.0	0.98	ug/L			02/03/25 11:09	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/03/25 11:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/03/25 11:09	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/03/25 11:09	1
Chloroethane	ND		1.0	0.76	ug/L			02/03/25 11:09	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/03/25 11:09	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: MB 400-698252/4

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.90	ug/L			02/03/25 11:09	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/03/25 11:09	1
Chloromethane	ND		1.0	0.40	ug/L			02/03/25 11:09	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/03/25 11:09	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/03/25 11:09	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/03/25 11:09	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/03/25 11:09	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/03/25 11:09	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/03/25 11:09	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/03/25 11:09	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/03/25 11:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/03/25 11:09	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/03/25 11:09	1
2-Hexanone	ND		25	4.3	ug/L			02/03/25 11:09	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/03/25 11:09	1
Methylene bromide	ND		5.0	0.22	ug/L			02/03/25 11:09	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/03/25 11:09	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/03/25 11:09	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/03/25 11:09	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
Naphthalene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/03/25 11:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/03/25 11:09	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/03/25 11:09	1
o-Xylene	ND		5.0	3.0	ug/L			02/03/25 11:09	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/03/25 11:09	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/03/25 11:09	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/03/25 11:09	1
Styrene	ND		1.0	1.0	ug/L			02/03/25 11:09	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/03/25 11:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/03/25 11:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/03/25 11:09	1
Toluene	ND		1.0	0.90	ug/L			02/03/25 11:09	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/03/25 11:09	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/03/25 11:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/03/25 11:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/03/25 11:09	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/03/25 11:09	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/03/25 11:09	1
Trichloroethene	ND		1.0	0.15	ug/L			02/03/25 11:09	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/03/25 11:09	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: MB 400-698252/4

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/03/25 11:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/03/25 11:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/03/25 11:09	1
Vinyl acetate	ND		25	0.93	ug/L			02/03/25 11:09	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/03/25 11:09	1
Xylenes, Total	ND		10	6.0	ug/L			02/03/25 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		56 - 136		02/03/25 11:09	1
Dibromofluoromethane	99		79 - 130		02/03/25 11:09	1
Toluene-d8 (Surr)	97		64 - 132		02/03/25 11:09	1

Lab Sample ID: LCS 400-698252/1002

Matrix: Water

Analysis Batch: 698252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	132		ug/L		66	43 - 150
Acrolein	500	386		ug/L		77	38 - 150
Acrylonitrile	500	492		ug/L		98	64 - 142
Benzene	50.0	45.3		ug/L		91	70 - 130
Bromobenzene	50.0	44.5		ug/L		89	70 - 132
Bromochloromethane	50.0	44.0		ug/L		88	70 - 130
Bromodichloromethane	50.0	45.1		ug/L		90	67 - 133
Bromoform	50.0	39.4		ug/L		79	57 - 140
Bromomethane	50.0	33.5		ug/L		67	10 - 150
2-Butanone (MEK)	200	126		ug/L		63	61 - 145
Carbon disulfide	50.0	33.7		ug/L		67	61 - 137
Carbon tetrachloride	50.0	43.0		ug/L		86	61 - 137
Chlorobenzene	50.0	45.1		ug/L		90	70 - 130
Chloroethane	50.0	39.4		ug/L		79	55 - 141
2-Chloroethyl vinyl ether	50.0	41.7		ug/L		83	10 - 150
Chloroform	50.0	46.4		ug/L		93	69 - 130
1-Chlorohexane	50.0	48.6		ug/L		97	69 - 130
Chloromethane	50.0	38.7		ug/L		77	58 - 137
cis-1,2-Dichloroethene	50.0	46.9		ug/L		94	68 - 130
cis-1,3-Dichloropropene	50.0	45.5		ug/L		91	69 - 132
Dibromochloromethane	50.0	43.7		ug/L		87	67 - 135
1,2-Dichlorobenzene	50.0	47.3		ug/L		95	67 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 130
Dichlorodifluoromethane	50.0	29.6		ug/L		59	41 - 146
1,1-Dichloroethane	50.0	46.6		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	42.8		ug/L		86	69 - 130
1,1-Dichloroethene	50.0	42.3		ug/L		85	63 - 134
1,2-Dichloropropane	50.0	47.6		ug/L		95	70 - 130
1,3-Dichloropropane	50.0	45.2		ug/L		90	70 - 130
2,2-Dichloropropane	50.0	43.6		ug/L		87	52 - 135

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCS 400-698252/1002

Matrix: Water

Analysis Batch: 698252

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	50.0	43.4		ug/L		87	70 - 130
Ethylbenzene	50.0	47.3		ug/L		95	70 - 130
Ethyl methacrylate	50.0	45.6		ug/L		91	68 - 130
Hexachlorobutadiene	50.0	47.4		ug/L		95	53 - 140
2-Hexanone	200	151		ug/L		75	65 - 137
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 130
Methylene bromide	50.0	45.1		ug/L		90	70 - 130
Methylene Chloride	50.0	42.7		ug/L		85	66 - 135
4-Methyl-2-pentanone (MIBK)	200	180		ug/L		90	69 - 138
Methyl tert-butyl ether	50.0	45.7		ug/L		91	66 - 130
m-Xylene & p-Xylene	50.0	46.2		ug/L		92	70 - 130
Naphthalene	50.0	36.7		ug/L		73	47 - 149
n-Butylbenzene	50.0	52.7		ug/L		105	67 - 130
N-Propylbenzene	50.0	49.6		ug/L		99	70 - 130
o-Chlorotoluene	50.0	49.5		ug/L		99	70 - 130
o-Xylene	50.0	47.1		ug/L		94	70 - 130
p-Chlorotoluene	50.0	47.8		ug/L		96	70 - 130
p-Isopropyltoluene	50.0	49.1		ug/L		98	65 - 130
sec-Butylbenzene	50.0	49.6		ug/L		99	66 - 130
Styrene	50.0	45.8		ug/L		92	70 - 130
tert-Butylbenzene	50.0	48.1		ug/L		96	64 - 139
1,1,1,2-Tetrachloroethane	50.0	45.1		ug/L		90	67 - 131
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/L		88	70 - 131
Tetrachloroethene	50.0	42.3		ug/L		85	65 - 130
Toluene	50.0	44.2		ug/L		88	70 - 130
trans-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 130
trans-1,3-Dichloropropene	50.0	44.0		ug/L		88	63 - 130
1,2,3-Trichlorobenzene	50.0	41.0		ug/L		82	60 - 138
1,2,4-Trichlorobenzene	50.0	44.6		ug/L		89	60 - 140
1,1,1-Trichloroethane	50.0	44.1		ug/L		88	68 - 130
1,1,2-Trichloroethane	50.0	46.1		ug/L		92	70 - 130
Trichloroethene	50.0	46.1		ug/L		92	70 - 130
Trichlorofluoromethane	50.0	40.5		ug/L		81	65 - 138
1,2,3-Trichloropropane	50.0	43.9		ug/L		88	70 - 130
1,2,4-Trimethylbenzene	50.0	47.7		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	69 - 130
Vinyl acetate	100	90.9		ug/L		91	26 - 150
Vinyl chloride	50.0	36.1		ug/L		72	59 - 136
Xylenes, Total	100	93.4		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		56 - 136
Dibromofluoromethane	98		79 - 130
Toluene-d8 (Surr)	97		64 - 132

QC Sample Results

Client: AECOM

Job ID: 400-269899-1

Project/Site: ROXANA QUARTERLY GW 1Q25

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

Lab Sample ID: MB 400-698271/1-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		02/03/25 10:40	02/06/25 13:49	1
Benzenethiol	ND		10	9.9	ug/L		02/03/25 10:40	02/06/25 13:49	1
Benzoic acid	ND		30	24	ug/L		02/03/25 10:40	02/06/25 13:49	1
Benzyl alcohol	ND		10	7.3	ug/L		02/03/25 10:40	02/06/25 13:49	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		02/03/25 10:40	02/06/25 13:49	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		02/03/25 10:40	02/06/25 13:49	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		02/03/25 10:40	02/06/25 13:49	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		02/03/25 10:40	02/06/25 13:49	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		02/03/25 10:40	02/06/25 13:49	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		02/03/25 10:40	02/06/25 13:49	1
4-Chloroaniline	ND		10	4.7	ug/L		02/03/25 10:40	02/06/25 13:49	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		02/03/25 10:40	02/06/25 13:49	1
2-Chloronaphthalene	ND		10	3.8	ug/L		02/03/25 10:40	02/06/25 13:49	1
2-Chlorophenol	ND		10	4.1	ug/L		02/03/25 10:40	02/06/25 13:49	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		02/03/25 10:40	02/06/25 13:49	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		02/03/25 10:40	02/06/25 13:49	1
Dibenzofuran	ND		10	4.0	ug/L		02/03/25 10:40	02/06/25 13:49	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		02/03/25 10:40	02/06/25 13:49	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		02/03/25 10:40	02/06/25 13:49	1
Diethyl phthalate	ND		10	4.4	ug/L		02/03/25 10:40	02/06/25 13:49	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		02/03/25 10:40	02/06/25 13:49	1
Dimethyl phthalate	ND		10	4.2	ug/L		02/03/25 10:40	02/06/25 13:49	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		02/03/25 10:40	02/06/25 13:49	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		02/03/25 10:40	02/06/25 13:49	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		02/03/25 10:40	02/06/25 13:49	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		02/03/25 10:40	02/06/25 13:49	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		02/03/25 10:40	02/06/25 13:49	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		02/03/25 10:40	02/06/25 13:49	1
1,4-Dioxane	ND		10	4.3	ug/L		02/03/25 10:40	02/06/25 13:49	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		02/03/25 10:40	02/06/25 13:49	1
Hexachlorobenzene	ND		10	9.7	ug/L		02/03/25 10:40	02/06/25 13:49	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		02/03/25 10:40	02/06/25 13:49	1
Hexachloroethane	ND		10	5.2	ug/L		02/03/25 10:40	02/06/25 13:49	1
Indene	ND		10	3.6	ug/L		02/03/25 10:40	02/06/25 13:49	1
Isophorone	ND		10	5.2	ug/L		02/03/25 10:40	02/06/25 13:49	1
2-Methylphenol	ND		10	3.2	ug/L		02/03/25 10:40	02/06/25 13:49	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		02/03/25 10:40	02/06/25 13:49	1
2-Nitroaniline	ND		10	5.0	ug/L		02/03/25 10:40	02/06/25 13:49	1
3-Nitroaniline	ND		10	4.7	ug/L		02/03/25 10:40	02/06/25 13:49	1
4-Nitroaniline	ND		10	4.1	ug/L		02/03/25 10:40	02/06/25 13:49	1
Nitrobenzene	ND		10	4.7	ug/L		02/03/25 10:40	02/06/25 13:49	1
2-Nitrophenol	ND		10	4.6	ug/L		02/03/25 10:40	02/06/25 13:49	1
4-Nitrophenol	ND		10	3.3	ug/L		02/03/25 10:40	02/06/25 13:49	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		02/03/25 10:40	02/06/25 13:49	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		02/03/25 10:40	02/06/25 13:49	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		02/03/25 10:40	02/06/25 13:49	1
Pentachlorophenol	ND		20	12	ug/L		02/03/25 10:40	02/06/25 13:49	1
Phenol	ND		10	4.2	ug/L		02/03/25 10:40	02/06/25 13:49	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: MB 400-698271/1-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		10	10	ug/L		02/03/25 10:40	02/06/25 13:49	1
Quinoline	ND		10	2.4	ug/L		02/03/25 10:40	02/06/25 13:49	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		02/03/25 10:40	02/06/25 13:49	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		02/03/25 10:40	02/06/25 13:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		21 - 114	02/03/25 10:40	02/06/25 13:49	1
2-Fluorophenol	37		10 - 105	02/03/25 10:40	02/06/25 13:49	1
Nitrobenzene-d5	79		16 - 127	02/03/25 10:40	02/06/25 13:49	1
Phenol-d5	29		10 - 129	02/03/25 10:40	02/06/25 13:49	1
Terphenyl-d14	98		13 - 150	02/03/25 10:40	02/06/25 13:49	1
2,4,6-Tribromophenol	97		10 - 150	02/03/25 10:40	02/06/25 13:49	1

Lab Sample ID: LCS 400-698271/14-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzenethiol	120	65.1		ug/L		54	10 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	66		21 - 114
2-Fluorophenol	40		10 - 105
Nitrobenzene-d5	67		16 - 127
Phenol-d5	30		10 - 129
Terphenyl-d14	84		13 - 150
2,4,6-Tribromophenol	95		10 - 150

Lab Sample ID: LCS 400-698271/2-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	120	44.7		ug/L		37	10 - 127
Benzoic acid	493	141		ug/L		29	19 - 126
Benzyl alcohol	120	76.9		ug/L		64	17 - 109
Bis(2-chloroethoxy)methane	120	93.8		ug/L		78	24 - 125
Bis(2-chloroethyl)ether	120	94.4		ug/L		79	10 - 121
bis (2-chloroisopropyl) ether	120	99.3		ug/L		83	14 - 123
Bis(2-ethylhexyl) phthalate	120	119		ug/L		99	16 - 150
4-Bromophenyl phenyl ether	120	111		ug/L		93	17 - 150
Butyl benzyl phthalate	120	124		ug/L		103	21 - 150
4-Chloroaniline	120	97.8		ug/L		82	10 - 124
4-Chloro-3-methylphenol	120	102		ug/L		85	37 - 131
2-Chloronaphthalene	120	116		ug/L		96	24 - 132
2-Chlorophenol	120	89.2		ug/L		74	27 - 124
4-Chlorophenyl phenyl ether	120	116		ug/L		97	27 - 147
Dibenz[a,h]acridine	120	52.2		ug/L		44	40 - 140

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCS 400-698271/2-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenzofuran	120	114		ug/L		95	30 - 135
3,3'-Dichlorobenzidine	160	259	*+	ug/L		162	10 - 150
2,4-Dichlorophenol	120	98.2		ug/L		82	33 - 132
Diethyl phthalate	120	116		ug/L		97	37 - 145
2,4-Dimethylphenol	120	84.4		ug/L		70	38 - 132
Dimethyl phthalate	120	110		ug/L		91	32 - 137
Di-n-butyl phthalate	120	121		ug/L		101	27 - 150
4,6-Dinitro-ortho-cresol	240	276		ug/L		115	14 - 150
2,4-Dinitrophenol	240	311		ug/L		130	15 - 150
2,4-Dinitrotoluene	120	116		ug/L		97	35 - 136
2,6-Dinitrotoluene	120	115		ug/L		96	29 - 140
Di-n-octyl phthalate	120	119		ug/L		99	26 - 150
1,4-Dioxane	120	53.3		ug/L		44	10 - 87
1,2-Diphenylhydrazine (as Azobenzene)	120	106		ug/L		88	23 - 138
Hexachlorobenzene	120	119		ug/L		99	10 - 150
Hexachlorocyclopentadiene	120	120		ug/L		100	10 - 124
Hexachloroethane	120	87.0		ug/L		72	10 - 127
Indene	120	86.5		ug/L		72	18 - 150
Isophorone	120	96.2		ug/L		80	28 - 127
2-Methylphenol	120	70.8		ug/L		59	34 - 124
3 & 4 Methylphenol	120	73.3		ug/L		61	32 - 122
2-Nitroaniline	120	129		ug/L		107	24 - 139
3-Nitroaniline	120	94.2		ug/L		78	10 - 128
4-Nitroaniline	120	115		ug/L		96	28 - 118
Nitrobenzene	120	92.0		ug/L		77	29 - 120
2-Nitrophenol	120	100		ug/L		84	25 - 148
4-Nitrophenol	240	133		ug/L		55	12 - 129
N-Nitrosodimethylamine	120	46.6		ug/L		39	10 - 115
N-Nitrosodi-n-propylamine	120	108		ug/L		90	24 - 142
N-Nitrosodiphenylamine	119	109		ug/L		92	29 - 138
Pentachlorophenol	240	219		ug/L		91	19 - 150
Phenol	120	39.5		ug/L		33	11 - 95
Pyridine	240	39.0		ug/L		16	10 - 82
Quinoline	120	32.8		ug/L		27	10 - 141
2,4,5-Trichlorophenol	120	128		ug/L		106	30 - 144
2,4,6-Trichlorophenol	120	129		ug/L		108	27 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	85		21 - 114
2-Fluorophenol	42		10 - 105
Nitrobenzene-d5	79		16 - 127
Phenol-d5	32		10 - 129
Terphenyl-d14	93		13 - 150
2,4,6-Tribromophenol	108		10 - 150

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCSD 400-698271/15-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzenethiol	120	74.5		ug/L		62	10 - 140	14	40
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2-Fluorobiphenyl	71		21 - 114						
2-Fluorophenol	44		10 - 105						
Nitrobenzene-d5	67		16 - 127						
Phenol-d5	33		10 - 129						
Terphenyl-d14	112		13 - 150						
2,4,6-Tribromophenol	97		10 - 150						

Lab Sample ID: LCSD 400-698271/3-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline	120	57.4		ug/L		48	10 - 127	25	40
Benzoic acid	493	178		ug/L		36	19 - 126	23	40
Benzyl alcohol	120	79.6		ug/L		66	17 - 109	3	40
Bis(2-chloroethoxy)methane	120	103		ug/L		86	24 - 125	9	40
Bis(2-chloroethyl)ether	120	116		ug/L		96	10 - 121	20	40
bis (2-chloroisopropyl) ether	120	110		ug/L		92	14 - 123	10	40
Bis(2-ethylhexyl) phthalate	120	115		ug/L		96	16 - 150	4	40
4-Bromophenyl phenyl ether	120	99.6		ug/L		83	17 - 150	11	40
Butyl benzyl phthalate	120	136		ug/L		113	21 - 150	10	40
4-Chloroaniline	120	95.9		ug/L		80	10 - 124	2	40
4-Chloro-3-methylphenol	120	103		ug/L		86	37 - 131	1	40
2-Chloronaphthalene	120	102		ug/L		85	24 - 132	12	40
2-Chlorophenol	120	96.8		ug/L		81	27 - 124	8	40
4-Chlorophenyl phenyl ether	120	111		ug/L		92	27 - 147	5	40
Dibenz[a,h]acridine	120	52.2		ug/L		44	40 - 140	0	40
Dibenzofuran	120	111		ug/L		92	30 - 135	3	40
3,3'-Dichlorobenzidine	160	239		ug/L		149	10 - 150	8	40
2,4-Dichlorophenol	120	99.7		ug/L		83	33 - 132	2	40
Diethyl phthalate	120	111		ug/L		92	37 - 145	5	40
2,4-Dimethylphenol	120	90.3		ug/L		75	38 - 132	7	40
Dimethyl phthalate	120	105		ug/L		88	32 - 137	4	40
Di-n-butyl phthalate	120	119		ug/L		99	27 - 150	2	40
4,6-Dinitro-ortho-cresol	240	242		ug/L		101	14 - 150	13	40
2,4-Dinitrophenol	240	300		ug/L		125	15 - 150	4	40
2,4-Dinitrotoluene	120	111		ug/L		92	35 - 136	5	40
2,6-Dinitrotoluene	120	111		ug/L		92	29 - 140	4	40
Di-n-octyl phthalate	120	118		ug/L		99	26 - 150	0	40
1,4-Dioxane	120	38.0		ug/L		32	10 - 87	33	40
1,2-Diphenylhydrazine (as Azobenzene)	120	94.9		ug/L		79	23 - 138	11	40
Hexachlorobenzene	120	105		ug/L		88	10 - 150	12	40
Hexachlorocyclopentadiene	120	101		ug/L		84	10 - 124	18	40
Hexachloroethane	120	96.0		ug/L		80	10 - 127	10	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCSD 400-698271/3-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indene	120	91.1		ug/L		76	18 - 150	5	40
Isophorone	120	107		ug/L		89	28 - 127	10	40
2-Methylphenol	120	80.6		ug/L		67	34 - 124	13	40
3 & 4 Methylphenol	120	79.5		ug/L		66	32 - 122	8	40
2-Nitroaniline	120	103		ug/L		86	24 - 139	22	40
3-Nitroaniline	120	91.7		ug/L		76	10 - 128	3	40
4-Nitroaniline	120	110		ug/L		92	28 - 118	4	40
Nitrobenzene	120	94.8		ug/L		79	29 - 120	3	40
2-Nitrophenol	120	104		ug/L		86	25 - 148	3	40
4-Nitrophenol	240	129		ug/L		54	12 - 129	2	40
N-Nitrosodimethylamine	120	47.6		ug/L		40	10 - 115	2	40
N-Nitrosodi-n-propylamine	120	110		ug/L		92	24 - 142	2	40
N-Nitrosodiphenylamine	119	97.0		ug/L		82	29 - 138	12	40
Pentachlorophenol	240	195		ug/L		81	19 - 150	11	40
Phenol	120	46.5		ug/L		39	11 - 95	16	40
Pyridine	240	70.5	*1	ug/L		29	10 - 82	57	40
Quinoline	120	36.0		ug/L		30	10 - 141	9	40
2,4,5-Trichlorophenol	120	109		ug/L		91	30 - 144	16	40
2,4,6-Trichlorophenol	120	109		ug/L		90	27 - 147	18	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	72		21 - 114
2-Fluorophenol	47		10 - 105
Nitrobenzene-d5	82		16 - 127
Phenol-d5	37		10 - 129
Terphenyl-d14	103		13 - 150
2,4,6-Tribromophenol	104		10 - 150

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

Lab Sample ID: MB 400-697902/1-A

Matrix: Water

Analysis Batch: 697971

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/29/25 16:13	01/30/25 12:34	1
Acenaphthylene	ND		10	0.047	ug/L		01/29/25 16:13	01/30/25 12:34	1
Anthracene	ND		10	0.073	ug/L		01/29/25 16:13	01/30/25 12:34	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/29/25 16:13	01/30/25 12:34	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/29/25 16:13	01/30/25 12:34	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/29/25 16:13	01/30/25 12:34	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/29/25 16:13	01/30/25 12:34	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/29/25 16:13	01/30/25 12:34	1
Chrysene	ND		10	0.039	ug/L		01/29/25 16:13	01/30/25 12:34	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/29/25 16:13	01/30/25 12:34	1
Fluoranthene	ND		10	0.032	ug/L		01/29/25 16:13	01/30/25 12:34	1
Fluorene	ND		10	0.087	ug/L		01/29/25 16:13	01/30/25 12:34	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/29/25 16:13	01/30/25 12:34	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/29/25 16:13	01/30/25 12:34	1

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: MB 400-697902/1-A

Matrix: Water

Analysis Batch: 697971

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		10	0.077	ug/L		01/29/25 16:13	01/30/25 12:34	1
Phenanthrene	ND		10	0.044	ug/L		01/29/25 16:13	01/30/25 12:34	1
Pyrene	ND		10	0.040	ug/L		01/29/25 16:13	01/30/25 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		15 - 150	01/29/25 16:13	01/30/25 12:34	1
Nitrobenzene-d5	129		50 - 150	01/29/25 16:13	01/30/25 12:34	1
Terphenyl-d14	110		43 - 147	01/29/25 16:13	01/30/25 12:34	1

Lab Sample ID: LCS 400-697902/2-A

Matrix: Water

Analysis Batch: 697971

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	2.94	J	ug/L		88	50 - 150
Acenaphthylene	3.34	3.03	J	ug/L		91	50 - 150
Anthracene	3.34	3.61	J	ug/L		108	50 - 150
Benzo[a]anthracene	3.34	3.56	J	ug/L		107	50 - 150
Benzo[a]pyrene	3.34	3.53	J	ug/L		106	50 - 150
Benzo[b]fluoranthene	3.34	3.37	J	ug/L		101	50 - 150
Benzo[g,h,i]perylene	3.34	3.54	J	ug/L		106	50 - 150
Benzo[k]fluoranthene	3.34	3.55	J	ug/L		106	50 - 150
Chrysene	3.34	3.58	J	ug/L		107	50 - 150
Dibenz(a,h)anthracene	3.34	3.55	J	ug/L		107	50 - 150
Fluoranthene	3.34	3.61	J	ug/L		108	50 - 150
Fluorene	3.34	3.29	J	ug/L		99	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.57	J	ug/L		107	50 - 150
1-Methylnaphthalene	3.34	2.69	J	ug/L		81	50 - 150
2-Methylnaphthalene	3.34	2.54	J	ug/L		76	50 - 150
Phenanthrene	3.34	3.43	J	ug/L		103	50 - 150
Pyrene	3.34	3.59	J	ug/L		108	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	106		15 - 150
Nitrobenzene-d5	119		50 - 150
Terphenyl-d14	115		43 - 147

Lab Sample ID: LCSD 400-697902/3-A

Matrix: Water

Analysis Batch: 697971

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	3.34	3.51	J	ug/L		105	50 - 150	18	40
Acenaphthylene	3.34	3.50	J	ug/L		105	50 - 150	14	40
Anthracene	3.34	3.95	J	ug/L		118	50 - 150	9	40
Benzo[a]anthracene	3.34	3.84	J	ug/L		115	50 - 150	8	40
Benzo[a]pyrene	3.34	3.78	J	ug/L		113	50 - 150	7	40
Benzo[b]fluoranthene	3.34	3.64	J	ug/L		109	50 - 150	8	40

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

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

Lab Sample ID: LCSD 400-697902/3-A

Matrix: Water

Analysis Batch: 697971

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	3.34	3.78	J	ug/L		113	50 - 150	6	40
Benzo[k]fluoranthene	3.34	3.75	J	ug/L		112	50 - 150	5	40
Chrysene	3.34	3.80	J	ug/L		114	50 - 150	6	40
Dibenz(a,h)anthracene	3.34	3.89	J	ug/L		117	50 - 150	9	40
Fluoranthene	3.34	3.95	J	ug/L		119	50 - 150	9	40
Fluorene	3.34	3.81	J	ug/L		114	50 - 150	15	40
Indeno[1,2,3-cd]pyrene	3.34	3.82	J	ug/L		114	50 - 150	7	40
1-Methylnaphthalene	3.34	3.46	J	ug/L		104	50 - 150	25	40
2-Methylnaphthalene	3.34	3.38	J	ug/L		101	50 - 150	28	40
Phenanthrene	3.34	3.82	J	ug/L		115	50 - 150	11	40
Pyrene	3.34	3.93	J	ug/L		118	50 - 150	9	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	103		15 - 150
Nitrobenzene-d5	113		50 - 150
Terphenyl-d14	110		43 - 147

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-697957/1-A

Matrix: Water

Analysis Batch: 698015

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 697957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/30/25 09:24	01/30/25 15:12	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/30/25 09:24	01/30/25 15:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	75		51 - 149	01/30/25 09:24	01/30/25 15:12	1

Lab Sample ID: LCS 400-697957/2-A

Matrix: Water

Analysis Batch: 698015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 697957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.101	0.0740		ug/L		73	60 - 140
1,2-Dibromoethane	0.100	0.0911		ug/L		91	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	74 p		51 - 149

Lab Sample ID: LCSD 400-697957/3-A

Matrix: Water

Analysis Batch: 698015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 697957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.101	0.0723		ug/L		72	60 - 140	2	30
1,2-Dibromoethane	0.100	0.0902		ug/L		90	60 - 140	1	30

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-269899-1

Method: 8011 - EDB and DBCP in Water by Microextraction (Continued)

Lab Sample ID: LCSD 400-697957/3-A
Matrix: Water
Analysis Batch: 698015

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 697957

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	77		51 - 149

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-269899-1

Login Number: 269899

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Darrien

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	2.1°C, 2.0°C IR8
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-269899-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-270043-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/5/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/17/2025

Stage 2A Validation																																																					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments																																																
		Pass	Fail ¹	N/A																																																	
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.																																																
Holding Times	Analyses were performed within holding time.	X																																																			
Surrogate	Surrogate recoveries met acceptance criteria.	X																																																			
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.			X																																																	
Matrix Spike	MS recoveries met acceptance criteria.			X																																																	
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.		X																																																		
<table border="1"> <thead> <tr> <th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr> </thead> <tbody> <tr> <td>LCS/LCSD 400-698412/2-A/3-A</td><td>SVOCs</td><td>Aniline</td><td>52/2</td><td>183</td><td>10-127/40</td></tr> <tr> <td>LCS/LCSD 400-698412/2-A/3-A</td><td>SVOCs</td><td>4-Chloroaniline</td><td>68/24</td><td>96</td><td>10-124/40</td></tr> <tr> <td>LCS/LCSD 400-698412/2-A/3-A</td><td>SVOCs</td><td>Dibenz[a,h]acridine</td><td>157/153</td><td>3</td><td>40-140/40</td></tr> <tr> <td>LCS/LCSD 400-698412/2-A/3-A</td><td>SVOCs</td><td>3-Nitroaniline</td><td>78/44</td><td>56</td><td>10-128/40</td></tr> <tr> <td>LCS/LCSD 400-698412/2-A/3-A</td><td>SVOCs</td><td>Phenol</td><td>32/54</td><td>52</td><td>11-95/40</td></tr> <tr> <td>LCS/LCSD 400-698412/2-A/3-A</td><td>SVOCs</td><td>Pyridine</td><td>14/0.08</td><td>198</td><td>10-82/40</td></tr> <tr> <td>LCS/LCSD 400-698412/2-A/3-A</td><td>SVOCs</td><td>Quinoline</td><td>136/3</td><td>192</td><td>10-141/40</td></tr> </tbody> </table>						LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS/LCSD 400-698412/2-A/3-A	SVOCs	Aniline	52/2	183	10-127/40	LCS/LCSD 400-698412/2-A/3-A	SVOCs	4-Chloroaniline	68/24	96	10-124/40	LCS/LCSD 400-698412/2-A/3-A	SVOCs	Dibenz[a,h]acridine	157/153	3	40-140/40	LCS/LCSD 400-698412/2-A/3-A	SVOCs	3-Nitroaniline	78/44	56	10-128/40	LCS/LCSD 400-698412/2-A/3-A	SVOCs	Phenol	32/54	52	11-95/40	LCS/LCSD 400-698412/2-A/3-A	SVOCs	Pyridine	14/0.08	198	10-82/40	LCS/LCSD 400-698412/2-A/3-A	SVOCs	Quinoline	136/3	192	10-141/40
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria																																																
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	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation						
Item Reviewed	Acceptable Criteria		Quality Condition			Comments
			Pass	Fail ¹	N/A	
LCS/LCSD 400-698412/2-A/3-A	SVOCs	3,3'-Dichlorobenzidine	260/210	21	10-150/40	
Analytical data that required qualification based on LCS/LCSD data are referenced below. Analytical data reported as non-detect and associated with LCS/LCSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. 3,3'-Dichlorobenzidine exceeded calibration range; therefore, qualification was not considered necessary. Analytical data associated with LCS/LCSD RPD alone outside evaluation criteria did not require qualification. Method 8270E (SVOCs) Professional judgment was used to qualify, however not reject, data associated with aniline, pyridine, and quinoline below evaluation criteria; aniline, pyridine, and quinoline have been identified as a poor-performing analytes under Method 8270. Aniline, pyridine, and quinoline in sample MW26-ROX-012825 were qualified as estimated (UJ).						
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X				
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X				
Detection Limits ²	No results were reported as non-detect at elevated detection limits.		X			Analytes were detected in samples that were diluted.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X				
Usability	No results qualified as unusable.	X				
Historical	Sample results were within 3 standard deviations from historical mean.			X		Not evaluated.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method		X		
Method 8270E (SVOCs) The initial calibration verification (ICV) for aniline were outside evaluation criteria, biased low. Aniline in sample MW26-ROX-012825 was qualified due to LCS/LCSD recoveries outside evaluation criteria; no further qualification is required. Method 8011 (VOCs by 8011) The continuing calibration verification (CCV) for 1,2-dibromo-3-chloropropane was outside evaluation criteria, biased low. The associated result for sample MW26-ROX-012825 was qualified as estimated (UJ).					

