



***Fourth Quarter 2024 Monitoring Report  
Former Johnson Oil  
280 E Columbia River Highway  
Clatskanie, Oregon***

**Prepared for:  
Oregon Department of Environmental Quality  
Task Order No. 066-23-20**

**March 11, 2025  
32-24008422/Task 3**



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280 E Columbia River Highway  
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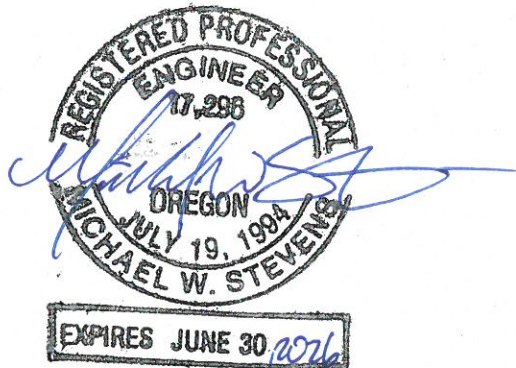
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## **1.0 Introduction**

This *Fourth Quarter 2024 Monitoring Report* describes the field activities and presents the results of a groundwater monitoring event completed in October 2024 at the Former Johnson Oil property and the adjacent property currently occupied by Turning Point Community Service Center (the Site; Figures 1 and 2) located at 280 East Columbia River Highway in Clatskanie, Oregon. The Site is located adjacent to the Clatskanie River in Columbia County. The monitoring event was conducted for the Oregon Department of Environmental Quality (DEQ) under Task 2 of Task Order No. 066-23-20, and this report was prepared under Task 3. The Site is listed in DEQ's Leaking Underground Storage Tank (LUST) database as LUST ID 05-87-0033.

### **1.1 Scope of Work**

The scope of work was completed in accordance with the *Supplemental Site Investigation Work Plan* (Work Plan; Apex Companies, LLC [Apex], 2022). The scope of work for this monitoring event includes collection and analysis of groundwater samples from 10 existing monitoring wells.

### **1.2 Deviations from Scope of Work**

Monitoring well MW-8 was not accessible during this monitoring event and was not sampled. The asphalt concrete parking lot where the well is located had been refinished and the well was paved over. Concentrations of petroleum hydrocarbons in MW-8 since May 2023 have been reported below DEQ's applicable risk-based concentrations (RBCs) and/or the laboratory detection limit; therefore, a lack of continued sampling data from this monitoring well is not considered to present a data gap. If future monitoring of nearby wells, indoor soil vapor, and/or ambient air data indicate continued sampling of this well is warranted, the well will be uncovered and monitoring resumed. The location of MW-8 will be recorded using a high-accuracy handheld global positioning system (GPS) unit during the next monitoring event. This will allow the well and monument to be uncovered for continued monitoring or decommissioning in the future.

## **2.0 Background**

This section presents a description of the Site, its geology and hydrogeology, and previous work that has been done at the Site.

### **2.1 Site Location and Description**

The Site is located on an approximately 0.26-acre parcel (Figures 1 and 2) near the center of the City of Clatskanie on the south bank of the Clatskanie River and is bounded to the south by the Columbia River Highway (Hwy 30). The Site includes the former service station property and the adjacent property occupied

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by Turning Point Community Service Center (Turning Point). The former Johnson Oil property is improved with a vacant former service station with a canopy. Turning Point adjoins the former Johnson Oil property to the north and west, and the property to the east is currently vacant (formerly a produce market that burned down). The Site and surrounding properties are zoned commercial, but the zoning rules allow for residential use in conjunction with commercial use. To prevent residential use of the Turning Point or former Johnson Oil properties, restrictions were placed on the property deeds through Easement and Equitable Servitudes (E&ES) in October and December 2024, respectively. The E&ES also restricts use of groundwater for consumption or other beneficial uses and requires use of engineering controls to mitigate potential vapor intrusion risk for new construction, implementation of a contaminated media management plan (finalized February 2023), and maintenance of the above controls for Site occupancy.

## **2.2 Geology and Hydrogeology**

The Site is located approximately 18 feet above mean sea level, and topography is generally level but slopes steeply down to the Clatskanie River along the north side of the Site. The Site is located within the Oregon Coast Range and is underlain by unconsolidated Quaternary alluvial deposits of silt and interbedded sand lenses to a depth of approximately 50 feet below ground surface (bgs). Sandstone and siltstone of the Astoria Formation underlie the alluvial deposits (Orr, 1999). Based on boring logs associated with Site investigations, near surface geology generally consists of gravelly fill material to a depth of 1 to 5 feet bgs overlying sand.

Shallow groundwater is present beneath the Site at depths ranging from approximately 1 foot bgs on the northwestern portion of the Site to 10 feet bgs adjacent to the river and on the southwestern side of the Site. Groundwater generally flows toward the Clatskanie River with a less pronounced southwesterly component and may be tidally influenced. Some of the groundwater monitoring wells at the Site exhibit slow recovery based on data collected in 2019 through 2024.

## **2.3 Summary of Prior Work**

Petroleum product in the form of light non-aqueous phase liquid (LNAPL) was encountered during underground storage tank (UST) decommissioning activities at the Site in July 1987. The release of an unknown quantity of petroleum was reported to DEQ, and the Site was assigned LUST number 05-87-0033. Prior removal/remedial actions have included decommissioning of the former Johnson Oil dispensers, piping, and USTs (by removal, except for one tank decommissioned in place) and an Interim Removal Action Measure (IRAM) conducted in 2022 to excavate contaminated soil near the riverbank (see Figure 2). Access to areas of contaminated soil during the 2022 IRAM was limited due to underground utilities and existing building foundations. Therefore, contaminated soil and groundwater remain onsite. However, petroleum contaminants are monitored quarterly to ensure conditions are protective for current occupants and uses.

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## **3.0 Field Activities**

### **3.1 Pre-Investigation Activities**

**Site Health and Safety Plan.** A Site-specific health and safety plan (HASP) was prepared for the field activities and included in Appendix B of the Work Plan. The HASP was prepared in general accordance with the Occupational Safety and Health Administration (OSHA) and the Oregon Administrative Rules (OAR). A copy of the HASP was maintained onsite during the field activities.

**Property Access.** DEQ obtained access agreements with Columbia County (the Former Johnson Oil property owner) and Turning Point for access to the Site for monitoring activities. Prior to each monitoring event, DEQ notifies Columbia County and Turning Point of the upcoming sampling.

### **3.2 Groundwater Monitoring**

**Groundwater Levels.** On October 21, 2024, groundwater levels were measured using an electronic water level indicator for monitoring wells MW-4 through MW-7, MW-9, and MW-12 through MW-15 (as noted above, MW-8 was not accessible). Wells were opened and the water level was allowed to equilibrate before the measurements were taken. The depth to groundwater was measured in each well to the nearest 0.01 foot. The depth to groundwater and groundwater elevations (to an arbitrary assumed Site datum) are presented in Table 1. Water level documentation is included in Appendix A, and historical elevations are presented in Appendix B.

**Groundwater Sampling.** Samples were collected using a peristaltic pump and low-flow protocols. New tubing was used on each monitoring well. Field parameters collected during sampling included temperature, pH, conductivity, dissolved oxygen concentration (DO), and oxidation-reduction potential (ORP). Field parameters are summarized in Table 1. Groundwater monitoring documentation is included in Appendix A.

Groundwater samples were submitted to Pace Analytical National located in Mount Juliet, Tennessee for analysis. Sample analysis was conducted on a standard turnaround time. Groundwater samples were analyzed for gasoline-range total petroleum hydrocarbons (TPH-G) by Northwest Method NWTPH-Gx and for volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260D.

### **3.3 Handling of Investigation-Derived Waste**

Investigation-derived waste (IDW) consisted of purge water and decontamination water. IDW water was placed in a 55-gallon drum and temporarily stored inside the former service station building, where it is pending characterization, disposal profiling, and removal from the Site. The container was labeled with the project name, general contents, and date. Disposable items, such as sample tubing, gloves, paper towels, etc., were placed in plastic bags after use and deposited in trash receptacles for disposal.

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## **4.0 Results**

### **4.1 Groundwater Levels**

The groundwater elevations and elevation contours are presented in Figure 3. In general, the October 2024 groundwater elevation data suggest a significantly variable groundwater flow across the Site with relatively higher groundwater levels in the central portion of the Site and radially outward flow (to the north, east, and south). Hydraulic gradients range from 0.06 feet per foot (ft/ft) toward the south to 0.18 ft/ft toward the north (toward the Clatskanie River). Groundwater nearer the Clatskanie River may be tidally influenced, though the river stage information is not available for comparison. The groundwater flow direction and gradients observed during the October 2024 monitoring event are consistent with previous events.

### **4.2 Field Parameters**

Consistent with prior monitoring events, Site monitoring wells (except for MW-9) typically have low DO and negative ORP measurements, suggesting an anaerobic and reducing environment. These values are consistent with groundwater in the vicinity of a hydrocarbon plume influenced by microbial degradation (as the available oxygen is being consumed by the microorganisms during the degradation process). The low concentrations of DO in eight of the nine wells limits the rate of continued degradation that can be occurring.

In MW-9, the DO and ORP values are higher than observed in the other Site wells, consistent with previous monitoring events. The measurements are indicative of an aerobic and oxidizing environment. This suggests that groundwater in the vicinity of MW-9 is less influenced by the microbial degradation process. Furthermore, the combination of the higher DO and ORP, the low concentrations of detected analytes (discussed below), and the relatively lower groundwater elevation observed in MW-9 suggests that the well may be influenced by groundwater-surface water interaction with the adjacent Clatskanie River. However, there isn't enough data available to complete a hydrogeologic assessment and distinguish any specific relationship between the aquifer and the river, nor is there enough to compare results to the regional aquifer outside of the influence of the petroleum plume. In addition, the field parameters measured in monitoring wells MW-14 and MW-15, which are approximately equidistant from the river as monitoring well MW-9, do not exhibit the same variation as the field parameters observed in MW-9, although the groundwater elevation is higher in these monitoring wells (further highlighting the unique nature of MW-9).

### **4.3 Chemical Analysis**

The analytical results and risk screening of the groundwater samples collected in October 2024 are summarized below. The concentrations were screened against the risk-based concentrations (RBCs) that correspond to the potentially complete exposure pathways published in *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (DEQ, updated June 2023) including:

- Groundwater to indoor air occupational receptor ( $RBC_{wi}$ ); and

- 
- Groundwater in excavations for the construction and excavation worker receptor (RBC<sub>we</sub>);

Copies of the analytical laboratory reports are included in Appendix C along with a quality assurance/quality control (QA/QC) review of the data. The results of the data quality review indicate that the data are of acceptable quality and are suitable for their intended purpose.

#### **4.3.1 Analytical Results**

Groundwater analytical results are presented in Table 2 and summarized in Figure 4 for the October 2024 groundwater monitoring event. Historical groundwater analytical results are presented in Appendix B.

**Total Petroleum Hydrocarbons.** TPH-G was detected in eight of nine groundwater samples collected during the October 2024 monitoring event. Detected TPH-G concentrations during this monitoring event ranged from 299 micrograms per liter (µg/L; MW-13) to 24,500 µg/L (MW-12). TPH-G detections exceeded the acute groundwater to indoor air volatilization RBC of 520 µg/L in seven of the nine samples. The TPH-G concentration in the sample collected from MW-12 also exceeded the direct contact RBC of 14,000 µg/L for groundwater in excavations for construction and excavation workers.

The TPH-G concentrations were variable compared to the previous monitoring event, with increases in MW-4, , MW-14, and MW-15, decreases in MW-5 and MW-6, and results similar to the previous monitoring event in wells MW-7, MW-9, and MW-13. The TPH-G concentration in MW-12 decreased by 70 percent as compared to the July 2024 monitoring event and is the lowest concentration observed in this well, while the TPH-G concentration in MW-14 increased by 71 percent over the same period and is the relatively highest concentration observed in this well. The sample collected from monitoring well MW-12 exceeds the concentrations observed in other monitoring wells by at least one order of magnitude, consistent with previous monitoring events. Trend plots of historical TPH-G concentrations over the previous two years (March 2023 to November 2024) are provided in Appendix B.

A preliminary statistical evaluation was also completed on the TPH-G data for wells that had at least seven detected concentrations over the prior two-year period, including the October 2024 sampling event. This evaluation includes simple statistics (minimum, maximum, and mean concentrations; standard deviation; and coefficient of variation), a Mann-Kendall statistical trend test, linear regressions of concentration versus time (over the last two years), the concentration differential (as a percentage) between the long-term average concentration and those observed in October 2024, and the numerical ranking that the October 2024 data falls within based on the range of historically observed data. These statistical metrics are shown on Table D-1 in Appendix D, with the intent of assessing whether there are any trends or tendencies in the data set for each individual monitoring well. As shown on the table, none of the monitoring wells have a statistically significant trend in the data; however, four of the wells (MW-4, MW-12, MW-13, and MW-15) show an overall tendency for decreasing concentrations based on the linear regression (though the regression does not account for the significant variability observed in the data sets).

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Inspection of the trend plots for each well in relative position across the Site also shows significant variability without any observed pattern or definitive relationship between data sets. Overall, there does not appear to be any spatial or temporal trend in the groundwater data.

**Volatile Organic Compounds.** One or more petroleum VOCs (benzene, ethylbenzene, xylenes, and naphthalene) were detected at concentrations that exceed the RBCs in eight of the nine groundwater samples collected in October 2024. The exceedances are as follows:

- The benzene RBC for the acute groundwater to indoor air pathway (12 µg/L) was exceeded in eight groundwater samples, and the RBC for the chronic pathway (650 µg/L) was exceeded in two samples;
- The benzene RBC for groundwater in excavations (1,800 µg/L) was exceeded in one sample (MW-12);
- The ethylbenzene RBC for the acute groundwater to indoor air pathway (31 µg/L) was exceeded in six groundwater samples;
- The total xylenes RBC for the acute groundwater to indoor air pathway (3,300 µg/L) was exceeded in one groundwater sample (MW-12); and
- The naphthalene RBC for the acute groundwater to indoor air pathway (50 µg/L) was exceeded in three groundwater samples.

Similar to TPH-G, concentrations in MW-12 were significantly lower as compared to the July 2024 event but were higher than other Site wells. Concentrations decreased as compared to the previous monitoring event in MW-5, MW-6, MW-12, and MW-14. The lowest recorded concentration since monitoring began was seen in MW-5 (ethylbenzene, naphthalene, and 1,3,5-trimethylbenzene), MW-6 (naphthalene), MW-12 (ethylbenzene, naphthalene, and 1,2,4-trimethylbenzene), and MW-14 (naphthalene). Despite these low concentrations, variability was seen across the Site with concentrations increasing as compared to the previous event in MW-4, MW-7, MW-13, and MW-15. The concentrations in the sample collected from monitoring well MW-9 are relatively consistent with previous monitoring events (negligible concentrations of VOCs were detected).

**BTEX.** As concentrations across the Site and within each well can be variable, the sum of benzene, toluene, ethylbenzene, and xylenes (BTEX) was calculated for each monitoring well (see Table 2). Summed concentrations can be used to track overall concentration changes over time. Trend plots in Appendix B show that BTEX concentrations have been relatively stable over the previous two-year monitoring period.

#### **4.3.2 Site Data Screening Summary**

The observed exceedances of Site-related contaminants for each exposure pathway via groundwater are summarized below. The observed vapor intrusion RBC exceedances in groundwater indicate the potential

for an unacceptable exposure to commercial site users. These exceedances were not reflected in the soil vapor or ambient air concentrations during the previous monitoring event (July 2024).

| Contaminant  | Observed RBC Exceedances   |         |                            |
|--------------|----------------------------|---------|----------------------------|
|              | Commercial Vapor Intrusion |         | Groundwater in Excavations |
|              | Acute                      | Chronic |                            |
| TPH-G        | 6                          | --      | 1                          |
| Benzene      | 8                          | 2       | 1                          |
| Ethylbenzene | 6                          | --      | --                         |
| Xylenes      | 1                          | --      | --                         |
| Naphthalene  | 3                          | --      | --                         |

**Notes:** -- = No exceedances of RBCs or RBC not established

## **5.0 Conclusions**

Based on the fourth quarter 2024 groundwater monitoring event and previous events, gasoline-range hydrocarbons and petroleum-related VOCs continue to be present at the Site and extend beneath the former Johnson Oil and Turning Point buildings.

Elevated concentrations of TPH-G and VOCs (benzene, ethylbenzene, xylenes, and naphthalene) above the commercial vapor intrusion RBCs in groundwater suggest that the presence of contaminants of concern (COCs) in indoor air detected during previous monitoring events is likely associated with groundwater contamination in the vicinity of MW-12 (east of the Turning Point building).

Petroleum and VOC concentrations have shown some variability between quarterly events; however, no pattern has been established. The overall groundwater concentrations appear to be relatively stable over the previous year of monitoring, likely due to the low DO and reducing conditions limiting the attenuation rate of petroleum concentrations in groundwater. A statistical evaluation of the data sets from the Site monitoring wells shows that there are no statistically significant trends in the data, though a simple linear regression of the prior two years of data does show a tendency for decreasing concentrations in four of the wells. (However, the data is variable enough for this tendency to be highly influenced by a few data points).

The mobility of petroleum in the subsurface may be influenced by changes to the local hydrogeology from the UST removals and/or subsequent soil excavation projects, which may be associated with higher-conductivity backfill materials. A comparison of groundwater elevations observed in 2018 with current conditions suggests that a groundwater mound is present in the vicinity of the historical IRAM which has in turn resulted in increased groundwater flow to the south, away from the river. Additional data is necessary to fully assess potential mobility across the Site and the subsequent influence on groundwater and vapor concentrations across the Site.

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Concentrations of COCs in groundwater indicate the potential for unacceptable risks associated with vapor intrusion from groundwater. Based on these elevated groundwater concentrations, monitoring will continue to ensure human health risks remain acceptable.

Cleanup activities through at least spring of 2025 will include groundwater, soil gas, and ambient air monitoring. The continued evaluation of potential remedial actions at the Site will help determine future activities.

## **6.0 References**

Apex Companies, LLC, 2022. *Supplemental Site Investigation Work Plan, Former Johnson Oil*. December 8, 2022.

Oregon Department of Environmental Quality, 2003. *Risk-Based Decision Making for the Remediation of Contaminated Sites*. September 22, 2003. Updated June 2023.

Orr, Elizabeth L. and William N. Orr, 1999. *Geology of Oregon*. January 1, 1999.

**Table 1**  
**Groundwater Elevations and Field Parameters**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well | Date       | TOC Elevation (ft <sup>1</sup> ) | Depth to Groundwater (ft BTOC)                 | Depth to Product (ft BTOC) | Product Thickness (ft) | Groundwater Elevation (ft <sup>1</sup> ) | pH   | Temperature (°C) | Conductivity (µS/cm) | Dissolved Oxygen (mg/L) | ORP (mV) |
|-----------------|------------|----------------------------------|------------------------------------------------|----------------------------|------------------------|------------------------------------------|------|------------------|----------------------|-------------------------|----------|
| MW-4            | 2/26/2024  | 94.43                            | 1.04                                           | --                         | --                     | 93.39                                    | 6.27 | 11.77            | 532                  | 0.36                    | -39.9    |
|                 | 4/8/2024   |                                  | 1.30                                           | --                         | --                     | 93.13                                    | 6.75 | 12.64            | 566                  | 1.40                    | -120.3   |
|                 | 7/22/2024  |                                  | 2.74                                           | --                         | --                     | 91.69                                    | 6.87 | 17.00            | 635                  | 0.00                    | -215.5   |
|                 | 10/21/2024 |                                  | 3.93                                           | --                         | --                     | 90.50                                    | 6.56 | 16.30            | 569                  | 0.26                    | -110.2   |
| MW-5            | 2/26/2024  | 94.30                            | 2.97                                           | --                         | --                     | 91.33                                    | 5.94 | 11.60            | 469                  | 0.32                    | 48.8     |
|                 | 4/8/2024   |                                  | 3.44                                           | --                         | --                     | 90.86                                    | 6.53 | 12.19            | 461                  | 1.11                    | -125.3   |
|                 | 7/22/2024  |                                  | 4.50                                           | --                         | --                     | 89.80                                    | 8.95 | 15.40            | 542                  | 0.00                    | -230.1   |
|                 | 10/21/2024 |                                  | 6.33                                           | --                         | --                     | 87.97                                    | 6.43 | 15.40            | 342                  | 0.23                    | -199.0   |
| MW-6            | 2/26/2024  | 95.57                            | 4.88                                           | --                         | --                     | 90.69                                    | 5.99 | 12.50            | 469                  | 0.58                    | -33.8    |
|                 | 4/8/2024   |                                  | 4.55                                           | --                         | --                     | 91.02                                    | 6.52 | 13.24            | 484                  | 1.08                    | -108.4   |
|                 | 7/22/2024  |                                  | 5.69                                           | --                         | --                     | 89.88                                    | 6.59 | 16.10            | 580                  | 0.00                    | -208.8   |
|                 | 10/21/2024 |                                  | 7.38                                           | --                         | --                     | 88.19                                    | 6.41 | 16.90            | 493                  | 0.19                    | -118.1   |
| MW-7            | 2/26/2024  | 95.04                            | 8.07                                           | --                         | --                     | 86.97                                    | 5.93 | 13.81            | 578                  | 0.77                    | -31.2    |
|                 | 4/8/2024   |                                  | 9.23                                           | --                         | --                     | 85.81                                    | 6.23 | 14.03            | 446                  | 1.37                    | -52.5    |
|                 | 7/22/2024  |                                  | 6.26                                           | --                         | --                     | 88.78                                    | 6.50 | 16.90            | 623                  | 0.00                    | -174.2   |
|                 | 10/21/2024 |                                  | 8.25                                           | --                         | --                     | 86.79                                    | 6.29 | 17.40            | 529                  | 0.17                    | -99.1    |
| MW-8            | 2/26/2024  | 96.22                            | 5.09                                           | --                         | --                     | 91.13                                    | 6.07 | 12.18            | 953                  | 0.75                    | -56.8    |
|                 | 4/8/2024   |                                  | 5.33                                           | --                         | --                     | 90.89                                    | 6.36 | 12.62            | 896                  | 0.00                    | -106.3   |
|                 | 7/22/2024  |                                  | 5.92                                           | --                         | --                     | 90.30                                    | 6.49 | 17.80            | 940                  | 0.00                    | -198.3   |
|                 | 10/21/2024 |                                  | Well Inaccessible; Covered by Asphalt Concrete |                            |                        |                                          |      |                  |                      |                         |          |
| MW-9            | 2/26/2024  | 94.54                            | 4.90                                           | --                         | --                     | 89.64                                    | 4.43 | 9.82             | 51                   | 4.33                    | 256.5    |
|                 | 4/8/2024   |                                  | 6.33                                           | --                         | --                     | 88.21                                    | 4.94 | 10.95            | 62                   | 3.96                    | 238.4    |
|                 | 7/22/2024  |                                  | 9.47                                           | --                         | --                     | 85.07                                    | 4.91 | 14.11            | 78                   | 4.19                    | 55.2     |
|                 | 10/21/2024 |                                  | 6.59                                           | --                         | --                     | 87.95                                    | 5.03 | 15.10            | 81                   | 4.10                    | 226.9    |
| MW-12           | 2/26/2024  | 99.06                            | 4.61                                           | --                         | --                     | 94.45                                    | 5.90 | 11.68            | 355                  | 0.27                    | -23.3    |
|                 | 4/8/2024   |                                  | 5.10                                           | --                         | --                     | 93.96                                    | 6.33 | 12.64            | 331                  | 1.13                    | -86.8    |
|                 | 7/22/2024  |                                  | 6.10                                           | --                         | --                     | 92.96                                    | 6.29 | 18.00            | 343                  | 0.00                    | -158.5   |
|                 | 10/21/2024 |                                  | 7.39                                           | --                         | --                     | 91.67                                    | 6.25 | 17.50            | 458                  | 0.14                    | -85.6    |
| MW-13           | 2/26/2024  | 98.28                            | 2.67                                           | --                         | --                     | 95.61                                    | 6.85 | 9.59             | 352                  | 0.56                    | -9.4     |
|                 | 4/8/2024   |                                  | 3.09                                           | --                         | --                     | 95.19                                    | 7.40 | 10.96            | 375                  | 0.00                    | -125.2   |
|                 | 7/22/2024  |                                  | 4.43                                           | --                         | --                     | 93.85                                    | 7.33 | 16.30            | 609                  | 0.00                    | -208.4   |
|                 | 10/21/2024 |                                  | 5.74                                           | --                         | --                     | 92.54                                    | 6.93 | 16.90            | 705                  | 0.22                    | -124     |
| MW-14           | 2/26/2024  | 99.28                            | 8.05                                           | --                         | --                     | 91.23                                    | 5.9  | 11.78            | 335                  | 0.65                    | -30.6    |
|                 | 4/8/2024   |                                  | 8.77                                           | --                         | --                     | 90.51                                    | 6.45 | 11.92            | 338                  | 0.00                    | -106.8   |
|                 | 7/22/2024  |                                  | 9.43                                           | --                         | --                     | 89.85                                    | 6.71 | 14.50            | 505                  | 0.37                    | -192.4   |
|                 | 10/21/2024 |                                  | 9.79                                           | --                         | --                     | 89.49                                    | 6.56 | 14.00            | 504                  | 0.12                    | -140.4   |
| MW-15           | 2/26/2024  | 100.32                           | 8.31                                           | --                         | --                     | 92.01                                    | 5.77 | 9.08             | 320                  | 0.54                    | -16.0    |
|                 | 4/8/2024   |                                  | 9.07                                           | --                         | --                     | 91.25                                    | 6.45 | 11.31            | 407                  | 0.00                    | -134.6   |
|                 | 7/22/2024  |                                  | 9.66                                           | --                         | --                     | 90.66                                    | 6.56 | 13.43            | 567                  | 0.00                    | -285.3   |
|                 | 10/21/2024 |                                  | 9.05                                           | --                         | --                     | 91.27                                    | 6.32 | 12.90            | 474                  | 0.24                    | -135.3   |

**Notes:**

1. Elevations are relative to an assumed reference datum of 100 feet (point located at the northwest corner of a concrete pad for a metal sign along Highway 30).
2. ft = feet
3. BTOC = Below Top of Casing.
4. NS = Not surveyed.
5. °C = Degrees Celsius.
6. µS/cm = MicroSiemens per centimeter
7. mg/L = Milligrams per liter.
8. ORP (mV) = Oxidation-reduction potential (millivolts).

**Table 2**  
**Groundwater Analytical Results**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well Number | Sample Date | Concentrations in µg/L |         |           |              |               |                         |             |                        |                        |        |
|------------------------|-------------|------------------------|---------|-----------|--------------|---------------|-------------------------|-------------|------------------------|------------------------|--------|
|                        |             | TPH-G                  | Benzene | Toluene   | Ethylbenzene | Total Xylenes | Methyl Tert-Butyl Ether | Naphthalene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | BTEX   |
| MW-4                   | 2/27/2024   | 3,120                  | 94.2    | <20.0     | 104          | 7.88          | <20.0                   | 130         | 4.57                   | <20.0                  | 216    |
|                        | 04/09/2024  | 3,450                  | 117     | <20.0     | 108          | <60.0         | <20.0                   | 96.2        | 2.19                   | <20.0                  | 265    |
|                        | 7/23/2024   | 3,370                  | 102     | 2.94      | 95.0         | 3.71          | <1.00                   | 173         | <1.00                  | <1.00                  | 204    |
|                        | 10/21/2024  | 6,130                  | 140     | 4.28      | 221          | 8.50          | <0.101                  | 324         | 2.87 J                 | 0.156 J                | 374    |
| MW-5                   | 2/27/2024   | 5,070                  | 147     | 13.6      | 1,080        | 61.4          | <10.0                   | 331         | 24.2                   | 3.07                   | 1,302  |
|                        | 04/09/2024  | 7,910                  | 155     | 11.1      | 970          | 51.0          | <10.0                   | 318         | 35.3                   | 1.94                   | 1,187  |
|                        | 7/23/2024   | 8,250                  | 112     | 9.17      | 536          | 29.1          | 0.141 J                 | 246         | 5.16                   | 2.10                   | 686    |
|                        | 10/21/2024  | 3,220                  | 34.4    | 2.67      | 145          | 9.70          | <0.101                  | 60.0        | 3.96 J                 | 0.527 J                | 192    |
| MW-6                   | 2/27/2024   | 4,060                  | 668     | 13.1      | 215          | 55.7          | <10.0                   | 19.6        | 3.09                   | 7.72                   | 952    |
|                        | 04/09/2024  | 6,860                  | 576     | 10.4      | 152          | 31.5          | <10.0                   | 28.5        | 2.52                   | 3.66                   | 770    |
|                        | 7/23/2024   | 7,040                  | 838     | 13.4      | 288          | 84.3          | 0.217 J                 | 24.6        | 19.3                   | 9.49                   | 1,224  |
|                        | 10/21/2024  | 3,790                  | 619     | 14.5      | 184          | 43.8          | <0.101                  | 9.13        | 2.80                   | 4.87                   | 861    |
| MW-7                   | 2/27/2024   | 1,310                  | 131     | 2.19      | 123          | 236           | 17.4                    | 10.3        | 19.4                   | 11.8                   | 492    |
|                        | 04/09/2024  | 2,350                  | 112     | 2.42      | 87.8         | 294           | 14.9                    | 4.15        | 11.8                   | 14.5                   | 496    |
|                        | 7/23/2024   | 1,610                  | 53.4    | 2.06      | 29.3         | 51.6          | 26.7                    | 5.37        | 10.0                   | 3.27                   | 136    |
|                        | 10/21/2024  | 1,520                  | 108     | 2.15      | 92.5         | 132           | 19.8                    | 9.54        | 18.4                   | 9.58                   | 335    |
| MW-8                   | 2/26/2024   | 52.0 B                 | <1.00   | <1.00     | <1.00        | 4.26          | 0.296                   | <5.00       | 0.400                  | <1.00                  | 5.76   |
|                        | 04/08/2024  | 84.8                   | <1.00   | <1.00     | 0.206        | 8.77          | 0.336                   | <5.00       | 0.83                   | 0.77                   | 10.0   |
|                        | 7/22/2024   | 234                    | <1.00   | <1.00     | <1.00        | 1.12 J        | 0.232 J                 | <5.00       | <1.00                  | <1.00                  | 2.62   |
|                        | 10/21/2024  | --                     | --      | --        | --           | --            | --                      | --          | --                     | --                     | --     |
| MW-9                   | 2/26/2024   | <100                   | <1.00   | <1.00     | <1.00        | <3.00         | <1.00                   | <5.00       | <1.00                  | <1.00                  | <1.00  |
|                        | 04/08/2024  | <100                   | <1.00   | <1.00     | <1.00        | <3.00         | <1.00                   | <5.00       | <1.00                  | <1.00                  | <1.00  |
|                        | 7/23/2024   | 31.7 JB                | 0.186 J | 0.303 J   | 0.182 J      | 0.893 J       | <1.00                   | <5.00       | <1.00                  | <1.00                  | 1.56   |
|                        | 10/21/2024  | <31.6                  | 0.247 J | <0.278    | 0.221 J      | 0.271         | <0.101                  | <1.00       | 0.106 J                | <0.104                 | 0.88   |
| MW-12                  | 2/27/2024   | 125,000                | 1,650   | 19,300    | 4,990        | 23,400        | <100                    | 511         | 724                    | 797                    | 49,340 |
|                        | 04/09/2024  | 120,000                | 1,810   | 15,900    | 3,410        | 17,500        | <100                    | 340         | 533                    | 603                    | 38,620 |
|                        | 7/23/2024   | 82,600                 | 5,130   | 4,590     | 4,000        | 13,800        | <25.0                   | 660         | 2,750                  | 704                    | 27,520 |
|                        | 10/21/2024  | 24,500                 | 3,150   | 181       | 1,450        | 3,530         | 16.6                    | 193         | 387                    | 354                    | 8,311  |
| MW-13                  | 2/26/2024   | 98.3 B                 | 1.45    | <1.00     | 7.86         | 0.329         | <1.00                   | <5.00       | <1.00                  | <1.00                  | 10.1   |
|                        | 04/08/2024  | 238                    | 35.3    | 0.501     | 6.11         | <3.00         | <1.00                   | <5.00       | <1.00                  | 0.381                  | 43.4   |
|                        | 7/22/2024   | 256                    | 12.0    | <1.00     | 2.68         | <3.00         | <1.00                   | <5.00       | <1.00                  | <1.00                  | 16.7   |
|                        | 10/21/2024  | 299 J-                 | 21.6 J- | <0.278 UJ | 20.6 J-      | 4.90 J-       | <0.101 UJ               | 2.79 J-     | 1.45 J-                | 0.288 J-               | 47.2   |

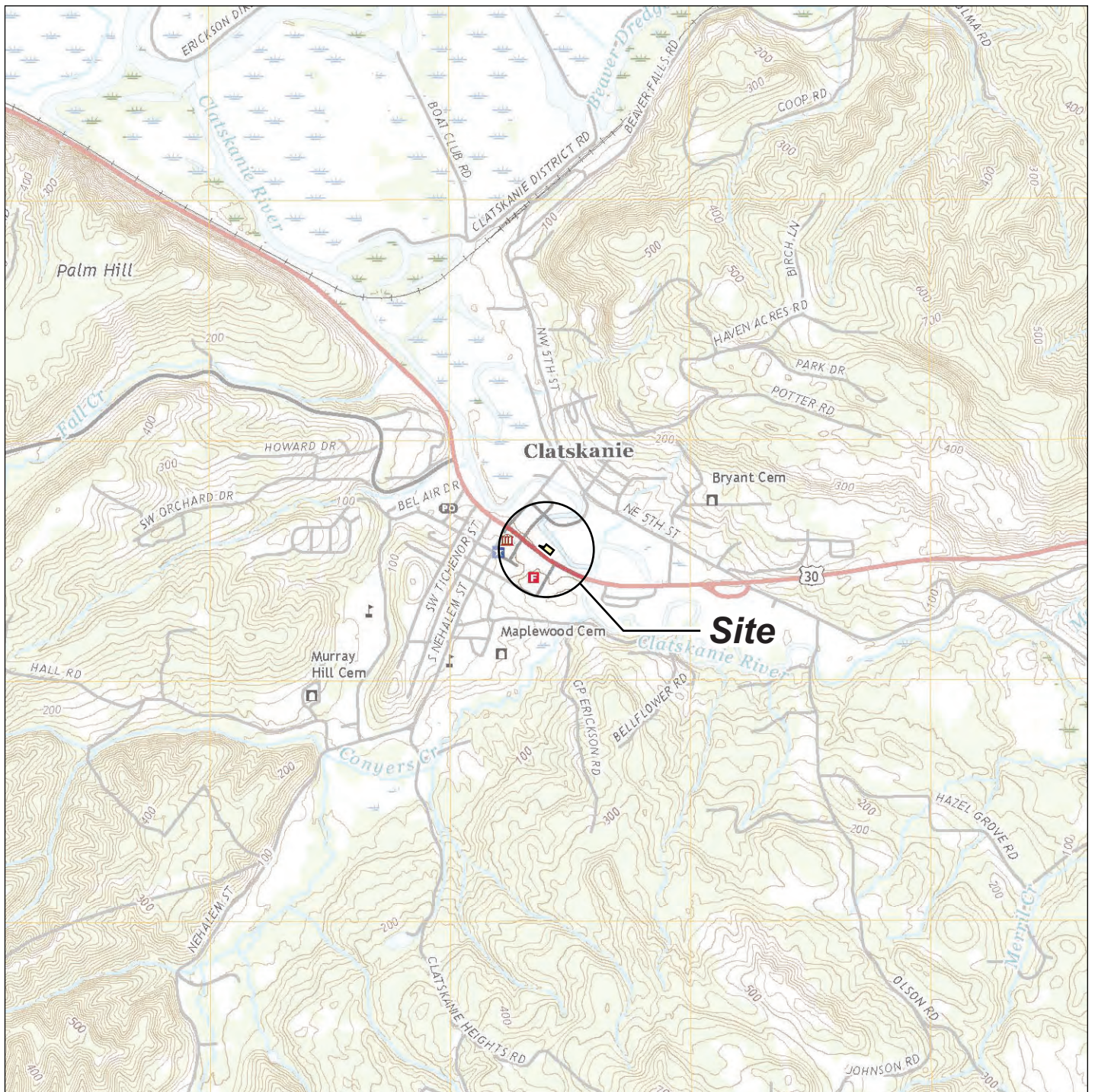
Please see notes at end of table.