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/10/2025 9:58:43 AM

JOB DESCRIPTION

ROXANA QUARTERLY GW 1Q25

JOB NUMBER

400-270043-1

Reviewed 03/05/2025
VA

Eurofins Pensacola

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 Southeast, LLC Project Manager.

Authorization



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2/10/2025 9:58:43 AM

Authorized for release by
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(615)301-5038

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Job ID: 400-270043-1

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Job Narrative 400-270043-1

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 1/29/2025 9:41 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 3.7°C.

GC/MS VOA

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid : TB-ROX-012825-8260 (400-270043-1) and MW26-ROX-012825 (400-270043-3). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and acrylonitrile, acid-labile compounds that degrades in an acidic medium.

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

GC/MS Semi VOA

Method 8270E: The initial calibration verification (ICV) analyzed in batch 400-694707 was outside method criteria for the following analyte(s): 3,3'-Dichlorobenzidine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-698412 and analytical batch 400-698513 recovered outside control limits for the following analytes: 3-Nitroaniline, 4-Nitroaniline and Phenol.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698513 recovered above the upper control limit for 1,4-Dioxane and Pyridine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698513 recovered above the upper control limit for Indene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 400-698513 recovered above the upper control limit for Benzenethiol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The laboratory control sample duplicate (LCSD) for preparation batch 400-698412 and analytical batch 400-698513 recovered outside control limits for the following analyte(s): Pyridine, Aniline and Quinoline. Pyridine, Aniline and Quinoline has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 400-698412 and analytical batch 400-698513 recovered outside control limits for the following analytes: Dibenz[a,h]acridine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch

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Case Narrative

Client: AECOM
Project: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Job ID: 400-270043-1 (Continued)

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400-698412 and analytical batch 400-698584 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC Semi VOA

Method 8011: The continuing calibration verification (CCV) associated with batch 400-698131 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Sample Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-270043-1	TB-ROX-012825-8260	Water	01/28/25 00:00	01/29/25 09:41
400-270043-2	TB-ROX-012825-8011	Water	01/28/25 00:00	01/29/25 09:41
400-270043-3	MW26-ROX-012825	Water	01/28/25 08:40	01/29/25 09:41

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Detection Summary

Client: AECOM

Job ID: 400-270043-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012825-8260

Lab Sample ID: 400-270043-1

☐ No Detections.

Client Sample ID: TB-ROX-012825-8011

Lab Sample ID: 400-270043-2

☐ No Detections.

Client Sample ID: MW26-ROX-012825

Lab Sample ID: 400-270043-3

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM

Job ID: 400-270043-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012825-8260

Lab Sample ID: 400-270043-1

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/08/25 09:20	1
Acrolein	ND		20	3.3	ug/L			02/08/25 09:20	1
Acrylonitrile	ND		10	2.8	ug/L			02/08/25 09:20	1
Benzene	ND		1.0	0.50	ug/L			02/08/25 09:20	1
Bromobenzene	ND		1.0	0.54	ug/L			02/08/25 09:20	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/08/25 09:20	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/08/25 09:20	1
Bromoform	ND		5.0	0.25	ug/L			02/08/25 09:20	1
Bromomethane	ND		1.0	0.98	ug/L			02/08/25 09:20	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/08/25 09:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/08/25 09:20	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/08/25 09:20	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/08/25 09:20	1
Chloroethane	ND		1.0	0.76	ug/L			02/08/25 09:20	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/08/25 09:20	1
Chloroform	ND		1.0	0.90	ug/L			02/08/25 09:20	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/08/25 09:20	1
Chloromethane	ND		1.0	0.40	ug/L			02/08/25 09:20	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/08/25 09:20	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/08/25 09:20	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/08/25 09:20	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/08/25 09:20	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/08/25 09:20	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/08/25 09:20	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/08/25 09:20	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/08/25 09:20	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/08/25 09:20	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/08/25 09:20	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 09:20	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 09:20	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 09:20	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/08/25 09:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/08/25 09:20	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/08/25 09:20	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/08/25 09:20	1
2-Hexanone	ND		25	4.3	ug/L			02/08/25 09:20	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/08/25 09:20	1
Methylene bromide	ND		5.0	0.22	ug/L			02/08/25 09:20	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/08/25 09:20	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/08/25 09:20	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/08/25 09:20	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/08/25 09:20	1
Naphthalene	ND		5.0	3.0	ug/L			02/08/25 09:20	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/08/25 09:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/08/25 09:20	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/08/25 09:20	1
o-Xylene	ND		5.0	3.0	ug/L			02/08/25 09:20	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/08/25 09:20	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/08/25 09:20	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Client Sample ID: TB-ROX-012825-8260

Lab Sample ID: 400-270043-1

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 09:41

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/08/25 09:20	1
Styrene	ND		1.0	1.0	ug/L			02/08/25 09:20	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/08/25 09:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/08/25 09:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/08/25 09:20	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/08/25 09:20	1
Toluene	ND		1.0	0.90	ug/L			02/08/25 09:20	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/08/25 09:20	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/08/25 09:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/08/25 09:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/08/25 09:20	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/08/25 09:20	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/08/25 09:20	1
Trichloroethene	ND		1.0	0.15	ug/L			02/08/25 09:20	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/08/25 09:20	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/08/25 09:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/08/25 09:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/08/25 09:20	1
Vinyl acetate	ND		25	0.93	ug/L			02/08/25 09:20	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/08/25 09:20	1
Xylenes, Total	ND		10	6.0	ug/L			02/08/25 09:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		56 - 136					02/08/25 09:20	1
Dibromofluoromethane	94		79 - 130					02/08/25 09:20	1
Toluene-d8 (Surr)	101		64 - 132					02/08/25 09:20	1

Client Sample Results

Client: AECOM

Job ID: 400-270043-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Client Sample ID: TB-ROX-012825-8011

Lab Sample ID: 400-270043-2

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 09:41

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.032	0.018	ug/L		01/31/25 09:27	01/31/25 17:43	1
1,2-Dibromoethane	ND		0.021	0.016	ug/L		01/31/25 09:27	01/31/25 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	68		51 - 149				01/31/25 09:27	01/31/25 17:43	1

Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Client Sample ID: MW26-ROX-012825

Lab Sample ID: 400-270043-3

Date Collected: 01/28/25 08:40

Matrix: Water

Date Received: 01/29/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/08/25 09:45	1
Acrolein	ND		20	3.3	ug/L			02/08/25 09:45	1
Acrylonitrile	ND		10	2.8	ug/L			02/08/25 09:45	1
Benzene	ND		1.0	0.50	ug/L			02/08/25 09:45	1
Bromobenzene	ND		1.0	0.54	ug/L			02/08/25 09:45	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/08/25 09:45	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/08/25 09:45	1
Bromoform	ND		5.0	0.25	ug/L			02/08/25 09:45	1
Bromomethane	ND		1.0	0.98	ug/L			02/08/25 09:45	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/08/25 09:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/08/25 09:45	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/08/25 09:45	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/08/25 09:45	1
Chloroethane	ND		1.0	0.76	ug/L			02/08/25 09:45	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/08/25 09:45	1
Chloroform	ND		1.0	0.90	ug/L			02/08/25 09:45	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/08/25 09:45	1
Chloromethane	ND		1.0	0.40	ug/L			02/08/25 09:45	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/08/25 09:45	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/08/25 09:45	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/08/25 09:45	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/08/25 09:45	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/08/25 09:45	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/08/25 09:45	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/08/25 09:45	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/08/25 09:45	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/08/25 09:45	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/08/25 09:45	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 09:45	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 09:45	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 09:45	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/08/25 09:45	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/08/25 09:45	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/08/25 09:45	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/08/25 09:45	1
2-Hexanone	ND		25	4.3	ug/L			02/08/25 09:45	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/08/25 09:45	1
Methylene bromide	ND		5.0	0.22	ug/L			02/08/25 09:45	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/08/25 09:45	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/08/25 09:45	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/08/25 09:45	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/08/25 09:45	1
Naphthalene	ND		5.0	3.0	ug/L			02/08/25 09:45	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/08/25 09:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/08/25 09:45	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/08/25 09:45	1
o-Xylene	ND		5.0	3.0	ug/L			02/08/25 09:45	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/08/25 09:45	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/08/25 09:45	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Client Sample ID: MW26-ROX-012825

Lab Sample ID: 400-270043-3

Date Collected: 01/28/25 08:40

Matrix: Water

Date Received: 01/29/25 09:41

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/08/25 09:45	1
Styrene	ND		1.0	1.0	ug/L			02/08/25 09:45	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/08/25 09:45	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/08/25 09:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/08/25 09:45	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/08/25 09:45	1
Toluene	ND		1.0	0.90	ug/L			02/08/25 09:45	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/08/25 09:45	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/08/25 09:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/08/25 09:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/08/25 09:45	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/08/25 09:45	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/08/25 09:45	1
Trichloroethene	ND		1.0	0.15	ug/L			02/08/25 09:45	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/08/25 09:45	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/08/25 09:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/08/25 09:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/08/25 09:45	1
Vinyl acetate	ND		25	0.93	ug/L			02/08/25 09:45	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/08/25 09:45	1
Xylenes, Total	ND		10	6.0	ug/L			02/08/25 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/08/25 09:45	1
Dibromofluoromethane	95		79 - 130		02/08/25 09:45	1
Toluene-d8 (Surr)	100		64 - 132		02/08/25 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND	*- *1 UJ	9.4	8.1	ug/L		02/04/25 15:36	02/05/25 19:49	1
Benzenethiol	ND		9.4	9.3	ug/L		02/04/25 15:36	02/05/25 19:49	1
Benzoic acid	ND		28	22	ug/L		02/04/25 15:36	02/05/25 19:49	1
Benzyl alcohol	ND		9.4	6.8	ug/L		02/04/25 15:36	02/05/25 19:49	1
Bis(2-chloroethoxy)methane	ND		9.4	4.3	ug/L		02/04/25 15:36	02/05/25 19:49	1
Bis(2-chloroethyl)ether	ND		9.4	3.7	ug/L		02/04/25 15:36	02/05/25 19:49	1
bis (2-chloroisopropyl) ether	ND		9.4	1.7	ug/L		02/04/25 15:36	02/05/25 19:49	1
Bis(2-ethylhexyl) phthalate	ND		9.4	8.3	ug/L		02/04/25 15:36	02/05/25 19:49	1
4-Bromophenyl phenyl ether	ND		9.4	8.1	ug/L		02/04/25 15:36	02/05/25 19:49	1
Butyl benzyl phthalate	ND		9.4	5.4	ug/L		02/04/25 15:36	02/05/25 19:49	1
4-Chloroaniline	ND	*1	9.4	4.4	ug/L		02/04/25 15:36	02/05/25 19:49	1
4-Chloro-3-methylphenol	ND		9.4	5.0	ug/L		02/04/25 15:36	02/05/25 19:49	1
2-Chloronaphthalene	ND		9.4	3.6	ug/L		02/04/25 15:36	02/05/25 19:49	1
2-Chlorophenol	ND		9.4	3.8	ug/L		02/04/25 15:36	02/05/25 19:49	1
4-Chlorophenyl phenyl ether	ND		9.4	3.5	ug/L		02/04/25 15:36	02/05/25 19:49	1
Dibenz[a,h]acridine	ND	*+	9.4	2.6	ug/L		02/04/25 15:36	02/05/25 19:49	1
Dibenzofuran	ND		9.4	3.7	ug/L		02/04/25 15:36	02/05/25 19:49	1
3,3'-Dichlorobenzidine	ND	*+	10	10	ug/L		02/04/25 15:36	02/05/25 19:49	1
2,4-Dichlorophenol	ND		9.4	4.0	ug/L		02/04/25 15:36	02/05/25 19:49	1
Diethyl phthalate	ND		9.4	4.1	ug/L		02/04/25 15:36	02/05/25 19:49	1
2,4-Dimethylphenol	ND		9.4	4.9	ug/L		02/04/25 15:36	02/05/25 19:49	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Client Sample ID: MW26-ROX-012825

Lab Sample ID: 400-270043-3

Date Collected: 01/28/25 08:40

Matrix: Water

Date Received: 01/29/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		9.4	3.9	ug/L		02/04/25 15:36	02/05/25 19:49	1
Di-n-butyl phthalate	ND		9.4	4.3	ug/L		02/04/25 15:36	02/05/25 19:49	1
4,6-Dinitro-ortho-cresol	ND		9.4	9.4	ug/L		02/04/25 15:36	02/05/25 19:49	1
2,4-Dinitrophenol	ND		28	4.3	ug/L		02/04/25 15:36	02/05/25 19:49	1
2,4-Dinitrotoluene	ND		9.4	4.8	ug/L		02/04/25 15:36	02/05/25 19:49	1
2,6-Dinitrotoluene	ND		9.4	3.7	ug/L		02/04/25 15:36	02/05/25 19:49	1
Di-n-octyl phthalate	ND		9.4	5.6	ug/L		02/04/25 15:36	02/05/25 19:49	1
1,4-Dioxane	ND		9.4	4.0	ug/L		02/04/25 15:36	02/05/25 19:49	1
1,2-Diphenylhydrazine (as Azobenzene)	ND		9.4	3.1	ug/L		02/04/25 15:36	02/05/25 19:49	1
Hexachlorobenzene	ND		9.4	9.1	ug/L		02/04/25 15:36	02/05/25 19:49	1
Hexachlorocyclopentadiene	ND		19	4.2	ug/L		02/04/25 15:36	02/05/25 19:49	1
Hexachloroethane	ND		9.4	4.9	ug/L		02/04/25 15:36	02/05/25 19:49	1
Indene	ND		9.4	3.4	ug/L		02/04/25 15:36	02/05/25 19:49	1
Isophorone	ND		9.4	4.9	ug/L		02/04/25 15:36	02/05/25 19:49	1
2-Methylphenol	ND		9.4	3.0	ug/L		02/04/25 15:36	02/05/25 19:49	1
3 & 4 Methylphenol	ND		19	4.3	ug/L		02/04/25 15:36	02/05/25 19:49	1
2-Nitroaniline	ND		9.4	4.7	ug/L		02/04/25 15:36	02/05/25 19:49	1
3-Nitroaniline	ND *1		9.4	4.4	ug/L		02/04/25 15:36	02/05/25 19:49	1
4-Nitroaniline	ND		9.4	3.8	ug/L		02/04/25 15:36	02/05/25 19:49	1
Nitrobenzene	ND		9.4	4.4	ug/L		02/04/25 15:36	02/05/25 19:49	1
2-Nitrophenol	ND		9.4	4.3	ug/L		02/04/25 15:36	02/05/25 19:49	1
4-Nitrophenol	ND		9.4	3.1	ug/L		02/04/25 15:36	02/05/25 19:49	1
N-Nitrosodimethylamine	ND		9.4	2.1	ug/L		02/04/25 15:36	02/05/25 19:49	1
N-Nitrosodi-n-propylamine	ND		9.4	2.3	ug/L		02/04/25 15:36	02/05/25 19:49	1
N-Nitrosodiphenylamine	ND		9.4	3.5	ug/L		02/04/25 15:36	02/05/25 19:49	1
Pentachlorophenol	ND		19	11	ug/L		02/04/25 15:36	02/05/25 19:49	1
Phenol	ND *1		9.4	3.9	ug/L		02/04/25 15:36	02/05/25 19:49	1
Pyridine	ND *- *1	UJ	9.4	9.4	ug/L		02/04/25 15:36	02/05/25 19:49	1
Quinoline	ND *- *1	UJ	9.4	2.2	ug/L		02/04/25 15:36	02/05/25 19:49	1
2,4,5-Trichlorophenol	ND		9.4	3.7	ug/L		02/04/25 15:36	02/05/25 19:49	1
2,4,6-Trichlorophenol	ND		9.4	3.3	ug/L		02/04/25 15:36	02/05/25 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		21 - 114	02/04/25 15:36	02/05/25 19:49	1
2-Fluorophenol	38		10 - 105	02/04/25 15:36	02/05/25 19:49	1
Nitrobenzene-d5	67		16 - 127	02/04/25 15:36	02/05/25 19:49	1
Phenol-d5	25		10 - 129	02/04/25 15:36	02/05/25 19:49	1
Terphenyl-d14	102		13 - 150	02/04/25 15:36	02/05/25 19:49	1
2,4,6-Tribromophenol	76		10 - 150	02/04/25 15:36	02/05/25 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/31/25 12:39	02/03/25 21:04	1
Acenaphthylene	ND		10	0.047	ug/L		01/31/25 12:39	02/03/25 21:04	1
Anthracene	ND		10	0.073	ug/L		01/31/25 12:39	02/03/25 21:04	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/31/25 12:39	02/03/25 21:04	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/31/25 12:39	02/03/25 21:04	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/31/25 12:39	02/03/25 21:04	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/31/25 12:39	02/03/25 21:04	1

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Client Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Client Sample ID: MW26-ROX-012825

Lab Sample ID: 400-270043-3

Date Collected: 01/28/25 08:40

Matrix: Water

Date Received: 01/29/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/31/25 12:39	02/03/25 21:04	1
Chrysene	ND		10	0.039	ug/L		01/31/25 12:39	02/03/25 21:04	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/31/25 12:39	02/03/25 21:04	1
Fluoranthene	ND		10	0.032	ug/L		01/31/25 12:39	02/03/25 21:04	1
Fluorene	ND		10	0.087	ug/L		01/31/25 12:39	02/03/25 21:04	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/31/25 12:39	02/03/25 21:04	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/31/25 12:39	02/03/25 21:04	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/31/25 12:39	02/03/25 21:04	1
Phenanthrene	ND		10	0.044	ug/L		01/31/25 12:39	02/03/25 21:04	1
Pyrene	ND		10	0.040	ug/L		01/31/25 12:39	02/03/25 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		15 - 150	01/31/25 12:39	02/03/25 21:04	1
Nitrobenzene-d5	133		50 - 150	01/31/25 12:39	02/03/25 21:04	1
Terphenyl-d14	122		43 - 147	01/31/25 12:39	02/03/25 21:04	1

Method: EPA 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	UJ	0.033	0.019	ug/L		01/31/25 09:27	01/31/25 18:25	1
1,2-Dibromoethane	ND		0.022	0.016	ug/L		01/31/25 09:27	01/31/25 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	56		51 - 149	01/31/25 09:27	01/31/25 18:25	1

Definitions/Glossary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-270043-1	TB-ROX-012825-8260	104	94	101
400-270043-3	MW26-ROX-012825	102	95	100
LCS 400-698812/1002	Lab Control Sample	103	94	102
MB 400-698812/4	Method Blank	102	91	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (21-114)	2FP (10-105)	NBZ (16-127)	PHL (10-129)	TPHL (13-150)	TBP (10-150)
400-270043-3	MW26-ROX-012825	78	38	67	25	102	76
LCS 400-698412/2-A	Lab Control Sample	80	41	81	30	98	98
LCS 400-698412/6-A	Lab Control Sample	80	36	73	24	103	80
LCSD 400-698412/3-A	Lab Control Sample Dup	77	62	80	50	100	94
LCSD 400-698412/7-A	Lab Control Sample Dup	89	42	77	28	104	79
MB 400-698412/1-A	Method Blank	73	39	73	24	102	74

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (15-150)	NBZ (50-150)	TPHL (43-147)
400-270043-3	MW26-ROX-012825	101	133	122
LCS 400-698123/2-A	Lab Control Sample	104	94	106
LCSD 400-698123/3-A	Lab Control Sample Dup	110	92	115
MB 400-698123/1-A	Method Blank	109	94	118

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14

Surrogate Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Method: 8011 - EDB and DBCP in Water by Microextraction

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (51-149)
400-270043-2	TB-ROX-012825-8011	68
400-270043-3	MW26-ROX-012825	56
LCS 400-698092/2-A	Lab Control Sample	76
LCSD 400-698092/3-A	Lab Control Sample Dup	87
MB 400-698092/1-A	Method Blank	92
Surrogate Legend		
BFB = 4-Bromofluorobenzene		

Method Summary

Client: AECOM

Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8011	EDB and DBCP in Water by Microextraction	EPA	EET PEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
8011	Microextraction	SW846	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Client Sample ID: TB-ROX-012825-8260

Lab Sample ID: 400-270043-1

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698812	02/08/25 09:20	WPD	EET PEN

Client Sample ID: TB-ROX-012825-8011

Lab Sample ID: 400-270043-2

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			32.6 mL	35 mL	698092	01/31/25 09:27	KR	EET PEN
Total/NA	Analysis	8011		1			698131	01/31/25 17:43	KR	EET PEN

Client Sample ID: MW26-ROX-012825

Lab Sample ID: 400-270043-3

Date Collected: 01/28/25 08:40

Matrix: Water

Date Received: 01/29/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698812	02/08/25 09:45	WPD	EET PEN
Total/NA	Prep	3510C			267 mL	1 mL	698412	02/04/25 15:36	DPB	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 19:49	S1B	EET PEN
Total/NA	Prep	3511			30.1 mL	2 mL	698123	01/31/25 12:39	RAW	EET PEN
Total/NA	Analysis	8270E		1			698294	02/03/25 21:04	KJA	EET PEN
Total/NA	Prep	8011			32.1 mL	35 mL	698092	01/31/25 09:27	KR	EET PEN
Total/NA	Analysis	8011		1			698131	01/31/25 18:25	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698092/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	698092	01/31/25 09:27	KR	EET PEN
Total/NA	Analysis	8011		1			698131	01/31/25 14:32	KR	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698123/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	698123	01/31/25 12:39	RAW	EET PEN
Total/NA	Analysis	8270E		1	0 mL	1.0 mL	698290	02/03/25 14:29	KJA	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698412/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698412	02/04/25 15:35	DPB	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 16:34	S1B	EET PEN

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Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-698812/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698812	02/08/25 08:07	WPD	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698092/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	698092	01/31/25 09:27	KR	EET PEN
Total/NA	Analysis	8011		1			698131	01/31/25 14:53	KR	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698123/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	698123	01/31/25 12:39	RAW	EET PEN
Total/NA	Analysis	8270E		1			698290	02/03/25 15:00	KJA	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698412/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698412	02/04/25 15:35	DPB	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 16:58	S1B	EET PEN
Total/NA	Prep	3510C			250 mL	1 mL	698412	02/04/25 15:35	DPB	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 12:42	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698412/6-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698412	02/04/25 15:36	DPB	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 17:47	S1B	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-698812/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	698812	02/08/25 07:10	WPD	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-698092/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	698092	01/31/25 09:27	KR	EET PEN
Total/NA	Analysis	8011		1			698131	01/31/25 15:14	KR	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-698123/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			30 mL	2 mL	698123	01/31/25 12:39	RAW	EET PEN
Total/NA	Analysis	8270E		1			698290	02/03/25 15:30	KJA	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-698412/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698412	02/04/25 15:35	DPB	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 17:22	S1B	EET PEN
Total/NA	Prep	3510C			250 mL	1 mL	698412	02/04/25 15:35	DPB	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698584	02/06/25 13:04	S1B	EET PEN

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 400-698412/7-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	698412	02/04/25 15:36	DPB	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	698513	02/05/25 18:12	S1B	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

GC/MS VOA

Analysis Batch: 698812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270043-1	TB-ROX-012825-8260	Total/NA	Water	8260D	
400-270043-3	MW26-ROX-012825	Total/NA	Water	8260D	
MB 400-698812/4	Method Blank	Total/NA	Water	8260D	
LCS 400-698812/1002	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 698123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270043-3	MW26-ROX-012825	Total/NA	Water	3511	
MB 400-698123/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-698123/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 400-698123/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 698290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-698123/1-A	Method Blank	Total/NA	Water	8270E	698123
LCS 400-698123/2-A	Lab Control Sample	Total/NA	Water	8270E	698123
LCSD 400-698123/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	698123

Analysis Batch: 698294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270043-3	MW26-ROX-012825	Total/NA	Water	8270E	698123

Prep Batch: 698412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270043-3	MW26-ROX-012825	Total/NA	Water	3510C	
MB 400-698412/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-698412/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 400-698412/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-698412/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 400-698412/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 698513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270043-3	MW26-ROX-012825	Total/NA	Water	8270E	698412
MB 400-698412/1-A	Method Blank	Total/NA	Water	8270E	698412
LCS 400-698412/2-A	Lab Control Sample	Total/NA	Water	8270E	698412
LCS 400-698412/6-A	Lab Control Sample	Total/NA	Water	8270E	698412
LCSD 400-698412/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	698412
LCSD 400-698412/7-A	Lab Control Sample Dup	Total/NA	Water	8270E	698412

Analysis Batch: 698584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-698412/2-A	Lab Control Sample	Total/NA	Water	8270E	698412
LCSD 400-698412/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	698412

GC Semi VOA

Prep Batch: 698092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270043-2	TB-ROX-012825-8011	Total/NA	Water	8011	

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QC Association Summary

Client: AECOM

Job ID: 400-270043-1

Project/Site: ROXANA QUARTERLY GW 1Q25

GC Semi VOA (Continued)

Prep Batch: 698092 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270043-3	MW26-ROX-012825	Total/NA	Water	8011	
MB 400-698092/1-A	Method Blank	Total/NA	Water	8011	
LCS 400-698092/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 400-698092/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 698131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270043-2	TB-ROX-012825-8011	Total/NA	Water	8011	698092
400-270043-3	MW26-ROX-012825	Total/NA	Water	8011	698092
MB 400-698092/1-A	Method Blank	Total/NA	Water	8011	698092
LCS 400-698092/2-A	Lab Control Sample	Total/NA	Water	8011	698092
LCSD 400-698092/3-A	Lab Control Sample Dup	Total/NA	Water	8011	698092

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: MB 400-698812/4

Matrix: Water

Analysis Batch: 698812

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/08/25 08:07	1
Acrolein	ND		20	3.3	ug/L			02/08/25 08:07	1
Acrylonitrile	ND		10	2.8	ug/L			02/08/25 08:07	1
Benzene	ND		1.0	0.50	ug/L			02/08/25 08:07	1
Bromobenzene	ND		1.0	0.54	ug/L			02/08/25 08:07	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/08/25 08:07	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/08/25 08:07	1
Bromoform	ND		5.0	0.25	ug/L			02/08/25 08:07	1
Bromomethane	ND		1.0	0.98	ug/L			02/08/25 08:07	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/08/25 08:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/08/25 08:07	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/08/25 08:07	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/08/25 08:07	1
Chloroethane	ND		1.0	0.76	ug/L			02/08/25 08:07	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/08/25 08:07	1
Chloroform	ND		1.0	0.90	ug/L			02/08/25 08:07	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/08/25 08:07	1
Chloromethane	ND		1.0	0.40	ug/L			02/08/25 08:07	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/08/25 08:07	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/08/25 08:07	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/08/25 08:07	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/08/25 08:07	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/08/25 08:07	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/08/25 08:07	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/08/25 08:07	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/08/25 08:07	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/08/25 08:07	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/08/25 08:07	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 08:07	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 08:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 08:07	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/08/25 08:07	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/08/25 08:07	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/08/25 08:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/08/25 08:07	1
2-Hexanone	ND		25	4.3	ug/L			02/08/25 08:07	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/08/25 08:07	1
Methylene bromide	ND		5.0	0.22	ug/L			02/08/25 08:07	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/08/25 08:07	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/08/25 08:07	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/08/25 08:07	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/08/25 08:07	1
Naphthalene	ND		5.0	3.0	ug/L			02/08/25 08:07	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/08/25 08:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/08/25 08:07	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/08/25 08:07	1
o-Xylene	ND		5.0	3.0	ug/L			02/08/25 08:07	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/08/25 08:07	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: MB 400-698812/4

Matrix: Water

Analysis Batch: 698812

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/08/25 08:07	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/08/25 08:07	1
Styrene	ND		1.0	1.0	ug/L			02/08/25 08:07	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/08/25 08:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/08/25 08:07	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/08/25 08:07	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/08/25 08:07	1
Toluene	ND		1.0	0.90	ug/L			02/08/25 08:07	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/08/25 08:07	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/08/25 08:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/08/25 08:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/08/25 08:07	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/08/25 08:07	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/08/25 08:07	1
Trichloroethene	ND		1.0	0.15	ug/L			02/08/25 08:07	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/08/25 08:07	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/08/25 08:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/08/25 08:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/08/25 08:07	1
Vinyl acetate	ND		25	0.93	ug/L			02/08/25 08:07	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/08/25 08:07	1
Xylenes, Total	ND		10	6.0	ug/L			02/08/25 08:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		56 - 136		02/08/25 08:07	1
Dibromofluoromethane	91		79 - 130		02/08/25 08:07	1
Toluene-d8 (Surr)	101		64 - 132		02/08/25 08:07	1