**Table 2**  
**Groundwater Analytical Results**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well Number                         | Sample Date | Concentrations in µg/L |         |         |              |               |                         |             |                        |                        |      |
|------------------------------------------------|-------------|------------------------|---------|---------|--------------|---------------|-------------------------|-------------|------------------------|------------------------|------|
|                                                |             | TPH-G                  | Benzene | Toluene | Ethylbenzene | Total Xylenes | Methyl Tert-Butyl Ether | Naphthalene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | BTEX |
| MW-14                                          | 2/27/2024   | 3,440                  | 554     | 4.94    | 34.9         | 15.8          | <5.00                   | <25.0       | 9.57                   | 4.87                   | 610  |
|                                                | 04/08/2024  | 3,790                  | 334     | 4.30    | 19.4         | 13.8          | <5.00                   | <25.0       | 8.35                   | 3.48                   | 372  |
|                                                | 7/22/2024   | 3,660                  | 387     | 8.59 J  | 29.8         | 43.6          | <10.0                   | 22.0 J      | 12.6                   | 4.85 J                 | 469  |
|                                                | 10/21/2024  | 6,260                  | 850     | 5.69    | 56.3         | 17.1          | <0.101                  | 5.71        | 23.5                   | 5.32                   | 929  |
| MW-15                                          | 2/26/2024   | 940                    | 27.6    | 0.518   | 33.2         | 6.20          | <1.00                   | 6.10        | 10.4                   | <1.00                  | 67.5 |
|                                                | 04/08/2024  | 1,010                  | 35.1    | 0.895   | 28.5         | 3.26          | <1.00                   | 5.31        | 11.0                   | <1.00                  | 67.8 |
|                                                | 7/22/2024   | 344                    | 8.93    | 0.706 J | <1.00        | 0.228 J       | <1.00                   | 1.98 J      | <1.00                  | <1.00                  | 10.4 |
|                                                | 10/21/2024  | 1,550 J                | 24.2    | 3.19    | 0.692 J      | 3.92          | 7.72                    | 2.06 J      | 3.98 J                 | 0.269 J                | 32.0 |
| Groundwater to Indoor Air - Commercial (RBCwi) | Chronic     | --                     | 650     | 160,000 | 420,000      | 200,000       | 1,600,000               | 83,000      | --                     | --                     | --   |
|                                                | Acute       | 520                    | 12      | 150,000 | 31           | 3,300         | 3,200                   | 50          | 2,400                  | 1,700                  | --   |
| Groundwater in Excavation (RBC <sub>we</sub> ) |             | 14,000                 | 1,800   | 220,000 | 4,500        | 23,000        | 63,000                  | 500         | 6,300                  | 7,500                  | --   |

**Notes:**

1. Volatile organic compounds by EPA Method 8260D.
2. GRO = Gasoline range organics by NWTPH-Gx Method.
3. µg/L = Micrograms per liter.
4. Only compounds of potential interest are present in table.
5. **Bold** values indicate concentration detected above the method detection limit.
6. < = Concentration was not detected above the shown minimum reporting limit.
7. B = Analyte concentration is less than 10 times greater than a detection in the method blank and the result may be biased.
8. J = Result is an estimated value.
9. J- = Result is an estimated value and may be biased low.
10. UJ = The analyte was not detected but the reporting limit may be inaccurate or imprecise.
11. DEQ Human Health RBC = Risk-Based Concentrations from the DEQ's *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (updated June 2023).
12. Shaded values represent exceedances of applicable RBCs.



**Note:** Base map prepared from USGS 7.5-minute quadrangle of Clatskanie, OR, dated 2020 as provided by USGS.gov.



0 2,000 4,000  
Approximate Scale in Feet

## Site Location Map

Fourth Quarter Groundwater Monitoring - Former Johnson Oil Site  
280 East Columbia River Highway  
Clatskanie, Oregon



Apex Companies, LLC  
15618 SW 72nd Avenue  
Tigard, Oregon 97224

Project Number:  
32-24008422

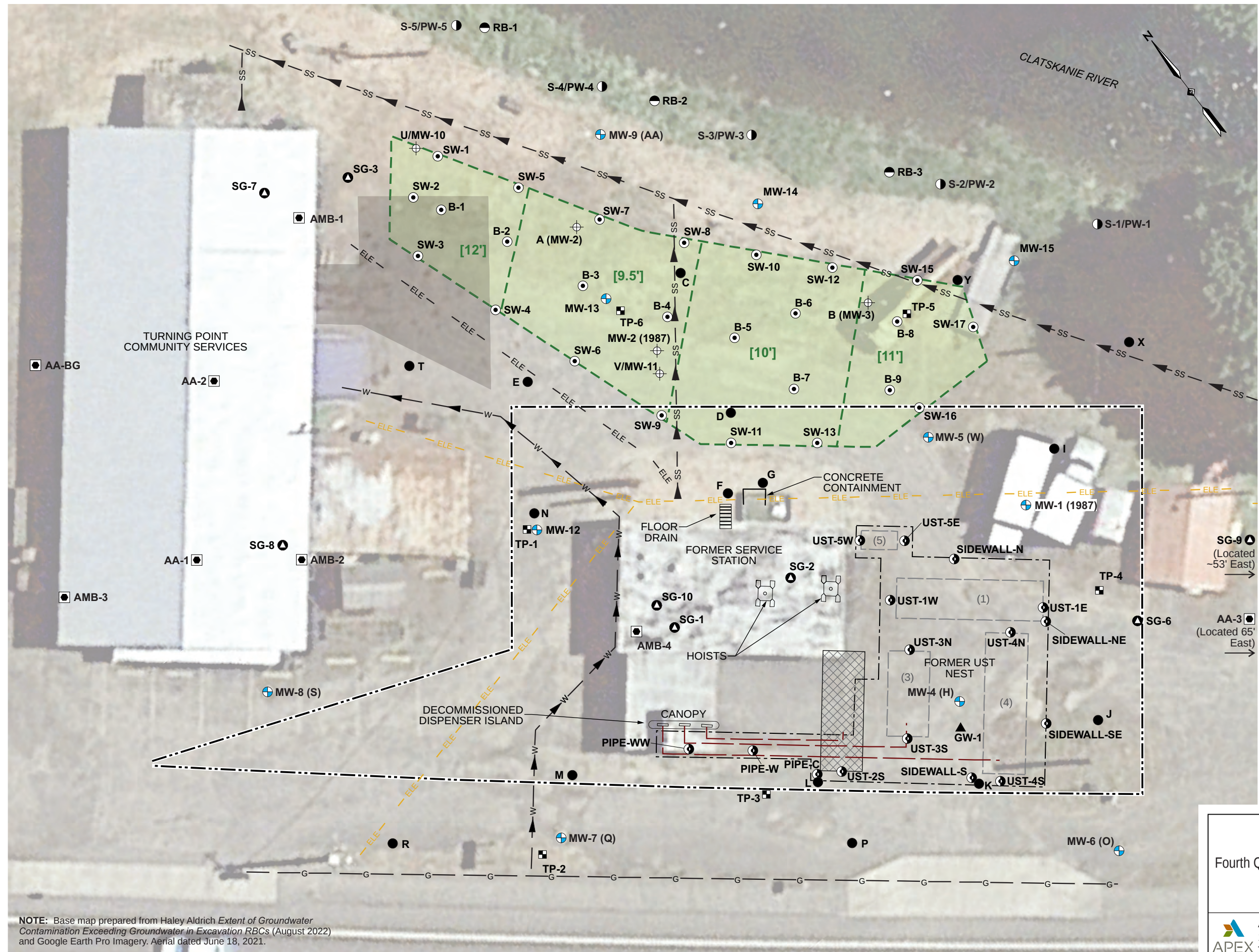
Drawn:  
JP

Approved:  
TC/CO

March 2025

Figure  
**1**

I:\Client\DEQ\Oregon\Johnson Oil\32-24008422\GW Monitoring\4Q 2024\32-24008422 02 (Site Plan).des



**NOTE:** Base map prepared from Haley Aldrich *Extent of Groundwater Contamination Exceeding Groundwater in Excavation RBCs* (August 2022) and Google Earth Pro Imagery. Aerial dated June 18, 2021.

### Legend:

- Monitoring Well (Push-Probe Designation; If Applicable)
- Ambient Air Location
- Sediment/Porewater Sample
- Excavation Confirmation Sample
- Soil Gas Sample
- Push-Probe Exploration
- Decommissioned Monitoring Well
- Grab Groundwater Sample
- Porewater Sample
- Soil Sample
- Test Pit
- Gas Line
- Overhead Electrical Line
- Underground Electrical Line
- Sanitary Sewer Line
- Water Line
- Decommissioned Product Piping
- Asphalt Concrete Pad Installed June 22, 2022
- Extent Of Excavation and [Depth in Feet]
- Excavation Limits (2008)
- Underground Storage Tank (UST) Decommissioned in Place
- Removed UST and Designation
- Property Boundary

0 20 40  
Approximate Scale in Feet

## Site Plan

Fourth Quarter Groundwater Monitoring - Former Johnson Oil Site  
280 East Columbia River Highway  
Clatskanie, Oregon



Apex Companies, LLC  
15618 SW 72nd Avenue  
Tigard, Oregon 97224

Project Number:  
32-24008422

Drawn:  
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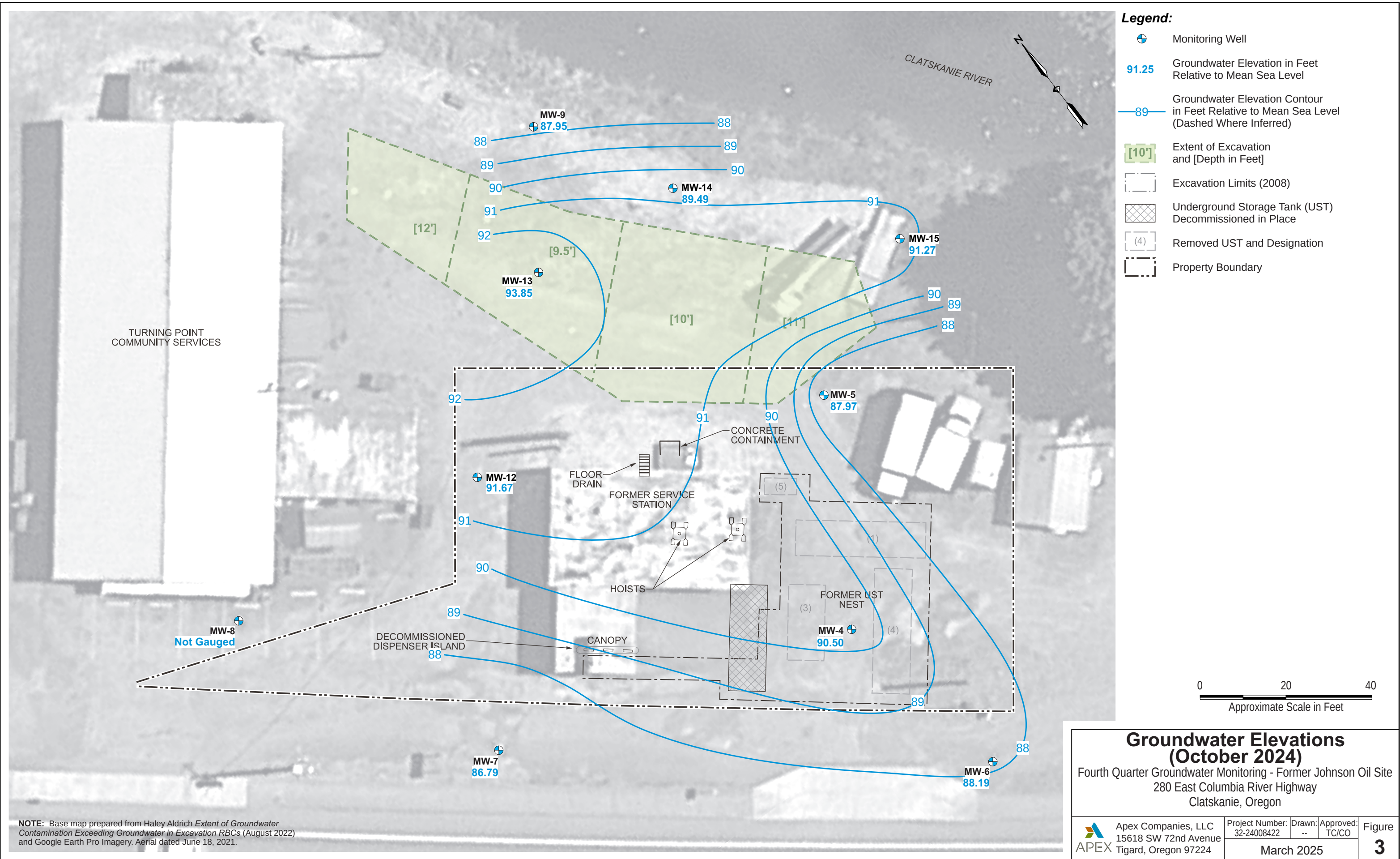
Approved:  
TC/CO

March 2025

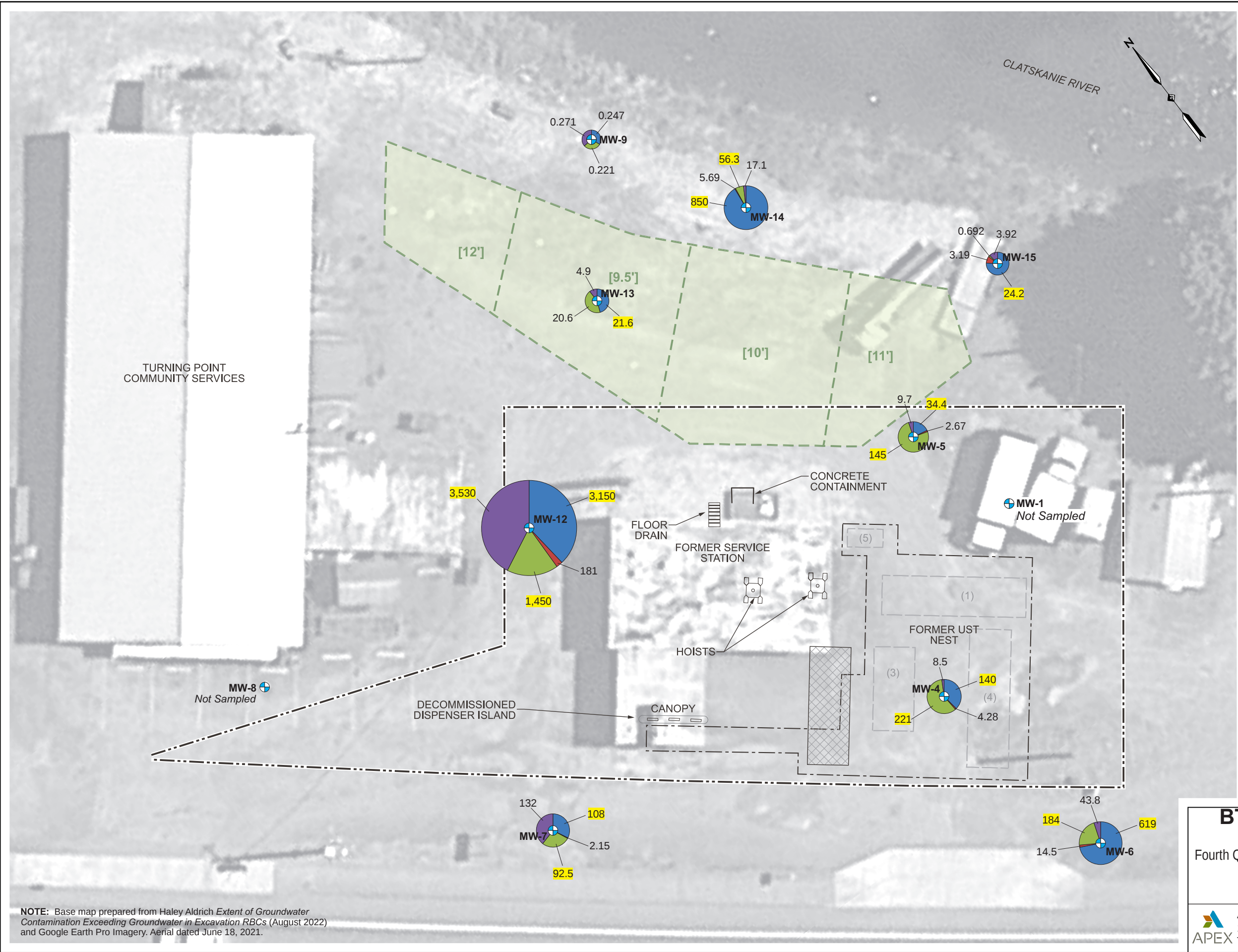
Figure

2

I:\Client\DEQ\Oregon\Johnson Oil\32-24008422\GW Monitoring\4Q 2024\32-24008422 03 (GW Elevations 7-24).des



I:\Client\DEQ\Oregon\Johnson Oil\32-24008422\GW Monitoring\4Q 2024\32-24008422 04 (GW Results 7-24).des



**Legend:**

- Monitoring Well
- Extent of Excavation and [Depth in Feet]
- Excavation Limits (2008)
- Underground Storage Tank (UST) Decommissioned in Place
- Removed UST and Designation
- Property Boundary

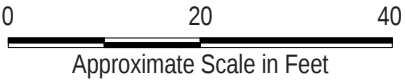
**Detected BTEX:**

**MW-4** Concentration in µg/L (ppb)

**Highlight** = Concentration Exceeds One or More of the DEQ Risk-Based Concentrations (See Table 2)

**Note:** Size of Chart Proportional to BTEX Concentration

|  |   |               |
|--|---|---------------|
|  | B | BENZENE       |
|  | T | TOLUENE       |
|  | E | ETHYLBENZENE  |
|  | X | TOTAL XYLENES |



**BTEX Results in Groundwater (October 2024)**

Fourth Quarter Groundwater Monitoring - Former Johnson Oil Site  
280 East Columbia River Highway  
Clatskanie, Oregon

Apex Companies, LLC  
15618 SW 72nd Avenue  
Tigard, Oregon 97224

|                 |             |        |    |           |       |
|-----------------|-------------|--------|----|-----------|-------|
| Project Number: | 32-24008422 | Drawn: | -- | Approved: | TC/CO |
| March 2025      |             |        |    |           |       |

Figure  
**4**

**NOTE:** Base map prepared from Haley Aldrich *Extent of Groundwater Contamination Exceeding Groundwater in Excavation RBCs* (August 2022) and Google Earth Pro Imagery. Aerial dated June 18, 2021.