Lab Sample ID: LCS 400-698812/1002

Matrix: Water

Analysis Batch: 698812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	191		ug/L		96	43 - 150
Acrolein	500	450		ug/L		90	38 - 150
Acrylonitrile	500	541		ug/L		108	64 - 142
Benzene	50.0	49.4		ug/L		99	70 - 130
Bromobenzene	50.0	52.2		ug/L		104	70 - 132
Bromochloromethane	50.0	49.4		ug/L		99	70 - 130
Bromodichloromethane	50.0	48.0		ug/L		96	67 - 133
Bromoform	50.0	46.7		ug/L		93	57 - 140
Bromomethane	50.0	43.1		ug/L		86	10 - 150
2-Butanone (MEK)	200	181		ug/L		90	61 - 145
Carbon disulfide	50.0	36.5		ug/L		73	61 - 137
Carbon tetrachloride	50.0	42.5		ug/L		85	61 - 137
Chlorobenzene	50.0	52.0		ug/L		104	70 - 130
Chloroethane	50.0	49.0		ug/L		98	55 - 141
2-Chloroethyl vinyl ether	50.0	51.1		ug/L		102	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: LCS 400-698812/1002

Matrix: Water

Analysis Batch: 698812

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	48.9		ug/L		98	69 - 130
1-Chlorohexane	50.0	56.6		ug/L		113	69 - 130
Chloromethane	50.0	44.4		ug/L		89	58 - 137
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	68 - 130
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	69 - 132
Dibromochloromethane	50.0	49.2		ug/L		98	67 - 135
1,2-Dichlorobenzene	50.0	56.6		ug/L		113	67 - 130
1,3-Dichlorobenzene	50.0	56.2		ug/L		112	70 - 130
1,4-Dichlorobenzene	50.0	55.3		ug/L		111	70 - 130
Dichlorodifluoromethane	50.0	29.9		ug/L		60	41 - 146
1,1-Dichloroethane	50.0	49.9		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	45.1		ug/L		90	69 - 130
1,1-Dichloroethene	50.0	46.9		ug/L		94	63 - 134
1,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	52.9		ug/L		106	70 - 130
2,2-Dichloropropane	50.0	45.6		ug/L		91	52 - 135
1,1-Dichloropropene	50.0	46.1		ug/L		92	70 - 130
Ethylbenzene	50.0	53.5		ug/L		107	70 - 130
Ethyl methacrylate	50.0	54.5		ug/L		109	68 - 130
Hexachlorobutadiene	50.0	57.1		ug/L		114	53 - 140
2-Hexanone	200	211		ug/L		106	65 - 137
Isopropylbenzene	50.0	54.5		ug/L		109	70 - 130
Methylene bromide	50.0	47.4		ug/L		95	70 - 130
Methylene Chloride	50.0	48.5		ug/L		97	66 - 135
4-Methyl-2-pentanone (MIBK)	200	209		ug/L		105	69 - 138
Methyl tert-butyl ether	50.0	50.4		ug/L		101	66 - 130
m-Xylene & p-Xylene	50.0	52.1		ug/L		104	70 - 130
Naphthalene	50.0	52.0		ug/L		104	47 - 149
n-Butylbenzene	50.0	64.2		ug/L		128	67 - 130
N-Propylbenzene	50.0	57.2		ug/L		114	70 - 130
o-Chlorotoluene	50.0	57.1		ug/L		114	70 - 130
o-Xylene	50.0	53.5		ug/L		107	70 - 130
p-Chlorotoluene	50.0	57.0		ug/L		114	70 - 130
p-Isopropyltoluene	50.0	58.8		ug/L		118	65 - 130
sec-Butylbenzene	50.0	59.5		ug/L		119	66 - 130
Styrene	50.0	52.0		ug/L		104	70 - 130
tert-Butylbenzene	50.0	57.1		ug/L		114	64 - 139
1,1,1,2-Tetrachloroethane	50.0	50.6		ug/L		101	67 - 131
1,1,2,2-Tetrachloroethane	50.0	55.8		ug/L		112	70 - 131
Tetrachloroethene	50.0	47.3		ug/L		95	65 - 130
Toluene	50.0	50.5		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	51.4		ug/L		103	63 - 130
1,2,3-Trichlorobenzene	50.0	55.4		ug/L		111	60 - 138
1,2,4-Trichlorobenzene	50.0	57.5		ug/L		115	60 - 140
1,1,1-Trichloroethane	50.0	45.0		ug/L		90	68 - 130
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	70 - 130
Trichloroethene	50.0	48.2		ug/L		96	70 - 130
Trichlorofluoromethane	50.0	44.1		ug/L		88	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: LCS 400-698812/1002

Matrix: Water

Analysis Batch: 698812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	52.8		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	50.0	57.4		ug/L		115	70 - 130
1,3,5-Trimethylbenzene	50.0	58.0		ug/L		116	69 - 130
Vinyl acetate	100	114		ug/L		114	26 - 150
Vinyl chloride	50.0	42.7		ug/L		85	59 - 136
Xylenes, Total	100	106		ug/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		56 - 136
Dibromofluoromethane	94		79 - 130
Toluene-d8 (Surr)	102		64 - 132

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

Lab Sample ID: MB 400-698412/1-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		10	8.7	ug/L		02/04/25 15:35	02/05/25 16:34	1
Benzenethiol	ND		10	9.9	ug/L		02/04/25 15:35	02/05/25 16:34	1
Benzoic acid	ND		30	24	ug/L		02/04/25 15:35	02/05/25 16:34	1
Benzyl alcohol	ND		10	7.3	ug/L		02/04/25 15:35	02/05/25 16:34	1
Bis(2-chloroethoxy)methane	ND		10	4.6	ug/L		02/04/25 15:35	02/05/25 16:34	1
Bis(2-chloroethyl)ether	ND		10	3.9	ug/L		02/04/25 15:35	02/05/25 16:34	1
bis (2-chloroisopropyl) ether	ND		10	1.8	ug/L		02/04/25 15:35	02/05/25 16:34	1
Bis(2-ethylhexyl) phthalate	ND		10	8.9	ug/L		02/04/25 15:35	02/05/25 16:34	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		02/04/25 15:35	02/05/25 16:34	1
Butyl benzyl phthalate	ND		10	5.8	ug/L		02/04/25 15:35	02/05/25 16:34	1
4-Chloroaniline	ND		10	4.7	ug/L		02/04/25 15:35	02/05/25 16:34	1
4-Chloro-3-methylphenol	ND		10	5.3	ug/L		02/04/25 15:35	02/05/25 16:34	1
2-Chloronaphthalene	ND		10	3.8	ug/L		02/04/25 15:35	02/05/25 16:34	1
2-Chlorophenol	ND		10	4.1	ug/L		02/04/25 15:35	02/05/25 16:34	1
4-Chlorophenyl phenyl ether	ND		10	3.7	ug/L		02/04/25 15:35	02/05/25 16:34	1
Dibenz[a,h]acridine	ND		10	2.8	ug/L		02/04/25 15:35	02/05/25 16:34	1
Dibenzofuran	ND		10	4.0	ug/L		02/04/25 15:35	02/05/25 16:34	1
3,3'-Dichlorobenzidine	ND		11	11	ug/L		02/04/25 15:35	02/05/25 16:34	1
2,4-Dichlorophenol	ND		10	4.3	ug/L		02/04/25 15:35	02/05/25 16:34	1
Diethyl phthalate	ND		10	4.4	ug/L		02/04/25 15:35	02/05/25 16:34	1
2,4-Dimethylphenol	ND		10	5.2	ug/L		02/04/25 15:35	02/05/25 16:34	1
Dimethyl phthalate	ND		10	4.2	ug/L		02/04/25 15:35	02/05/25 16:34	1
Di-n-butyl phthalate	ND		10	4.6	ug/L		02/04/25 15:35	02/05/25 16:34	1
4,6-Dinitro-ortho-cresol	ND		10	10	ug/L		02/04/25 15:35	02/05/25 16:34	1
2,4-Dinitrophenol	ND		30	4.6	ug/L		02/04/25 15:35	02/05/25 16:34	1
2,4-Dinitrotoluene	ND		10	5.1	ug/L		02/04/25 15:35	02/05/25 16:34	1
2,6-Dinitrotoluene	ND		10	3.9	ug/L		02/04/25 15:35	02/05/25 16:34	1
Di-n-octyl phthalate	ND		10	6.0	ug/L		02/04/25 15:35	02/05/25 16:34	1
1,4-Dioxane	ND		10	4.3	ug/L		02/04/25 15:35	02/05/25 16:34	1

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: MB 400-698412/1-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine (as Azobenzene)	ND		10	3.3	ug/L		02/04/25 15:35	02/05/25 16:34	1
Hexachlorobenzene	ND		10	9.7	ug/L		02/04/25 15:35	02/05/25 16:34	1
Hexachlorocyclopentadiene	ND		20	4.5	ug/L		02/04/25 15:35	02/05/25 16:34	1
Hexachloroethane	ND		10	5.2	ug/L		02/04/25 15:35	02/05/25 16:34	1
Indene	ND		10	3.6	ug/L		02/04/25 15:35	02/05/25 16:34	1
Isophorone	ND		10	5.2	ug/L		02/04/25 15:35	02/05/25 16:34	1
2-Methylphenol	ND		10	3.2	ug/L		02/04/25 15:35	02/05/25 16:34	1
3 & 4 Methylphenol	ND		20	4.6	ug/L		02/04/25 15:35	02/05/25 16:34	1
2-Nitroaniline	ND		10	5.0	ug/L		02/04/25 15:35	02/05/25 16:34	1
3-Nitroaniline	ND		10	4.7	ug/L		02/04/25 15:35	02/05/25 16:34	1
4-Nitroaniline	ND		10	4.1	ug/L		02/04/25 15:35	02/05/25 16:34	1
Nitrobenzene	ND		10	4.7	ug/L		02/04/25 15:35	02/05/25 16:34	1
2-Nitrophenol	ND		10	4.6	ug/L		02/04/25 15:35	02/05/25 16:34	1
4-Nitrophenol	ND		10	3.3	ug/L		02/04/25 15:35	02/05/25 16:34	1
N-Nitrosodimethylamine	ND		10	2.2	ug/L		02/04/25 15:35	02/05/25 16:34	1
N-Nitrosodi-n-propylamine	ND		10	2.5	ug/L		02/04/25 15:35	02/05/25 16:34	1
N-Nitrosodiphenylamine	ND		10	3.7	ug/L		02/04/25 15:35	02/05/25 16:34	1
Pentachlorophenol	ND		20	12	ug/L		02/04/25 15:35	02/05/25 16:34	1
Phenol	ND		10	4.2	ug/L		02/04/25 15:35	02/05/25 16:34	1
Pyridine	ND		10	10	ug/L		02/04/25 15:35	02/05/25 16:34	1
Quinoline	ND		10	2.4	ug/L		02/04/25 15:35	02/05/25 16:34	1
2,4,5-Trichlorophenol	ND		10	4.0	ug/L		02/04/25 15:35	02/05/25 16:34	1
2,4,6-Trichlorophenol	ND		10	3.5	ug/L		02/04/25 15:35	02/05/25 16:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		21 - 114	02/04/25 15:35	02/05/25 16:34	1
2-Fluorophenol	39		10 - 105	02/04/25 15:35	02/05/25 16:34	1
Nitrobenzene-d5	73		16 - 127	02/04/25 15:35	02/05/25 16:34	1
Phenol-d5	24		10 - 129	02/04/25 15:35	02/05/25 16:34	1
Terphenyl-d14	102		13 - 150	02/04/25 15:35	02/05/25 16:34	1
2,4,6-Tribromophenol	74		10 - 150	02/04/25 15:35	02/05/25 16:34	1

Lab Sample ID: LCS 400-698412/2-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	120	61.9		ug/L		52	10 - 127
Benzoic acid	493	136		ug/L		28	19 - 126
Benzyl alcohol	120	70.5		ug/L		59	17 - 109
Bis(2-chloroethoxy)methane	120	97.5		ug/L		81	24 - 125
Bis(2-chloroethyl)ether	120	85.5		ug/L		71	10 - 121
bis (2-chloroisopropyl) ether	120	103		ug/L		86	14 - 123
Bis(2-ethylhexyl) phthalate	120	103		ug/L		86	16 - 150
4-Bromophenyl phenyl ether	120	105		ug/L		87	17 - 150
Butyl benzyl phthalate	120	111		ug/L		93	21 - 150
4-Chloroaniline	120	81.1		ug/L		68	10 - 124
4-Chloro-3-methylphenol	120	91.0		ug/L		76	37 - 131

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: LCS 400-698412/2-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	120	98.4		ug/L		82	24 - 132
2-Chlorophenol	120	84.4		ug/L		70	27 - 124
4-Chlorophenyl phenyl ether	120	106		ug/L		89	27 - 147
Dibenz[a,h]acridine	59.9	94.3	*+	ug/L		157	40 - 140
Dibenzofuran	120	110		ug/L		92	30 - 135
3,3'-Dichlorobenzidine	240	NQ	E	ug/L		NaN	10 - 150
2,4-Dichlorophenol	120	90.0		ug/L		75	33 - 132
Diethyl phthalate	120	113		ug/L		94	37 - 145
2,4-Dimethylphenol	120	88.5		ug/L		74	38 - 132
Dimethyl phthalate	120	111		ug/L		92	32 - 137
Di-n-butyl phthalate	120	118		ug/L		98	27 - 150
4,6-Dinitro-ortho-cresol	240	254		ug/L		106	14 - 150
2,4-Dinitrophenol	240	240		ug/L		100	15 - 150
2,4-Dinitrotoluene	120	112		ug/L		94	35 - 136
2,6-Dinitrotoluene	120	113		ug/L		94	29 - 140
Di-n-octyl phthalate	120	98.3		ug/L		82	26 - 150
1,4-Dioxane	120	45.2		ug/L		38	10 - 87
1,2-Diphenylhydrazine (as Azobenzene)	120	113		ug/L		94	23 - 138
Hexachlorobenzene	120	120		ug/L		100	10 - 150
Hexachlorocyclopentadiene	120	82.9		ug/L		69	10 - 124
Hexachloroethane	120	85.1		ug/L		71	10 - 127
Indene	120	89.2		ug/L		74	18 - 150
Isophorone	120	96.3		ug/L		80	28 - 127
2-Methylphenol	120	77.0		ug/L		64	34 - 124
3 & 4 Methylphenol	120	73.0		ug/L		61	32 - 122
2-Nitroaniline	120	109		ug/L		91	24 - 139
3-Nitroaniline	120	94.0		ug/L		78	10 - 128
4-Nitroaniline	120	98.6		ug/L		82	28 - 118
Nitrobenzene	120	88.6		ug/L		74	29 - 120
2-Nitrophenol	120	86.8		ug/L		72	25 - 148
4-Nitrophenol	240	116		ug/L		48	12 - 129
N-Nitrosodimethylamine	120	40.9		ug/L		34	10 - 115
N-Nitrosodi-n-propylamine	120	107		ug/L		89	24 - 142
N-Nitrosodiphenylamine	119	110		ug/L		93	29 - 138
Pentachlorophenol	240	220		ug/L		92	19 - 150
Phenol	120	38.1		ug/L		32	11 - 95
Pyridine	240	33.9		ug/L		14	10 - 82
Quinoline	59.9	81.1		ug/L		136	10 - 141
2,4,5-Trichlorophenol	120	102		ug/L		85	30 - 144
2,4,6-Trichlorophenol	120	96.3		ug/L		80	27 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	80		21 - 114
2-Fluorophenol	41		10 - 105
Nitrobenzene-d5	81		16 - 127
Phenol-d5	30		10 - 129
Terphenyl-d14	98		13 - 150

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QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: LCS 400-698412/2-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698412

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	98		10 - 150

Lab Sample ID: LCS 400-698412/2-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
3,3'-Dichlorobenzidine	240	625	E *+	ug/L		260	10 - 150

Lab Sample ID: LCS 400-698412/6-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzenethiol	120	82.6		ug/L		69	10 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	80		21 - 114
2-Fluorophenol	36		10 - 105
Nitrobenzene-d5	73		16 - 127
Phenol-d5	24		10 - 129
Terphenyl-d14	103		13 - 150
2,4,6-Tribromophenol	80		10 - 150

Lab Sample ID: LCSD 400-698412/3-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aniline	120	ND	*- *1	ug/L		2	10 - 127	183	40
Benzoic acid	493	190		ug/L		38	19 - 126	33	40
Benzyl alcohol	120	72.1		ug/L		60	17 - 109	2	40
Bis(2-chloroethoxy)methane	120	95.1		ug/L		79	24 - 125	2	40
Bis(2-chloroethyl)ether	120	75.2		ug/L		63	10 - 121	13	40
bis (2-chloroisopropyl) ether	120	101		ug/L		84	14 - 123	2	40
Bis(2-ethylhexyl) phthalate	120	104		ug/L		87	16 - 150	1	40
4-Bromophenyl phenyl ether	120	101		ug/L		84	17 - 150	3	40
Butyl benzyl phthalate	120	115		ug/L		96	21 - 150	3	40
4-Chloroaniline	120	28.5	*1	ug/L		24	10 - 124	96	40
4-Chloro-3-methylphenol	120	95.0		ug/L		79	37 - 131	4	40
2-Chloronaphthalene	120	98.8		ug/L		82	24 - 132	0	40
2-Chlorophenol	120	95.2		ug/L		79	27 - 124	12	40
4-Chlorophenyl phenyl ether	120	103		ug/L		86	27 - 147	3	40
Dibenz[a,h]acridine	59.9	91.9	*+	ug/L		153	40 - 140	3	40
Dibenzofuran	120	107		ug/L		89	30 - 135	3	40
2,4-Dichlorophenol	120	92.6		ug/L		77	33 - 132	3	40
Diethyl phthalate	120	112		ug/L		93	37 - 145	2	40
2,4-Dimethylphenol	120	95.0		ug/L		79	38 - 132	7	40

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: LCSD 400-698412/3-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethyl phthalate	120	108		ug/L		90	32 - 137	3	40
Di-n-butyl phthalate	120	117		ug/L		98	27 - 150	0	40
4,6-Dinitro-ortho-cresol	240	255		ug/L		106	14 - 150	0	40
2,4-Dinitrophenol	240	237		ug/L		99	15 - 150	1	40
2,4-Dinitrotoluene	120	109		ug/L		91	35 - 136	3	40
2,6-Dinitrotoluene	120	108		ug/L		90	29 - 140	5	40
Di-n-octyl phthalate	120	97.5		ug/L		81	26 - 150	1	40
1,4-Dioxane	120	41.1		ug/L		34	10 - 87	9	40
1,2-Diphenylhydrazine (as Azobenzene)	120	112		ug/L		93	23 - 138	1	40
Hexachlorobenzene	120	117		ug/L		98	10 - 150	3	40
Hexachlorocyclopentadiene	120	81.9		ug/L		68	10 - 124	1	40
Hexachloroethane	120	83.4		ug/L		70	10 - 127	2	40
Indene	120	87.3		ug/L		73	18 - 150	2	40
Isophorone	120	94.5		ug/L		79	28 - 127	2	40
2-Methylphenol	120	95.6		ug/L		80	34 - 124	22	40
3 & 4 Methylphenol	120	95.0		ug/L		79	32 - 122	26	40
2-Nitroaniline	120	104		ug/L		87	24 - 139	5	40
3-Nitroaniline	120	52.9	*1	ug/L		44	10 - 128	56	40
4-Nitroaniline	120	82.8		ug/L		69	28 - 118	17	40
Nitrobenzene	120	87.7		ug/L		73	29 - 120	1	40
2-Nitrophenol	120	87.6		ug/L		73	25 - 148	1	40
4-Nitrophenol	240	144		ug/L		60	12 - 129	21	40
N-Nitrosodimethylamine	120	42.2		ug/L		35	10 - 115	3	40
N-Nitrosodi-n-propylamine	120	104		ug/L		87	24 - 142	3	40
N-Nitrosodiphenylamine	119	106		ug/L		89	29 - 138	4	40
Pentachlorophenol	240	221		ug/L		92	19 - 150	0	40
Phenol	120	64.7	*1	ug/L		54	11 - 95	52	40
Pyridine	240	ND	*- *1	ug/L		0.08	10 - 82	198	40
Quinoline	59.9	ND	*- *1	ug/L		3	10 - 141	192	40
2,4,5-Trichlorophenol	120	97.5		ug/L		81	30 - 144	4	40
2,4,6-Trichlorophenol	120	95.5		ug/L		80	27 - 147	1	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	77		21 - 114
2-Fluorophenol	62		10 - 105
Nitrobenzene-d5	80		16 - 127
Phenol-d5	50		10 - 129
Terphenyl-d14	100		13 - 150
2,4,6-Tribromophenol	94		10 - 150

Lab Sample ID: LCSD 400-698412/3-A

Matrix: Water

Analysis Batch: 698584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	240	505	*+ E	ug/L		210	10 - 150	21	40

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: LCSD 400-698412/7-A

Matrix: Water

Analysis Batch: 698513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzenethiol	120	96.0		ug/L		80	10 - 140	15	40
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2-Fluorobiphenyl	89		21 - 114						
2-Fluorophenol	42		10 - 105						
Nitrobenzene-d5	77		16 - 127						
Phenol-d5	28		10 - 129						
Terphenyl-d14	104		13 - 150						
2,4,6-Tribromophenol	79		10 - 150						

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

Lab Sample ID: MB 400-698123/1-A

Matrix: Water

Analysis Batch: 698290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.085	ug/L		01/31/25 12:39	02/03/25 14:29	1
Acenaphthylene	ND		10	0.047	ug/L		01/31/25 12:39	02/03/25 14:29	1
Anthracene	ND		10	0.073	ug/L		01/31/25 12:39	02/03/25 14:29	1
Benzo[a]anthracene	ND		10	0.040	ug/L		01/31/25 12:39	02/03/25 14:29	1
Benzo[a]pyrene	ND		10	0.045	ug/L		01/31/25 12:39	02/03/25 14:29	1
Benzo[b]fluoranthene	ND		10	0.042	ug/L		01/31/25 12:39	02/03/25 14:29	1
Benzo[g,h,i]perylene	ND		10	0.052	ug/L		01/31/25 12:39	02/03/25 14:29	1
Benzo[k]fluoranthene	ND		10	0.040	ug/L		01/31/25 12:39	02/03/25 14:29	1
Chrysene	ND		10	0.039	ug/L		01/31/25 12:39	02/03/25 14:29	1
Dibenz(a,h)anthracene	ND		10	0.044	ug/L		01/31/25 12:39	02/03/25 14:29	1
Fluoranthene	ND		10	0.032	ug/L		01/31/25 12:39	02/03/25 14:29	1
Fluorene	ND		10	0.087	ug/L		01/31/25 12:39	02/03/25 14:29	1
Indeno[1,2,3-cd]pyrene	ND		10	0.032	ug/L		01/31/25 12:39	02/03/25 14:29	1
1-Methylnaphthalene	ND		10	0.066	ug/L		01/31/25 12:39	02/03/25 14:29	1
2-Methylnaphthalene	ND		10	0.077	ug/L		01/31/25 12:39	02/03/25 14:29	1
Phenanthrene	ND		10	0.044	ug/L		01/31/25 12:39	02/03/25 14:29	1
Pyrene	ND		10	0.040	ug/L		01/31/25 12:39	02/03/25 14:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	109		15 - 150				01/31/25 12:39	02/03/25 14:29	1
Nitrobenzene-d5	94		50 - 150				01/31/25 12:39	02/03/25 14:29	1
Terphenyl-d14	118		43 - 147				01/31/25 12:39	02/03/25 14:29	1

Lab Sample ID: LCS 400-698123/2-A

Matrix: Water

Analysis Batch: 698290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.34	2.85	J	ug/L		85	50 - 150
Acenaphthylene	3.34	2.75	J	ug/L		83	50 - 150
Anthracene	3.34	3.02	J	ug/L		91	50 - 150

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

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

Lab Sample ID: LCS 400-698123/2-A

Matrix: Water

Analysis Batch: 698290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]anthracene	3.34	2.84	J	ug/L		85	50 - 150
Benzo[a]pyrene	3.34	2.93	J	ug/L		88	50 - 150
Benzo[b]fluoranthene	3.34	2.90	J	ug/L		87	50 - 150
Benzo[g,h,i]perylene	3.34	2.95	J	ug/L		88	50 - 150
Benzo[k]fluoranthene	3.34	2.99	J	ug/L		90	50 - 150
Chrysene	3.34	3.07	J	ug/L		92	50 - 150
Dibenz(a,h)anthracene	3.34	2.84	J	ug/L		85	50 - 150
Fluoranthene	3.34	2.94	J	ug/L		88	50 - 150
Fluorene	3.34	2.89	J	ug/L		87	50 - 150
Indeno[1,2,3-cd]pyrene	3.34	3.21	J	ug/L		96	50 - 150
1-Methylnaphthalene	3.34	2.62	J	ug/L		78	50 - 150
2-Methylnaphthalene	3.34	2.26	J	ug/L		68	50 - 150
Phenanthrene	3.34	2.80	J	ug/L		84	50 - 150
Pyrene	3.34	2.94	J	ug/L		88	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	104		15 - 150
Nitrobenzene-d5	94		50 - 150
Terphenyl-d14	106		43 - 147

Lab Sample ID: LCSD 400-698123/3-A

Matrix: Water

Analysis Batch: 698290

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698123

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	3.34	3.69	J	ug/L		111	50 - 150	26	40
Acenaphthylene	3.34	3.48	J	ug/L		104	50 - 150	23	40
Anthracene	3.34	3.84	J	ug/L		115	50 - 150	24	40
Benzo[a]anthracene	3.34	3.58	J	ug/L		107	50 - 150	23	40
Benzo[a]pyrene	3.34	3.71	J	ug/L		111	50 - 150	23	40
Benzo[b]fluoranthene	3.34	3.57	J	ug/L		107	50 - 150	21	40
Benzo[g,h,i]perylene	3.34	3.69	J	ug/L		111	50 - 150	22	40
Benzo[k]fluoranthene	3.34	3.84	J	ug/L		115	50 - 150	25	40
Chrysene	3.34	4.11	J	ug/L		123	50 - 150	29	40
Dibenz(a,h)anthracene	3.34	3.58	J	ug/L		107	50 - 150	23	40
Fluoranthene	3.34	3.81	J	ug/L		114	50 - 150	26	40
Fluorene	3.34	3.60	J	ug/L		108	50 - 150	22	40
Indeno[1,2,3-cd]pyrene	3.34	4.08	J	ug/L		122	50 - 150	24	40
1-Methylnaphthalene	3.34	3.26	J	ug/L		98	50 - 150	22	40
2-Methylnaphthalene	3.34	3.06	J	ug/L		92	50 - 150	30	40
Phenanthrene	3.34	3.60	J	ug/L		108	50 - 150	25	40
Pyrene	3.34	3.87	J	ug/L		116	50 - 150	27	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	110		15 - 150
Nitrobenzene-d5	92		50 - 150
Terphenyl-d14	115		43 - 147

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: ROXANA QUARTERLY GW 1Q25

Job ID: 400-270043-1

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 400-698092/1-A

Matrix: Water

Analysis Batch: 698131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.030	0.017	ug/L		01/31/25 09:27	01/31/25 14:32	1
1,2-Dibromoethane	ND		0.020	0.015	ug/L		01/31/25 09:27	01/31/25 14:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		51 - 149				01/31/25 09:27	01/31/25 14:32	1

Lab Sample ID: LCS 400-698092/2-A

Matrix: Water

Analysis Batch: 698131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.101	0.0727		ug/L		72	60 - 140
1,2-Dibromoethane	0.100	0.0923		ug/L		92	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	76		51 - 149				

Lab Sample ID: LCSD 400-698092/3-A

Matrix: Water

Analysis Batch: 698131

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698092

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.101	0.0904		ug/L		90	60 - 140	22	30
1,2-Dibromoethane	0.100	0.0942		ug/L		94	60 - 140	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	87		51 - 149						

LAB (LOCATION)

☐ ACUTEST ()
☐ CALSCIENCE ()
☒ TESTAMERICA (TestAmerica Pensacola; 3355 McLemore Dr.
Pensacola, FL 32514 (850-474-1001))
☐ Other ()

Lab Vendor # 1364589 (TestAmerica)



Shell Oil Products US Chain Of Custody Record

AECOM

Please Check Appropriate Box:				Print Bill To Contact Name:		PlanNet Site or Project ID		☐ CHECK IF NO INCIDENT # APPLIES	
☐ GOW FDG ☐ CHEMICALS ☐ TRANSPORTATION				☐ RETAIL ☐ LUBES ☐ CONSULTANT ☒ OTHER - ENV. SERVICES		PO # 60738191 - 3.1.2		DATE: 1/28/2025 PAGE: 1 of 1	
SAMPLING COMPANY: AECOM				LOG CODE:		SITE ADDRESS: Street and City 900 South Central Ave; ROXANA		STATE IL	
ADDRESS: 100 N. Broadway, 20th Floor, ST. LOUIS, MO 63102, USA				PHONE NO: 314-429-0100		E-MAIL: melissa.remiger@aecom.com		AECOM Project / Task Number: 60738191 - 3.1.2 Roxana Quarterly GW	
PROJECT CONTACT (Hardcopy or PDF Report to): Melissa Remiger, Mary Massa, Brett Howell				BILL TO CONTACT E-MAIL: melissa.remiger@aecom.com		PHONE NO: 314-802-1207		AECOM Other ID: Roxana 1Q25 Groundwater	
TELEPHONE: 314-429-0100				FAX: 314-429-0462		SAMPLER NAME(S) (Print): B. Howell, M. Massa		LAB USE ONLY	
TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (14 DAY) ☐ DAYS ☐ DAYS				RESULTS NEEDED ON: ☐ WEEKEND ☐ 4 HOURS ☐ DAYS		REQUESTED ANALYSIS: 60738191 - 3.1.2		FIELD NOTES: 3.7c 22/10	
☐ LA - RWQCB REPORT FORMAT				DELIVERABLES: ☐ LEVEL 1 ☒ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☒ OTHER (SPECIFY) EDD		TEMPERATURE ON RECEIPT C°		TEMPERATURE ON RECEIPT C°	
SPECIAL INSTRUCTIONS OR NOTES: Email reports to: melissa.remiger@aecom.com; mary.mass@aecom.com; brett.howell@aecom.com * Include "J" values on Reports. * Provide sample receipt upon login. * Send EQuIS EDDs to EDDSubmissions@aecomshell.com; Vlad.Virjan@aecom.com				☒ SHELL CONTRACT RATE APPLIES ☐ STATE REIMBURSEMENT RATE APPLIES ☐ EDD NOT NEEDED ☒ RECEIPT VERIFICATION REQUESTED ☐ PROVIDE LEDD DISK		CONTAINER PID Readings or Laboratory Notes:			
Field Sample Identification				SAMPLING		PRESERVATIVE		NO. OF CONT.	
DATE				TIME		MATRIX		HCL HNO3 H2SO4 NONE OTHER	
1/28/2025				0000		Water		2	
1/28/2025				0000		Water		2	
1/28/2025				0840		Water		12	
TB-ROX-012825-8260									
TB-ROX-012825-8011									
MW26-ROX-012825									
8011 EDB + DBCP									
SVOC 8270									
PAH 8270 SIMS									
VOC 8269									
400-270043 COC									
RECEIVED BY: (Signature)				DATE: 1/28/2025		TIME: 1600			
FEDEX: 7252 0540 4522				DATE: 1/29/25		TIME: 0941			
RECEIVED BY: (Signature)				DATE: 1/29/25		TIME: 1100			
RECEIVED BY: (Signature)				DATE: 1/29/25		TIME: 1100			

CUSTODY SEALS: 1130340, 1130341

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-270043-1

Login Number: 270043

List Number: 1

Creator: Perez, Trina M

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	3.7°C IR10
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-270043-1

Project/Site: ROXANA QUARTERLY GW 1Q25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-270966-1

Site Name: Roxana

Prepared By and Date: Andrei Niculau 3/5/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/17//2025

Stage 2A Validation													
Item Reviewed	Acceptable Criteria	Quality Condition			Comments								
		Pass	Fail ¹	N/A									
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.								
Holding Times	Analyses were performed within holding time.	X											
Surrogate	Surrogate recoveries met acceptance criteria.	X											
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.			X									
Matrix Spike	MS recoveries met acceptance criteria.			X									
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.	X											
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.		X										
Method 8260D (VOCs)													
<table><tr><th>Blank ID</th><th>Parameter</th><th>Analyte</th><th>Concentration/Amount</th></tr><tr><td>MW12-ROX-021325-EB</td><td>VOCs</td><td>2-Butanone (MEK)</td><td>3.5 µg/L</td></tr></table>						Blank ID	Parameter	Analyte	Concentration/Amount	MW12-ROX-021325-EB	VOCs	2-Butanone (MEK)	3.5 µg/L
Blank ID	Parameter	Analyte	Concentration/Amount										
MW12-ROX-021325-EB	VOCs	2-Butanone (MEK)	3.5 µg/L										
Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.													
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X											

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Detection Limits ²	No results were reported as non-detect at elevated detection limits.	X			Samples analyzed did not require dilution.
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X			
Usability	No results qualified as unusable.	X			
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics		X		Analytical data reported as non-detect and associated with ICV/CCV %D recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
	The associated percent difference (%D) was within method criteria.				
Method 8260D (VOCs) The continuous calibration verification (CCV) for chloroethane was outside evaluation criteria, biased low. The associated result for sample MW12-ROX-021325 was qualified as estimated (UJ).					
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSs.			X	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.

ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/24/2025 8:05:26 AM

JOB DESCRIPTION

AECOM ROXANA QUARTERLY GW

JOB NUMBER

400-270966-1

Reviewed 3/4/2025
AN

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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 Southeast, LLC Project Manager.

Authorization



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Case Narrative

Client: AECOM
Project: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

Job ID: 400-270966-1

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Job Narrative 400-270966-1

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 2/14/2025 9:57 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 1.2°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-699825 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: MW12-ROX-021325 (400-270966-3). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrades in an acidic medium.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-700012 recovered outside acceptance criteria, low biased, for Chloroethane, Chloromethane and Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-700012 recovered above the upper control limit for Hexachlorobutadiene, Tetrachloroethene and Trichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-021325-8260 (400-270966-1) and MW12-ROX-021325-EB (400-270966-2). The requested target analyte list include 2-chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium.

Method 8260D: Sample MW12-ROX-021325-EB (400-270966-2) contains 2-Butanone (MEK) above the method detection limit. Reanalysis was performed with concurring results.

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

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Sample Summary

Client: AECOM

Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-270966-1	TB-ROX-021325-8260	Water	02/13/25 00:00	02/14/25 09:57
400-270966-2	MW12-ROX-021325-EB	Water	02/13/25 12:45	02/14/25 09:57
400-270966-3	MW12-ROX-021325	Water	02/13/25 14:10	02/14/25 09:57

Detection Summary

Client: AECOM

Job ID: 400-270966-1

Project/Site: AECOM ROXANA QUARTERLY GW

Client Sample ID: TB-ROX-021325-8260

Lab Sample ID: 400-270966-1

No Detections.

Client Sample ID: MW12-ROX-021325-EB

Lab Sample ID: 400-270966-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	3.5	J	25	2.6	ug/L	1			8260D	Total/NA

Client Sample ID: MW12-ROX-021325

Lab Sample ID: 400-270966-3

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

Client Sample ID: TB-ROX-021325-8260

Lab Sample ID: 400-270966-1

Date Collected: 02/13/25 00:00

Matrix: Water

Date Received: 02/14/25 09:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/20/25 19:13	1
Acrolein	ND		20	3.3	ug/L			02/20/25 19:13	1
Acrylonitrile	ND		10	2.8	ug/L			02/20/25 19:13	1
Benzene	ND		1.0	0.50	ug/L			02/20/25 19:13	1
Bromobenzene	ND		1.0	0.54	ug/L			02/20/25 19:13	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/20/25 19:13	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/20/25 19:13	1
Bromoform	ND		5.0	0.25	ug/L			02/20/25 19:13	1
Bromomethane	ND		1.0	0.98	ug/L			02/20/25 19:13	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/20/25 19:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/25 19:13	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/20/25 19:13	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/20/25 19:13	1
Chloroethane	ND		1.0	0.76	ug/L			02/20/25 19:13	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/20/25 19:13	1
Chloroform	ND		1.0	0.90	ug/L			02/20/25 19:13	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/20/25 19:13	1
Chloromethane	ND		1.0	0.40	ug/L			02/20/25 19:13	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/20/25 19:13	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/20/25 19:13	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/20/25 19:13	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/20/25 19:13	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/20/25 19:13	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/20/25 19:13	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/20/25 19:13	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/20/25 19:13	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/20/25 19:13	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/20/25 19:13	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 19:13	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 19:13	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 19:13	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/20/25 19:13	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/20/25 19:13	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/20/25 19:13	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/20/25 19:13	1
2-Hexanone	ND		25	4.3	ug/L			02/20/25 19:13	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/20/25 19:13	1
Methylene bromide	ND		5.0	0.22	ug/L			02/20/25 19:13	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/20/25 19:13	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/20/25 19:13	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/20/25 19:13	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/20/25 19:13	1
Naphthalene	ND		5.0	3.0	ug/L			02/20/25 19:13	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/20/25 19:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/20/25 19:13	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/20/25 19:13	1
o-Xylene	ND		5.0	3.0	ug/L			02/20/25 19:13	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/20/25 19:13	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/20/25 19:13	1

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Client Sample Results

Client: AECOM

Job ID: 400-270966-1

Project/Site: AECOM ROXANA QUARTERLY GW

Client Sample ID: TB-ROX-021325-8260

Lab Sample ID: 400-270966-1

Date Collected: 02/13/25 00:00

Matrix: Water

Date Received: 02/14/25 09:57

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/20/25 19:13	1
Styrene	ND		1.0	1.0	ug/L			02/20/25 19:13	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/20/25 19:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/20/25 19:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/20/25 19:13	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/20/25 19:13	1
Toluene	ND		1.0	0.90	ug/L			02/20/25 19:13	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/20/25 19:13	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/20/25 19:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/20/25 19:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/20/25 19:13	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/20/25 19:13	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/20/25 19:13	1
Trichloroethene	ND		1.0	0.15	ug/L			02/20/25 19:13	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/20/25 19:13	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/20/25 19:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/20/25 19:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/20/25 19:13	1
Vinyl acetate	ND		25	0.93	ug/L			02/20/25 19:13	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/20/25 19:13	1
Xylenes, Total	ND		10	6.0	ug/L			02/20/25 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83		56 - 136		02/20/25 19:13	1
Dibromofluoromethane	110		79 - 130		02/20/25 19:13	1
Toluene-d8 (Surr)	93		64 - 132		02/20/25 19:13	1

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

Client Sample ID: MW12-ROX-021325-EB

Lab Sample ID: 400-270966-2

Date Collected: 02/13/25 12:45

Matrix: Water

Date Received: 02/14/25 09:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/20/25 19:34	1
Acrolein	ND		20	3.3	ug/L			02/20/25 19:34	1
Acrylonitrile	ND		10	2.8	ug/L			02/20/25 19:34	1
Benzene	ND		1.0	0.50	ug/L			02/20/25 19:34	1
Bromobenzene	ND		1.0	0.54	ug/L			02/20/25 19:34	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/20/25 19:34	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/20/25 19:34	1
Bromoform	ND		5.0	0.25	ug/L			02/20/25 19:34	1
Bromomethane	ND		1.0	0.98	ug/L			02/20/25 19:34	1
2-Butanone (MEK)	3.5	J	25	2.6	ug/L			02/20/25 19:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/25 19:34	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/20/25 19:34	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/20/25 19:34	1
Chloroethane	ND		1.0	0.76	ug/L			02/20/25 19:34	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/20/25 19:34	1
Chloroform	ND		1.0	0.90	ug/L			02/20/25 19:34	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/20/25 19:34	1
Chloromethane	ND		1.0	0.40	ug/L			02/20/25 19:34	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/20/25 19:34	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/20/25 19:34	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/20/25 19:34	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/20/25 19:34	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/20/25 19:34	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/20/25 19:34	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/20/25 19:34	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/20/25 19:34	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/20/25 19:34	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/20/25 19:34	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 19:34	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 19:34	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 19:34	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/20/25 19:34	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/20/25 19:34	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/20/25 19:34	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/20/25 19:34	1
2-Hexanone	ND		25	4.3	ug/L			02/20/25 19:34	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/20/25 19:34	1
Methylene bromide	ND		5.0	0.22	ug/L			02/20/25 19:34	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/20/25 19:34	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/20/25 19:34	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/20/25 19:34	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/20/25 19:34	1
Naphthalene	ND		5.0	3.0	ug/L			02/20/25 19:34	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/20/25 19:34	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/20/25 19:34	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/20/25 19:34	1
o-Xylene	ND		5.0	3.0	ug/L			02/20/25 19:34	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/20/25 19:34	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/20/25 19:34	1

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Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

Client Sample ID: MW12-ROX-021325-EB

Lab Sample ID: 400-270966-2

Date Collected: 02/13/25 12:45

Matrix: Water

Date Received: 02/14/25 09:57

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/20/25 19:34	1
Styrene	ND		1.0	1.0	ug/L			02/20/25 19:34	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/20/25 19:34	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/20/25 19:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/20/25 19:34	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/20/25 19:34	1
Toluene	ND		1.0	0.90	ug/L			02/20/25 19:34	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/20/25 19:34	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/20/25 19:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/20/25 19:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/20/25 19:34	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/20/25 19:34	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/20/25 19:34	1
Trichloroethene	ND		1.0	0.15	ug/L			02/20/25 19:34	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/20/25 19:34	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/20/25 19:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/20/25 19:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/20/25 19:34	1
Vinyl acetate	ND		25	0.93	ug/L			02/20/25 19:34	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/20/25 19:34	1
Xylenes, Total	ND		10	6.0	ug/L			02/20/25 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		56 - 136					02/20/25 19:34	1
Dibromofluoromethane	110		79 - 130					02/20/25 19:34	1
Toluene-d8 (Surr)	94		64 - 132					02/20/25 19:34	1

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

Client Sample ID: MW12-ROX-021325

Lab Sample ID: 400-270966-3

Date Collected: 02/13/25 14:10

Matrix: Water

Date Received: 02/14/25 09:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/19/25 19:35	1
Acrolein	ND		20	3.3	ug/L			02/19/25 19:35	1
Acrylonitrile	ND		10	2.8	ug/L			02/19/25 19:35	1
Benzene	ND		1.0	0.50	ug/L			02/19/25 19:35	1
Bromobenzene	ND		1.0	0.54	ug/L			02/19/25 19:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/19/25 19:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/19/25 19:35	1
Bromoform	ND		5.0	0.25	ug/L			02/19/25 19:35	1
Bromomethane	ND		1.0	0.98	ug/L			02/19/25 19:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/19/25 19:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/25 19:35	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/19/25 19:35	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/19/25 19:35	1
Chloroethane	ND		1.0	0.76	ug/L			02/19/25 19:35	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/19/25 19:35	1
Chloroform	ND		1.0	0.90	ug/L			02/19/25 19:35	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/19/25 19:35	1
Chloromethane	ND	UJ	1.0	0.40	ug/L			02/19/25 19:35	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/19/25 19:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/19/25 19:35	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/19/25 19:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/19/25 19:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/19/25 19:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/19/25 19:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/19/25 19:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/19/25 19:35	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/19/25 19:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 19:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 19:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 19:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 19:35	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/19/25 19:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/19/25 19:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/19/25 19:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/19/25 19:35	1
2-Hexanone	ND		25	4.3	ug/L			02/19/25 19:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/19/25 19:35	1
Methylene bromide	ND		5.0	0.22	ug/L			02/19/25 19:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/19/25 19:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/19/25 19:35	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/19/25 19:35	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/19/25 19:35	1
Naphthalene	ND		5.0	3.0	ug/L			02/19/25 19:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/19/25 19:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/19/25 19:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/19/25 19:35	1
o-Xylene	ND		5.0	3.0	ug/L			02/19/25 19:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/19/25 19:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/19/25 19:35	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

Client Sample ID: MW12-ROX-021325

Lab Sample ID: 400-270966-3

Date Collected: 02/13/25 14:10

Matrix: Water

Date Received: 02/14/25 09:57

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/19/25 19:35	1
Styrene	ND		1.0	1.0	ug/L			02/19/25 19:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/19/25 19:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/19/25 19:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/19/25 19:35	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/19/25 19:35	1
Toluene	ND		1.0	0.90	ug/L			02/19/25 19:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 19:35	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/19/25 19:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/19/25 19:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/19/25 19:35	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/19/25 19:35	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/19/25 19:35	1
Trichloroethene	ND		1.0	0.15	ug/L			02/19/25 19:35	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/19/25 19:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/19/25 19:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/19/25 19:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/19/25 19:35	1
Vinyl acetate	ND		25	0.93	ug/L			02/19/25 19:35	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/19/25 19:35	1
Xylenes, Total	ND		10	6.0	ug/L			02/19/25 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		56 - 136		02/19/25 19:35	1
Dibromofluoromethane	109		79 - 130		02/19/25 19:35	1
Toluene-d8 (Surr)	94		64 - 132		02/19/25 19:35	1

Definitions/Glossary

Client: AECOM

Job ID: 400-270966-1

Project/Site: AECOM ROXANA QUARTERLY GW

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.

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

Surrogate Summary

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	TOL
		(56-136)	(79-130)	(64-132)
400-270966-1	TB-ROX-021325-8260	83	110	93
400-270966-2	MW12-ROX-021325-EB	82	110	94
400-270966-3	MW12-ROX-021325	84	109	94
LCS 400-699825/1002	Lab Control Sample	93	100	95
LCS 400-700012/1002	Lab Control Sample	91	97	95
MB 400-699825/5	Method Blank	85	105	95
MB 400-700012/5	Method Blank	84	104	96

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method Summary

Client: AECOM

Job ID: 400-270966-1

Project/Site: AECOM ROXANA QUARTERLY GW

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN

Protocol References:

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

Client Sample ID: TB-ROX-021325-8260

Lab Sample ID: 400-270966-1

Date Collected: 02/13/25 00:00

Matrix: Water

Date Received: 02/14/25 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	700012	02/20/25 19:13	RSG	EET PEN

Client Sample ID: MW12-ROX-021325-EB

Lab Sample ID: 400-270966-2

Date Collected: 02/13/25 12:45

Matrix: Water

Date Received: 02/14/25 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	700012	02/20/25 19:34	RSG	EET PEN

Client Sample ID: MW12-ROX-021325

Lab Sample ID: 400-270966-3

Date Collected: 02/13/25 14:10

Matrix: Water

Date Received: 02/14/25 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699825	02/19/25 19:35	RSG	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-699825/5

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699825	02/19/25 12:43	RSG	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-700012/5

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	700012	02/20/25 11:31	RSG	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-699825/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699825	02/19/25 11:39	RSG	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-700012/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	700012	02/20/25 10:33	RSG	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola

QC Association Summary

Client: AECOM

Job ID: 400-270966-1

Project/Site: AECOM ROXANA QUARTERLY GW

GC/MS VOA

Analysis Batch: 699825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270966-3	MW12-ROX-021325	Total/NA	Water	8260D	
MB 400-699825/5	Method Blank	Total/NA	Water	8260D	
LCS 400-699825/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 700012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270966-1	TB-ROX-021325-8260	Total/NA	Water	8260D	
400-270966-2	MW12-ROX-021325-EB	Total/NA	Water	8260D	
MB 400-700012/5	Method Blank	Total/NA	Water	8260D	
LCS 400-700012/1002	Lab Control Sample	Total/NA	Water	8260D	

QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

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

Lab Sample ID: MB 400-699825/5

Matrix: Water

Analysis Batch: 699825

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/19/25 12:43	1
Acrolein	ND		20	3.3	ug/L			02/19/25 12:43	1
Acrylonitrile	ND		10	2.8	ug/L			02/19/25 12:43	1
Benzene	ND		1.0	0.50	ug/L			02/19/25 12:43	1
Bromobenzene	ND		1.0	0.54	ug/L			02/19/25 12:43	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/19/25 12:43	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/19/25 12:43	1
Bromoform	ND		5.0	0.25	ug/L			02/19/25 12:43	1
Bromomethane	ND		1.0	0.98	ug/L			02/19/25 12:43	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/19/25 12:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/25 12:43	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/19/25 12:43	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/19/25 12:43	1
Chloroethane	ND		1.0	0.76	ug/L			02/19/25 12:43	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/19/25 12:43	1
Chloroform	ND		1.0	0.90	ug/L			02/19/25 12:43	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/19/25 12:43	1
Chloromethane	ND		1.0	0.40	ug/L			02/19/25 12:43	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/19/25 12:43	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/19/25 12:43	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/19/25 12:43	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/19/25 12:43	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/19/25 12:43	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/19/25 12:43	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/19/25 12:43	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/19/25 12:43	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/19/25 12:43	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 12:43	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 12:43	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 12:43	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 12:43	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/19/25 12:43	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/19/25 12:43	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/19/25 12:43	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/19/25 12:43	1
2-Hexanone	ND		25	4.3	ug/L			02/19/25 12:43	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/19/25 12:43	1
Methylene bromide	ND		5.0	0.22	ug/L			02/19/25 12:43	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/19/25 12:43	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/19/25 12:43	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/19/25 12:43	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/19/25 12:43	1
Naphthalene	ND		5.0	3.0	ug/L			02/19/25 12:43	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/19/25 12:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/19/25 12:43	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/19/25 12:43	1
o-Xylene	ND		5.0	3.0	ug/L			02/19/25 12:43	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/19/25 12:43	1

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

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

Lab Sample ID: MB 400-699825/5

Matrix: Water

Analysis Batch: 699825

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/19/25 12:43	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/19/25 12:43	1
Styrene	ND		1.0	1.0	ug/L			02/19/25 12:43	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/19/25 12:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/19/25 12:43	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/19/25 12:43	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/19/25 12:43	1
Toluene	ND		1.0	0.90	ug/L			02/19/25 12:43	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 12:43	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/19/25 12:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/19/25 12:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/19/25 12:43	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/19/25 12:43	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/19/25 12:43	1
Trichloroethene	ND		1.0	0.15	ug/L			02/19/25 12:43	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/19/25 12:43	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/19/25 12:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/19/25 12:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/19/25 12:43	1
Vinyl acetate	ND		25	0.93	ug/L			02/19/25 12:43	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/19/25 12:43	1
Xylenes, Total	ND		10	6.0	ug/L			02/19/25 12:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		56 - 136		02/19/25 12:43	1
Dibromofluoromethane	105		79 - 130		02/19/25 12:43	1
Toluene-d8 (Surr)	95		64 - 132		02/19/25 12:43	1

Lab Sample ID: LCS 400-699825/1002

Matrix: Water

Analysis Batch: 699825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	183		ug/L		92	43 - 150
Acrolein	500	455		ug/L		91	38 - 150
Acrylonitrile	500	452		ug/L		90	64 - 142
Benzene	50.0	50.4		ug/L		101	70 - 130
Bromobenzene	50.0	54.1		ug/L		108	70 - 132
Bromochloromethane	50.0	55.5		ug/L		111	70 - 130
Bromodichloromethane	50.0	49.8		ug/L		100	67 - 133
Bromoform	50.0	53.2		ug/L		106	57 - 140
Bromomethane	50.0	38.2		ug/L		76	10 - 150
2-Butanone (MEK)	200	219		ug/L		109	61 - 145
Carbon disulfide	50.0	43.7		ug/L		87	61 - 137
Carbon tetrachloride	50.0	49.4		ug/L		99	61 - 137
Chlorobenzene	50.0	51.2		ug/L		102	70 - 130
Chloroethane	50.0	44.9		ug/L		90	55 - 141
2-Chloroethyl vinyl ether	50.0	58.3		ug/L		117	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

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

Lab Sample ID: LCS 400-699825/1002

Matrix: Water

Analysis Batch: 699825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	48.5		ug/L		97	69 - 130
1-Chlorohexane	50.0	42.4		ug/L		85	69 - 130
Chloromethane	50.0	36.6		ug/L		73	58 - 137
cis-1,2-Dichloroethene	50.0	46.4		ug/L		93	68 - 130
cis-1,3-Dichloropropene	50.0	55.1		ug/L		110	69 - 132
Dibromochloromethane	50.0	52.7		ug/L		105	67 - 135
1,2-Dichlorobenzene	50.0	52.0		ug/L		104	67 - 130
1,3-Dichlorobenzene	50.0	54.1		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	38.9		ug/L		78	41 - 146
1,1-Dichloroethane	50.0	46.4		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	45.5		ug/L		91	69 - 130
1,1-Dichloroethene	50.0	52.9		ug/L		106	63 - 134
1,2-Dichloropropane	50.0	52.7		ug/L		105	70 - 130
1,3-Dichloropropane	50.0	52.4		ug/L		105	70 - 130
2,2-Dichloropropane	50.0	43.7		ug/L		87	52 - 135
1,1-Dichloropropene	50.0	51.4		ug/L		103	70 - 130
Ethylbenzene	50.0	50.8		ug/L		102	70 - 130
Ethyl methacrylate	50.0	49.7		ug/L		99	68 - 130
Hexachlorobutadiene	50.0	53.7		ug/L		107	53 - 140
2-Hexanone	200	200		ug/L		100	65 - 137
Isopropylbenzene	50.0	46.3		ug/L		93	70 - 130
Methylene bromide	50.0	53.3		ug/L		107	70 - 130
Methylene Chloride	50.0	51.2		ug/L		102	66 - 135
4-Methyl-2-pentanone (MIBK)	200	198		ug/L		99	69 - 138
Methyl tert-butyl ether	50.0	54.3		ug/L		109	66 - 130
m-Xylene & p-Xylene	50.0	44.9		ug/L		90	70 - 130
Naphthalene	50.0	51.6		ug/L		103	47 - 149
n-Butylbenzene	50.0	48.6		ug/L		97	67 - 130
N-Propylbenzene	50.0	50.0		ug/L		100	70 - 130
o-Chlorotoluene	50.0	47.0		ug/L		94	70 - 130
o-Xylene	50.0	45.6		ug/L		91	70 - 130
p-Chlorotoluene	50.0	46.9		ug/L		94	70 - 130
p-Isopropyltoluene	50.0	49.5		ug/L		99	65 - 130
sec-Butylbenzene	50.0	48.2		ug/L		96	66 - 130
Styrene	50.0	47.8		ug/L		96	70 - 130
tert-Butylbenzene	50.0	46.3		ug/L		93	64 - 139
1,1,1,2-Tetrachloroethane	50.0	54.8		ug/L		110	67 - 131
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/L		111	70 - 131
Tetrachloroethene	50.0	56.5		ug/L		113	65 - 130
Toluene	50.0	47.5		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	50.3		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	63 - 130
1,2,3-Trichlorobenzene	50.0	52.2		ug/L		104	60 - 138
1,2,4-Trichlorobenzene	50.0	52.0		ug/L		104	60 - 140
1,1,1-Trichloroethane	50.0	47.2		ug/L		94	68 - 130
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	70 - 130
Trichloroethene	50.0	57.9		ug/L		116	70 - 130
Trichlorofluoromethane	50.0	50.5		ug/L		101	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

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

Lab Sample ID: LCS 400-699825/1002

Matrix: Water

Analysis Batch: 699825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	55.4		ug/L		111	70 - 130
1,2,4-Trimethylbenzene	50.0	48.5		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	50.0	48.1		ug/L		96	69 - 130
Vinyl acetate	100	111		ug/L		111	26 - 150
Vinyl chloride	50.0	43.6		ug/L		87	59 - 136
Xylenes, Total	100	90.5		ug/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		56 - 136
Dibromofluoromethane	100		79 - 130
Toluene-d8 (Surr)	95		64 - 132

Lab Sample ID: MB 400-700012/5

Matrix: Water

Analysis Batch: 700012

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/20/25 11:31	1
Acrolein	ND		20	3.3	ug/L			02/20/25 11:31	1
Acrylonitrile	ND		10	2.8	ug/L			02/20/25 11:31	1
Benzene	ND		1.0	0.50	ug/L			02/20/25 11:31	1
Bromobenzene	ND		1.0	0.54	ug/L			02/20/25 11:31	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/20/25 11:31	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/20/25 11:31	1
Bromoform	ND		5.0	0.25	ug/L			02/20/25 11:31	1
Bromomethane	ND		1.0	0.98	ug/L			02/20/25 11:31	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/20/25 11:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/25 11:31	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/20/25 11:31	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/20/25 11:31	1
Chloroethane	ND		1.0	0.76	ug/L			02/20/25 11:31	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/20/25 11:31	1
Chloroform	ND		1.0	0.90	ug/L			02/20/25 11:31	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/20/25 11:31	1
Chloromethane	ND		1.0	0.40	ug/L			02/20/25 11:31	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/20/25 11:31	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/20/25 11:31	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/20/25 11:31	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/20/25 11:31	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/20/25 11:31	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/20/25 11:31	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/20/25 11:31	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/20/25 11:31	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/20/25 11:31	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/20/25 11:31	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 11:31	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 11:31	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/20/25 11:31	1

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

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

Lab Sample ID: MB 400-700012/5

Matrix: Water

Analysis Batch: 700012

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/20/25 11:31	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/20/25 11:31	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/20/25 11:31	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/20/25 11:31	1
2-Hexanone	ND		25	4.3	ug/L			02/20/25 11:31	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/20/25 11:31	1
Methylene bromide	ND		5.0	0.22	ug/L			02/20/25 11:31	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/20/25 11:31	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/20/25 11:31	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/20/25 11:31	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/20/25 11:31	1
Naphthalene	ND		5.0	3.0	ug/L			02/20/25 11:31	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/20/25 11:31	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/20/25 11:31	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/20/25 11:31	1
o-Xylene	ND		5.0	3.0	ug/L			02/20/25 11:31	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/20/25 11:31	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/20/25 11:31	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/20/25 11:31	1
Styrene	ND		1.0	1.0	ug/L			02/20/25 11:31	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/20/25 11:31	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/20/25 11:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/20/25 11:31	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/20/25 11:31	1
Toluene	ND		1.0	0.90	ug/L			02/20/25 11:31	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/20/25 11:31	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/20/25 11:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/20/25 11:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/20/25 11:31	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/20/25 11:31	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/20/25 11:31	1
Trichloroethene	ND		1.0	0.15	ug/L			02/20/25 11:31	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/20/25 11:31	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/20/25 11:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/20/25 11:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/20/25 11:31	1
Vinyl acetate	ND		25	0.93	ug/L			02/20/25 11:31	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/20/25 11:31	1
Xylenes, Total	ND		10	6.0	ug/L			02/20/25 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		56 - 136		02/20/25 11:31	1
Dibromofluoromethane	104		79 - 130		02/20/25 11:31	1
Toluene-d8 (Surr)	96		64 - 132		02/20/25 11:31	1