## ***Appendix A***

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### **Sampling Documentation**

Apex Companies, LLC  
15618 SW 72nd Ave.  
Portland, OR 97224

|          |             |              |            |
|----------|-------------|--------------|------------|
|          |             | Job Number:  | 24008422   |
| Client:  | DEQ         | Date:        | 10/21/24   |
| Project: | Johnson Oil | Sampler:     | Chris Weer |
| Weather: | 51° Cloudy  | Time In/Out: | 9:10/10:00 |

## WATER LEVEL DATA

[illegible]

|  <b>APEX</b><br>Apex Companies, LLC<br>15618 SW 72nd Ave.<br>Portland, OR 97224 | Well I.D.              | MW- <del>64</del>                 | Job Number:           | 24008422           |        |                        |              |            |          |                  |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|-----------------------|--------------------|--------|------------------------|--------------|------------|----------|------------------|-----------------------------|
|                                                                                                                                                                  | Client:                | DEQ                               | Date:                 | 10/21/24           |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  | Project:               | Johnson Oil                       | Sampler:              | Chris Weer         |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  | Weather:               | 57° Partly Cloudy                 | Time In/Out:          | 1400/1440          |        |                        |              |            |          |                  |                             |
| <b>WELL DATA</b>                                                                                                                                                 |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
| Well Depth:                                                                                                                                                      | 20'                    | Well Diameter:                    | 2 inches              | Water Height       |        |                        |              |            |          |                  |                             |
| Depth to Water:                                                                                                                                                  | 3.97                   | Screened Interval:                |                       | x Multiplier       |        |                        |              |            |          |                  |                             |
| Water Column Length:                                                                                                                                             | 16.03                  | Depth to Free Product:            | -                     | x Casing Volumes   |        |                        |              |            |          |                  |                             |
| Purge Volume:                                                                                                                                                    |                        | Free Product Thickness:           | -                     | = Purge Volume     |        |                        |              |            |          |                  |                             |
| Water Height Multipliers (gal)                                                                                                                                   |                        | 1-inch = 0.041                    | 2-inch = 0.162        | 4-inch = 0.653     |        |                        |              |            |          |                  |                             |
| 1 gallon = 3.785 liters                                                                                                                                          |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
| <b>PURGING DATA</b>                                                                                                                                              |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
| Purge Method:                                                                                                                                                    | low flow, p pump       |                                   | Pump Intake Depth:    | ~17'               |        |                        |              |            |          |                  |                             |
| Sampling Method:                                                                                                                                                 | low flow, p pump       |                                   | Tubing Type:          | PTFE               |        |                        |              |            |          |                  |                             |
| Time                                                                                                                                                             | Volume Purged (liters) | Cumulative Volume Purged (liters) | DTW (btc)             | Purge Rate (L/min) | pH     | Temp (°C)              | Cond (µS/cm) | DO (ppm)   | ORP (mV) | Turbidity (NTUs) | Clarity/Color Other Remarks |
|                                                                                                                                                                  |                        |                                   |                       |                    | +/-0.1 | +/-0.5°C               | +/-5%        | +/-0.5 ppm | +/-20mV  | +/-10%           | <-- Stabilization Criteria  |
| 1418                                                                                                                                                             |                        |                                   | 3.97                  |                    | 6.53   | 16.3°                  | 569          | 0.46       | -102.4   |                  | C                           |
| 1421                                                                                                                                                             |                        |                                   | 3.99                  |                    | 6.54   | 16.3                   | 569          | 0.38       | -106.1   |                  | C                           |
| 1424                                                                                                                                                             |                        |                                   | 3.99                  |                    | 6.56   | 16.3°                  | 569          | 0.26       | -110.2   |                  | C                           |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
| Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear                                                                       |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
| <b>SAMPLING DATA</b>                                                                                                                                             |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
| Sample ID:                                                                                                                                                       | mw- <del>64</del>      |                                   | Sampling Flow Rate    | 0.30               |        | Analytical Laboratory: | Pace         |            |          |                  |                             |
| Sample Time:                                                                                                                                                     | 14:33                  |                                   | Final Depth to Water: | 3.97               |        | Did Well Dewater?      | no           |            |          |                  |                             |
| # Containers/Type                                                                                                                                                | Preservative           | Analysis/Method                   | Field Filtered        | Filter Size        | MS/MSD | Duplicate ID           |              |            |          |                  |                             |
| 3 VOA                                                                                                                                                            | HCI                    | NWTPH-Gx                          | yes no                |                    |        |                        |              |            |          |                  |                             |
| 3 VOA                                                                                                                                                            | HCI                    | VOCs                              | yes no                |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   | yes no                |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   | yes no                |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   | yes no                |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   | yes no                |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   | yes no                |                    |        |                        |              |            |          |                  |                             |
| <b>COMMENTS</b>                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |
|                                                                                                                                                                  |                        |                                   |                       |                    |        |                        |              |            |          |                  |                             |

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



|           |             |              |              |
|-----------|-------------|--------------|--------------|
| Well I.D. | MW- 14      | Job Number:  | 24008422     |
| Client:   | DEQ         | Date:        | 10/21/24     |
| Project:  | Johnson Oil | Sampler:     | Chris Weer   |
| Weather:  | 56° rain    | Time In/Out: | 12:30 / 1:15 |

|                                |                |                         |                |                         |  |
|--------------------------------|----------------|-------------------------|----------------|-------------------------|--|
| Well Depth:                    | 20             | Well Diameter:          | 2 inches       | Water Height            |  |
| Depth to Water:                | 9.83           | Screened Interval:      |                | x Multiplier            |  |
| Water Column Length:           | 10.17'         | Depth to Free Product:  |                | x Casing Volumes        |  |
| Purge Volume:                  |                | Free Product Thickness: |                | = Purge Volume          |  |
| Water Height Multipliers (gal) | 1-inch = 0.041 | 2-inch = 0.162          | 4-inch = 0.653 | 1 gallon = 3.785 liters |  |

[illegible]

### SAMPLING DATA

|                   |              |                       |                |                        |        |              |
|-------------------|--------------|-----------------------|----------------|------------------------|--------|--------------|
| Sample ID:        | MW14, Dup    | Sampling Flow Rate    | 0.35           | Analytical Laboratory: | Pace   |              |
| Sample Time:      | 1302, 1310   | Final Depth to Water: | 11.05'         | Did Well Dewater?      | NO     |              |
| # Containers/Type | Preservative | Analysis/Method       | Field Filtered | Filter Size            | MS/MSD | Duplicate ID |
| 6 VOA             | HCl          | NWTPH-Gx              | yes no         |                        |        | DUP          |
| 6 VOA             | HCl          | VOCs                  | yes no         |                        |        | DUP          |
|                   |              |                       | yes no         |                        |        |              |
|                   |              |                       | yes no         |                        |        |              |
|                   |              |                       | yes no         |                        |        |              |
|                   |              |                       | yes no         |                        |        |              |

Duplicate

[illegible]

## ***Appendix B***

---

### **Historical Data and Trend Plots**

**Table B-1**  
**Groundwater Elevations and Field Parameters**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well             | Date       | TOC Elevation (ft <sup>1</sup> ) | Depth to Groundwater (ft BTOC) | Depth to Product (ft BTOC) | Product Thickness (ft) | Groundwater Elevation (ft <sup>1</sup> ) | pH   | Temperature (°C) | Conductivity (µS/cm) | Dissolved Oxygen (mg/L) | ORP (mV) |
|-----------------------------|------------|----------------------------------|--------------------------------|----------------------------|------------------------|------------------------------------------|------|------------------|----------------------|-------------------------|----------|
| MW-1 (1987)                 | 6/2/2008   | NS                               | 3.5                            | --                         | --                     | --                                       | --   | --               | --                   | --                      | --       |
| MW-2                        | 5/10/2018  | 94.36                            | 7.30                           | --                         | --                     | 87.06                                    | 6.76 | 12.73            | 754                  | 0.87                    | -52.9    |
|                             | 6/13/2018  |                                  | 8.00                           | --                         | --                     | 86.36                                    | --   | --               | --                   | --                      | --       |
|                             | 5/24/2019  |                                  | 8.15                           | 7.61                       | 0.54                   | 86.62                                    | 5.48 | 13.93            | 1                    | --                      | 98.3     |
|                             | 7/10/2019  |                                  | 9.65                           | --                         | --                     | 84.71                                    | --   | --               | --                   | --                      | --       |
|                             | 9/16/2019  |                                  | 9.88                           | 9.83                       | 0.05                   | 84.52                                    | --   | --               | --                   | --                      | --       |
|                             | 1/17/2019  |                                  | 9.78                           | --                         | --                     | 84.58                                    | --   | --               | --                   | --                      | --       |
|                             | 4/1/2022   |                                  | 8.80                           | 8.35                       | 0.45                   | 85.90                                    | --   | --               | --                   | --                      | --       |
| Decommissioned on 4/1/2022  |            |                                  |                                |                            |                        |                                          |      |                  |                      |                         |          |
| MW-3                        | 5/10/2018  | 93.98                            | 7.18                           | --                         | --                     | 86.80                                    | 6.78 | 12.89            | 342                  | 0.56                    | -53.5    |
|                             | 6/13/2018  |                                  | 8.31                           | --                         | --                     | 85.67                                    | --   | --               | --                   | --                      | --       |
|                             | 5/24/2019  |                                  | 5.43                           | --                         | --                     | 88.55                                    | 6.33 | 13.12            | 0                    | --                      | 43.5     |
|                             | 7/10/2019  |                                  | 9.47                           | --                         | --                     | 84.51                                    | --   | --               | --                   | --                      | --       |
|                             | 9/16/2019  |                                  | 10.07                          | --                         | --                     | 83.91                                    | --   | --               | --                   | --                      | --       |
|                             | 1-/17/2019 |                                  | 9.33                           | --                         | --                     | 84.65                                    | --   | --               | --                   | --                      | --       |
|                             | 5/12/2022  |                                  | 9.04                           | --                         | --                     | 84.94                                    | --   | --               | --                   | --                      | --       |
| Decommissioned on 5/12/2022 |            |                                  |                                |                            |                        |                                          |      |                  |                      |                         |          |
| MW-4                        | 5/10/2018  | 94.43                            | 1.12                           | --                         | --                     | 93.31                                    | 6.71 | 13.57            | 290                  | 0.27                    | -67.4    |
|                             | 6/13/2018  |                                  | 1.30                           | --                         | --                     | 93.13                                    | --   | --               | --                   | --                      | --       |
|                             | 5/23/2019  |                                  | 0.97                           | --                         | --                     | 93.46                                    | 6.44 | 13.34            | 283                  | --                      | -84.7    |
|                             | 7/10/2023  |                                  | 2.43                           | --                         | --                     | 92.00                                    | --   | --               | --                   | --                      | --       |
|                             | 9/16/2019  |                                  | 2.61                           | --                         | --                     | 91.82                                    | --   | --               | --                   | --                      | --       |
|                             | 10/17/2019 |                                  | 1.38                           | --                         | --                     | 93.05                                    | --   | --               | --                   | --                      | --       |
|                             | 5/12/2022  |                                  | 0.95                           | --                         | --                     | 93.48                                    | --   | --               | --                   | --                      | --       |
|                             | 3/29/2023  |                                  | 1.00                           | --                         | --                     | 93.43                                    | 7.14 | 11.90            | 466                  | 0.17                    | -136.1   |
|                             | 5/22/2023  |                                  | 1.77                           | --                         | --                     | 92.66                                    | 6.92 | 13.50            | 460                  | 0.28                    | -106.6   |
|                             | 9/21/2023  |                                  | 4.27                           | --                         | --                     | 90.16                                    | 5.73 | 17.74            | 464                  | 0.68                    | -115.4   |
|                             | 11/7/2023  |                                  | 0.9                            | --                         | --                     | 93.53                                    | 6.43 | 15.82            | 585                  | 0.23                    | -98.1    |
|                             | 2/26/2024  |                                  | 1.04                           | --                         | --                     | 93.39                                    | 6.27 | 11.77            | 532                  | 0.36                    | -39.9    |
|                             | 4/8/2024   |                                  | 1.30                           | --                         | --                     | 93.13                                    | 6.75 | 12.64            | 566                  | 1.40                    | -120.3   |
|                             | 7/22/2024  |                                  | 2.74                           | --                         | --                     | 91.69                                    | 6.87 | 17.00            | 635                  | 0.00                    | -215.5   |
|                             | 10/21/2024 |                                  | 3.93                           | --                         | --                     | 90.50                                    | 6.56 | 16.30            | 569                  | 0.26                    | -110.2   |
| MW-5                        | 5/23/2019  | 94.30                            | 4.65                           | --                         | --                     | 89.65                                    | 6.06 | 13.70            | 189                  | --                      | 30.6     |
|                             | 7/10/2019  |                                  | 4.86                           | --                         | --                     | 89.44                                    | --   | --               | --                   | --                      | --       |
|                             | 9/16/2019  |                                  | 5.79                           | --                         | --                     | 88.51                                    | --   | --               | --                   | --                      | --       |
|                             | 10/17/2019 |                                  | 4.59                           | --                         | --                     | 89.71                                    | --   | --               | --                   | --                      | --       |
|                             | 5/12/2022  |                                  | 6.60                           | --                         | --                     | 87.70                                    | --   | --               | --                   | --                      | --       |
|                             | 3/29/2023  |                                  | 3.76                           | --                         | --                     | 90.54                                    | 6.92 | 11.50            | 448                  | 0.50                    | -137.5   |
|                             | 5/22/2023  |                                  | 3.94                           | --                         | --                     | 90.36                                    | 6.64 | 13.00            | 339                  | 0.80                    | -120.7   |
|                             | 9/21/2023  |                                  | 6.79                           | --                         | --                     | 87.51                                    | 5.37 | 16.51            | 324                  | 0.66                    | -98.5    |
|                             | 11/7/2023  |                                  | 2.56                           | --                         | --                     | 91.74                                    | 6.24 | 15.35            | 417                  | 0.18                    | -104     |
|                             | 2/26/2024  |                                  | 2.97                           | --                         | --                     | 91.33                                    | 5.94 | 11.60            | 469                  | 0.32                    | 48.8     |
|                             | 4/8/2024   |                                  | 3.44                           | --                         | --                     | 90.86                                    | 6.53 | 12.19            | 461                  | 1.11                    | -125.3   |
|                             | 7/22/2024  |                                  | 4.50                           | --                         | --                     | 89.80                                    | 8.95 | 15.40            | 542                  | 0.00                    | -230.1   |
|                             | 10/21/2024 |                                  | 6.33                           | --                         | --                     | 87.97                                    | 6.43 | 15.40            | 342                  | 0.23                    | -199     |
| MW-6                        | 5/23/2019  | 95.57                            | 4.57                           | --                         | --                     | 91.00                                    | 5.95 | 13.76            | 181.000              | --                      | 3.00     |
|                             | 7/10/2019  |                                  | 6.55                           | --                         | --                     | 89.02                                    | --   | --               | --                   | --                      | --       |
|                             | 9/16/2019  |                                  | 7.31                           | --                         | --                     | 88.26                                    | --   | --               | --                   | --                      | --       |
|                             | 10/17/2019 |                                  | 7.48                           | --                         | --                     | 88.09                                    | --   | --               | --                   | --                      | --       |
|                             | 5/12/2022  |                                  | 7.75                           | --                         | --                     | 87.82                                    | --   | --               | --                   | --                      | --       |
|                             | 3/29/2023  |                                  | 4.61                           | --                         | --                     | 90.96                                    | 6.94 | 12.30            | 576                  | 0.30                    | -118.6   |
|                             | 5/22/2023  |                                  | 6.66                           | --                         | --                     | 88.91                                    | 6.62 | 13.50            | 479                  | 0.28                    | -84.8    |
|                             | 9/21/2023  |                                  | 7.68                           | --                         | --                     | 87.89                                    | 5.64 | 17.73            | 452                  | 0.62                    | -117.5   |
|                             | 11/7/2023  |                                  | 4.93                           | --                         | --                     | 90.64                                    | 6.13 | 17.28            | 432                  | 0.21                    | -78.8    |
|                             | 2/26/2024  |                                  | 4.88                           | --                         | --                     | 90.69                                    | 5.99 | 12.50            | 469                  | 0.58                    | -33.8    |
|                             | 4/8/2024   |                                  | 4.55                           | --                         | --                     | 91.02                                    | 6.52 | 13.24            | 484                  | 1.08                    | -108.4   |

Please see notes at end of table.