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

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

Lab Sample ID: LCS 400-700012/1002

Matrix: Water

Analysis Batch: 700012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	197		ug/L		98	43 - 150
Acrolein	500	402		ug/L		80	38 - 150
Acrylonitrile	500	484		ug/L		97	64 - 142
Benzene	50.0	53.7		ug/L		107	70 - 130
Bromobenzene	50.0	58.9		ug/L		118	70 - 132
Bromochloromethane	50.0	59.1		ug/L		118	70 - 130
Bromodichloromethane	50.0	51.3		ug/L		103	67 - 133
Bromoform	50.0	55.8		ug/L		112	57 - 140
Bromomethane	50.0	36.2		ug/L		72	10 - 150
2-Butanone (MEK)	200	238		ug/L		119	61 - 145
Carbon disulfide	50.0	45.6		ug/L		91	61 - 137
Carbon tetrachloride	50.0	53.5		ug/L		107	61 - 137
Chlorobenzene	50.0	55.2		ug/L		110	70 - 130
Chloroethane	50.0	37.8		ug/L		76	55 - 141
2-Chloroethyl vinyl ether	50.0	52.4		ug/L		105	10 - 150
Chloroform	50.0	51.0		ug/L		102	69 - 130
1-Chlorohexane	50.0	46.9		ug/L		94	69 - 130
Chloromethane	50.0	32.3		ug/L		65	58 - 137
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	68 - 130
cis-1,3-Dichloropropene	50.0	57.6		ug/L		115	69 - 132
Dibromochloromethane	50.0	55.9		ug/L		112	67 - 135
1,2-Dichlorobenzene	50.0	56.2		ug/L		112	67 - 130
1,3-Dichlorobenzene	50.0	59.2		ug/L		118	70 - 130
1,4-Dichlorobenzene	50.0	54.9		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	33.5		ug/L		67	41 - 146
1,1-Dichloroethane	50.0	49.3		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	49.3		ug/L		99	69 - 130
1,1-Dichloroethene	50.0	55.8		ug/L		112	63 - 134
1,2-Dichloropropane	50.0	56.5		ug/L		113	70 - 130
1,3-Dichloropropane	50.0	54.2		ug/L		108	70 - 130
2,2-Dichloropropane	50.0	45.9		ug/L		92	52 - 135
1,1-Dichloropropene	50.0	54.7		ug/L		109	70 - 130
Ethylbenzene	50.0	54.7		ug/L		109	70 - 130
Ethyl methacrylate	50.0	51.8		ug/L		104	68 - 130
Hexachlorobutadiene	50.0	60.9		ug/L		122	53 - 140
2-Hexanone	200	213		ug/L		106	65 - 137
Isopropylbenzene	50.0	50.7		ug/L		101	70 - 130
Methylene bromide	50.0	56.7		ug/L		113	70 - 130
Methylene Chloride	50.0	52.8		ug/L		106	66 - 135
4-Methyl-2-pentanone (MIBK)	200	212		ug/L		106	69 - 138
Methyl tert-butyl ether	50.0	55.6		ug/L		111	66 - 130
m-Xylene & p-Xylene	50.0	48.4		ug/L		97	70 - 130
Naphthalene	50.0	55.1		ug/L		110	47 - 149
n-Butylbenzene	50.0	54.8		ug/L		110	67 - 130
N-Propylbenzene	50.0	55.5		ug/L		111	70 - 130
o-Chlorotoluene	50.0	51.9		ug/L		104	70 - 130
o-Xylene	50.0	49.4		ug/L		99	70 - 130
p-Chlorotoluene	50.0	50.3		ug/L		101	70 - 130

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-270966-1

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

Lab Sample ID: LCS 400-700012/1002

Matrix: Water

Analysis Batch: 700012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
p-Isopropyltoluene	50.0	54.6		ug/L		109	65 - 130
sec-Butylbenzene	50.0	53.8		ug/L		108	66 - 130
Styrene	50.0	51.9		ug/L		104	70 - 130
tert-Butylbenzene	50.0	49.9		ug/L		100	64 - 139
1,1,1,2-Tetrachloroethane	50.0	58.3		ug/L		117	67 - 131
1,1,2,2-Tetrachloroethane	50.0	58.5		ug/L		117	70 - 131
Tetrachloroethene	50.0	61.6		ug/L		123	65 - 130
Toluene	50.0	50.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	53.4		ug/L		107	63 - 130
1,2,3-Trichlorobenzene	50.0	58.1		ug/L		116	60 - 138
1,2,4-Trichlorobenzene	50.0	57.5		ug/L		115	60 - 140
1,1,1-Trichloroethane	50.0	49.6		ug/L		99	68 - 130
1,1,2-Trichloroethane	50.0	52.8		ug/L		106	70 - 130
Trichloroethene	50.0	62.3		ug/L		125	70 - 130
Trichlorofluoromethane	50.0	45.0		ug/L		90	65 - 138
1,2,3-Trichloropropane	50.0	59.1		ug/L		118	70 - 130
1,2,4-Trimethylbenzene	50.0	52.8		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	50.0	53.0		ug/L		106	69 - 130
Vinyl acetate	100	99.1		ug/L		99	26 - 150
Vinyl chloride	50.0	37.9		ug/L		76	59 - 136
Xylenes, Total	100	97.8		ug/L		98	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	91		56 - 136
Dibromofluoromethane	97		79 - 130
Toluene-d8 (Surr)	95		64 - 132

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)[illegible]

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-270966-1

Login Number: 270966

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Darrien

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.2°C IR8
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-270966-1

Project/Site: AECOM ROXANA QUARTERLY GW

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Laboratory Report Reviewed: 400-271052-1

Site Name: Roxana

Prepared By and Date: Andreia Vladimirescu 3/5/2025

Event Reviewed: 1st Quarter 2025 Data Review

Reviewed By and Date: Delaine Austin 3/17/2025

Stage 2A Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Chain of Custody and Sample Receipt	Samples received in good condition, consistent with the COC, and within the required temperature range.	X			The cooler receipt form did not indicate any problems. Three of 70 (2-chloroethyl vinyl ether, acrolein, and acrylonitrile) 8260 VOCs are acid-reactive compounds; results may be biased low due to the presence of HCl in the preservative.
Holding Times	Analyses were performed within holding time.	X			
Surrogate	Surrogate recoveries met acceptance criteria.	X			
Field/Laboratory Duplicate	Laboratory duplicates met laboratory control limits, and field duplicates met the applicable criteria.			X	
Matrix Spike	MS recoveries met acceptance criteria.		X		

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/RPD Criteria
MW16-ROX-021425 MS/MSD	VOCs	Chloroethane	46/41	11	50-150/30
MW16-ROX-021425 MS/MSD	VOCs	2-Chloroethyl vinyl ether	0/0	NC	10-150/50
MW16-ROX-021425 MS/MSD	VOCs	Chloromethane	46/46	1	49-148/31
MW16-ROX-021425 MS/MSD	VOCs	Trichlorofluoromethane	34/35	3	54-150/30
MW16-ROX-021425 MS/MSD	VOCs	Vinyl chloride	41/42	2	46-150/30

Analytical data that required qualification based on MS/MSD data are referenced below.

Method 8260D (VOCs)

Professional judgement was used to qualify; however, not reject 2-chloroethyl vinyl ether due to acceptable LCS recoveries and to the acid reactive nature of 2-chloroethyl vinyl ether.

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2A Validation																	
Item Reviewed	Acceptable Criteria	Quality Condition			Comments												
		Pass	Fail ¹	N/A													
Several analytes in sample MW16-ROX-021425 24 were qualified as estimated (UJ).																	
Laboratory Control Spike	LCS was performed at the required frequency and LCS recoveries met acceptance criteria.		X														
<table><tr><th>LCS/LCSD ID</th><th>Parameter</th><th>Analyte</th><th>LCS/LCSD Recovery</th><th>RPD</th><th>LCS/LCSD/RPD Criteria</th></tr><tr><td>LCS 400-699827/1002</td><td>VOCs</td><td>2-Chloroethyl vinyl ether</td><td>169</td><td>NA</td><td>10-150</td></tr></table>						LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria	LCS 400-699827/1002	VOCs	2-Chloroethyl vinyl ether	169	NA	10-150
LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria												
LCS 400-699827/1002	VOCs	2-Chloroethyl vinyl ether	169	NA	10-150												
Analytical data reported as non-detect and associated with LCS/LCSD recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.																	
Trip/Field/Equipment Blank	Target analytes were not detected in the trip/field/equipment blank.	X															
Laboratory Blank	Target analytes were not detected in the laboratory blank.	X															
Detection Limits ²	No results were reported as non-detect at elevated detection limits.		X		Analytes were detected in samples that were diluted.												
Reporting/Other	No other quality issues were noted that would impact the usability of this data set.	X															
Usability	No results qualified as unusable.	X															
Historical	Sample results were within 3 standard deviations from historical mean.			X	Not evaluated.												

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial Calibration	The initial calibration met the criteria outlined in the associated method. This includes, but is not limited to: - Meeting the minimum standards for average, linear, and non-linear regression - Acceptable relative standard deviation - Acceptable correlation coefficient/correlation criteria			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Tuning/Instrument Performance Checks	A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis, or the specified frequency per method, and ion relative abundances were within acceptance limits.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Initial Calibration Verification/Continuing Calibration Verification	ICVs/CCVs were analyzed for each analytes at the specified frequency and appropriate concentrations. Organics The associated percent difference (%D) was within method criteria. Inorganics The ICV and CCV were recovered within the method low-level acceptance range of 70-130% and the medium/high acceptance range of 90-110% as applicable to the method		X		
Method 8260D (VOCs) The continuing calibration verification (CCV) for trichlorofluoromethane were outside evaluation criteria, biased low. Trichlorofluoromethane in sample MW16-ROX-021425 was qualified due to LCS/LCSD recoveries outside evaluation criteria; no further qualification is required. The associated results for samples MW1-ROX-021425, P54-ROX-021425, and MW24-ROX-021425 were qualified as estimated (UJ).					

	Standard Operating Procedures Data Validation	AECOM - SOP-16B Issue Date: August 2024

Stage 2B, 3, 4 Validation					
Item Reviewed	Acceptable Criteria	Quality Condition			Comments
		Pass	Fail ¹	N/A	
Initial and Continuing Calibration Blanks	ICBs/CCBs were analyzed at the specified frequency and no target analytes were present.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Interference Check Standard (Metals Only)	The interference check standard (ICS) AB solutions were analyzed at the proper frequency. The target analytes were recovered within the acceptance range of 85-115% in the ICS AB solution. Interferent elements were not present in the samples at concentrations greater than those in the ICSSs.			X	
Internal Standards	The recoveries for the internal standards in field samples were within the applicable acceptance limits.	X			
Second Column/Detector Confirmation Results	The reported results agreed with an RPD $\leq 40\%$ between the primary and confirmation columns.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Recalculation/Re-quantification	10% of selected samples, batch QC, instrument QC, and the initial calibration were recalculated and appropriate instrument response data was reviewed.			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.
Target Compound Identification	The instrument printouts were reviewed. Results obtained for quality control check samples (calibration standards and laboratory control samples) indicate that instrument signals reported were due to the target analytes. Reported signal intensities and mass spectral data agreed with reported concentrations for all samples and agree with the criteria in the analytical method			X	Evaluation not required for Stage 2A + IS/ICV/CCV hybrid validation.

¹ A failed condition must be elevated to the PM and project chemist for resolution.

² Non-detect results reported at elevated detection limits should be evaluated by the end user of the data with respect to project objectives.

Data is reviewed electronically and confirmed against the PDF. Criteria is evaluated against the most current version of National Functional Guidelines, method requirements, and the project Quality Assurance Project Plan, as applicable.



ANALYTICAL REPORT

PREPARED FOR

Attn: Melissa Remiger
AECOM
411 Broadway Ave
South Roxana, Illinois 62087

Generated 2/20/2025 6:59:42 AM

JOB DESCRIPTION

AECOM ROXANA QUARTERLY GW

JOB NUMBER

400-271052-1

Reviewed 03/06/2025
VA

Eurofins Pensacola

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 Southeast, LLC Project Manager.

Authorization



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Case Narrative

Client: AECOM
Project: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Job ID: 400-271052-1

Eurofins Pensacola

Job Narrative 400-271052-1

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 2/15/2025 9:06 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 4.1°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-699827 recovered above the upper control limit for 1,2-Dichloropropane, 2-Chloroethyl vinyl ether, Acrolein, Acrylonitrile and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 400-699827 recovered outside acceptance criteria, low biased, for Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-699827 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-699827 were outside control limits for 2-Chloroethyl vinyl ether due to the acidic nature of the parent sample.

Method 8260D: The RPD for the MS/MSD for 2-chloroethyl vinyl ether was not calculable for analytical batch 400-699827 because the recoveries were below the reporting limit due to the acidic nature of the parent sample.

Method 8260D: The laboratory control sample (LCS) for analytical batch 400-699827 recovered outside control limits for the following analytes: 2-Chloroethyl vinyl ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB-ROX-021425-8260 (400-271052-1), MW16-ROX-021425 (400-271052-2), MW1-ROX-021425 (400-271052-3), P54-ROX-021425 (400-271052-4) and MW24-ROX-021425 (400-271052-5). The requested target analyte list includes 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrades in an acidic medium.

Method 8260D: The initial calibration verification (ICV) analyzed in batch 400-696561 was outside method criteria for the following analyte(s): Chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

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Sample Summary

Client: AECOM

Job ID: 400-271052-1

Project/Site: AECOM ROXANA QUARTERLY GW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-271052-1	TB-ROX-021425-8260	Water	02/14/25 00:00	02/15/25 09:06
400-271052-2	MW16-ROX-021425	Water	02/14/25 09:35	02/15/25 09:06
400-271052-3	MW1-ROX-021425	Water	02/14/25 10:40	02/15/25 09:06
400-271052-4	P54-ROX-021425	Water	02/14/25 12:20	02/15/25 09:06
400-271052-5	MW24-ROX-021425	Water	02/14/25 13:30	02/15/25 09:06

Detection Summary

Client: AECOM

Job ID: 400-271052-1

Project/Site: AECOM ROXANA QUARTERLY GW

Client Sample ID: TB-ROX-021425-8260

Lab Sample ID: 400-271052-1

No Detections.

Client Sample ID: MW16-ROX-021425

Lab Sample ID: 400-271052-2

No Detections.

Client Sample ID: MW1-ROX-021425

Lab Sample ID: 400-271052-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.84	J	1.0	0.50	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	0.60	J	1.0	0.22	ug/L	1		8260D	Total/NA

Client Sample ID: P54-ROX-021425

Lab Sample ID: 400-271052-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.59	J	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: MW24-ROX-021425

Lab Sample ID: 400-271052-5

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: TB-ROX-021425-8260

Lab Sample ID: 400-271052-1

Date Collected: 02/14/25 00:00

Matrix: Water

Date Received: 02/15/25 09:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/19/25 15:16	1
Acrolein	ND		20	3.3	ug/L			02/19/25 15:16	1
Acrylonitrile	ND		10	2.8	ug/L			02/19/25 15:16	1
Benzene	ND		1.0	0.50	ug/L			02/19/25 15:16	1
Bromobenzene	ND		1.0	0.54	ug/L			02/19/25 15:16	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/19/25 15:16	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/19/25 15:16	1
Bromoform	ND		5.0	0.25	ug/L			02/19/25 15:16	1
Bromomethane	ND		1.0	0.98	ug/L			02/19/25 15:16	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/19/25 15:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/25 15:16	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/19/25 15:16	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/19/25 15:16	1
Chloroethane	ND		1.0	0.76	ug/L			02/19/25 15:16	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			02/19/25 15:16	1
Chloroform	ND		1.0	0.90	ug/L			02/19/25 15:16	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/19/25 15:16	1
Chloromethane	ND		1.0	0.40	ug/L			02/19/25 15:16	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/19/25 15:16	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/19/25 15:16	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/19/25 15:16	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/19/25 15:16	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/19/25 15:16	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/19/25 15:16	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/19/25 15:16	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/19/25 15:16	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/19/25 15:16	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 15:16	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 15:16	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 15:16	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 15:16	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/19/25 15:16	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/19/25 15:16	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/19/25 15:16	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/19/25 15:16	1
2-Hexanone	ND		25	4.3	ug/L			02/19/25 15:16	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/19/25 15:16	1
Methylene bromide	ND		5.0	0.22	ug/L			02/19/25 15:16	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/19/25 15:16	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/19/25 15:16	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/19/25 15:16	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/19/25 15:16	1
Naphthalene	ND		5.0	3.0	ug/L			02/19/25 15:16	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/19/25 15:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/19/25 15:16	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/19/25 15:16	1
o-Xylene	ND		5.0	3.0	ug/L			02/19/25 15:16	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/19/25 15:16	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/19/25 15:16	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: TB-ROX-021425-8260

Lab Sample ID: 400-271052-1

Date Collected: 02/14/25 00:00

Matrix: Water

Date Received: 02/15/25 09:06

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/19/25 15:16	1
Styrene	ND		1.0	1.0	ug/L			02/19/25 15:16	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/19/25 15:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/19/25 15:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/19/25 15:16	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/19/25 15:16	1
Toluene	ND		1.0	0.90	ug/L			02/19/25 15:16	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 15:16	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/19/25 15:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/19/25 15:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/19/25 15:16	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/19/25 15:16	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/19/25 15:16	1
Trichloroethene	ND		1.0	0.15	ug/L			02/19/25 15:16	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/19/25 15:16	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/19/25 15:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/19/25 15:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/19/25 15:16	1
Vinyl acetate	ND		25	0.93	ug/L			02/19/25 15:16	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/19/25 15:16	1
Xylenes, Total	ND		10	6.0	ug/L			02/19/25 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		56 - 136		02/19/25 15:16	1
Dibromofluoromethane	113		79 - 130		02/19/25 15:16	1
Toluene-d8 (Surr)	95		64 - 132		02/19/25 15:16	1

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: MW16-ROX-021425

Lab Sample ID: 400-271052-2

Date Collected: 02/14/25 09:35

Matrix: Water

Date Received: 02/15/25 09:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/19/25 13:35	1
Acrolein	ND		20	3.3	ug/L			02/19/25 13:35	1
Acrylonitrile	ND		10	2.8	ug/L			02/19/25 13:35	1
Benzene	ND		1.0	0.50	ug/L			02/19/25 13:35	1
Bromobenzene	ND		1.0	0.54	ug/L			02/19/25 13:35	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/19/25 13:35	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/19/25 13:35	1
Bromoform	ND		5.0	0.25	ug/L			02/19/25 13:35	1
Bromomethane	ND		1.0	0.98	ug/L			02/19/25 13:35	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/19/25 13:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/25 13:35	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/19/25 13:35	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/19/25 13:35	1
Chloroethane	ND	F1 UJ	1.0	0.76	ug/L			02/19/25 13:35	1
2-Chloroethyl vinyl ether	ND	*+ F1 UJ	5.0	2.0	ug/L			02/19/25 13:35	1
Chloroform	ND		1.0	0.90	ug/L			02/19/25 13:35	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/19/25 13:35	1
Chloromethane	ND	F1 UJ	1.0	0.40	ug/L			02/19/25 13:35	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/19/25 13:35	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/19/25 13:35	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/19/25 13:35	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/19/25 13:35	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/19/25 13:35	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/19/25 13:35	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/19/25 13:35	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/19/25 13:35	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/19/25 13:35	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 13:35	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 13:35	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 13:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 13:35	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/19/25 13:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/19/25 13:35	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/19/25 13:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/19/25 13:35	1
2-Hexanone	ND		25	4.3	ug/L			02/19/25 13:35	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/19/25 13:35	1
Methylene bromide	ND		5.0	0.22	ug/L			02/19/25 13:35	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/19/25 13:35	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/19/25 13:35	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/19/25 13:35	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/19/25 13:35	1
Naphthalene	ND		5.0	3.0	ug/L			02/19/25 13:35	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/19/25 13:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/19/25 13:35	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/19/25 13:35	1
o-Xylene	ND		5.0	3.0	ug/L			02/19/25 13:35	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/19/25 13:35	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/19/25 13:35	1

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Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: MW16-ROX-021425

Lab Sample ID: 400-271052-2

Date Collected: 02/14/25 09:35

Matrix: Water

Date Received: 02/15/25 09:06

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/19/25 13:35	1
Styrene	ND		1.0	1.0	ug/L			02/19/25 13:35	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/19/25 13:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/19/25 13:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/19/25 13:35	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/19/25 13:35	1
Toluene	ND		1.0	0.90	ug/L			02/19/25 13:35	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 13:35	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/19/25 13:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/19/25 13:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/19/25 13:35	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/19/25 13:35	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/19/25 13:35	1
Trichloroethene	ND		1.0	0.15	ug/L			02/19/25 13:35	1
Trichlorofluoromethane	ND	F1 UJ	1.0	0.25	ug/L			02/19/25 13:35	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/19/25 13:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/19/25 13:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/19/25 13:35	1
Vinyl acetate	ND		25	0.93	ug/L			02/19/25 13:35	1
Vinyl chloride	ND	F1 UJ	1.0	0.50	ug/L			02/19/25 13:35	1
Xylenes, Total	ND		10	6.0	ug/L			02/19/25 13:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		56 - 136					02/19/25 13:35	1
Dibromofluoromethane	112		79 - 130					02/19/25 13:35	1
Toluene-d8 (Surr)	95		64 - 132					02/19/25 13:35	1

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: MW1-ROX-021425

Lab Sample ID: 400-271052-3

Date Collected: 02/14/25 10:40

Matrix: Water

Date Received: 02/15/25 09:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/19/25 15:41	1
Acrolein	ND		20	3.3	ug/L			02/19/25 15:41	1
Acrylonitrile	ND		10	2.8	ug/L			02/19/25 15:41	1
Benzene	0.84	J	1.0	0.50	ug/L			02/19/25 15:41	1
Bromobenzene	ND		1.0	0.54	ug/L			02/19/25 15:41	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/19/25 15:41	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/19/25 15:41	1
Bromoform	ND		5.0	0.25	ug/L			02/19/25 15:41	1
Bromomethane	ND		1.0	0.98	ug/L			02/19/25 15:41	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/19/25 15:41	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/25 15:41	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/19/25 15:41	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/19/25 15:41	1
Chloroethane	ND		1.0	0.76	ug/L			02/19/25 15:41	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			02/19/25 15:41	1
Chloroform	ND		1.0	0.90	ug/L			02/19/25 15:41	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/19/25 15:41	1
Chloromethane	ND		1.0	0.40	ug/L			02/19/25 15:41	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/19/25 15:41	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/19/25 15:41	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/19/25 15:41	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/19/25 15:41	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/19/25 15:41	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/19/25 15:41	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/19/25 15:41	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/19/25 15:41	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/19/25 15:41	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 15:41	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 15:41	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 15:41	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 15:41	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/19/25 15:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/19/25 15:41	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/19/25 15:41	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/19/25 15:41	1
2-Hexanone	ND		25	4.3	ug/L			02/19/25 15:41	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/19/25 15:41	1
Methylene bromide	ND		5.0	0.22	ug/L			02/19/25 15:41	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/19/25 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/19/25 15:41	1
Methyl tert-butyl ether	0.60	J	1.0	0.22	ug/L			02/19/25 15:41	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/19/25 15:41	1
Naphthalene	ND		5.0	3.0	ug/L			02/19/25 15:41	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/19/25 15:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/19/25 15:41	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/19/25 15:41	1
o-Xylene	ND		5.0	3.0	ug/L			02/19/25 15:41	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/19/25 15:41	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/19/25 15:41	1

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Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: MW1-ROX-021425

Lab Sample ID: 400-271052-3

Date Collected: 02/14/25 10:40

Matrix: Water

Date Received: 02/15/25 09:06

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/19/25 15:41	1
Styrene	ND		1.0	1.0	ug/L			02/19/25 15:41	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/19/25 15:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/19/25 15:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/19/25 15:41	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/19/25 15:41	1
Toluene	ND		1.0	0.90	ug/L			02/19/25 15:41	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 15:41	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/19/25 15:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/19/25 15:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/19/25 15:41	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/19/25 15:41	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/19/25 15:41	1
Trichloroethene	ND		1.0	0.15	ug/L			02/19/25 15:41	1
Trichlorofluoromethane	ND	UJ	1.0	0.25	ug/L			02/19/25 15:41	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/19/25 15:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/19/25 15:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/19/25 15:41	1
Vinyl acetate	ND		25	0.93	ug/L			02/19/25 15:41	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/19/25 15:41	1
Xylenes, Total	ND		10	6.0	ug/L			02/19/25 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		56 - 136					02/19/25 15:41	1
Dibromofluoromethane	112		79 - 130					02/19/25 15:41	1
Toluene-d8 (Surr)	95		64 - 132					02/19/25 15:41	1

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: P54-ROX-021425

Lab Sample ID: 400-271052-4

Date Collected: 02/14/25 12:20

Matrix: Water

Date Received: 02/15/25 09:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/19/25 16:04	1
Acrolein	ND		20	3.3	ug/L			02/19/25 16:04	1
Acrylonitrile	ND		10	2.8	ug/L			02/19/25 16:04	1
Benzene	ND		1.0	0.50	ug/L			02/19/25 16:04	1
Bromobenzene	ND		1.0	0.54	ug/L			02/19/25 16:04	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/19/25 16:04	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/19/25 16:04	1
Bromoform	ND		5.0	0.25	ug/L			02/19/25 16:04	1
Bromomethane	ND		1.0	0.98	ug/L			02/19/25 16:04	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/19/25 16:04	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/25 16:04	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/19/25 16:04	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/19/25 16:04	1
Chloroethane	ND		1.0	0.76	ug/L			02/19/25 16:04	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			02/19/25 16:04	1
Chloroform	ND		1.0	0.90	ug/L			02/19/25 16:04	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/19/25 16:04	1
Chloromethane	0.59	J	1.0	0.40	ug/L			02/19/25 16:04	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/19/25 16:04	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/19/25 16:04	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/19/25 16:04	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/19/25 16:04	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/19/25 16:04	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/19/25 16:04	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/19/25 16:04	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/19/25 16:04	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/19/25 16:04	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 16:04	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 16:04	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 16:04	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 16:04	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/19/25 16:04	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/19/25 16:04	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/19/25 16:04	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/19/25 16:04	1
2-Hexanone	ND		25	4.3	ug/L			02/19/25 16:04	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/19/25 16:04	1
Methylene bromide	ND		5.0	0.22	ug/L			02/19/25 16:04	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/19/25 16:04	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/19/25 16:04	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/19/25 16:04	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/19/25 16:04	1
Naphthalene	ND		5.0	3.0	ug/L			02/19/25 16:04	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/19/25 16:04	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/19/25 16:04	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/19/25 16:04	1
o-Xylene	ND		5.0	3.0	ug/L			02/19/25 16:04	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/19/25 16:04	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/19/25 16:04	1

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Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: P54-ROX-021425

Lab Sample ID: 400-271052-4

Date Collected: 02/14/25 12:20

Matrix: Water

Date Received: 02/15/25 09:06

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/19/25 16:04	1
Styrene	ND		1.0	1.0	ug/L			02/19/25 16:04	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/19/25 16:04	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/19/25 16:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/19/25 16:04	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/19/25 16:04	1
Toluene	ND		1.0	0.90	ug/L			02/19/25 16:04	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 16:04	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/19/25 16:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/19/25 16:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/19/25 16:04	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/19/25 16:04	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/19/25 16:04	1
Trichloroethene	ND		1.0	0.15	ug/L			02/19/25 16:04	1
Trichlorofluoromethane	ND	UJ	1.0	0.25	ug/L			02/19/25 16:04	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/19/25 16:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/19/25 16:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/19/25 16:04	1
Vinyl acetate	ND		25	0.93	ug/L			02/19/25 16:04	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/19/25 16:04	1
Xylenes, Total	ND		10	6.0	ug/L			02/19/25 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		56 - 136					02/19/25 16:04	1
Dibromofluoromethane	110		79 - 130					02/19/25 16:04	1
Toluene-d8 (Surr)	94		64 - 132					02/19/25 16:04	1

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: MW24-ROX-021425

Lab Sample ID: 400-271052-5

Date Collected: 02/14/25 13:30

Matrix: Water

Date Received: 02/15/25 09:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/19/25 16:30	1
Acrolein	ND		20	3.3	ug/L			02/19/25 16:30	1
Acrylonitrile	ND		10	2.8	ug/L			02/19/25 16:30	1
Benzene	ND		1.0	0.50	ug/L			02/19/25 16:30	1
Bromobenzene	ND		1.0	0.54	ug/L			02/19/25 16:30	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/19/25 16:30	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/19/25 16:30	1
Bromoform	ND		5.0	0.25	ug/L			02/19/25 16:30	1
Bromomethane	ND		1.0	0.98	ug/L			02/19/25 16:30	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/19/25 16:30	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/25 16:30	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/19/25 16:30	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/19/25 16:30	1
Chloroethane	ND		1.0	0.76	ug/L			02/19/25 16:30	1
2-Chloroethyl vinyl ether	ND	*+	5.0	2.0	ug/L			02/19/25 16:30	1
Chloroform	ND		1.0	0.90	ug/L			02/19/25 16:30	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/19/25 16:30	1
Chloromethane	ND		1.0	0.40	ug/L			02/19/25 16:30	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/19/25 16:30	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/19/25 16:30	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/19/25 16:30	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/19/25 16:30	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/19/25 16:30	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/19/25 16:30	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/19/25 16:30	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/19/25 16:30	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/19/25 16:30	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 16:30	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 16:30	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 16:30	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 16:30	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/19/25 16:30	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/19/25 16:30	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/19/25 16:30	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/19/25 16:30	1
2-Hexanone	ND		25	4.3	ug/L			02/19/25 16:30	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/19/25 16:30	1
Methylene bromide	ND		5.0	0.22	ug/L			02/19/25 16:30	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/19/25 16:30	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/19/25 16:30	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/19/25 16:30	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/19/25 16:30	1
Naphthalene	ND		5.0	3.0	ug/L			02/19/25 16:30	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/19/25 16:30	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/19/25 16:30	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/19/25 16:30	1
o-Xylene	ND		5.0	3.0	ug/L			02/19/25 16:30	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/19/25 16:30	1
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/19/25 16:30	1

Eurofins Pensacola

Client Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: MW24-ROX-021425

Lab Sample ID: 400-271052-5

Date Collected: 02/14/25 13:30

Matrix: Water

Date Received: 02/15/25 09:06

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/19/25 16:30	1
Styrene	ND		1.0	1.0	ug/L			02/19/25 16:30	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/19/25 16:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/19/25 16:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/19/25 16:30	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/19/25 16:30	1
Toluene	ND		1.0	0.90	ug/L			02/19/25 16:30	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 16:30	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/19/25 16:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/19/25 16:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/19/25 16:30	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/19/25 16:30	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/19/25 16:30	1
Trichloroethene	ND		1.0	0.15	ug/L			02/19/25 16:30	1
Trichlorofluoromethane	ND	UJ	1.0	0.25	ug/L			02/19/25 16:30	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/19/25 16:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/19/25 16:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/19/25 16:30	1
Vinyl acetate	ND		25	0.93	ug/L			02/19/25 16:30	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/19/25 16:30	1
Xylenes, Total	ND		10	6.0	ug/L			02/19/25 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		56 - 136					02/19/25 16:30	1
Dibromofluoromethane	110		79 - 130					02/19/25 16:30	1
Toluene-d8 (Surr)	95		64 - 132					02/19/25 16:30	1

Definitions/Glossary

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Surrogate Summary

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (56-136)	DBFM (79-130)	TOL (64-132)
400-271052-1	TB-ROX-021425-8260	95	113	95
400-271052-2	MW16-ROX-021425	93	112	95
400-271052-2 MS	MW16-ROX-021425	102	97	95
400-271052-2 MSD	MW16-ROX-021425	102	97	93
400-271052-3	MW1-ROX-021425	95	112	95
400-271052-4	P54-ROX-021425	95	110	94
400-271052-5	MW24-ROX-021425	95	110	95
LCS 400-699827/1002	Lab Control Sample	102	93	92
MB 400-699827/4	Method Blank	92	109	95

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method Summary

Client: AECOM

Job ID: 400-271052-1

Project/Site: AECOM ROXANA QUARTERLY GW

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN

Protocol References:

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Lab Chronicle

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: TB-ROX-021425-8260

Lab Sample ID: 400-271052-1

Date Collected: 02/14/25 00:00

Matrix: Water

Date Received: 02/15/25 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 15:16	BPO	EET PEN

Client Sample ID: MW16-ROX-021425

Lab Sample ID: 400-271052-2

Date Collected: 02/14/25 09:35

Matrix: Water

Date Received: 02/15/25 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 13:35	BPO	EET PEN

Client Sample ID: MW1-ROX-021425

Lab Sample ID: 400-271052-3

Date Collected: 02/14/25 10:40

Matrix: Water

Date Received: 02/15/25 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 15:41	BPO	EET PEN

Client Sample ID: P54-ROX-021425

Lab Sample ID: 400-271052-4

Date Collected: 02/14/25 12:20

Matrix: Water

Date Received: 02/15/25 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 16:04	BPO	EET PEN

Client Sample ID: MW24-ROX-021425

Lab Sample ID: 400-271052-5

Date Collected: 02/14/25 13:30

Matrix: Water

Date Received: 02/15/25 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 16:30	BPO	EET PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-699827/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 11:05	BPO	EET PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-699827/1002

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 10:02	BPO	EET PEN

Lab Chronicle

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

Client Sample ID: MW16-ROX-021425

Lab Sample ID: 400-271052-2 MS

Date Collected: 02/14/25 09:35

Matrix: Water

Date Received: 02/15/25 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 14:00	BPO	EET PEN

Client Sample ID: MW16-ROX-021425

Lab Sample ID: 400-271052-2 MSD

Date Collected: 02/14/25 09:35

Matrix: Water

Date Received: 02/15/25 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	699827	02/19/25 14:25	BPO	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: AECOM

Job ID: 400-271052-1

Project/Site: AECOM ROXANA QUARTERLY GW

GC/MS VOA

Analysis Batch: 699827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-271052-1	TB-ROX-021425-8260	Total/NA	Water	8260D	
400-271052-2	MW16-ROX-021425	Total/NA	Water	8260D	
400-271052-3	MW1-ROX-021425	Total/NA	Water	8260D	
400-271052-4	P54-ROX-021425	Total/NA	Water	8260D	
400-271052-5	MW24-ROX-021425	Total/NA	Water	8260D	
MB 400-699827/4	Method Blank	Total/NA	Water	8260D	
LCS 400-699827/1002	Lab Control Sample	Total/NA	Water	8260D	
400-271052-2 MS	MW16-ROX-021425	Total/NA	Water	8260D	
400-271052-2 MSD	MW16-ROX-021425	Total/NA	Water	8260D	

QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

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

Lab Sample ID: MB 400-699827/4

Matrix: Water

Analysis Batch: 699827

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25	10	ug/L			02/19/25 11:05	1
Acrolein	ND		20	3.3	ug/L			02/19/25 11:05	1
Acrylonitrile	ND		10	2.8	ug/L			02/19/25 11:05	1
Benzene	ND		1.0	0.50	ug/L			02/19/25 11:05	1
Bromobenzene	ND		1.0	0.54	ug/L			02/19/25 11:05	1
Bromochloromethane	ND		1.0	0.52	ug/L			02/19/25 11:05	1
Bromodichloromethane	ND		1.0	0.50	ug/L			02/19/25 11:05	1
Bromoform	ND		5.0	0.25	ug/L			02/19/25 11:05	1
Bromomethane	ND		1.0	0.98	ug/L			02/19/25 11:05	1
2-Butanone (MEK)	ND		25	2.6	ug/L			02/19/25 11:05	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/25 11:05	1
Carbon tetrachloride	ND		1.0	0.19	ug/L			02/19/25 11:05	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/19/25 11:05	1
Chloroethane	ND		1.0	0.76	ug/L			02/19/25 11:05	1
2-Chloroethyl vinyl ether	ND		5.0	2.0	ug/L			02/19/25 11:05	1
Chloroform	ND		1.0	0.90	ug/L			02/19/25 11:05	1
1-Chlorohexane	ND		1.0	0.32	ug/L			02/19/25 11:05	1
Chloromethane	ND		1.0	0.40	ug/L			02/19/25 11:05	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			02/19/25 11:05	1
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/L			02/19/25 11:05	1
Dibromochloromethane	ND		1.0	0.24	ug/L			02/19/25 11:05	1
1,2-Dichlorobenzene	ND		1.0	0.50	ug/L			02/19/25 11:05	1
1,3-Dichlorobenzene	ND		1.0	0.54	ug/L			02/19/25 11:05	1
1,4-Dichlorobenzene	ND		1.0	0.64	ug/L			02/19/25 11:05	1
Dichlorodifluoromethane	ND		1.0	0.85	ug/L			02/19/25 11:05	1
1,1-Dichloroethane	ND		1.0	0.50	ug/L			02/19/25 11:05	1
1,2-Dichloroethane	ND		1.0	0.55	ug/L			02/19/25 11:05	1
1,1-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 11:05	1
1,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 11:05	1
1,3-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 11:05	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/19/25 11:05	1
1,1-Dichloropropene	ND		1.0	0.090	ug/L			02/19/25 11:05	1
Ethylbenzene	ND		1.0	0.50	ug/L			02/19/25 11:05	1
Ethyl methacrylate	ND		1.0	0.60	ug/L			02/19/25 11:05	1
Hexachlorobutadiene	ND		5.0	0.90	ug/L			02/19/25 11:05	1
2-Hexanone	ND		25	4.3	ug/L			02/19/25 11:05	1
Isopropylbenzene	ND		1.0	0.53	ug/L			02/19/25 11:05	1
Methylene bromide	ND		5.0	0.22	ug/L			02/19/25 11:05	1
Methylene Chloride	ND		5.0	3.0	ug/L			02/19/25 11:05	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.8	ug/L			02/19/25 11:05	1
Methyl tert-butyl ether	ND		1.0	0.22	ug/L			02/19/25 11:05	1
m-Xylene & p-Xylene	ND		5.0	3.0	ug/L			02/19/25 11:05	1
Naphthalene	ND		5.0	3.0	ug/L			02/19/25 11:05	1
n-Butylbenzene	ND		1.0	0.76	ug/L			02/19/25 11:05	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/19/25 11:05	1
o-Chlorotoluene	ND		1.0	0.57	ug/L			02/19/25 11:05	1
o-Xylene	ND		5.0	3.0	ug/L			02/19/25 11:05	1
p-Chlorotoluene	ND		1.0	0.56	ug/L			02/19/25 11:05	1

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

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

Lab Sample ID: MB 400-699827/4

Matrix: Water

Analysis Batch: 699827

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.71	ug/L			02/19/25 11:05	1
sec-Butylbenzene	ND		1.0	0.70	ug/L			02/19/25 11:05	1
Styrene	ND		1.0	1.0	ug/L			02/19/25 11:05	1
tert-Butylbenzene	ND		1.0	0.63	ug/L			02/19/25 11:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.38	ug/L			02/19/25 11:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L			02/19/25 11:05	1
Tetrachloroethene	ND		1.0	0.33	ug/L			02/19/25 11:05	1
Toluene	ND		1.0	0.90	ug/L			02/19/25 11:05	1
trans-1,2-Dichloroethene	ND		1.0	0.50	ug/L			02/19/25 11:05	1
trans-1,3-Dichloropropene	ND		5.0	0.20	ug/L			02/19/25 11:05	1
1,2,3-Trichlorobenzene	ND		1.0	0.90	ug/L			02/19/25 11:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.82	ug/L			02/19/25 11:05	1
1,1,1-Trichloroethane	ND		1.0	0.18	ug/L			02/19/25 11:05	1
1,1,2-Trichloroethane	ND		5.0	0.21	ug/L			02/19/25 11:05	1
Trichloroethene	ND		1.0	0.15	ug/L			02/19/25 11:05	1
Trichlorofluoromethane	ND		1.0	0.25	ug/L			02/19/25 11:05	1
1,2,3-Trichloropropane	ND		5.0	0.84	ug/L			02/19/25 11:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.82	ug/L			02/19/25 11:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.56	ug/L			02/19/25 11:05	1
Vinyl acetate	ND		25	0.93	ug/L			02/19/25 11:05	1
Vinyl chloride	ND		1.0	0.50	ug/L			02/19/25 11:05	1
Xylenes, Total	ND		10	6.0	ug/L			02/19/25 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		56 - 136		02/19/25 11:05	1
Dibromofluoromethane	109		79 - 130		02/19/25 11:05	1
Toluene-d8 (Surr)	95		64 - 132		02/19/25 11:05	1

Lab Sample ID: LCS 400-699827/1002

Matrix: Water

Analysis Batch: 699827

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	256		ug/L		128	43 - 150
Acrolein	250	349		ug/L		140	38 - 150
Acrylonitrile	500	616		ug/L		123	64 - 142
Benzene	50.0	48.8		ug/L		98	70 - 130
Bromobenzene	50.0	50.5		ug/L		101	70 - 132
Bromochloromethane	50.0	45.9		ug/L		92	70 - 130
Bromodichloromethane	50.0	49.3		ug/L		99	67 - 133
Bromoform	50.0	46.0		ug/L		92	57 - 140
Bromomethane	25.0	34.0		ug/L		136	10 - 150
2-Butanone (MEK)	200	231		ug/L		115	61 - 145
Carbon disulfide	50.0	31.7		ug/L		63	61 - 137
Carbon tetrachloride	50.0	43.9		ug/L		88	61 - 137
Chlorobenzene	50.0	49.0		ug/L		98	70 - 130
Chloroethane	25.0	20.7		ug/L		83	55 - 141
2-Chloroethyl vinyl ether	25.0	42.2	*+	ug/L		169	10 - 150

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

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

Lab Sample ID: LCS 400-699827/1002

Matrix: Water

Analysis Batch: 699827

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	43.5		ug/L		87	69 - 130
1-Chlorohexane	50.0	51.2		ug/L		102	69 - 130
Chloromethane	25.0	24.8		ug/L		99	58 - 137
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	68 - 130
cis-1,3-Dichloropropene	50.0	53.5		ug/L		107	69 - 132
Dibromochloromethane	50.0	47.2		ug/L		94	67 - 135
1,2-Dichlorobenzene	50.0	53.0		ug/L		106	67 - 130
1,3-Dichlorobenzene	50.0	54.6		ug/L		109	70 - 130
1,4-Dichlorobenzene	50.0	54.8		ug/L		110	70 - 130
Dichlorodifluoromethane	25.0	14.5		ug/L		58	41 - 146
1,1-Dichloroethane	50.0	50.1		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	46.4		ug/L		93	69 - 130
1,1-Dichloroethene	50.0	42.9		ug/L		86	63 - 134
1,2-Dichloropropane	50.0	61.1		ug/L		122	70 - 130
1,3-Dichloropropane	50.0	50.5		ug/L		101	70 - 130
2,2-Dichloropropane	50.0	43.8		ug/L		88	52 - 135
1,1-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Ethylbenzene	50.0	48.3		ug/L		97	70 - 130
Ethyl methacrylate	50.0	48.8		ug/L		98	68 - 130
Hexachlorobutadiene	50.0	54.3		ug/L		109	53 - 140
2-Hexanone	200	259		ug/L		130	65 - 137
Isopropylbenzene	50.0	49.3		ug/L		99	70 - 130
Methylene bromide	50.0	47.3		ug/L		95	70 - 130
Methylene Chloride	50.0	45.9		ug/L		92	66 - 135
4-Methyl-2-pentanone (MIBK)	200	261		ug/L		130	69 - 138
Methyl tert-butyl ether	50.0	52.3		ug/L		105	66 - 130
m-Xylene & p-Xylene	50.0	46.4		ug/L		93	70 - 130
Naphthalene	50.0	55.4		ug/L		111	47 - 149
n-Butylbenzene	50.0	60.0		ug/L		120	67 - 130
N-Propylbenzene	50.0	55.2		ug/L		110	70 - 130
o-Chlorotoluene	50.0	51.7		ug/L		103	70 - 130
o-Xylene	50.0	47.1		ug/L		94	70 - 130
p-Chlorotoluene	50.0	49.9		ug/L		100	70 - 130
p-Isopropyltoluene	50.0	57.7		ug/L		115	65 - 130
sec-Butylbenzene	50.0	55.5		ug/L		111	66 - 130
Styrene	50.0	47.5		ug/L		95	70 - 130
tert-Butylbenzene	50.0	49.7		ug/L		99	64 - 139
1,1,1,2-Tetrachloroethane	50.0	48.4		ug/L		97	67 - 131
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/L		106	70 - 131
Tetrachloroethene	50.0	43.4		ug/L		87	65 - 130
Toluene	50.0	45.5		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	43.5		ug/L		87	70 - 130
trans-1,3-Dichloropropene	50.0	46.8		ug/L		94	63 - 130
1,2,3-Trichlorobenzene	50.0	54.3		ug/L		109	60 - 138
1,2,4-Trichlorobenzene	50.0	56.5		ug/L		113	60 - 140
1,1,1-Trichloroethane	50.0	42.8		ug/L		86	68 - 130
1,1,2-Trichloroethane	50.0	49.3		ug/L		99	70 - 130
Trichloroethene	50.0	49.9		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	19.6		ug/L		78	65 - 138

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

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

Lab Sample ID: LCS 400-699827/1002

Matrix: Water

Analysis Batch: 699827

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.0	54.3		ug/L		109	70 - 130
1,2,4-Trimethylbenzene	50.0	54.8		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	50.0	53.1		ug/L		106	69 - 130
Vinyl acetate	50.0	65.1		ug/L		130	26 - 150
Vinyl chloride	25.0	23.2		ug/L		93	59 - 136
Xylenes, Total	100	93.4		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		56 - 136
Dibromofluoromethane	93		79 - 130
Toluene-d8 (Surr)	92		64 - 132

Lab Sample ID: 400-271052-2 MS

Matrix: Water

Analysis Batch: 699827

Client Sample ID: MW16-ROX-021425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	ND		200	110		ug/L		55	43 - 150
Acrolein	ND		500	363		ug/L		73	38 - 150
Acrylonitrile	ND		500	699		ug/L		140	62 - 149
Benzene	ND		50.0	47.8		ug/L		96	56 - 142
Bromobenzene	ND		50.0	42.3		ug/L		85	59 - 136
Bromochloromethane	ND		50.0	47.3		ug/L		95	64 - 140
Bromodichloromethane	ND		50.0	48.1		ug/L		96	59 - 143
Bromoform	ND		50.0	45.0		ug/L		90	50 - 140
Bromomethane	ND		50.0	29.8		ug/L		60	10 - 150
2-Butanone (MEK)	ND		200	150		ug/L		75	55 - 150
Carbon disulfide	ND		50.0	31.7		ug/L		63	48 - 150
Carbon tetrachloride	ND		50.0	42.9		ug/L		86	55 - 145
Chlorobenzene	ND		50.0	42.5		ug/L		85	64 - 130
Chloroethane	ND	F1	50.0	22.9	F1	ug/L		46	50 - 150
2-Chloroethyl vinyl ether	ND	*+ F1	50.0	ND	F1	ug/L		0	10 - 150
Chloroform	ND		50.0	44.0		ug/L		88	60 - 141
1-Chlorohexane	ND		50.0	41.1		ug/L		82	56 - 136
Chloromethane	ND	F1	50.0	23.0	F1	ug/L		46	49 - 148
cis-1,2-Dichloroethene	ND		50.0	52.4		ug/L		105	59 - 143
cis-1,3-Dichloropropene	ND		50.0	50.0		ug/L		100	57 - 140
Dibromochloromethane	ND		50.0	45.7		ug/L		91	56 - 143
1,2-Dichlorobenzene	ND		50.0	42.3		ug/L		85	52 - 137
1,3-Dichlorobenzene	ND		50.0	41.4		ug/L		83	54 - 135
1,4-Dichlorobenzene	ND		50.0	41.1		ug/L		82	53 - 135
Dichlorodifluoromethane	ND		50.0	12.7		ug/L		25	16 - 150
1,1-Dichloroethane	ND		50.0	51.9		ug/L		104	61 - 144
1,2-Dichloroethane	ND		50.0	47.7		ug/L		95	60 - 141
1,1-Dichloroethene	ND		50.0	43.7		ug/L		87	54 - 147
1,2-Dichloropropane	ND		50.0	59.2		ug/L		118	66 - 137
1,3-Dichloropropane	ND		50.0	50.6		ug/L		101	66 - 133
2,2-Dichloropropane	ND		50.0	43.4		ug/L		87	42 - 144

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QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

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

Lab Sample ID: 400-271052-2 MS

Matrix: Water

Analysis Batch: 699827

Client Sample ID: MW16-ROX-021425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	ND		50.0	46.3		ug/L		93	65 - 136
Ethylbenzene	ND		50.0	40.7		ug/L		81	58 - 131
Ethyl methacrylate	ND		50.0	51.0		ug/L		102	64 - 130
Hexachlorobutadiene	ND		50.0	30.2		ug/L		60	31 - 149
2-Hexanone	ND		200	199		ug/L		99	65 - 140
Isopropylbenzene	ND		50.0	38.7		ug/L		77	56 - 133
Methylene bromide	ND		50.0	47.7		ug/L		95	63 - 138
Methylene Chloride	ND		50.0	47.2		ug/L		94	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	278		ug/L		139	63 - 146
Methyl tert-butyl ether	ND		50.0	54.5		ug/L		109	59 - 137
m-Xylene & p-Xylene	ND		50.0	38.4		ug/L		77	57 - 130
Naphthalene	ND		50.0	46.9		ug/L		94	25 - 150
n-Butylbenzene	ND		50.0	37.8		ug/L		76	41 - 142
N-Propylbenzene	ND		50.0	40.6		ug/L		81	51 - 138
o-Chlorotoluene	ND		50.0	41.2		ug/L		82	53 - 134
o-Xylene	ND		50.0	39.9		ug/L		80	61 - 130
p-Chlorotoluene	ND		50.0	40.1		ug/L		80	54 - 133
p-Isopropyltoluene	ND		50.0	40.2		ug/L		80	48 - 139
sec-Butylbenzene	ND		50.0	39.3		ug/L		79	50 - 138
Styrene	ND		50.0	40.2		ug/L		80	58 - 131
tert-Butylbenzene	ND		50.0	37.5		ug/L		75	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	43.9		ug/L		88	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	54.7		ug/L		109	66 - 135
Tetrachloroethene	ND		50.0	36.8		ug/L		74	52 - 133
Toluene	ND		50.0	41.6		ug/L		83	65 - 130
trans-1,2-Dichloroethene	ND		50.0	43.3		ug/L		87	61 - 143
trans-1,3-Dichloropropene	ND		50.0	44.2		ug/L		88	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	39.2		ug/L		78	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	38.6		ug/L		77	39 - 148
1,1,1-Trichloroethane	ND		50.0	43.2		ug/L		86	57 - 142
1,1,2-Trichloroethane	ND		50.0	50.1		ug/L		100	66 - 131
Trichloroethene	ND		50.0	45.3		ug/L		91	64 - 136
Trichlorofluoromethane	ND	F1	50.0	17.0	F1	ug/L		34	54 - 150
1,2,3-Trichloropropane	ND		50.0	55.2		ug/L		110	65 - 133
1,2,4-Trimethylbenzene	ND		50.0	41.5		ug/L		83	50 - 139
1,3,5-Trimethylbenzene	ND		50.0	40.3		ug/L		81	52 - 135
Vinyl acetate	ND		100	65.7		ug/L		66	26 - 150
Vinyl chloride	ND	F1	50.0	20.7	F1	ug/L		41	46 - 150
Xylenes, Total	ND		100	78.3		ug/L		78	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	102		56 - 136
Dibromofluoromethane	97		79 - 130
Toluene-d8 (Surr)	95		64 - 132

QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

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

Lab Sample ID: 400-271052-2 MSD

Matrix: Water

Analysis Batch: 699827

Client Sample ID: MW16-ROX-021425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND		200	110		ug/L		55	43 - 150	0	30
Acrolein	ND		500	359		ug/L		72	38 - 150	1	31
Acrylonitrile	ND		500	691		ug/L		138	62 - 149	1	30
Benzene	ND		50.0	45.8		ug/L		92	56 - 142	4	30
Bromobenzene	ND		50.0	38.1		ug/L		76	59 - 136	10	30
Bromochloromethane	ND		50.0	46.3		ug/L		93	64 - 140	2	30
Bromodichloromethane	ND		50.0	45.4		ug/L		91	59 - 143	6	30
Bromoform	ND		50.0	42.7		ug/L		85	50 - 140	5	30
Bromomethane	ND		50.0	27.1		ug/L		54	10 - 150	9	50
2-Butanone (MEK)	ND		200	149		ug/L		74	55 - 150	1	30
Carbon disulfide	ND		50.0	30.6		ug/L		61	48 - 150	4	30
Carbon tetrachloride	ND		50.0	41.5		ug/L		83	55 - 145	3	30
Chlorobenzene	ND		50.0	39.3		ug/L		79	64 - 130	8	30
Chloroethane	ND	F1	50.0	20.4	F1	ug/L		41	50 - 150	11	30
2-Chloroethyl vinyl ether	ND	*+ F1	50.0	ND	F1	ug/L		0	10 - 150	NC	50
Chloroform	ND		50.0	42.9		ug/L		86	60 - 141	3	30
1-Chlorohexane	ND		50.0	37.4		ug/L		75	56 - 136	9	30
Chloromethane	ND	F1	50.0	23.2	F1	ug/L		46	49 - 148	1	31
cis-1,2-Dichloroethene	ND		50.0	51.2		ug/L		102	59 - 143	2	30
cis-1,3-Dichloropropene	ND		50.0	49.0		ug/L		98	57 - 140	2	30
Dibromochloromethane	ND		50.0	42.8		ug/L		86	56 - 143	7	30
1,2-Dichlorobenzene	ND		50.0	38.1		ug/L		76	52 - 137	10	30
1,3-Dichlorobenzene	ND		50.0	36.7		ug/L		73	54 - 135	12	30
1,4-Dichlorobenzene	ND		50.0	36.7		ug/L		73	53 - 135	11	30
Dichlorodifluoromethane	ND		50.0	12.9		ug/L		26	16 - 150	2	31
1,1-Dichloroethane	ND		50.0	50.4		ug/L		101	61 - 144	3	30
1,2-Dichloroethane	ND		50.0	46.2		ug/L		92	60 - 141	3	30
1,1-Dichloroethene	ND		50.0	42.4		ug/L		85	54 - 147	3	30
1,2-Dichloropropane	ND		50.0	58.0		ug/L		116	66 - 137	2	30
1,3-Dichloropropane	ND		50.0	48.5		ug/L		97	66 - 133	4	30
2,2-Dichloropropane	ND		50.0	42.6		ug/L		85	42 - 144	2	31
1,1-Dichloropropene	ND		50.0	44.5		ug/L		89	65 - 136	4	30
Ethylbenzene	ND		50.0	37.1		ug/L		74	58 - 131	9	30
Ethyl methacrylate	ND		50.0	49.1		ug/L		98	64 - 130	4	30
Hexachlorobutadiene	ND		50.0	25.6		ug/L		51	31 - 149	16	36
2-Hexanone	ND		200	196		ug/L		98	65 - 140	2	30
Isopropylbenzene	ND		50.0	35.1		ug/L		70	56 - 133	10	30
Methylene bromide	ND		50.0	46.7		ug/L		93	63 - 138	2	30
Methylene Chloride	ND		50.0	45.7		ug/L		91	60 - 146	3	32
4-Methyl-2-pentanone (MIBK)	ND		200	274		ug/L		137	63 - 146	1	30
Methyl tert-butyl ether	ND		50.0	53.1		ug/L		106	59 - 137	3	30
m-Xylene & p-Xylene	ND		50.0	34.9		ug/L		70	57 - 130	10	30
Naphthalene	ND		50.0	45.6		ug/L		91	25 - 150	3	30
n-Butylbenzene	ND		50.0	32.7		ug/L		65	41 - 142	15	31
N-Propylbenzene	ND		50.0	35.0		ug/L		70	51 - 138	15	30
o-Chlorotoluene	ND		50.0	35.9		ug/L		72	53 - 134	14	30
o-Xylene	ND		50.0	36.5		ug/L		73	61 - 130	9	30
p-Chlorotoluene	ND		50.0	35.3		ug/L		71	54 - 133	13	30

Eurofins Pensacola

QC Sample Results

Client: AECOM
Project/Site: AECOM ROXANA QUARTERLY GW

Job ID: 400-271052-1

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

Lab Sample ID: 400-271052-2 MSD

Matrix: Water

Analysis Batch: 699827

Client Sample ID: MW16-ROX-021425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
p-Isopropyltoluene	ND		50.0	34.2		ug/L		68	48 - 139	16	30
sec-Butylbenzene	ND		50.0	34.1		ug/L		68	50 - 138	14	30
Styrene	ND		50.0	36.7		ug/L		73	58 - 131	9	30
tert-Butylbenzene	ND		50.0	32.8		ug/L		66	54 - 146	13	30
1,1,1,2-Tetrachloroethane	ND		50.0	40.7		ug/L		81	59 - 137	7	30
1,1,2,2-Tetrachloroethane	ND		50.0	50.4		ug/L		101	66 - 135	8	30
Tetrachloroethene	ND		50.0	33.8		ug/L		68	52 - 133	9	30
Toluene	ND		50.0	39.0		ug/L		78	65 - 130	7	30
trans-1,2-Dichloroethene	ND		50.0	41.5		ug/L		83	61 - 143	4	30
trans-1,3-Dichloropropene	ND		50.0	42.6		ug/L		85	53 - 133	4	30
1,2,3-Trichlorobenzene	ND		50.0	36.1		ug/L		72	43 - 145	8	30
1,2,4-Trichlorobenzene	ND		50.0	34.9		ug/L		70	39 - 148	10	30
1,1,1-Trichloroethane	ND		50.0	42.1		ug/L		84	57 - 142	3	30
1,1,2-Trichloroethane	ND		50.0	48.1		ug/L		96	66 - 131	4	30
Trichloroethene	ND		50.0	43.2		ug/L		86	64 - 136	5	30
Trichlorofluoromethane	ND	F1	50.0	17.6	F1	ug/L		35	54 - 150	3	30
1,2,3-Trichloropropane	ND		50.0	51.8		ug/L		104	65 - 133	6	30
1,2,4-Trimethylbenzene	ND		50.0	35.8		ug/L		72	50 - 139	15	30
1,3,5-Trimethylbenzene	ND		50.0	35.5		ug/L		71	52 - 135	13	30
Vinyl acetate	ND		100	65.0		ug/L		65	26 - 150	1	33
Vinyl chloride	ND	F1	50.0	21.1	F1	ug/L		42	46 - 150	2	30
Xylenes, Total	ND		100	71.4		ug/L		71	59 - 130	9	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	102		56 - 136
Dibromofluoromethane	97		79 - 130
Toluene-d8 (Surr)	93		64 - 132

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)☐

1

[illegible]

Login Sample Receipt Checklist

Client: AECOM

Job Number: 400-271052-1

Login Number: 271052

List Source: Eurofins Pensacola

List Number: 1

Creator: Pardonner, Brett

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1°C IR8
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: AECOM

Job ID: 400-271052-1

Project/Site: AECOM ROXANA QUARTERLY GW

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

Appendix D

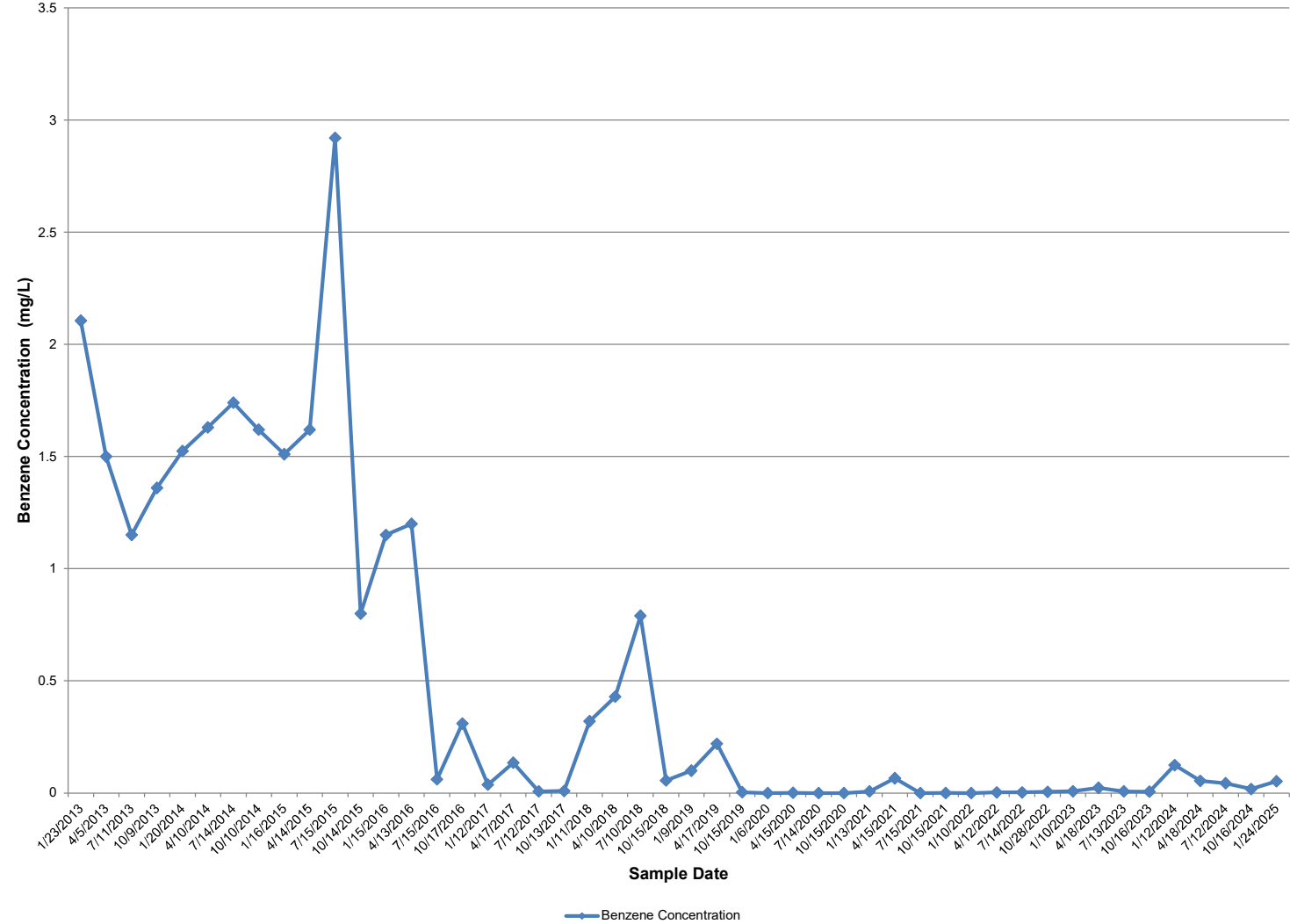
Appendix D – 1 Charts – Benzene Concentrations Over Time