**Table B-1**  
**Groundwater Elevations and Field Parameters**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well                                | Date       | TOC Elevation (ft <sup>1</sup> ) | Depth to Groundwater (ft BTOC) | Depth to Product (ft BTOC) | Product Thickness (ft) | Groundwater Elevation (ft <sup>1</sup> ) | pH   | Temperature (°C) | Conductivity (µS/cm) | Dissolved Oxygen (mg/L) | ORP (mV) |
|------------------------------------------------|------------|----------------------------------|--------------------------------|----------------------------|------------------------|------------------------------------------|------|------------------|----------------------|-------------------------|----------|
| MW-6                                           | 7/22/2024  |                                  | 5.69                           | --                         | --                     | 89.88                                    | 6.59 | 16.10            | 580                  | 0.00                    | -208.8   |
|                                                | 10/21/2024 |                                  | 7.38                           | --                         | --                     | 88.19                                    | 6.41 | 16.90            | 493                  | 0.19                    | -118.1   |
| MW-7                                           | 3/23/2019  | 95.04                            | 8.02                           | --                         | --                     | 87.02                                    | 5.64 | 15.12            | 644                  | 2.65                    | 45.8     |
|                                                | 7/10/2019  |                                  | 6.23                           | --                         | --                     | 88.81                                    | --   | --               | --                   | --                      | --       |
|                                                | 9/16/2019  |                                  | 7.33                           | --                         | --                     | 87.71                                    | --   | --               | --                   | --                      | --       |
|                                                | 10/17/2019 |                                  | 10.39                          | --                         | --                     | 84.65                                    | --   | --               | --                   | --                      | --       |
|                                                | 5/12/2022  |                                  | 9.21                           | --                         | --                     | 85.83                                    | --   | --               | --                   | --                      | --       |
|                                                | 3/29/2023  |                                  | 5.37                           | --                         | --                     | 89.67                                    | 6.79 | 13.60            | 673                  | 0.07                    | -111.0   |
|                                                | 5/22/2023  |                                  | 10.62                          | --                         | --                     | 84.42                                    | 6.53 | 14.80            | 708                  | 1.28                    | -73.2    |
|                                                | 9/20/2023  |                                  | 6.20                           | --                         | --                     | 88.84                                    | 5.35 | 19.00            | 491                  | 0.61                    | -92.6    |
|                                                | 11/7/2023  |                                  | 7.71                           | --                         | --                     | 87.33                                    | 5.96 | 17.00            | 383                  | 0.23                    | -32.0    |
|                                                | 2/26/2024  |                                  | 8.07                           | --                         | --                     | 86.97                                    | 5.93 | 13.81            | 578                  | 0.77                    | -31.2    |
|                                                | 4/8/2024   |                                  | 9.23                           | --                         | --                     | 85.81                                    | 6.23 | 14.03            | 446                  | 1.37                    | -52.5    |
|                                                | 7/22/2024  |                                  | 6.26                           | --                         | --                     | 88.78                                    | 6.5  | 16.90            | 623                  | 0.00                    | -174.2   |
|                                                | 10/21/2024 |                                  | 8.25                           | --                         | --                     | 86.79                                    | 6.29 | 17.40            | 529                  | 0.17                    | -99.1    |
| MW-8                                           | 5/24/2019  | 96.22                            | 5.43                           | --                         | --                     | 90.79                                    | 6.25 | 14.55            | 886                  | --                      | -72.4    |
|                                                | 7/10/2019  |                                  | 6.01                           | --                         | --                     | 90.21                                    | --   | --               | --                   | --                      | --       |
|                                                | 9/16/2019  |                                  | 6.32                           | --                         | --                     | 89.90                                    | --   | --               | --                   | --                      | --       |
|                                                | 10/17/2019 |                                  | 6.43                           | --                         | --                     | 89.79                                    | --   | --               | --                   | --                      | --       |
|                                                | 3/29/2023  |                                  | 5.17                           | --                         | --                     | 91.05                                    | 6.65 | 12.30            | 946                  | 0.68                    | -99.6    |
|                                                | 5/22/2023  |                                  | 5.74                           | --                         | --                     | 90.48                                    | 6.41 | 14.20            | 827                  | 0.23                    | -76.0    |
|                                                | 9/20/2023  |                                  | 6.80                           | --                         | --                     | 89.42                                    | 5.44 | 19.53            | 868                  | 0.07                    | -130.4   |
|                                                | 11/7/2023  |                                  | 6.11                           | --                         | --                     | 90.11                                    | 6.11 | 18.30            | 902                  | 0.34                    | -127.1   |
|                                                | 2/26/2024  |                                  | 5.09                           | --                         | --                     | 91.13                                    | 6.07 | 12.18            | 953                  | 0.75                    | -56.8    |
|                                                | 4/8/2024   |                                  | 5.33                           | --                         | --                     | 90.89                                    | 6.36 | 12.62            | 896                  | 0.00                    | -106.3   |
|                                                | 7/22/2024  |                                  | 5.92                           | --                         | --                     | 90.30                                    | 6.49 | 17.80            | 940                  | 0.00                    | -198.3   |
| Well Inaccessible; Covered by Asphalt Concrete |            |                                  |                                |                            |                        |                                          |      |                  |                      |                         |          |
| MW-9                                           | 5/23/2019  | 94.54                            | 10.41                          | --                         | --                     | 84.13                                    | 4.62 | 12.90            | 610                  | 2.88                    | 34.1     |
|                                                | 7/10/2019  |                                  | 10.28                          | --                         | --                     | 84.26                                    | --   | --               | --                   | --                      | --       |
|                                                | 9/16/2019  |                                  | 8.21                           | --                         | --                     | 86.33                                    | --   | --               | --                   | --                      | --       |
|                                                | 10/17/2019 |                                  | 4.68                           | --                         | --                     | 89.86                                    | --   | --               | --                   | --                      | --       |
|                                                | 9/20/2023  |                                  | 9.09                           | --                         | --                     | 85.45                                    | 3.71 | 15.44            | 146                  | 3.77                    | 256.0    |
|                                                | 11/7/2023  |                                  | 5.07                           | --                         | --                     | 89.47                                    | 4.99 | 14.47            | 52                   | 2.19                    | 223.0    |
|                                                | 5/23/2029  |                                  | 10.41                          | --                         | --                     | 84.13                                    | --   | --               | --                   | --                      | --       |
|                                                | 7/10/2019  |                                  | 10.28                          | --                         | --                     | 84.26                                    | --   | --               | --                   | --                      | --       |
|                                                | 9/16/2019  |                                  | 8.21                           | --                         | --                     | 86.33                                    | --   | --               | --                   | --                      | --       |
|                                                | 10/17/2019 |                                  | 4.68                           | --                         | --                     | 89.86                                    | --   | --               | --                   | --                      | --       |
|                                                | 2/26/2024  |                                  | 4.90                           | --                         | --                     | 89.64                                    | 4.43 | 9.82             | 51                   | 4.33                    | 256.5    |
|                                                | 4/8/2024   |                                  | 6.33                           | --                         | --                     | 88.21                                    | 4.94 | 10.95            | 62                   | 3.96                    | 238.4    |
|                                                | 7/22/2024  |                                  | 9.47                           | --                         | --                     | 85.07                                    | 4.91 | 14.11            | 78                   | 4.19                    | 55.2     |
| 10/21/2024                                     | 6.59       | --                               | --                             | 87.95                      | 5.03                   | 15.10                                    | 81   | 4.10             | 226.9                |                         |          |
| MW-10                                          | 5/23/2019  | 94.50                            | 12.91                          | --                         | --                     | 81.59                                    | --   | --               | --                   | --                      | --       |
|                                                | 7/10/2019  |                                  | 7.35                           | --                         | --                     | 87.15                                    | --   | --               | --                   | --                      | --       |
|                                                | 9/16/2019  |                                  | 8.22                           | --                         | --                     | 86.28                                    | --   | --               | --                   | --                      | --       |
|                                                | 10/17/2019 |                                  | 8.39                           | --                         | --                     | 86.11                                    | --   | --               | --                   | --                      | --       |
|                                                | 4/1/2022   |                                  | 6.13                           | --                         | --                     | 88.37                                    | --   | --               | --                   | --                      | --       |
| Decommissioned on 4/1/2022                     |            |                                  |                                |                            |                        |                                          |      |                  |                      |                         |          |
| MW-11                                          | 5/24/2019  | 94.62                            | 5.93                           | --                         | --                     | 88.69                                    | --   | --               | --                   | --                      | --       |
|                                                | 7/10/2019  |                                  | 6.84                           | --                         | --                     | 87.78                                    | --   | --               | --                   | --                      | --       |
|                                                | 9/16/2019  |                                  | 7.68                           | --                         | --                     | 86.94                                    | --   | --               | --                   | --                      | --       |
|                                                | 10/17/2019 |                                  | 7.44                           | --                         | --                     | 87.18                                    | --   | --               | --                   | --                      | --       |
|                                                | 4/1/2022   |                                  | 6.15                           | --                         | --                     | 88.47                                    | --   | --               | --                   | --                      | --       |

Please see notes at end of table.

**Table B-1**  
**Groundwater Elevations and Field Parameters**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well            | Date       | TOC Elevation (ft <sup>1</sup> ) | Depth to Groundwater (ft BTOC) | Depth to Product (ft BTOC) | Product Thickness (ft) | Groundwater Elevation (ft <sup>1</sup> ) | pH   | Temperature (°C) | Conductivity (µS/cm) | Dissolved Oxygen (mg/L) | ORP (mV) |
|----------------------------|------------|----------------------------------|--------------------------------|----------------------------|------------------------|------------------------------------------|------|------------------|----------------------|-------------------------|----------|
| Decommissioned on 4/1/2022 |            |                                  |                                |                            |                        |                                          |      |                  |                      |                         |          |
| MW-12                      | 3/29/2023  | 99.06                            | 4.41                           | --                         | --                     | 94.65                                    | 6.51 | 11.80            | 389                  | 1.36                    | 71.5     |
|                            | 5/22/2023  |                                  | 4.78                           | --                         | --                     | 94.28                                    | 6.47 | 13.20            | 371                  | 0.32                    | -59.1    |
|                            | 9/21/2023  |                                  | 7.50                           | --                         | --                     | 91.56                                    | 5.33 | 18.73            | 544                  | 0.58                    | -103.8   |
|                            | 11/7/2023  |                                  | 5.26                           | --                         | --                     | 93.80                                    | 6.11 | 16.18            | 325                  | 0.38                    | -67.8    |
|                            | 2/26/2024  |                                  | 4.61                           | --                         | --                     | 94.45                                    | 5.90 | 11.68            | 355                  | 0.27                    | -23.3    |
|                            | 4/8/2024   |                                  | 5.10                           | --                         | --                     | 93.96                                    | 6.33 | 12.64            | 331                  | 1.13                    | -86.8    |
|                            | 7/22/2024  |                                  | 6.10                           | --                         | --                     | 92.96                                    | 6.29 | 18.00            | 343                  | 0.00                    | -158.5   |
|                            | 10/21/2024 |                                  | 7.39                           | --                         | --                     | 91.67                                    | 6.25 | 17.50            | 458                  | 0.14                    | -85.6    |
| MW-13                      | 3/29/2023  | 98.28                            | 2.75                           | --                         | --                     | 95.53                                    | 7.95 | 10.60            | 670                  | 0.00                    | -103.2   |
|                            | 5/22/2023  |                                  | 3.40                           | --                         | --                     | 94.88                                    | 7.27 | 12.70            | 541                  | 0.42                    | -87.9    |
|                            | 9/20/2023  |                                  | 5.67                           | --                         | --                     | 92.61                                    | 6.03 | 18.42            | 912                  | 0.60                    | -116.3   |
|                            | 11/7/2023  |                                  | 2.54                           | --                         | --                     | 95.74                                    | 6.79 | 16.15            | 901                  | 0.25                    | -65.3    |
|                            | 2/26/2024  |                                  | 2.67                           | --                         | --                     | 95.61                                    | 6.85 | 9.59             | 352                  | 0.56                    | -9.4     |
|                            | 4/8/2024   |                                  | 3.09                           | --                         | --                     | 95.19                                    | 7.40 | 10.96            | 375                  | 0.00                    | -125.2   |
|                            | 7/22/2024  |                                  | 4.43                           | --                         | --                     | 93.85                                    | 7.33 | 16.30            | 609                  | 0.00                    | -208.4   |
|                            | 10/21/2024 |                                  | 5.74                           | --                         | --                     | 92.54                                    | 6.93 | 16.90            | 705                  | 0.22                    | -124     |
| MW-14                      | 3/29/2023  | 99.28                            | 7.95                           | --                         | --                     | 91.33                                    | 6.51 | 11.40            | 507                  | 0.08                    | -31.6    |
|                            | 5/22/2023  |                                  | 6.83                           | --                         | --                     | 92.45                                    | 6.58 | 12.00            | 594                  | 0.46                    | -38.6    |
|                            | 9/20/2023  |                                  | 10.00                          | --                         | --                     | 89.28                                    | 5.69 | 15.44            | 705                  | 0.58                    | -131.6   |
|                            | 11/7/2023  |                                  | 7.97                           | --                         | --                     | 91.31                                    | 5.98 | 14.87            | 425                  | 0.18                    | -90.5    |
|                            | 2/26/2024  |                                  | 8.05                           | --                         | --                     | 91.23                                    | 5.9  | 11.78            | 335                  | 0.65                    | -30.6    |
|                            | 4/8/2024   |                                  | 8.77                           | --                         | --                     | 90.51                                    | 6.45 | 11.92            | 338                  | 0.00                    | -106.8   |
|                            | 7/22/2024  |                                  | 9.43                           | --                         | --                     | 89.85                                    | 6.71 | 14.50            | 505                  | 0.37                    | -192.4   |
|                            | 10/21/2024 |                                  | 9.79                           | --                         | --                     | 89.49                                    | 6.56 | 14.00            | 504                  | 0.12                    | -140.4   |
| MW-15                      | 3/29/2023  | 100.32                           | 8.30                           | --                         | --                     | 92.02                                    | 6.46 | 11.90            | 699                  | 4.83                    | 51.6     |
|                            | 5/22/2023  |                                  | 6.78                           | --                         | --                     | 93.54                                    | 6.63 | 12.00            | 445                  | 0.30                    | -86.7    |
|                            | 9/20/2023  |                                  | 9.67                           | --                         | --                     | 90.65                                    | 5.2  | 14.18            | 577                  | 0.73                    | -72.9    |
|                            | 11/7/2023  |                                  | 7.87                           | --                         | --                     | 92.45                                    | 5.95 | 13.72            | 348                  | 0.21                    | -59.4    |
|                            | 2/26/2024  |                                  | 8.31                           | --                         | --                     | 92.01                                    | 5.77 | 9.08             | 320                  | 0.54                    | -16.0    |
|                            | 4/8/2024   |                                  | 9.07                           | --                         | --                     | 91.25                                    | 6.45 | 11.31            | 407                  | 0.00                    | -134.6   |
|                            | 7/22/2024  |                                  | 9.66                           | --                         | --                     | 90.66                                    | 6.71 | 14.50            | 505                  | 0.37                    | -192.4   |
|                            | 10/21/2024 |                                  | 9.05                           | --                         | --                     | 91.27                                    | 6.32 | 12.90            | 474                  | 0.24                    | -135.3   |

**Notes:**

1. Elevations are relative to an assumed reference datum of 100 feet (point located at the northwest corner of a concrete pad for a metal sign along Highway 30).
2. ft = feet
3. BTOC = Below Top of Casing.
4. NS = Not surveyed.
5. °C = Degrees Celsius.
6. µS/cm = MicroSiemens per centimeter
7. mg/L = Milligrams per liter.
8. ORP (mV) = Oxidation-reduction potential (millivolts).

**Table B-2**  
**Groundwater Analytical Results**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well Number | Sample Date | Concentrations in µg/L |         |         |              |               |                         |             |                        |                        |       |
|------------------------|-------------|------------------------|---------|---------|--------------|---------------|-------------------------|-------------|------------------------|------------------------|-------|
|                        |             | TPH-G                  | Benzene | Toluene | Ethylbenzene | Total Xylenes | Methyl tert-butyl ether | Naphthalene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | BTEX  |
| MW-4                   | 5/10/2018   | 14,400                 | 18.5    | 10.9 J  | 619          | 1,720         | <0.367                  | 283 J       | 1,190                  | 404                    | 2,368 |
|                        | 5/23/2019   | 7,340                  | 117     | 2.07    | 436          | 43.2          | <0.0367                 | 284         | 58.3                   | 22.9                   | 598   |
|                        | 3/29/2023   | 5,720                  | 84.5    | 1.83    | 196          | 3.43          | <0.101                  | 213         | 1.05                   | 0.934 J                | 286   |
|                        | 5/22/2023   | 4,660                  | 87.6    | <10.0   | 188          | <30.0         | <10.0                   | 117 J-      | <10.0                  | <10.0                  | 296   |
|                        | 9/21/2023   | 4,950                  | 60.8    | 1.29    | 287          | 2.69 J        | <1.00                   | 363         | 0.412 J                | 0.292 J                | 352   |
|                        | 11/8/2023   | 4,870                  | 199     | <20.0   | 354          | 9.63 J        | <20.0                   | 137         | <20.0                  | <20.0                  | 573   |
|                        | 2/27/2024   | 3,120                  | 94.2    | <20.0   | 104          | 7.88          | <20.0                   | 130         | 4.57                   | <20.0                  | 216   |
|                        | 4/9/2024    | 3,450                  | 117     | <20.0   | 108          | <60.0         | <20.0                   | 96.2        | 2.19                   | <20.0                  | 265   |
|                        | 7/23/2024   | 3,370                  | 102     | 2.94    | 95.0         | 3.71          | <1.00                   | 173         | <1.00                  | <1.00                  | 204   |
|                        | 10/21/2024  | 6,130                  | 140     | 4.28    | 221          | 8.50          | <0.101                  | 324         | 2.87 J                 | 0.156 J                | 374   |
| MW-5                   | 5/23/2019   | 3,590                  | 46.2    | 5.82    | 428          | 45.8          | <0.367                  | 151         | 48.6                   | 22.7                   | 526   |
|                        | 3/30/2023   | 6,270                  | 68.4    | 4.24    | 380          | 14.3          | <0.101                  | 178         | 0.561 J                | 1.99                   | 467   |
|                        | 5/23/2023   | 4,790                  | 56.3    | 3.20 J  | 208          | 7.81 J        | <10.0                   | 54.9 J-     | <10.0                  | <10.0                  | 275   |
|                        | 9/21/2023   | 3,430                  | 32.0    | 2.13    | 200          | 9.57          | <1.00                   | 120         | 0.341 J                | 0.975 J                | 244   |
|                        | 11/8/2023   | 6,100                  | 141     | 13.1    | 244          | 29.4 J        | <10.0                   | 220         | <10.0                  | 2.58 J                 | 428   |
|                        | 2/27/2024   | 5,070                  | 147     | 13.6    | 1,080        | 61.4          | <10.0                   | 331         | 24.2                   | 3.07                   | 1,302 |
|                        | 4/9/2024    | 7,910                  | 155     | 11.1    | 970          | 51.0          | <10.0                   | 318         | 35.3                   | 1.94                   | 1,187 |
|                        | 7/23/2024   | 8,250                  | 112     | 9.17    | 536          | 29.1          | 0.141 J                 | 246         | 5.16                   | 2.10                   | 686   |
|                        | 10/21/2024  | 3,220                  | 34.4    | 2.67    | 145          | 9.70          | <0.101                  | 60.0        | 3.96 J                 | 0.527 J                | 192   |
| MW-6                   | 5/23/2019   | 28,100                 | 1,690   | 1,500   | 2,250        | 4,180         | <18.4                   | 241 J       | 809                    | 206                    | 9,620 |
|                        | 3/29/2023   | 1,490                  | 609     | 8.50    | 240          | 194           | <0.101                  | 45.1        | 42.9                   | 10.3                   | 1,052 |
|                        | 5/22/2023   | 4,720                  | 665     | 14.2 J  | 297          | 88.9 J        | <50.0                   | <250 UJ     | <50.0                  | 11.1 J                 | 1,065 |
|                        | 9/21/2023   | 2,450                  | 379     | 6.25    | 92.7         | 41.1          | <1.00                   | 9.88        | <1.00                  | 2.57                   | 519   |
|                        | 11/8/2023   | 6,250                  | 772     | 11.2    | 230          | 74.3          | <10.0                   | 28.0 J      | 6.60 J                 | 5.36 J                 | 1,088 |
|                        | 2/27/2024   | 4,060                  | 668     | 13.1    | 215          | 55.7          | <10.0                   | 19.6        | 3.09                   | 7.72                   | 952   |
|                        | 4/9/2024    | 6,860                  | 576     | 10.4    | 152          | 31.5          | <10.0                   | 28.5        | 2.52                   | 3.66                   | 770   |
|                        | 7/23/2024   | 7,040                  | 838     | 13.4    | 288          | 84.3          | 0.217 J                 | 24.6        | 19.3                   | 9.49                   | 1,224 |
|                        | 10/21/2024  | 3,790                  | 619     | 14.5    | 184          | 43.8          | <0.101                  | 9.13        | 2.80                   | 4.87                   | 861   |
| MW-7                   | 5/23/2019   | 5,610                  | 524     | <8.24   | 396          | 1,020         | 45.7                    | 37.4 J      | 269                    | 49.3                   | 1,944 |
|                        | 3/29/2023   | 42.7 J                 | 96.6    | 1.93    | 70.5         | 138           | 24.3                    | 12.8        | 28.2                   | 7.53                   | 307   |
|                        | 5/22/2023   | 4,910                  | 518     | 4.15    | 410          | 411           | 36.9                    | 71.5 J-     | 148                    | 39.0                   | 1,343 |
|                        | 9/21/2023   | 876                    | 49.6    | 1.44    | 35.6         | 99.3          | 14.6                    | 2.66 J      | 18.0                   | 5.3                    | 186   |
|                        | 11/8/2023   | 1,640                  | 166     | 0.981 J | 163          | 92.2          | 12.4                    | 17.1        | 22.6                   | 4.7                    | 422   |
|                        | 2/27/2024   | 1,310                  | 131     | 2.19    | 123          | 236           | 17.4                    | 10.3        | 19.4                   | 11.8                   | 492   |
|                        | 4/9/2024    | 2,350                  | 112     | 2.42    | 87.8         | 294           | 14.9                    | 4.15        | 11.8                   | 14.5                   | 496   |
|                        | 7/23/2024   | 1,610                  | 53.4    | 2.06    | 29.3         | 51.6          | 26.7                    | 5.37        | 10.0                   | 3.27                   | 136   |
|                        | 10/21/2024  | 1,520                  | 108     | 2.15    | 92.5         | 132           | 19.8                    | 9.54        | 18.4                   | 9.58                   | 335   |
| MW-8                   | 5/24/2019   | 88.0                   | 2.16    | <0.412  | <0.384       | 26.0          | <0.367                  | <1.00       | 4.53                   | 1.43                   | 28.6  |
|                        | 3/29/2023   | 4,550                  | <0.0941 | <0.278  | <0.137       | 3.21          | 0.331 J                 | <1.00       | 0.486 J                | 0.258 J                | 3.46  |
|                        | 5/22/2023   | 189 J                  | <1.00   | <1.00   | <1.00        | 11.5          | 0.273 J                 | <5.00 UJ    | 3.64                   | 1.15                   | 13.0  |
|                        | 9/20/2023   | 54.5 J                 | <1.00   | <1.00   | 0.231 J      | 1.47 J        | 0.297 J                 | <5.00       | <1.00                  | 0.137 J                | 2.70  |

Please see notes at end of table.