Appendix D – 2 GWSDAT Charts

- **4th Street area – MW-22, ROST-4 PZ(C), P-59, and T-12**
- **Public Works Yard area – MW-7, MW-8, MW-25, and P-57**

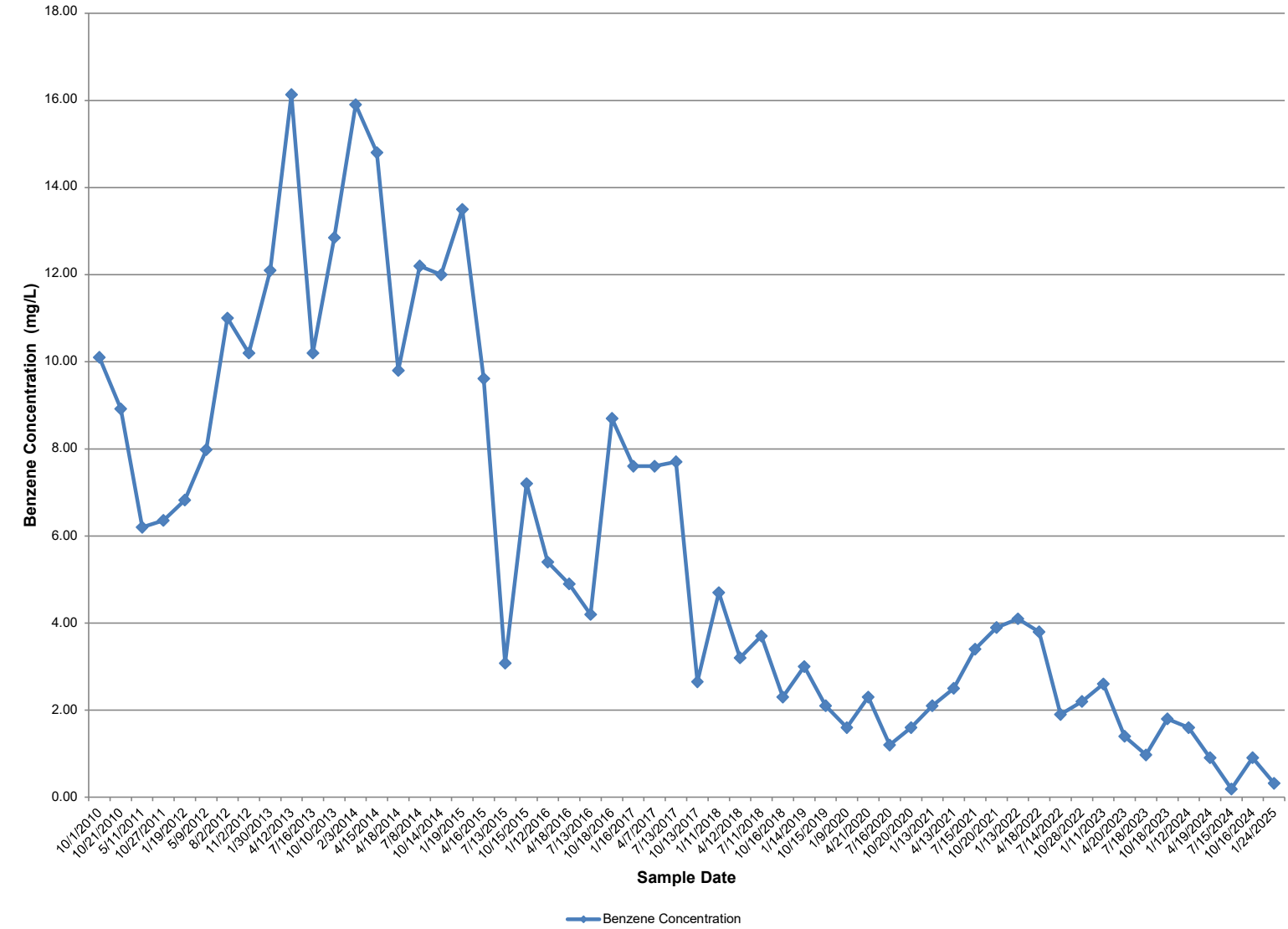
4th Street Area

Benzene Concentrations Over Time - MW-22



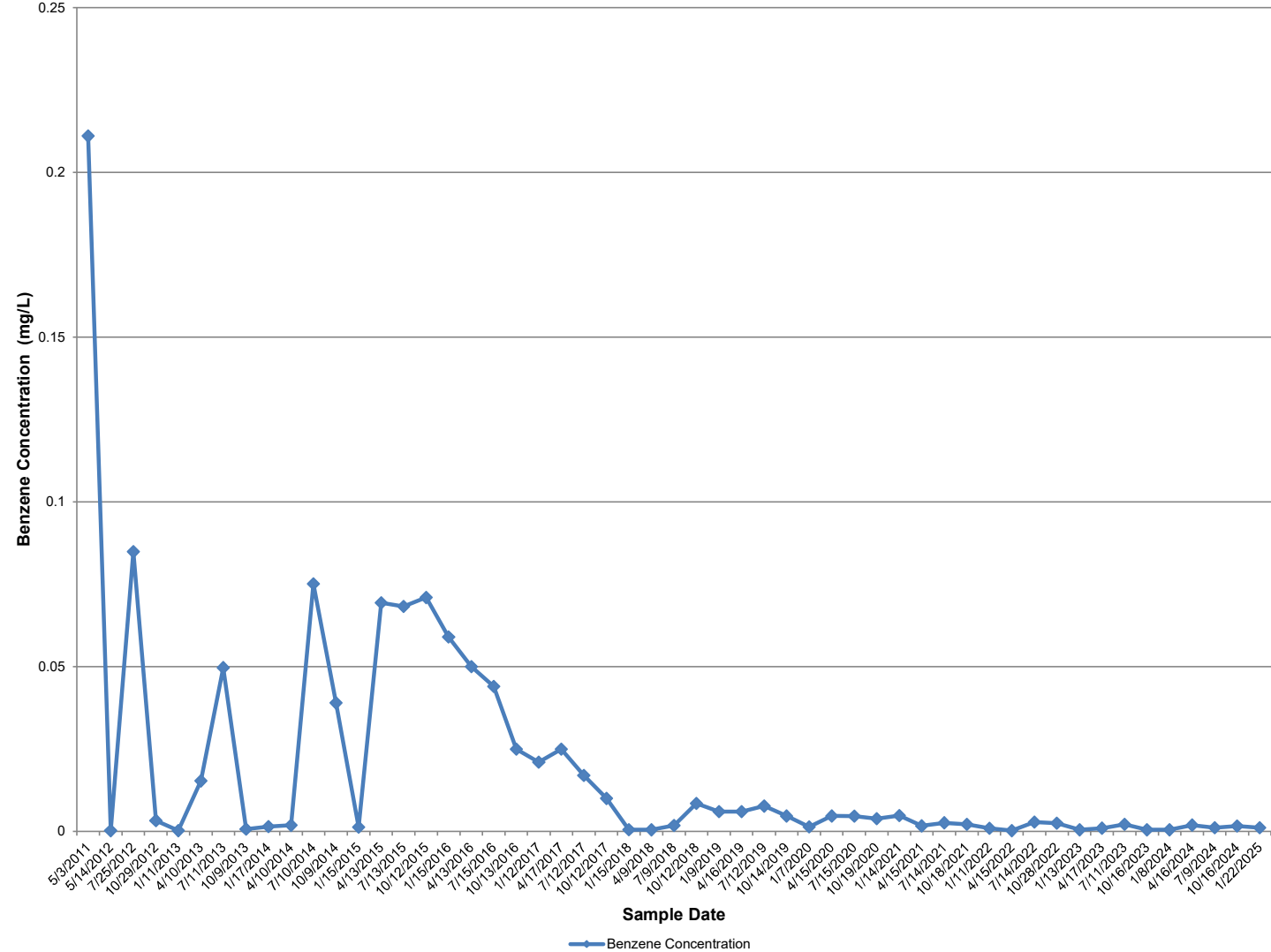
Notes:
mg/L = milligrams per liter
Duplicate values were averaged.
Timeframe specific to available data.
Non-detect values are shown at half the reporting limit.

Benzene Concentrations Over Time - P-59



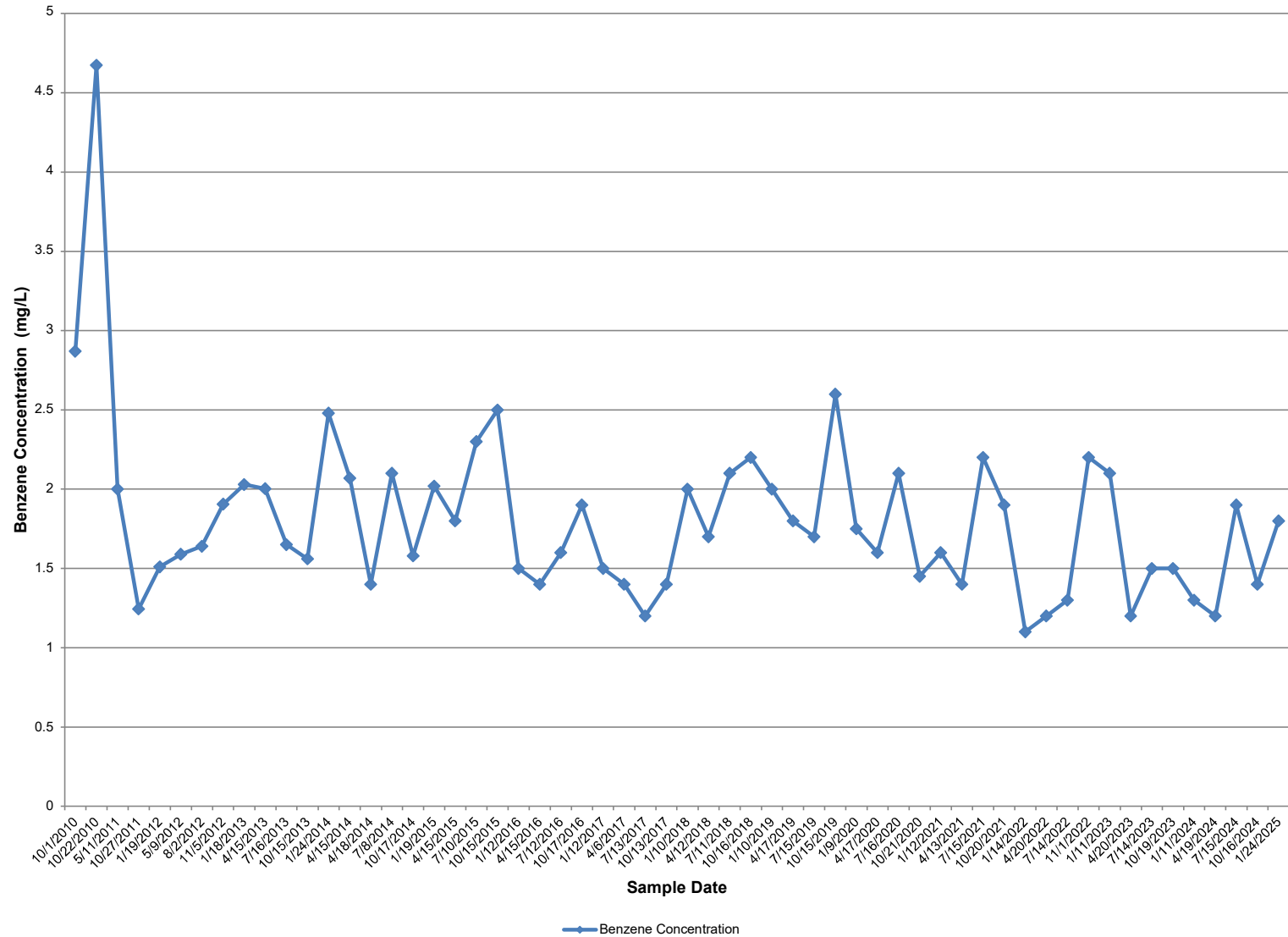
Notes:
mg/L = milligrams per liter
Duplicate values were averaged.
Timeframe specific to available data.

Benzene Concentrations Over Time - ROST-4-PZ(C)



Notes:
mg/L = milligrams per liter
Duplicate values were averaged.
Timeframe specific to available data.
Non-detect values are shown at half the reporting limit.

Benzene Concentrations Over Time - T-12



Notes:

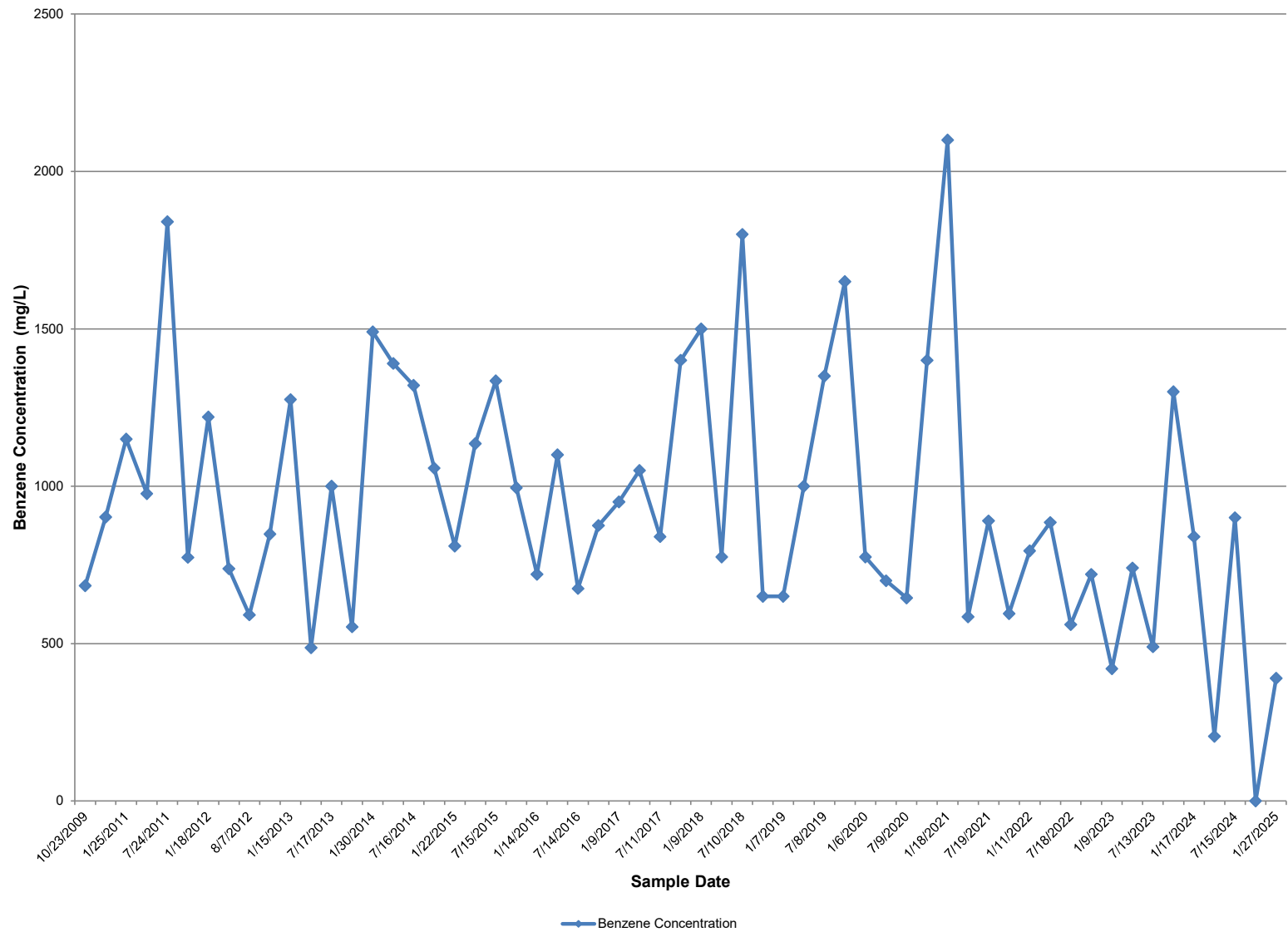
mg/L = milligrams per liter

Duplicate values were averaged.

Timeframe specific to available data.

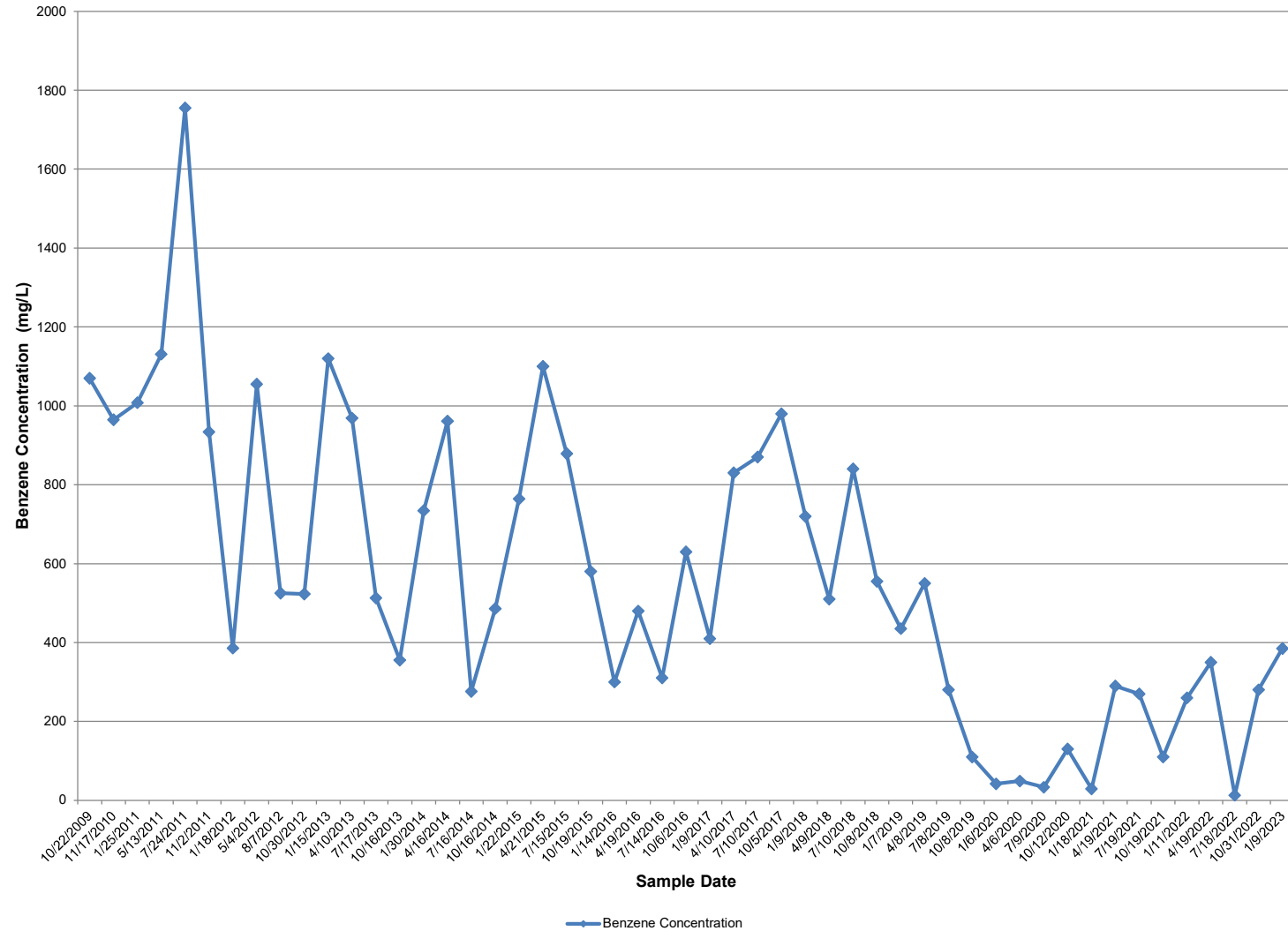
Public Works Yard Area

Benzene Concentrations Over Time - MW-07



Notes:
mg/L = milligrams per liter
Duplicate values were averaged.
Timeframe specific to available data.

Benzene Concentrations Over Time - MW-08



Notes:

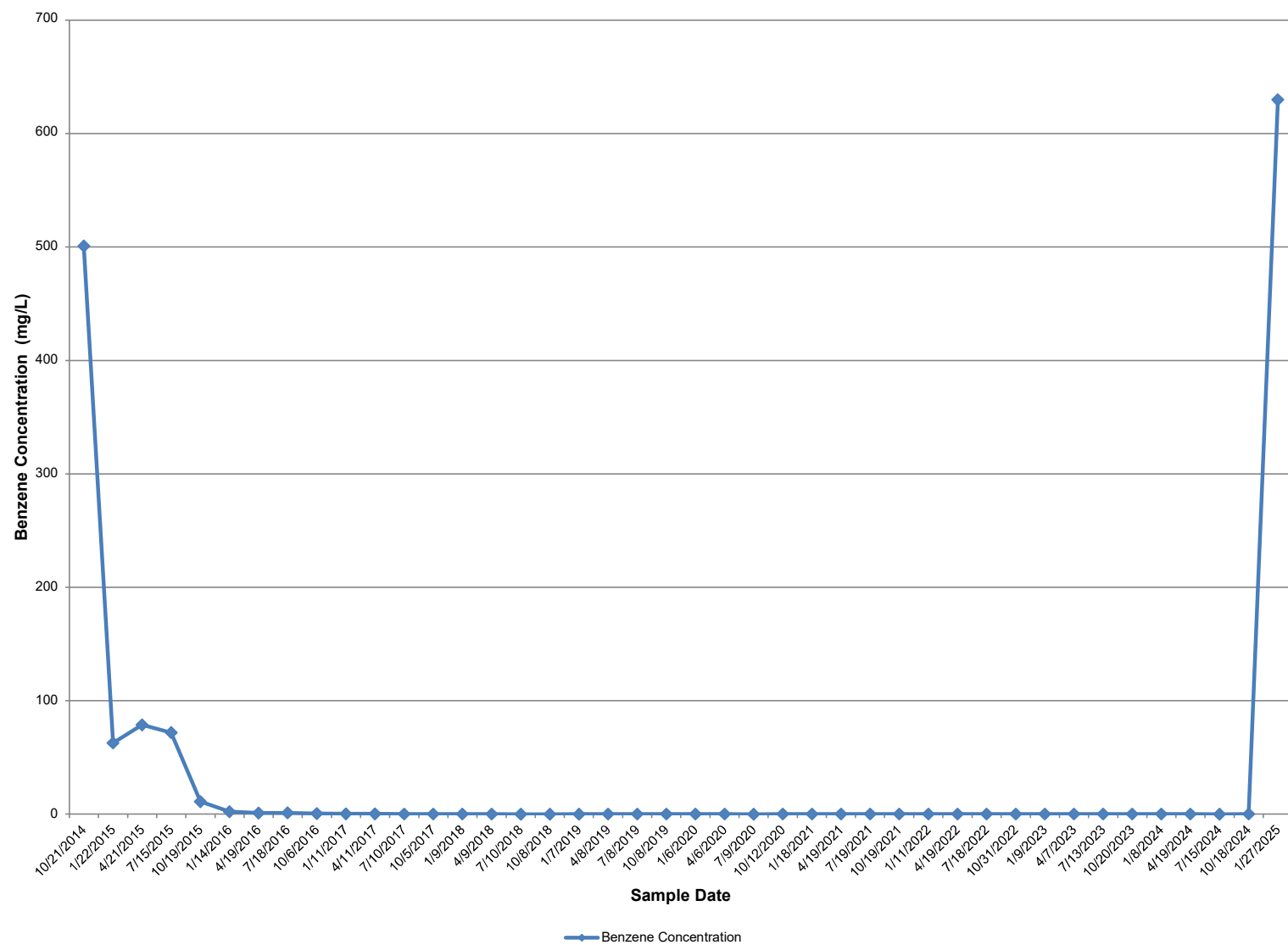
mg/L = milligrams per liter

Duplicate values were averaged.

Timeframe specific to available data.

Well MW-8 was abandoned on January 10, 2023 after 1Q23 quarterly sampling. Abandonment of MW-8 was approved with conditions in the August 22, 2022 IEPA letter (IEPA 2022) in response to the PWY SEE Work Plan (AECOM 2022a); installation of MW-8A and MW-8B is planned as part of the post-SEE system activities.

Benzene Concentrations Over Time - MW-25



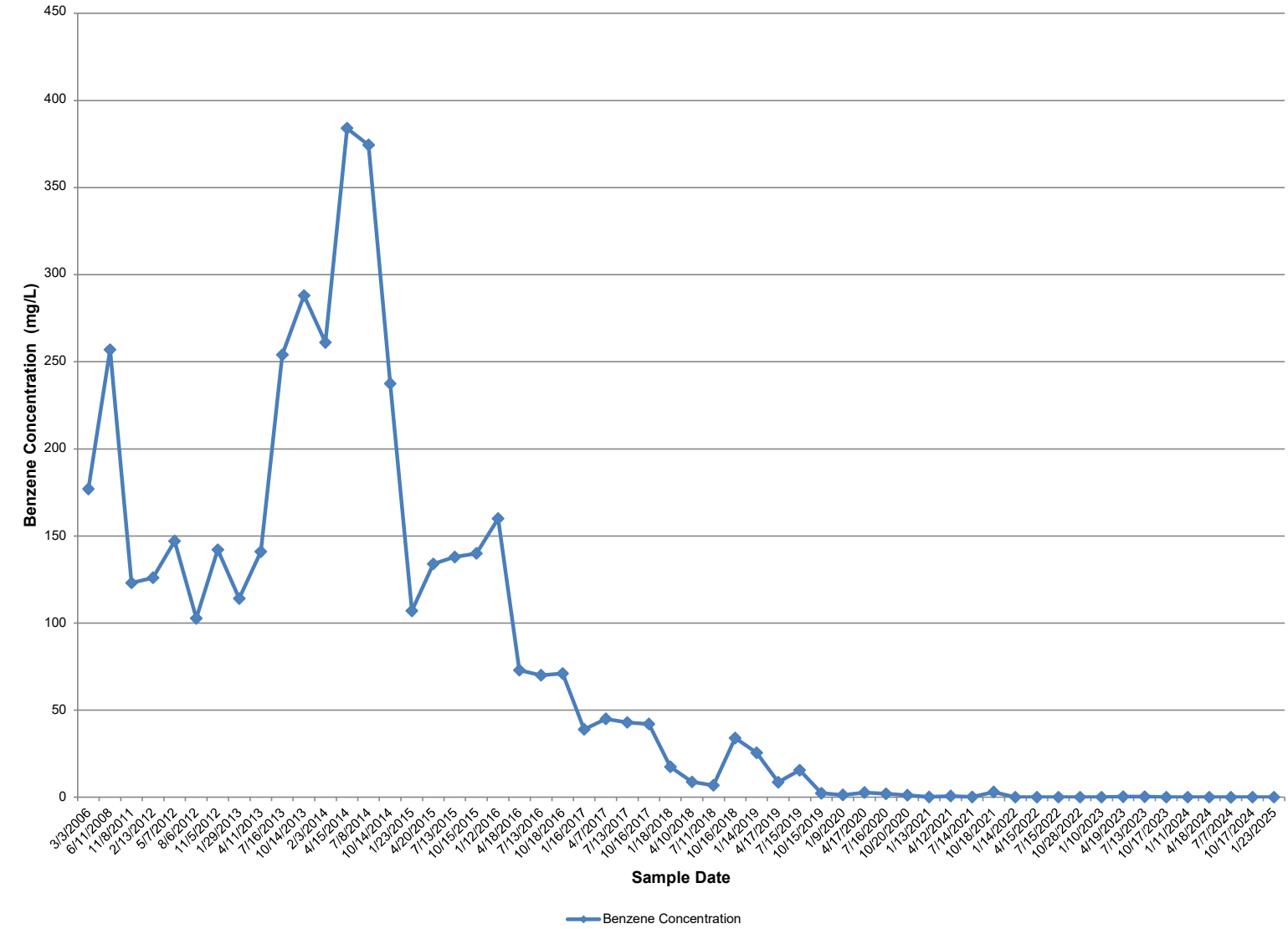
Notes:

mg/L = milligrams per liter

Duplicate values were averaged.

Timeframe specific to available data.

Benzene Concentrations Over Time - P-57



Notes:
mg/L = milligrams per liter
Duplicate values were averaged.
Timeframe specific to available data.

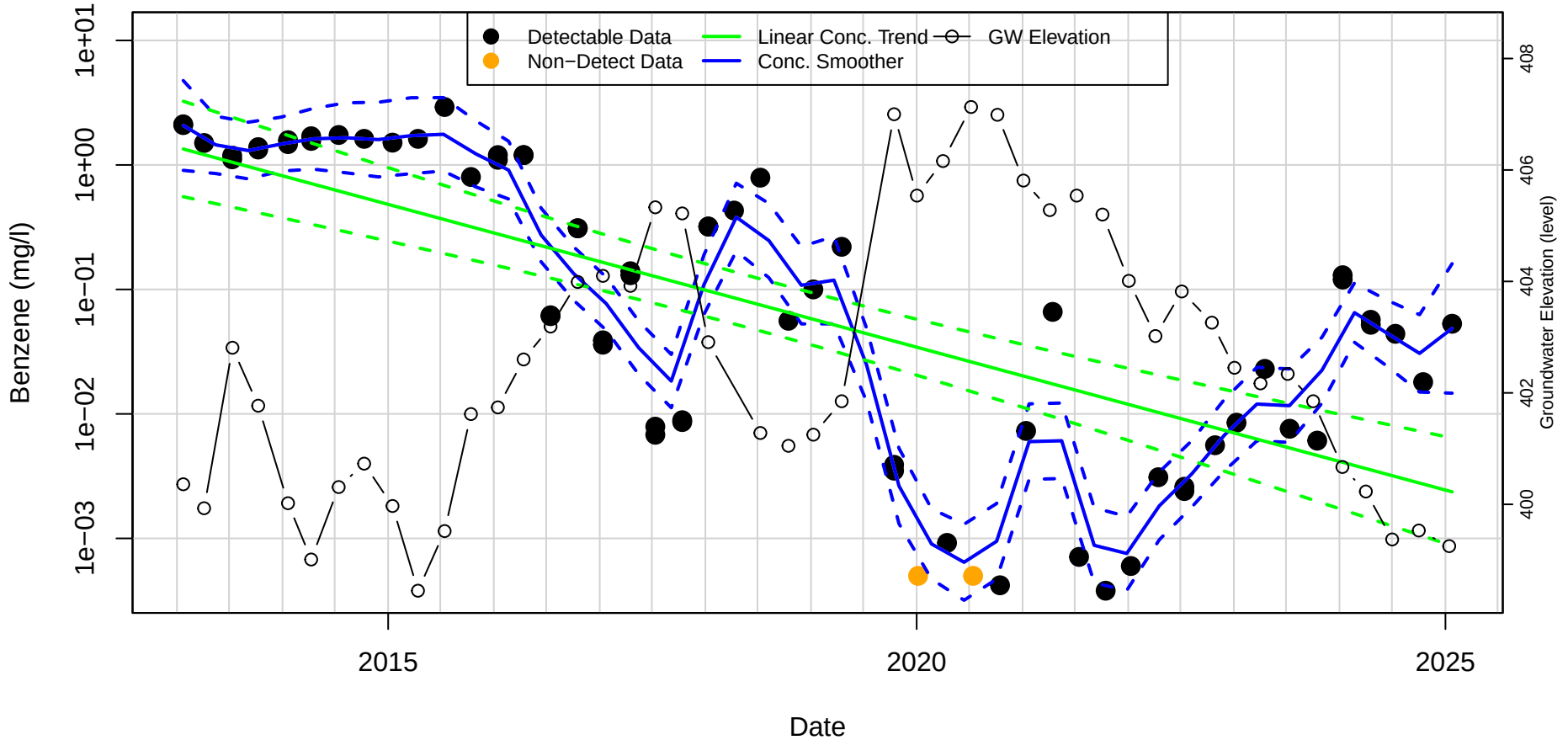
GWSDAT Summary/Legend

Black Solid Data Points	=	Detections
Orange Solid Data Points	=	Non-Detects
Black-Hollow Data Points	=	Groundwater Elevation
Solid Blue Line	=	Smoothed estimate of the mean trend
Dashed Blue Line	=	95% confidence interval around the estimated mean trend
Solid Green Line	=	Linear trend estimate (Mann-Kendall Analysis)
Dashed Green Line	=	95% confidence interval around linear trend estimate

4th Street Area

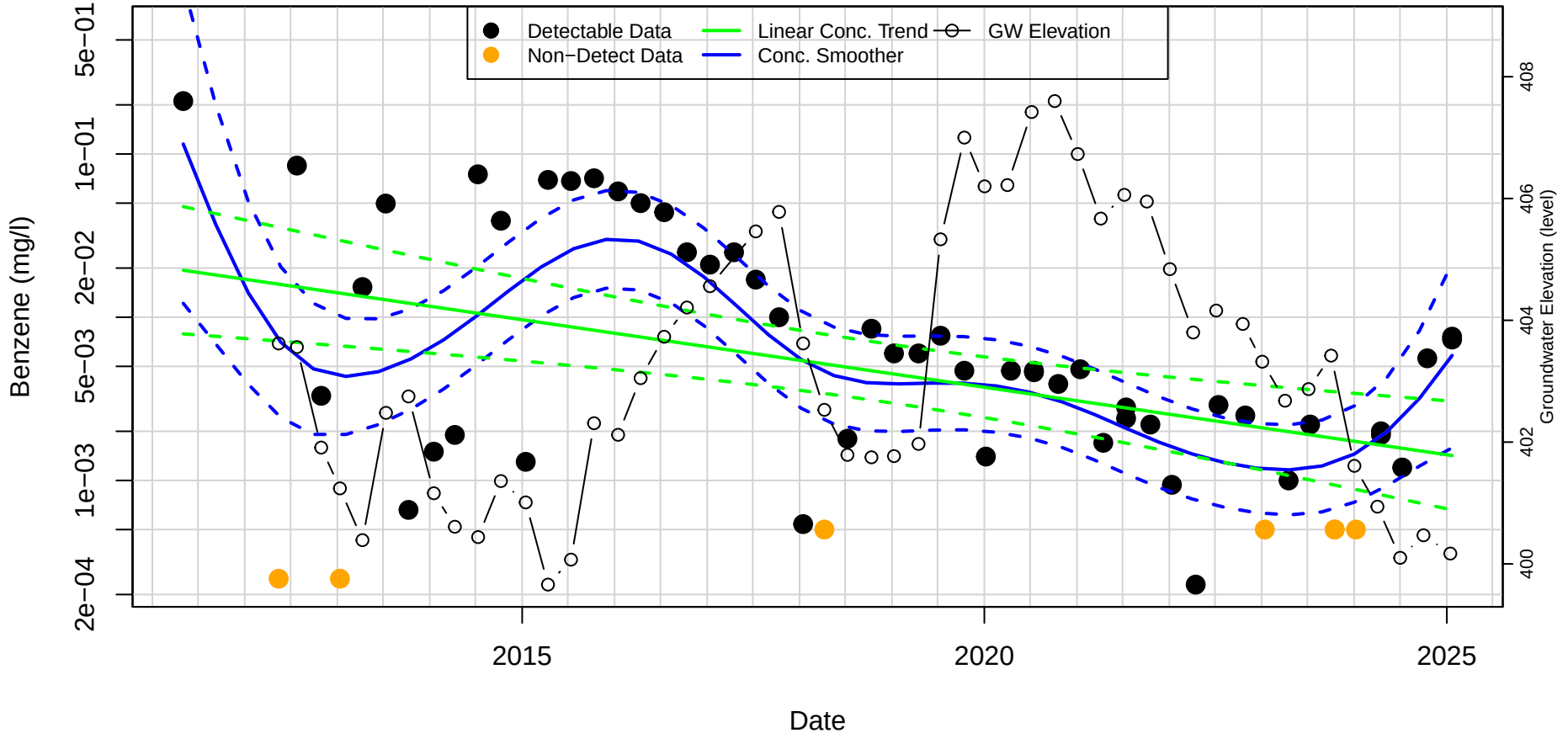
Benzene in MW-22 : Aquifer-Main Sand

Mann-Kendall P.Value= <0.01; Half-Life= 479 days



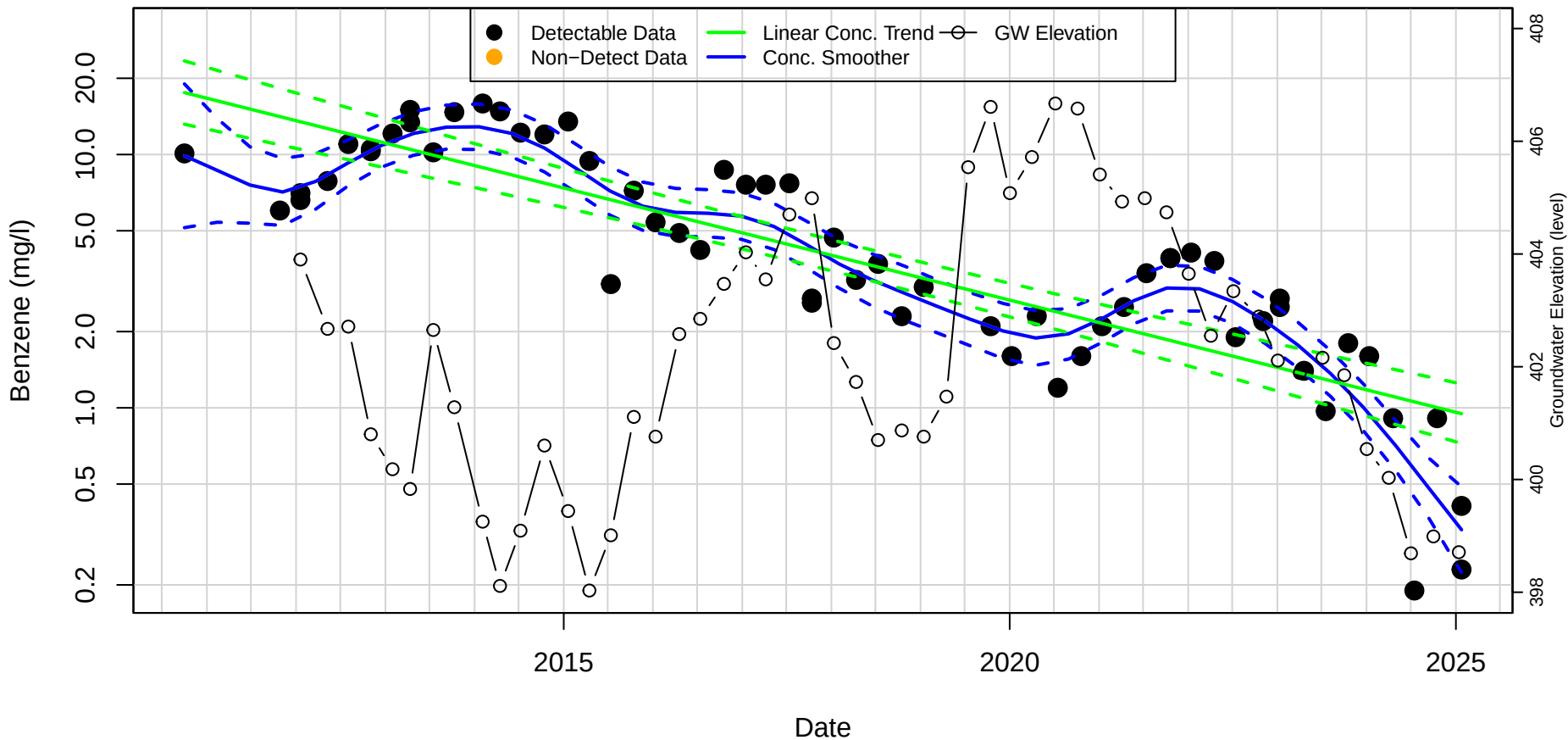
Benzene in ROST-4-PZ(C) : Aquifer-Main Sand

Mann-Kendall P.Value= <0.01; Half-Life= 1329 days



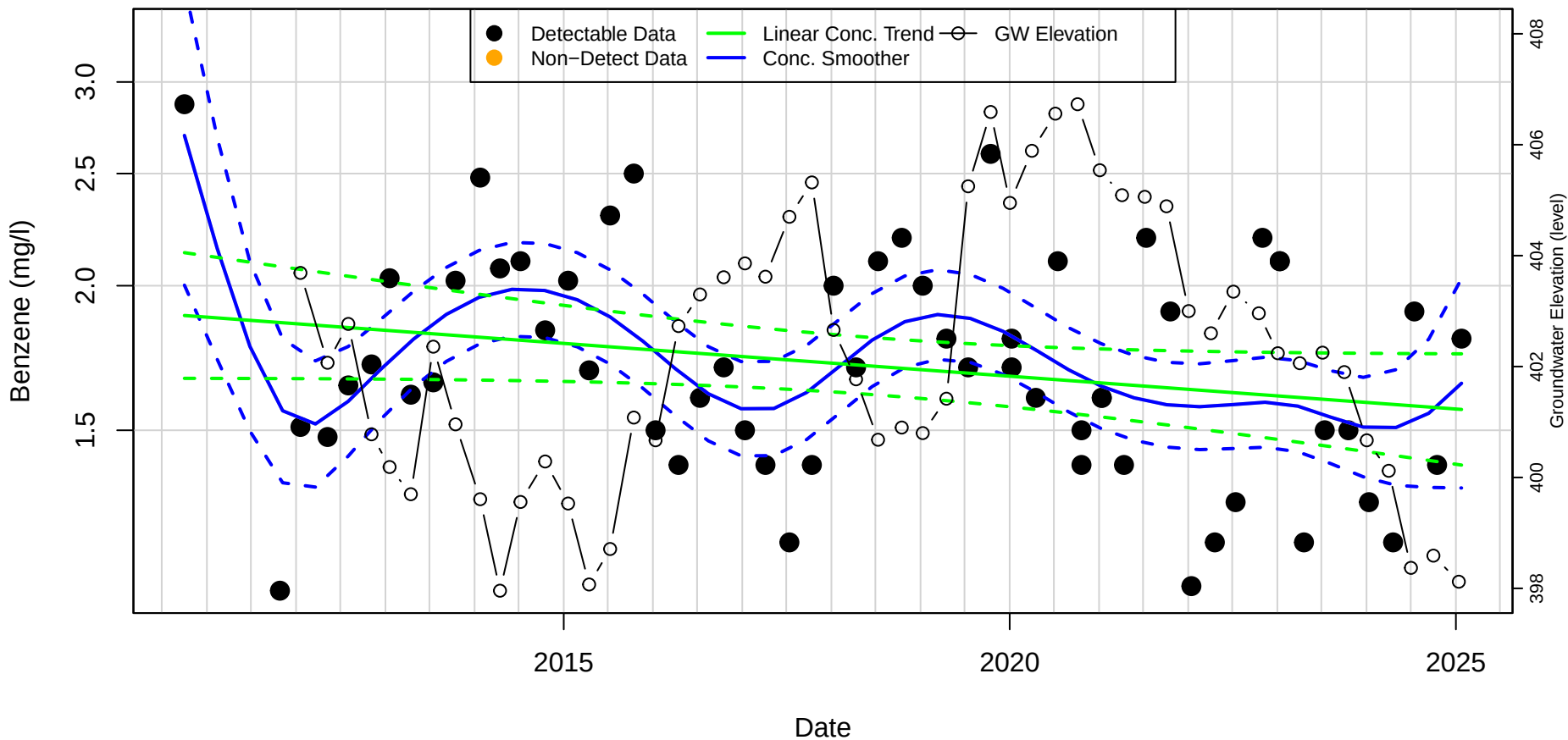
Benzene in P-59 : Aquifer-Main Sand

Mann-Kendall P.Value= <0.01; Half-Life= 1242 days



Benzene in T-12 : Aquifer-Main Sand

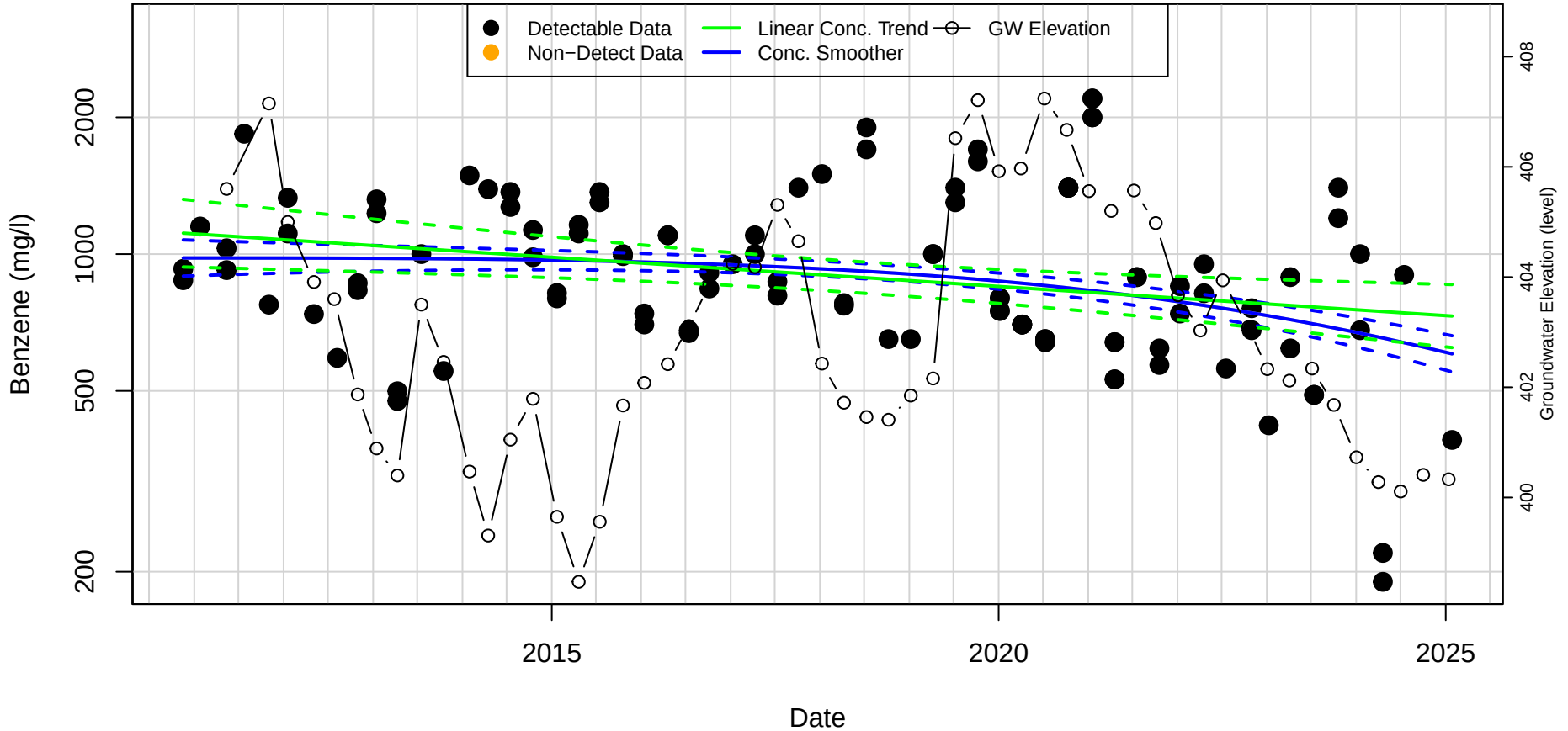
Mann-Kendall P.Value= 0.0947; Half-Life> 5 Years



Public Works Yard Area

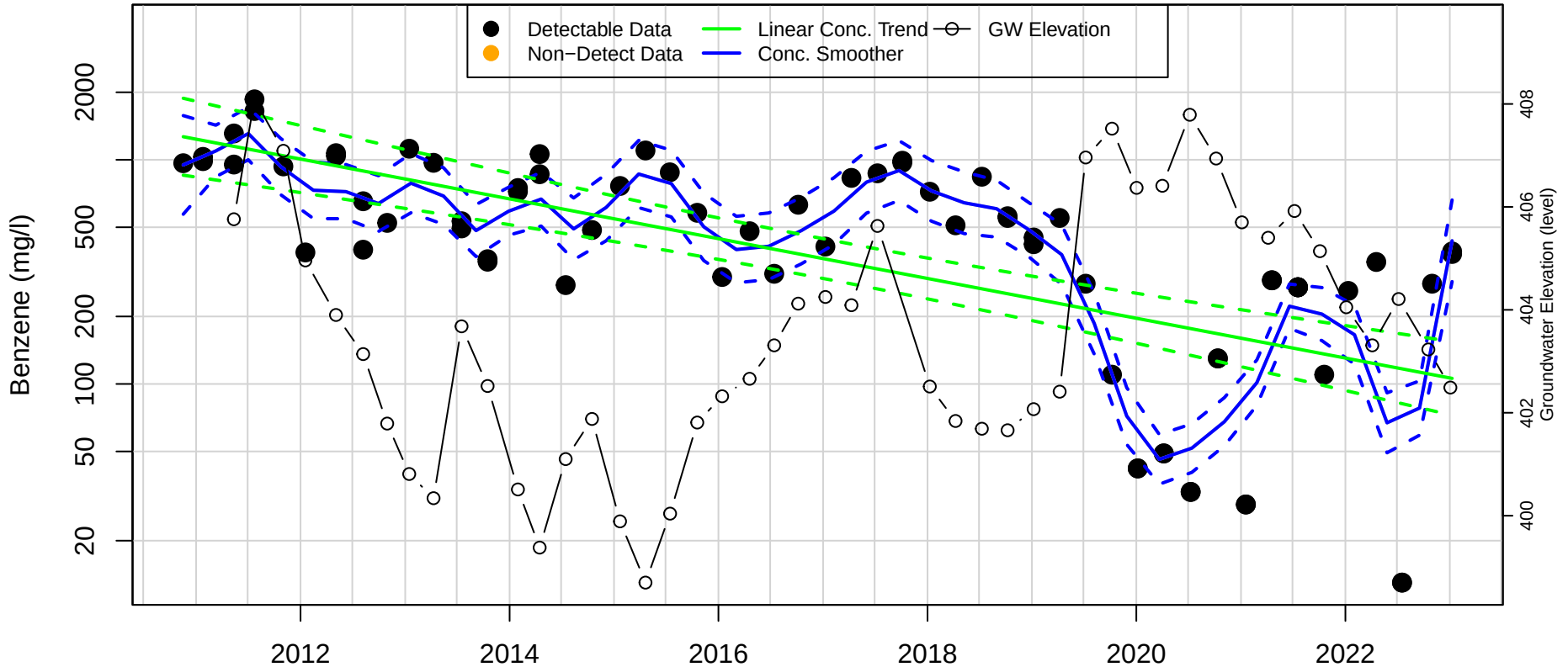
Benzene in MW-07 : Aquifer-Main Sand

Mann-Kendall P.Value= <0.01; Half-Life> 5 Years



Benzene in MW-08 : Aquifer-Main Sand

Mann-Kendall P.Value= <0.01; Half-Life= 1239 days

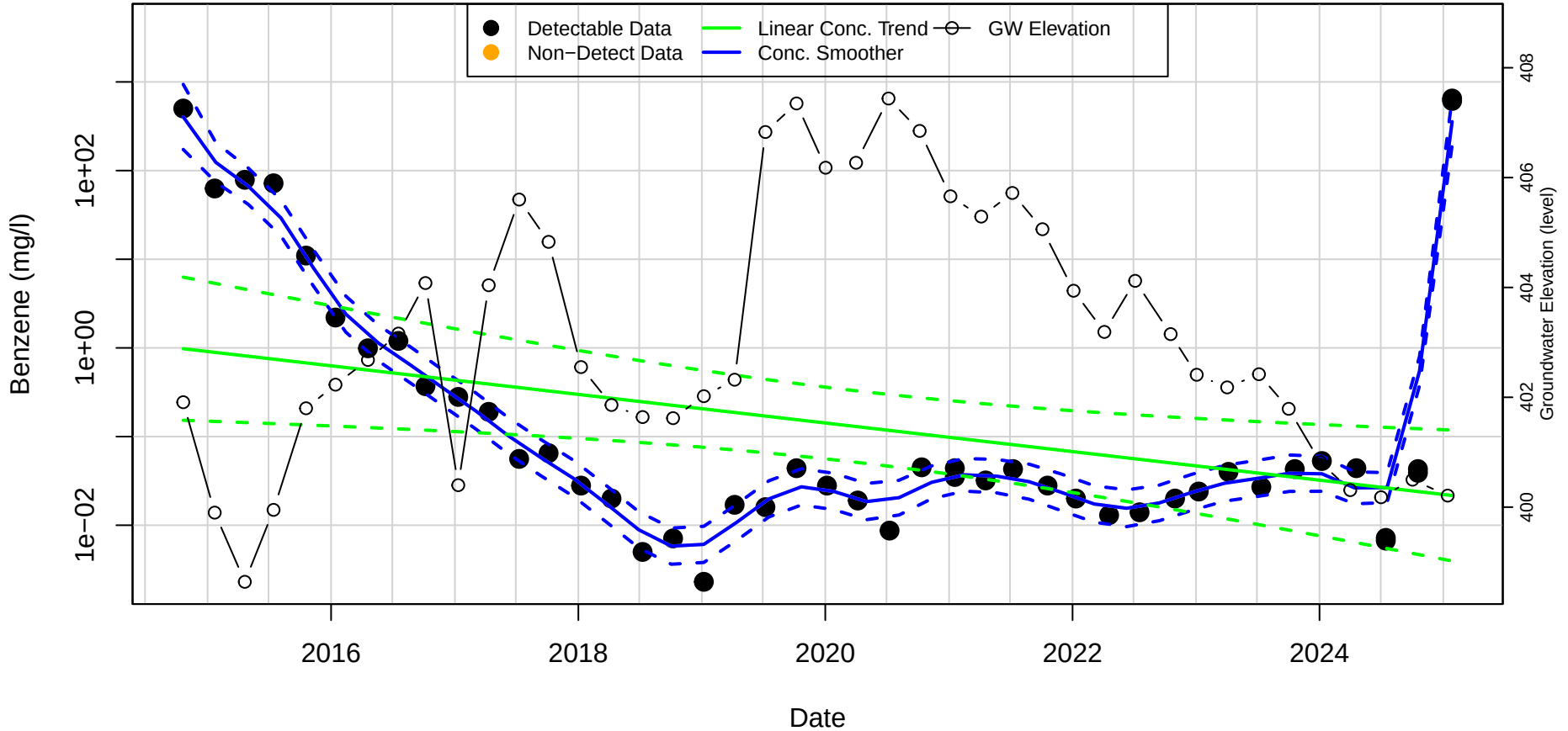


Note: Well MW-8 was abandoned on January 10, 2023 after 1Q23 quarterly sampling. Abandonment of MW-8 was approved with conditions in the August 22, 2022 IEPA letter (IEPA 2022) in response to the PWY SEE Work Plan (AECOM 2022a).

Date

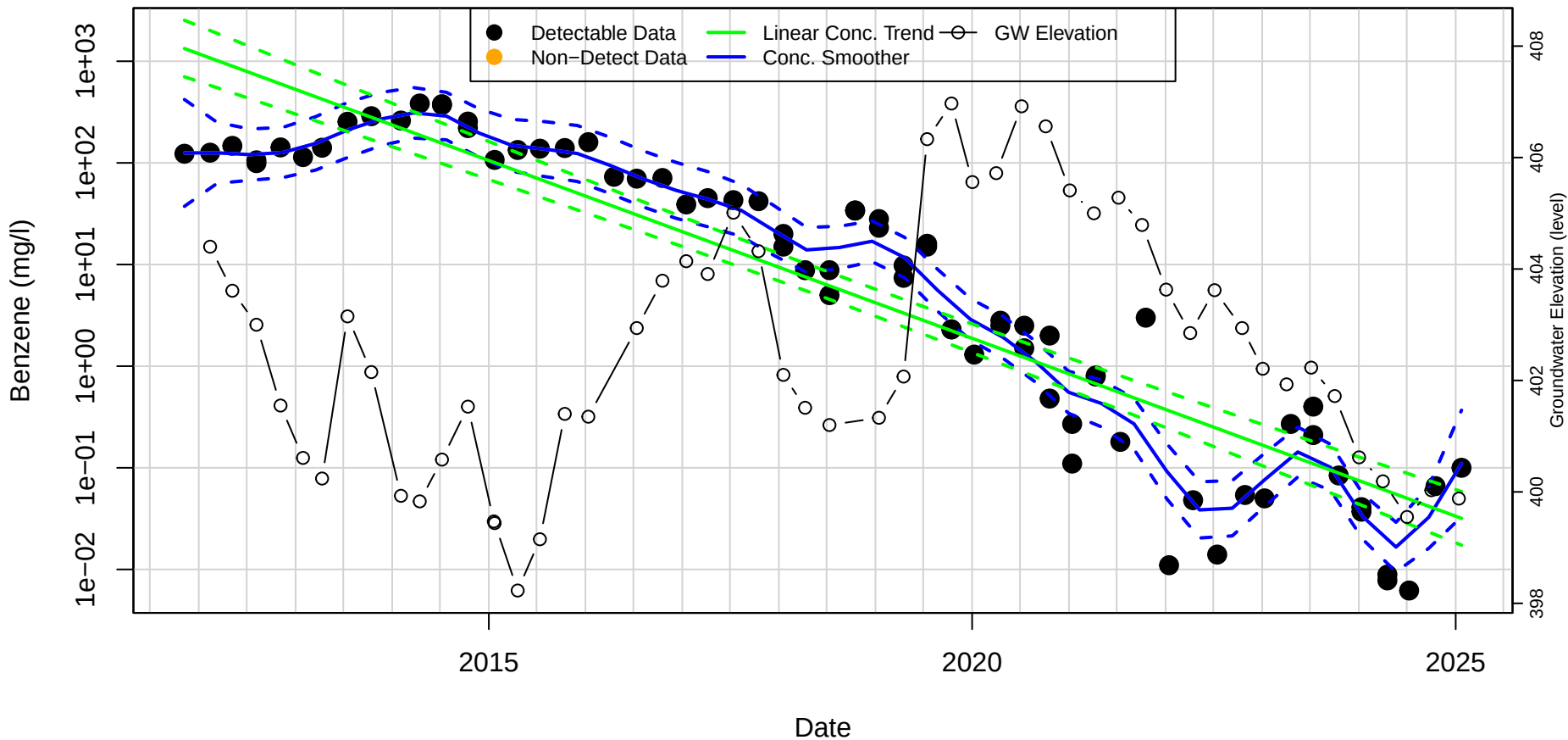
Benzene in MW-25 : Aquifer-Main Sand

Mann-Kendall P.Value= <0.01; Half-Life= 682 days



Benzene in P-57 : Aquifer-Main Sand

Mann-Kendall P.Value= <0.01; Half-Life= 314 days



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