**Table B-2**  
**Groundwater Analytical Results**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well Number | Sample Date | Concentrations in µg/L                         |         |           |              |               |                         |             |                        |                        |        |
|------------------------|-------------|------------------------------------------------|---------|-----------|--------------|---------------|-------------------------|-------------|------------------------|------------------------|--------|
|                        |             | TPH-G                                          | Benzene | Toluene   | Ethylbenzene | Total Xylenes | Methyl tert-butyl ether | Naphthalene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | BTEX   |
| MW-8                   | 11/7/2023   | 35.5                                           | 0.125 J | <1.00     | 0.587 J      | 0.923 J       | <1.00                   | 1.33 J      | <1.00                  | <1.00                  | 2.14   |
|                        | 2/26/2024   | 52.0 B                                         | <1.00   | <1.00     | <1.00        | 4.26          | 0.296                   | <5.00       | 0.400                  | <1.00                  | 5.76   |
|                        | 4/8/2024    | 84.8                                           | <1.00   | <1.00     | 0.206        | 8.77          | 0.336                   | <5.00       | 0.83                   | 0.77                   | 10.0   |
|                        | 7/22/2024   | 234                                            | <1.00   | <1.00     | <1.00        | 1.12 J        | 0.232 J                 | <5.00       | <1.00                  | <1.00                  | 2.62   |
|                        | 10/21/2024  | Well Inaccessible; Covered by Asphalt Concrete |         |           |              |               |                         |             |                        |                        |        |
| MW-9                   | 5/23/2019   | 3,760                                          | 1,320   | 15.0      | 40.7         | 563.0         | <0.376                  | 3.31 J      | 141                    | 44.3                   | 1,939  |
|                        | 9/20/2023   | <100                                           | <1.00   | <1.00     | <1.00        | <3.00         | <1.00                   | <5.00       | <1.00                  | <1.00                  | <1.00  |
|                        | 11/7/2023   | 55.7 J                                         | <1.00   | <1.00     | <1.00        | <3.00         | <1.00                   | <5.00       | <1.00                  | <1.00                  | <1.00  |
|                        | 2/26/2024   | <100                                           | <1.00   | <1.00     | <1.00        | <3.00         | <1.00                   | <5.00       | <1.00                  | <1.00                  | <1.00  |
|                        | 4/8/2024    | <100                                           | <1.00   | <1.00     | <1.00        | <3.00         | <1.00                   | <5.00       | <1.00                  | <1.00                  | <1.00  |
|                        | 7/23/2024   | 31.7 JB                                        | 0.186 J | 0.303 J   | 0.182 J      | 0.893 J       | <1.00                   | <5.00       | <1.00                  | <1.00                  | 1.56   |
|                        | 10/21/2024  | <31.6                                          | 0.247 J | <0.278    | 0.221 J      | 0.271         | <0.101                  | <1.00       | 0.106 J                | <0.104                 | 0.88   |
| MW-12                  | 3/30/2023   | 49,600                                         | 1,510   | 12,600    | 2,720        | 11,800        | <2.02                   | 508         | 1,980                  | 519                    | 28,630 |
|                        | 5/23/2023   | 82,400                                         | 2,930   | 13,600    | 3,090        | 14,300        | <500                    | <2,500 UJ   | 1,910                  | 621                    | 33,920 |
|                        | 9/21/2023   | 31,000                                         | 4,540   | 145       | 1,490        | 3,870         | 15.3                    | 193 J       | 1,120                  | 297                    | 10,045 |
|                        | 11/8/2023   | 104,000                                        | 4,150   | 13,200    | 4,650        | 22,500        | <50.0                   | 288         | 2,380                  | 649                    | 44,500 |
|                        | 2/27/2024   | 125,000                                        | 1,650   | 19,300    | 4,990        | 23,400        | <100                    | 511         | 724                    | 797                    | 49,340 |
|                        | 4/8/2024    | 120,000                                        | 1,810   | 15,900    | 3,410        | 17,500        | <100                    | 340         | 533                    | 603                    | 38,620 |
|                        | 7/23/2024   | 82,600                                         | 5,130   | 4,590     | 4,000        | 13,800        | <25.0                   | 660         | 2,750                  | 704                    | 27,520 |
|                        | 10/21/2024  | 24,500                                         | 3,150   | 181       | 1,450        | 3,530         | 16.6                    | 193         | 387                    | 354                    | 8,311  |
|                        |             |                                                |         |           |              |               |                         |             |                        |                        |        |
| MW-13                  | 3/30/2023   | 2,300                                          | 59.7    | 5.48      | 217          | 264           | <0.101                  | 53.5        | 205                    | 117                    | 546    |
|                        | 5/23/2023   | 2,550                                          | 123     | <10.0     | 226          | 50.2          | <10.0                   | 18.8 J-     | 46.3                   | 57.1                   | 404    |
|                        | 9/20/2023   | 3,170                                          | 166     | <20.0     | 279          | 16.1 J        | <1.00                   | 14.3        | 114                    | 36.5                   | 471    |
|                        | 11/7/2023   | 271                                            | 2.79    | <1.00     | 10.4         | 1.47 J        | <1.00                   | <5.00       | 1.96                   | 0.177 J                | 15.2   |
|                        | 2/26/2024   | 98.3 B                                         | 1.45    | <1.00     | 7.86         | 0.329         | <1.00                   | <5.00       | <1.00                  | <1.00                  | 10.1   |
|                        | 4/8/2024    | 238                                            | 35.3    | 0.501     | 6.11         | <3.00         | <1.00                   | <5.00       | <1.00                  | 0.381                  | 43.4   |
|                        | 7/22/2024   | 256                                            | 12.0    | <1.00     | 2.68         | <3.00         | <1.00                   | <5.00       | <1.00                  | <1.00                  | 16.7   |
|                        | 10/21/2024  | 299 J-                                         | 21.6 J- | <0.278 UJ | 20.6 J-      | 4.90 J-       | <0.101 UJ               | 2.79 J-     | 1.45 J-                | 0.288 J-               | 47.2   |
|                        |             |                                                |         |           |              |               |                         |             |                        |                        |        |
| MW-14                  | 3/30/2023   | 4,190                                          | 107     | 1.64      | 58.7         | 18.1          | <0.101                  | 15.3        | 9.54                   | 1.68                   | 185    |
|                        | 5/23/2023   | 6,080                                          | 1,230   | 8.69      | 34.6         | 15.6          | <1.00                   | 6.45 J-     | 38.0                   | 23.8                   | 1,289  |
|                        | 9/20/2023   | 4,570                                          | 703     | 4.08      | 46.7         | 7.73 J        | <1.01                   | 7.83        | <25.0                  | 22.4                   | 762    |
|                        | 11/8/2023   | 3,300                                          | 370     | 6.99 J    | <25.0        | 21.5 J        | <25.0                   | <125        | <25.0                  | <25.0                  | 411    |
|                        | 2/27/2024   | 3,440                                          | 554     | 4.94      | 34.9         | 15.8          | <5.00                   | <25.0       | 9.57                   | 4.87                   | 610    |
|                        | 4/8/2024    | 3,790                                          | 334     | 4.30      | 19.4         | 13.8          | <5.00                   | <25.0       | 8.35                   | 3.48                   | 372    |
|                        | 7/22/2024   | 3,660                                          | 387     | 8.59 J    | 29.8         | 43.6          | <10.0                   | 22.0 J      | 12.6                   | 4.85 J                 | 469    |
|                        | 10/21/2024  | 6,260                                          | 850     | 5.69      | 56.3         | 17.1          | <0.101                  | 5.71        | 23.5                   | 5.32                   | 929    |
| MW-15                  | 3/30/2023   | 2,160                                          | 990     | 16.6      | 35.6         | 19.8          | 10.6                    | 3.80 J      | 8.70                   | 10.2                   | 1,062  |
|                        | 5/23/2023   | 2,340                                          | 92.8    | <10.0     | 45.1         | 11.2 J        | <10.0                   | <50 UJ      | <10.0                  | <10.0                  | 154    |
|                        | 9/20/2023   | 2,590                                          | 250     | 2.96      | 20.9         | 2.98 J        | 6.43                    | 1.84 J      | <10.0                  | <10.0                  | 277    |
|                        | 11/7/2023   | 709                                            | 28.7    | 0.377 J   | 14.5         | 2.69 J        | <1.00                   | 3.84 J      | 0.73 J                 | 0.16 J                 | 46.3   |
|                        | 2/26/2024   | 940                                            | 27.6    | 0.518     | 33.2         | 6.20          | <1.00                   | 6.10        | 10.4                   | <1.00                  | 67.5   |

Please see notes at end of table.

**Table B-2**  
**Groundwater Analytical Results**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well Number                         | Sample Date | Concentrations in µg/L |             |                |                |                |                         |               |                        |                        |             |
|------------------------------------------------|-------------|------------------------|-------------|----------------|----------------|----------------|-------------------------|---------------|------------------------|------------------------|-------------|
|                                                |             | TPH-G                  | Benzene     | Toluene        | Ethylbenzene   | Total Xylenes  | Methyl tert-butyl ether | Naphthalene   | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | BTEX        |
| MW-15                                          | 4/8/2024    | <b>1,010</b>           | <b>35.1</b> | <b>0.895</b>   | <b>28.5</b>    | <b>3.26</b>    | <1.00                   | <b>5.31</b>   | <b>11.0</b>            | <1.00                  | <b>67.8</b> |
|                                                | 7/22/2024   | <b>344</b>             | <b>8.93</b> | <b>0.706 J</b> | <1.00          | <b>0.228 J</b> | <1.00                   | <b>1.98 J</b> | <1.00                  | <1.00                  | <b>10.4</b> |
|                                                | 10/21/2024  | <b>1,550 J</b>         | <b>24.2</b> | <b>3.19</b>    | <b>0.692 J</b> | <b>3.92</b>    | <b>7.72</b>             | <b>2.06 J</b> | <b>3.98 J</b>          | <b>0.269 J</b>         | <b>32.0</b> |
| Groundwater to Indoor                          | Chronic     | --                     | 650         | 160,000        | 420,000        | 200,000        | 1,600,000               | 83,000        | --                     | --                     | --          |
| Air - Commercial                               | Acute       | 520                    | 12          | 150,000        | 31             | 3,300          | 3,200                   | 50            | 2,400                  | 1,700                  | --          |
| Groundwater in Excavation (RBC <sub>we</sub> ) |             | 14,000                 | 1,800       | 220,000        | 4,500          | 23,000         | 63,000                  | 500           | 6,300                  | 7,500                  | --          |

**Notes:**

1. Volatile organic compounds by EPA Method 8260D.
2. GRO = Gasoline range organics by NWTPH-Gx Method.
3. µg/L = Micrograms per liter.
4. Only compounds of potential interest are present in table.
5. **Bold** values indicate concentration detected above the method detection limit.
6. < = Concentration was not detected above the shown minimum reporting limit.
7. B = Analyte concentration is less than 10 times greater than a detection in the method blank and the result may be biased.
8. J = Result is an estimated value.
9. J- = Result is an estimated value and may be biased low.
10. UJ = The analyte was not detected but the reporting limit may be inaccurate or imprecise.
11. DEQ Human Health RBC = Risk-Based Concentrations from the DEQ's *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (updated June 2023).
12. Shaded values represent exceedances of applicable RBCs.

**Table B-3**  
**Soil Vapor Analytical Results**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Sample Location                                                            | Former Produce Market | Former Service Station Building |           |           |          |           |           |           | Turning Point Building |          |           |           |           |           |          |           | Outdoor Samples |           | RBC <sub>sv</sub> - Commercial |           |         |           |
|----------------------------------------------------------------------------|-----------------------|---------------------------------|-----------|-----------|----------|-----------|-----------|-----------|------------------------|----------|-----------|-----------|-----------|-----------|----------|-----------|-----------------|-----------|--------------------------------|-----------|---------|-----------|
| Sample ID                                                                  | SG-9                  | SG 1                            | SG 2      | SG-10     |          |           |           | SG-7      |                        |          |           | SG-8      |           |           |          | SG 3      | SG 6            |           |                                |           |         |           |
| Date                                                                       | 5/23/2019             | 5/9/2018                        | 5/10/2018 | 5/23/2019 | 4/4/2023 | 11/7/2023 | 2/26/2024 | 7/22/2024 | 5/23/2019              | 4/4/2023 | 11/7/2023 | 2/26/2024 | 7/22/2024 | 5/23/2019 | 4/4/2023 | 11/7/2023 | 2/26/2024       | 7/22/2024 | 5/10/2018                      | 5/10/2018 | Chronic | Acute     |
| Volatile Organic Compounds (VOCs) by EPA Method TO-15 in µg/m <sup>3</sup> |                       |                                 |           |           |          |           |           |           |                        |          |           |           |           |           |          |           |                 |           |                                |           |         |           |
| Acetone                                                                    | 38.3                  | 27.6                            | 9.98 J    | 212       | <2.97    | 20.5      | 9.08      | 20.0      | 1,360                  | <2.97    | 8.72      | 32.1      | 28.5      | 73.7      | 14.1     | 11.9      | 3.26            | 7.91      | 1,180                          | 5,680     | --      | 6,300,000 |
| Allyl Chloride                                                             | --                    | --                              | --        | --        | <0.626   | <0.626    | <0.626    | <0.626    | --                     | <0.626   | <0.626    | <0.626    | <0.626    | --        | <0.626   | <0.626    | <0.626          | <0.626    | --                             | --        | 68      | --        |
| Benzene                                                                    | 3.26                  | <1.28                           | <1.28 J   | 2.24      | <0.639   | 0.684     | <63.9     | <0.639    | <12.5                  | <0.639   | <0.639    | <0.639    | 0.818     | <1.28     | 0.684    | <0.639    | <0.639          | <0.639    | 11,400                         | 33.8      | 52      | 2,900     |
| Benzyl Chloride                                                            | --                    | --                              | --        | --        | <1.04    | <1.04     | <1.04     | <1.04     | --                     | <1.04    | <1.04     | <1.04     | <1.04     | --        | <1.04    | <1.04     | <1.04           | <1.04     | --                             | --        | 8.3     | 24,000    |
| Bromodichloromethane                                                       | --                    | --                              | --        | --        | <1.34    | <1.34     | <134      | <1.34     | --                     | <1.34    | <1.34     | <1.34     | <1.34     | --        | <1.34    | <1.34     | <1.34           | <1.34     | --                             | --        | 11      | --        |
| Bromoform                                                                  | --                    | --                              | --        | --        | <6.21    | <6.21     | <6.21     | <6.21     | --                     | <6.21    | <6.21     | <6.21     | <6.21     | --        | <6.21    | <6.21     | <6.21           | <6.21     | --                             | --        | 370     | --        |
| Bromomethane                                                               | --                    | --                              | --        | --        | <0.776   | <0.776    | <0.776    | <0.776    | --                     | <0.776   | <0.776    | <0.776    | <0.776    | --        | <0.776   | <0.776    | <0.776          | <0.776    | --                             | --        | 730     | 400,000   |
| 1,3-Butadiene                                                              | --                    | --                              | --        | --        | <4.43    | <4.43     | <4.43     | <4.43     | --                     | <4.43    | <4.43     | <4.43     | <4.43     | --        | <4.43    | <4.43     | <4.43           | <4.43     | --                             | --        | 14      | 67,000    |
| Carbon Disulfide                                                           | <1.24                 | 3.1                             | 2.8       | 3.46      | <0.622   | 0.890     | <0.622    | <1.24     | <12.4                  | <0.622   | <0.622    | 3.70      | <1.24     | <1.24     | 4.17     | <0.622    | <0.622          | 8.40      | 25.7                           | 7.77      | 100,000 | 630,000   |
| Carbon Tetrachloride                                                       | --                    | --                              | --        | --        | <1.26    | <1.26     | <1.26     | 1.26      | --                     | <1.26    | <1.26     | <1.26     | <1.26     | --        | <1.26    | <1.26     | <1.26           | <1.26     | --                             | --        | 68      | 190,000   |
| Chlorobenzene                                                              | --                    | --                              | --        | --        | <0.924   | <0.924    | <92.4     | <0.924    | --                     | <0.924   | <0.924    | <0.924    | <0.924    | --        | <0.924   | <0.924    | <0.924          | <0.924    | --                             | --        | 7,300   | --        |
| Chloroethane                                                               | --                    | --                              | --        | --        | 2.85     | <0.528    | <0.528    | <0.528    | --                     | <0.528   | <0.528    | 1.01      | <0.528    | --        | <0.528   | <0.528    | <0.528          | <0.528    | --                             | --        | 580,000 | 4,000,000 |
| Chloroform                                                                 | --                    | --                              | --        | --        | <0.973   | <0.973    | <0.973    | <0.973    | --                     | <0.973   | <0.973    | <0.973    | <0.973    | --        | <0.973   | <0.973    | <0.973          | <0.973    | --                             | --        | 18      | 50,000    |
| Chloromethane                                                              | --                    | --                              | --        | --        | 3.53     | 0.554     | <0.413    | 0.845     | --                     | <0.413   | 0.591     | 3.74      | <0.413    | --        | <0.413   | 1.06      | <0.413          | <0.413    | --                             | --        | 13,000  | 100,000   |
| 2-Chlorotoluene                                                            | --                    | --                              | --        | --        | <1.03    | <1.03     | <1.03     | <1.03     | --                     | <1.03    | <1.03     | <1.03     | <1.03     | --        | <1.03    | <1.03     | <1.03           | <1.03     | --                             | --        | --      | --        |
| Cyclohexane                                                                | <1.38                 | <1.38                           | <1.38     | <1.38     | 1.69     | 8.16      | 1,540     | <0.689    | <13.8                  | <0.689   | <0.689    | <0.689    | <0.689    | <1.38     | <0.689   | <0.689    | <0.689          | <0.689    | <1.38                          | 5,390     | 880,000 | --        |
| Chlorodibromomethane                                                       | --                    | --                              | --        | --        | <1.70    | <1.70     | <170      | <1.70     | --                     | <1.70    | <1.70     | <1.70     | <1.70     | --        | <1.70    | <1.70     | <1.70           | <1.70     | --                             | --        | --      | --        |
| 1,2-Dibromoethane                                                          | <3.08                 | <3.08                           | <3.08     | <3.08     | <1.54    | <1.54     | <154      | <1.54     | <30.8                  | <1.54    | <1.54     | <1.54     | <1.54     | <3.08     | <1.54    | <1.54     | <1.54           | <1.54     | <3.08                          | <3.08     | 0.68    | --        |
| 1,2-Dichlorobenzene                                                        | --                    | --                              | --        | --        | <1.20    | <1.20     | <1.20     | <1.20     | --                     | <1.20    | <1.20     | <1.20     | <1.20     | --        | <1.20    | <1.20     | <1.20           | <1.20     | --                             | --        | 29,000  | --        |
| 1,3-Dichlorobenzene                                                        | --                    | --                              | --        | --        | <1.20    | <1.20     | <1.20     | <1.20     | --                     | <1.20    | <1.20     | <1.20     | <1.20     | --        | <1.20    | <1.20     | <1.20           | <1.20     | --                             | --        | --      | --        |
| 1,4-Dichlorobenzene                                                        | --                    | --                              | --        | --        | <1.20    | <1.20     | <1.20     | <1.20     | --                     | <1.20    | <1.20     | <1.20     | <1.20     | --        | <1.20    | <1.20     | <1.20           | <1.20     | --                             | --        | 37      | 1,200,000 |
| 1,2-Dichloroethane                                                         | <1.62                 | <1.62                           | <1.62     | <1.62     | <0.810   | <0.810    | <81.0     | <0.810    | <16.2                  | <0.810   | <0.810    | <0.810    | <0.810    | <1.62     | <0.810   | <0.810    | <0.810          | <0.810    | <1.62                          | <1.62     | 16      | --        |
| 1,1-Dichloroethane                                                         | --                    | --                              | --        | --        | <0.802   | <0.802    | <0.802    | <0.802    | --                     | <0.802   | <0.802    | <0.802    | <0.802    | --        | <0.802   | <0.802    | <0.802          | <0.802    | --                             | --        | 260     | --        |
| 1,1-Dichloroethene                                                         | --                    | --                              | --        | --        | <0.793   | <0.793    | <0.793    | <0.793    | --                     | <0.793   | <0.793    | <0.793    | <0.793    | --        | <0.793   | <0.793    | <0.793          | <0.793    | --                             | --        | 29,000  | 20,000    |
| cis-1,2-Dichloroethene                                                     | --                    | --                              | --        | --        | 2.14     | <0.793    | <0.793    | <0.793    | --                     | <0.793   | <0.793    | <0.793    | <0.793    | --        | <0.793   | <0.793    | <0.793          | <0.793    | --                             | --        | 5,800   | --        |
| trans-1,2-Dichloroethene                                                   | --                    | --                              | --        | --        | <0.793   | <0.793    | <0.793    | <0.793    | --                     | <0.793   | <0.793    | <0.793    | <0.793    | --        | <0.793   | <0.793    | <0.793          | <0.793    | --                             | --        | 5,800   | 80,000    |
| 1,2-Dichloropropane                                                        | --                    | --                              | --        | --        | <0.924   | <0.924    | <92.4     | <0.924    | --                     | <0.924   | <0.924    | <0.924    | <0.924    | --        | <0.924   | <0.924    | <0.924          | <0.924    | --                             | --        | 110     | 23,000    |
| cis-1,3-Dichloropropene                                                    | --                    | --                              | --        | --        | <0.908   | <0.908    | <90.8     | <0.908    | --                     | <0.908   | <0.908    | <0.908    | <0.908    | --        | <0.908   | <0.908    | <0.908          | <0.908    | --                             | --        | 100     | 3,700     |
| trans-1,3-Dichloropropene                                                  | --                    | --                              | --        | --        | <0.908   | <0.908    | <90.8     | <0.908    | --                     | <0.908   | <0.908    | <0.908    | <0.908    | --        | <0.908   | <0.908    | <0.908          | <0.908    | --                             | --        | 100     | 3,700     |
| 1,4-Dioxane                                                                | <1.44                 | --                              | --        | <1.44     | <0.721   | <0.721    | <227      | <2.27     | <14.4                  | <0.721   | <0.721    | <2.27     | <2.27     | 3.52      | <0.721   | <0.721    | <2.27           | <2.27     | --                             | --        | 82      | 730,000   |
| Ethanol                                                                    | 98.9                  | 70.5                            | 17.9 J    | 259       | <4.71    | 58.6      | 7.94      | 5.51      | 1,380                  | 35.3     | 14.9      | 78.6      | 51.1      | 43.7      | 54.3     | 31.1      | 4.98 B          | 6.00      | 22.5                           | 23.3      | --      | --        |
| Ethylbenzene                                                               | 17.5                  | 4.84                            | <1.73     | <1.73     | <0.867   | <0.867    | <0.867    | <0.867    | 45.1                   | 2.37     | 2.44      | 1.03      | 1.19      | <1.73     | 5.20     | <0.867    | <0.867          | <0.867    | 320                            | 4.52      | 160     | 2,200,000 |
| 4-Ethyltoluene                                                             | 10.4                  | 3.7                             | <1.96     | <1.96     | <0.982   | <0.982    | <0.982    | <0.982    | 516                    | <0.982   | 6.43      | 4.61      | 3.61      | 3.75      | <0.982   | <0.982    | <0.982          | <0.982    | 43.5                           | 2.2       | --      | --        |
| Trichlorofluoromethane                                                     | 3.49                  | <2.25                           | <2.25     | <3.07     | 1.20     | <1.12     | 1.20      | <1.12     | <22.5                  | <1.12    | 1.48      | 1.61      | 1.66      | 3.46      | <1.12    | 1.17      | 1.46            | 1.79      | 2.26                           | <2.25     | --      | --        |
| Dichlorodifluoromethane                                                    | 2.45                  | --                              | --        | 2.08      | 2.84     | 1.99      | 1.41      | 1.97      | <34.0                  | <0.989   | 1.70      | 1.16      | 1.48      | 2.27      | 2.11     | 2.06      | 1.36            | 1.66      | --                             | --        | 15,000  | --        |
| 1,1,2-Trichlorotrifluoroethane                                             | --                    | --                              | --        | --        | <1.53    | <1.53     | <1.53     | <1.53     | --                     | <1.53    | <1.53     | <1.53     | <1.53     | --        | <1.53    | <1.53     | <1.53           | <1.53     | --                             | --        | 730,000 | --        |
| 1,2-Dichlorotetrafluoroethane                                              | --                    | --                              | --        | --        | <1.40    | <1.40     | <1.40     | <1.40     | --                     | <1.40    | <1.40     | <1.40     | <1.40     | --        | <1.40    | <1.40     | <1.40           | <1.40     | --                             | --        | --      | --        |

Please see notes at end of table.

Table B-3  
Soil Vapor Analytical Results  
Former Johnson Oil  
Clatskanie, Oregon

| Sample Location                                                            | Former Produce Market | Former Service Station Building |           |           |          |           |           |           | Turning Point Building |          |           |           |           |           |          |           |           |           | Outdoor Samples |           | RBC <sub>sv</sub> - Commercial |           |
|----------------------------------------------------------------------------|-----------------------|---------------------------------|-----------|-----------|----------|-----------|-----------|-----------|------------------------|----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------------|-----------|--------------------------------|-----------|
| Sample ID                                                                  | SG-9                  | SG 1                            | SG 2      | SG-10     |          |           |           |           | SG-7                   |          |           |           |           | SG-8      |          |           |           |           | SG 3            | SG 6      | Chronic                        | Acute     |
| Date                                                                       | 5/23/2019             | 5/9/2018                        | 5/10/2018 | 5/23/2019 | 4/4/2023 | 11/7/2023 | 2/26/2024 | 7/22/2024 | 5/23/2019              | 4/4/2023 | 11/7/2023 | 2/26/2024 | 7/22/2024 | 5/23/2019 | 4/4/2023 | 11/7/2023 | 2/26/2024 | 7/22/2024 | 5/10/2018       | 5/10/2018 |                                |           |
| Volatile Organic Compounds (VOCs) by EPA Method TO-15 in µg/m <sup>3</sup> |                       |                                 |           |           |          |           |           |           |                        |          |           |           |           |           |          |           |           |           |                 |           |                                |           |
| Heptane                                                                    | 7.86                  | 10.6                            | <1.64     | <1.64     | 8.51     | 2.57      | 2,090     | <0.818    | <16.4                  | <0.818   | <0.818    | 0.830     | 1.21      | <1.64     | <0.818   | <0.818    | <0.818    | <0.818    | <1.64           | 409       | 58,000                         | --        |
| Hexachloro-1,3-butadiene                                                   | --                    | --                              | --        | --        | <6.73    | <6.73     | <6.73     | <6.73     | --                     | <6.73    | <6.73     | <6.73     | <6.73     | --        | <6.73    | <6.73     | <6.73     | <6.73     | --              | --        | 19                             | --        |
| n-Hexane                                                                   | 3.32                  | 4.32                            | <1.41     | 1.58      | 15.7     | <2.22     | 2,240     | <2.22     | <14.1                  | <2.22    | <2.22     | <2.22     | 2.34      | <1.41     | <2.22    | <2.22     | <2.22     | <2.22     | 40,100          | 3,020     | 100,000                        | --        |
| Isopropylbenzene                                                           | <1.97                 | <1.97                           | <1.97     | <1.97     | <0.983   | <0.983    | <0.983    | 5.11      | 60.6                   | 3.24     | 4.09      | <0.983    | 2.09      | <1.97     | <0.983   | <0.983    | <0.983    | <0.983    | 18.5            | 4.34      | 58,000                         | --        |
| Methylene Chloride                                                         | 3.99                  | 3.51                            | <1.39     | 2.89      | <0.694   | 5.17      | <0.694    | <0.694    | <13.9                  | <0.694   | 1.50      | <0.694    | 2.92      | 1.43      | <0.694   | 3.09      | <0.694    | <0.694    | <1.39           | <1.39     | 41,000                         | 210,000   |
| Methyl Butyl Ketone                                                        | --                    | --                              | --        | --        | <5.11    | <5.11     | <5.11     | <5.11     | --                     | <5.11    | <5.11     | <5.11     | <5.11     | --        | <5.11    | <5.11     | <5.11     | <5.11     | --              | --        | 4,400                          | --        |
| 2-Butanone (MEK)                                                           | <7.73                 | <7.37                           | <7.37     | 20.6      | <3.69    | 12.7      | <3.69     | 5.22      | 403                    | <3.69    | <3.69     | 3.98      | 11.1      | 16.1      | 9.94     | <3.69     | <3.69     | <3.69     | <7.37           | <7.37     | 730,000                        | 500,000   |
| 4-Methyl-2-pentanone (MIBK)                                                | --                    | --                              | --        | --        | <5.12    | <5.12     | <5.12     | <5.12     | --                     | <5.12    | <5.12     | <5.12     | 5.73      | --        | <5.12    | <5.12     | <5.12     | <5.12     | --              | --        | 440,000                        | --        |
| Methyl Methacrylate                                                        | --                    | --                              | --        | --        | <0.819   | <0.819    | <81.9     | <0.819    | --                     | <0.819   | <0.819    | <0.819    | <0.819    | --        | <0.819   | <0.819    | <0.819    | <0.819    | --              | --        | 100,000                        | --        |
| Methyl Tert Butyl Ether (MTBE)                                             | <1.44                 | <1.44                           | <1.44     | <1.44     | <0.721   | <0.721    | <0.721    | <0.721    | <14.4                  | <0.721   | <0.721    | <0.721    | <0.721    | <1.44     | <0.721   | <0.721    | <0.721    | <0.721    | <1.44           | <1.44     | 1,600                          | 800,000   |
| Naphthalene                                                                | <6.60                 | <6.60                           | <6.60     | <6.60     | <3.30    | <3.30     | <3.30     | <3.30     | 146                    | <3.30    | 9.32      | 71.2      | 9.95      | <6.60     | <3.30    | <3.30     | <3.30     | <3.30     | <6.60           | <6.60     | 12                             | 20,000    |
| 2-Propanol                                                                 | 11.9                  | 8.29                            | <6.15     | 19.4      | <3.07    | 49.9      | 5.19      | <3.07     | 263                    | <3.07    | 4.99      | 17.3      | 34.9      | 102       | 7.25     | 9.78      | 3.22      | <3.07     | <6.15           | <6.15     | 29,000                         | 320,000   |
| Propene                                                                    | <1.38                 | <1.38                           | 4.22      | 2.71      | <2.15    | <2.15     | <2.15     | <2.15     | <13.8                  | <2.15    | <2.15     | <2.15     | <2.15     | 1.43      | <2.15    | <2.15     | <2.15     | <2.15     | 422             | 2,090     | 440,000                        | --        |
| n-Propylbenzene                                                            | 2.36                  | <1.96                           | <1.96     | <1.96     | <0.982   | <0.982    | <0.982    | <0.982    | 134                    | 6.97     | 8.2       | <0.982    | 4.02      | <1.96     | <0.982   | <0.982    | <0.982    | <0.982    | <1.96           | <1.96     | 150,000                        | --        |
| Styrene                                                                    | <1.70                 | <1.70                           | <1.70     | <1.70     | <0.851   | <0.851    | <0.851    | <1.70     | <17.0                  | <0.851   | <0.851    | <0.851    | <1.70     | <1.70     | <0.851   | <0.851    | <0.851    | <1.70     | 15              | <1.70     | 150,000                        | 2,100,000 |
| 1,1,2,2-Tetrachloroethane                                                  | --                    | --                              | --        | --        | <1.37    | <1.37     | <1.37     | <1.37     | --                     | <1.37    | <1.37     | <1.37     | <1.37     | --        | <1.37    | <1.37     | <1.37     | <1.37     | --              | --        | 7.1                            | --        |
| Tetrachloroethylene                                                        | <2.72                 | 5.69                            | 4.55      | 3.14      | <1.36    | <1.36     | <136      | 1.57      | <27.2                  | <1.36    | 2.96      | 1.84      | 5.27      | 5.31      | 6.22     | <1.36     | <1.36     | <1.36     | <2.72           | <2.72     | 1,600                          | 4,000     |
| Tetrahydrofuran                                                            | <1.18                 | <1.18                           | <1.18     | <1.18     | <0.590   | 1.30      | <0.590    | <0.590    | <11.8                  | <0.590   | <0.590    | <0.590    | 1.54      | 3.88      | <0.590   | <0.590    | <0.590    | <0.590    | <1.18           | <1.18     | 290,000                        | --        |
| Toluene                                                                    | 75.6                  | 15.8                            | 4.69 J    | 6.13      | <1.88    | 6.55      | <188      | 2.46      | 25.6                   | 4.44     | 3.35      | <1.88     | 5.46      | 3.04      | 10.1     | 3.09      | <1.88     | 1.88      | 1,060           | 21        | 730,000                        | 770,000   |
| 1,2,4-Trichlorobenzene                                                     | --                    | --                              | --        | --        | <4.66    | <4.66     | <4.66     | <4.66     | --                     | <4.66    | <4.66     | <4.66     | <4.66     | --        | <4.66    | <4.66     | <4.66     | <4.66     | --              | --        | 290                            | --        |
| 1,1,1-Trichloroethane                                                      | --                    | --                              | --        | --        | <1.09    | <1.09     | <1.09     | <1.09     | --                     | <1.09    | <1.09     | <1.09     | <1.09     | --        | <1.09    | <1.09     | <1.09     | <1.09     | --              | --        | 730,000                        | 1,100,000 |
| 1,1,2-Trichloroethane                                                      | --                    | --                              | --        | --        | <1.09    | <1.09     | <1.09     | <1.09     | --                     | <1.09    | <1.09     | <1.09     | <1.09     | --        | <1.09    | <1.09     | <1.09     | <1.09     | --              | --        | 26                             | --        |
| Trichloroethylene                                                          | --                    | --                              | --        | --        | 163      | <1.07     | <107      | <1.07     | --                     | <1.07    | <1.07     | <1.07     | <1.07     | --        | <1.07    | <1.07     | 1.78      | <1.07     | --              | --        | 100                            | 210       |
| 1,2,4-Trimethylbenzene                                                     | 8.58                  | 15.3                            | 2.5       | <1.96     | <0.982   | <0.982    | <0.982    | <0.982    | 844                    | 49.1     | 52.5      | 51.5      | 30.0      | 6.77      | 1.13     | <0.982    | <0.982    | <0.982    | 10.5            | 4.3       | 8,800                          | --        |
| 1,3,5-Trimethylbenzene                                                     | 3.31                  | 4.87                            | <1.96     | <1.96     | <0.982   | <0.982    | <0.982    | <0.982    | 320                    | 23.9     | 25.9      | 19.3      | 13.6      | <1.96     | <0.982   | <0.982    | <0.982    | <0.982    | 7.23            | <1.96     | 8,800                          | --        |
| 2,2,4-Trimethylpentane                                                     | 14.5                  | --                              | --        | <1.87     | <0.934   | <0.934    | 2,210     | <0.934    | <18.7                  | 1.45     | <1.07     | <0.934    | 0.976     | <1.87     | <0.934   | <0.934    | <0.934    | <0.934    | --              | --        | --                             | --        |
| Vinyl Chloride                                                             | --                    | --                              | --        | --        | 1.85     | <0.511    | <0.511    | <0.511    | --                     | <0.511   | <0.511    | <0.511    | <0.511    | --        | <0.511   | <0.511    | <0.511    | <0.511    | --              | --        | 93                             | 130,000   |
| Vinyl Bromide                                                              | --                    | --                              | --        | --        | <0.875   | <0.875    | <0.875    | <0.875    | --                     | <0.875   | <0.875    | <0.875    | <0.875    | --        | <0.875   | <0.875    | <0.875    | <0.875    | --              | --        | 27                             | --        |
| Vinyl Acetate                                                              | <1.41                 | <1.41                           | <1.41     | <1.41     | <0.704   | <0.704    | <2.22     | <2.22     | <14.1                  | <0.704   | <0.704    | <2.22     | <2.22     | <1.41     | <0.704   | <0.704    | <2.22     | <2.22     | <1.41           | 18.9      | 29,000                         | 20,000    |
| m&p-Xylene                                                                 | --                    | --                              | --        | --        | <1.73    | 1.82      | <1.73     | <1.73     | --                     | 12.0     | 12.1      | 6.07      | 5.51      | --        | 10.0     | <1.73     | <1.73     | <1.73     | --              | --        | --                             | --        |
| o-Xylene                                                                   | --                    | --                              | --        | --        | <0.867   | <0.867    | <0.867    | <0.867    | --                     | 9.93     | 10.6      | 4.73      | 3.92      | --        | 2.11     | <0.867    | <0.867    | <0.867    | --              | --        | 15,000                         | --        |
| TPH (GC/MS) Low Fraction                                                   | 953                   | 2,300                           | 479       | <413      | <826     | 1,160     | <82,600   | 1,320     | 39,200                 | 1,300 J+ | 1,400     | 967       | 843       | 531       | <826     | <826      | <826      | <826      | 358,000         | 256,000   | --                             | --        |
| Dichlorodifluoromethane                                                    | --                    | 2.12                            | <1.98     | --        | --       | --        | --        | --        | --                     | --       | --        | --        | --        | --        | --       | --        | --        | --        | <1.98           | <1.98     | --                             | --        |
| Total Xylenes                                                              | 89.4                  | 23.85                           | 7.32      | 3.81      | --       | --        | --        | --        | 377                    | --       | --        | --        | --        | 7.67      | --       | --        | --        | --        | 1,470           | 41.7      | 15,000                         | 870,000   |

Notes:

1. µg/m<sup>3</sup> = Micrograms per cubic meter.
2. **Bold** values indicate concentration detected above the minimum reporting limit.
3. Shaded values indicate concentrations detected above one or more applicable RBC.
4. *Italicized* values indicate a reporting limit above the applicable RBC
5. < = Concentration was not detected above the shown minimum reporting limit.
6. -- = Not available.
7. RBC<sub>sv</sub> = Soil Vapor Risk-Based Concentrations from the DEQ's *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (updated June 2023).

Table B-4  
Ambient Air Analytical Results  
Former Johnson Oil  
Clatskanie, Oregon

| Sample Location                                                                           | Produce Market | Turning Point Building |           |            |           |           |            |           |           | Former Service Station Building |           |           | Outdoor Samples |            |           |           | RBC <sub>air</sub> - Commercial |        |
|-------------------------------------------------------------------------------------------|----------------|------------------------|-----------|------------|-----------|-----------|------------|-----------|-----------|---------------------------------|-----------|-----------|-----------------|------------|-----------|-----------|---------------------------------|--------|
| Sample ID                                                                                 | AA-3           | AA-1                   | AA-2      | AMB-1      |           |           | AMB-2      |           |           | AMB-4                           |           |           | AA-BG           | AMB-3      |           |           | Chronic                         | Acute  |
| Date                                                                                      | 6/13/2018      | 6/13/2018              | 6/13/2018 | 11/13/2023 | 2/26/2024 | 7/30/2024 | 11/13/2023 | 2/26/2024 | 7/30/2024 | 11/13/2023                      | 2/26/2024 | 7/30/2024 | 6/13/2018       | 11/13/2023 | 2/26/2024 | 7/30/2024 |                                 |        |
| Volatile Organic Compounds (VOCs) by EPA Method TO-17 Passive RAD145 in µg/m <sup>3</sup> |                |                        |           |            |           |           |            |           |           |                                 |           |           |                 |            |           |           |                                 |        |
| Acetone                                                                                   | 4.66           | 32                     | 23.4      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <2.97           | --         | --        | --        | --                              | --     |
| Benzene                                                                                   | 0.281          | 1.29                   | 0.663     | 2.1        | 1.0       | 1.6       | 1.8        | 1.2       | 0.90      | 0.79                            | --        | <0.50     | 0.157           | 1.1        | 0.67      | <0.50     | 1.6                             | 87     |
| 2 Butanone (MEK)                                                                          | <3.69          | 4.82                   | 3.95      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <3.69           | --         | --        | --        | --                              | --     |
| Carbon tetrachloride                                                                      | 0.522          | 0.499                  | 0.5       | --         | --        | --        | --         | --        | --        | --                              | --        | --        | 0.48            | --         | --        | --        | --                              | --     |
| Chloroethane                                                                              | <0.106         | 0.256                  | <0.106    | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.107          | --         | --        | --        | --                              | --     |
| Chloromethane                                                                             | 1.24           | 2.54                   | 1.28      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | 1.16            | --         | --        | --        | --                              | --     |
| Cyclohexane                                                                               | --             | --                     | --        | 0.91       | 0.72      | 1.0       | 0.73       | 0.67      | 0.68      | 0.076                           | --        | <0.18     | --              | 0.19       | 0.86      | <0.18     | 26,000                          | --     |
| 1,2 Dibromoethane (EDB)                                                                   | <0.154         | <0.154                 | <0.154    | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.154          | --         | --        | --        | --                              | --     |
| 1,2 Dichloroethane (EDC)                                                                  | 0.113          | 0.292                  | 0.118     | --         | --        | --        | --         | --        | --        | --                              | --        | --        | 0.097           | --         | --        | --        | --                              | --     |
| Dichlorodifluoromethane                                                                   | 2.13           | 1.99                   | 2.43      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | 1.97            | --         | --        | --        | --                              | --     |
| Ethanol                                                                                   | 8.1            | 172                    | 136       | --         | --        | --        | --         | --        | --        | --                              | --        | --        | 1.84            | --         | --        | --        | --                              | --     |
| Ethylbenzene                                                                              | 1.14           | 2.96                   | 2.6       | 2.8        | 1.00      | 1.4       | 2.7        | 1.1       | 0.72      | 0.16                            | --        | <0.14     | <0.130          | 0.2        | 0.12      | <0.14     | 4.9                             | 66,000 |
| 4 Ethyltoluene                                                                            | <0.982         | 1.27                   | <0.982    | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.982          | --         | --        | --        | --                              | --     |
| Heptane                                                                                   | <0.818         | 1.42                   | 0.858     | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.818          | --         | --        | --        | --                              | --     |
| n Hexane                                                                                  | <0.705         | 1.18                   | 1.1       | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.705          | --         | --        | --        | --                              | --     |
| Isopropylbenzene                                                                          | <0.983         | <0.983                 | <0.983    | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.983          | --         | --        | --        | --                              | --     |
| Methyl tert butyl ether                                                                   | <0.721         | <0.721                 | <0.721    | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.721          | --         | --        | --        | --                              | --     |
| Methylene Chloride                                                                        | 1.67           | 1.38                   | 1.9       | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.694          | --         | --        | --        | --                              | --     |
| Naphthalene                                                                               | <3.3           | <3.3                   | <3.3      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <3.3            | --         | --        | --        | --                              | --     |
| 2 Propanol                                                                                | <3.07          | 8.56                   | 4.55      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <3.07           | --         | --        | --        | --                              | --     |
| n Propylbenzene                                                                           | <0.982         | <0.982                 | <0.982    | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.982          | --         | --        | --        | --                              | --     |
| Styrene                                                                                   | <0.851         | 0.87                   | <0.851    | 0.62       | 0.36      | <0.16     | 0.66       | 0.52      | <0.16     | 0.19                            | --        | <0.16     | <0.851          | 0.25       | 0.085     | <0.16     | 4,400                           | 63,000 |
| Tetrachloroethene                                                                         | <0.136         | 0.29                   | 0.175     | 0.079      | 0.053     | <0.17     | 0.095      | 0.056     | <0.17     | 1.000                           | --        | 0.65      | <0.136          | 0.065      | 0.044     | <0.17     | 47                              | 120    |
| Tetrahydrofuran                                                                           | <0.590         | 4.02                   | 3.58      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.590          | --         | --        | --        | --                              | --     |
| Toluene                                                                                   | 1.52           | 8.56                   | 6.85      | 18 E       | 6.7 E     | 12        | 18 E       | >6.3 S    | 6.2       | 0.81                            | --        | 0.21      | <0.753          | 0.90       | 0.64      | 0.28      | 22,000                          | 23,000 |
| 1,1,1 Trichloroethane                                                                     | <0.109         | 0.672                  | 0.503     | <0.058     | <0.05     | <0.14     | <0.058     | <0.05     | <0.14     | <0.058                          | --        | <0.14     | <0.109          | <0.058     | <0.05     | <0.14     | 3                               | 6.3    |
| Trichloroethylene                                                                         | --             | --                     | --        | <0.021     | <0.018    | <0.14     | <0.021     | <0.018    | <0.14     | 0.042                           | --        | <0.14     | --              | <0.021     | <0.018    | <0.14     | 3                               | 6.3    |

Please see notes at end of table.

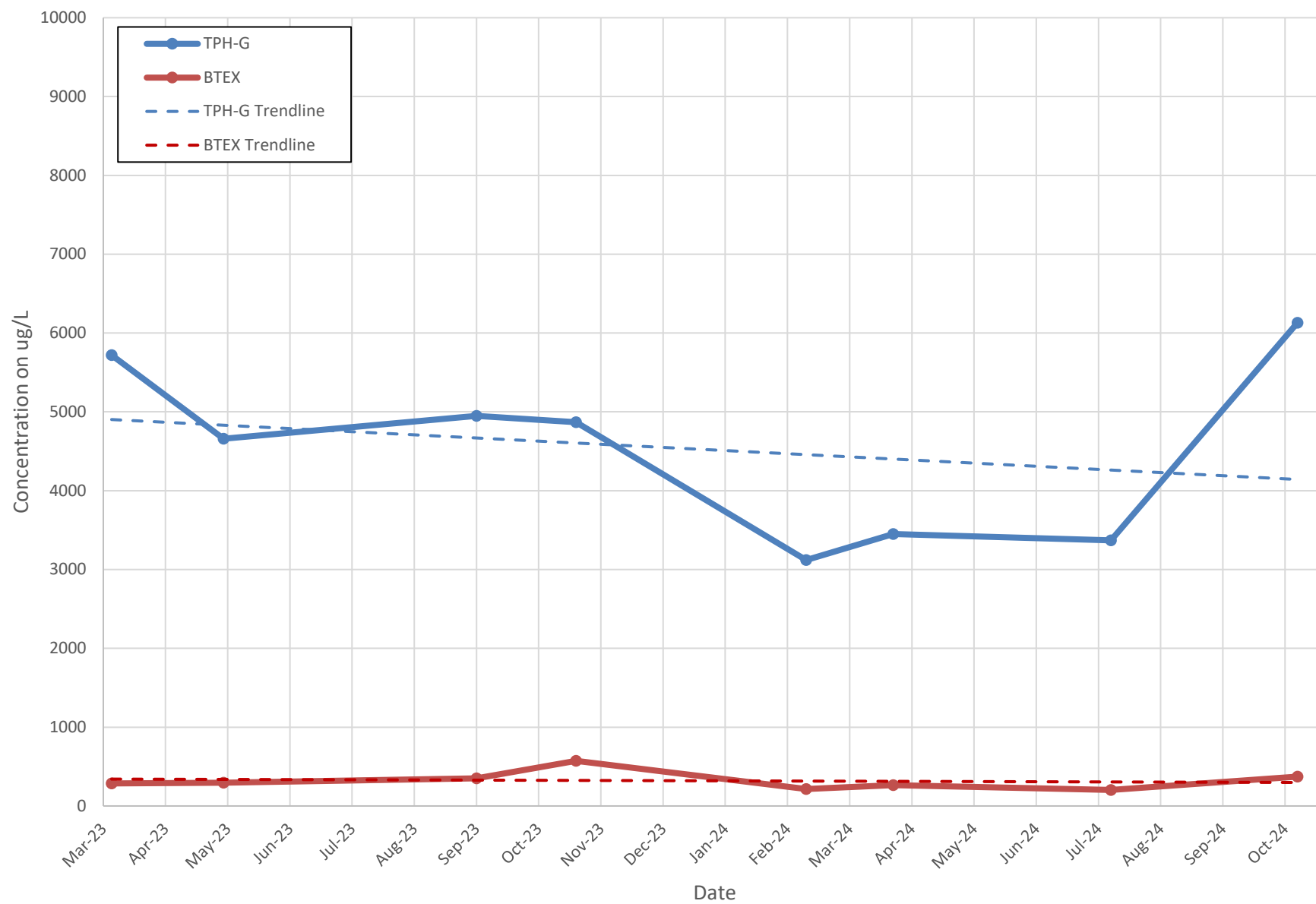
**Table B-4**  
**Ambient Air Analytical Results**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Sample Location                                                                           | Produce Market | Turning Point Building |           |            |           |           |            |           |           | Former Service Station Building |           |           | Outdoor Samples |            |           |           | RBC <sub>air</sub> - Commercial |       |
|-------------------------------------------------------------------------------------------|----------------|------------------------|-----------|------------|-----------|-----------|------------|-----------|-----------|---------------------------------|-----------|-----------|-----------------|------------|-----------|-----------|---------------------------------|-------|
| Sample ID                                                                                 | AA-3           | AA-1                   | AA-2      | AMB-1      |           |           | AMB-2      |           |           | AMB-4                           |           |           | AA-BG           | AMB-3      |           |           | Chronic                         | Acute |
| Date                                                                                      | 6/13/2018      | 6/13/2018              | 6/13/2018 | 11/13/2023 | 2/26/2024 | 7/30/2024 | 11/13/2023 | 2/26/2024 | 7/30/2024 | 11/13/2023                      | 2/26/2024 | 7/30/2024 | 6/13/2018       | 11/13/2023 | 2/26/2024 | 7/30/2024 |                                 |       |
| Volatile Organic Compounds (VOCs) by EPA Method TO-17 Passive RAD145 in µg/m <sup>3</sup> |                |                        |           |            |           |           |            |           |           |                                 |           |           |                 |            |           |           |                                 |       |
| Trichlorofluoromethane                                                                    | 1.44           | 2.73                   | 2.26      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | 1.30            | --         | --        | --        | --                              | --    |
| 1,2,4 Trimethylbenzene                                                                    | <0.982         | 1.6                    | 1.5       | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.982          | --         | --        | --        | --                              | --    |
| 1,3,5 Trimethylbenzene                                                                    | <0.982         | <0.982                 | <0.982    | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.982          | --         | --        | --        | --                              | --    |
| 2,2,4 Trimethylpentane                                                                    | <0.934         | 1.12                   | 1.25      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.934          | --         | --        | --        | --                              | --    |
| Vinyl Acetate                                                                             | <0.070         | 0.143                  | 0.167     | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <0.070          | --         | --        | --        | --                              | --    |
| m&p-Xylene                                                                                | --             | --                     | --        | 11 E       | 3.8 E     | 6.0       | 3.600      | 3.900     | 2.9       | 0.5                             | --        | 0.16      | --              | 0.55       | 0.34      | 0.16      | 880                             | --    |
| o-Xylene                                                                                  | --             | --                     | --        | 3.6        | 1.4       | 2.0       | 0.66       | 1.5       | 0.93      | 0.19                            | --        | <0.15     | --              | 0.22       | 0.14      | <0.15     | 440                             | --    |
| Total Xylenes                                                                             | 2.09           | 14.31                  | 14.36     | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <1.73           | --         | --        | --        | --                              | --    |
| TPH-Low Fraction                                                                          | <207           | <207                   | <207      | --         | --        | --        | --         | --        | --        | --                              | --        | --        | <207            | --         | --        | --        | --                              | --    |

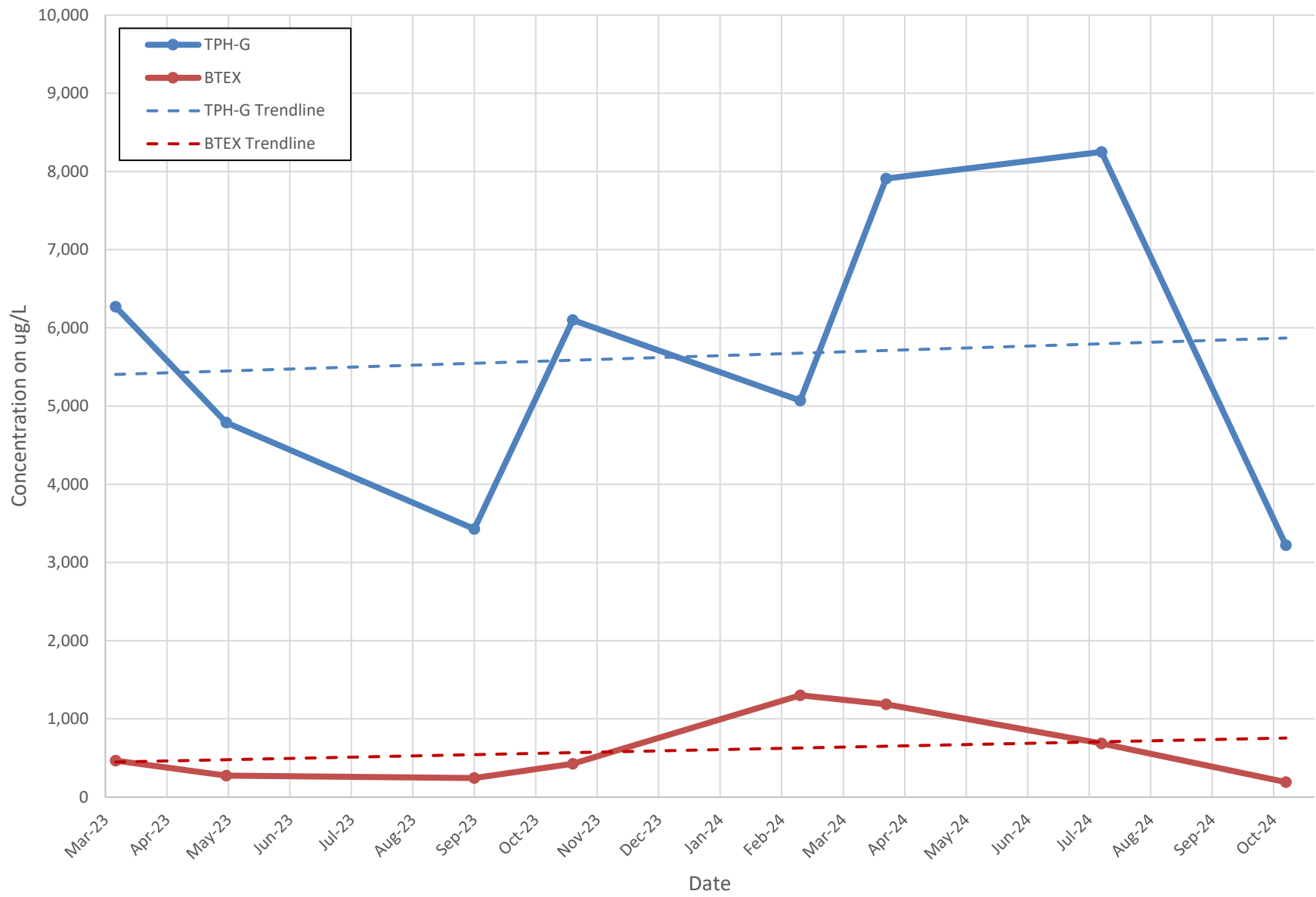
**Notes:**

1.  $\mu\text{g}/\text{m}^3$  = Micrograms per cubic meter.
2. Bold values indicate concentration detected above the minimum reporting limit.
3. Shaded values indicate concentrations detected above one or more applicable RBC.
4. -- = Not available.
5. E = Estimated concentration that may be biased high.
6. S = Saturated Peak; data reported as estimated
7. RBC<sub>air</sub> = Ambient Air Risk-Based Concentrations from the DEQ's *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (updated June 2023).
8. TP = Turning Point building, OD = outdoor, FS = former station building

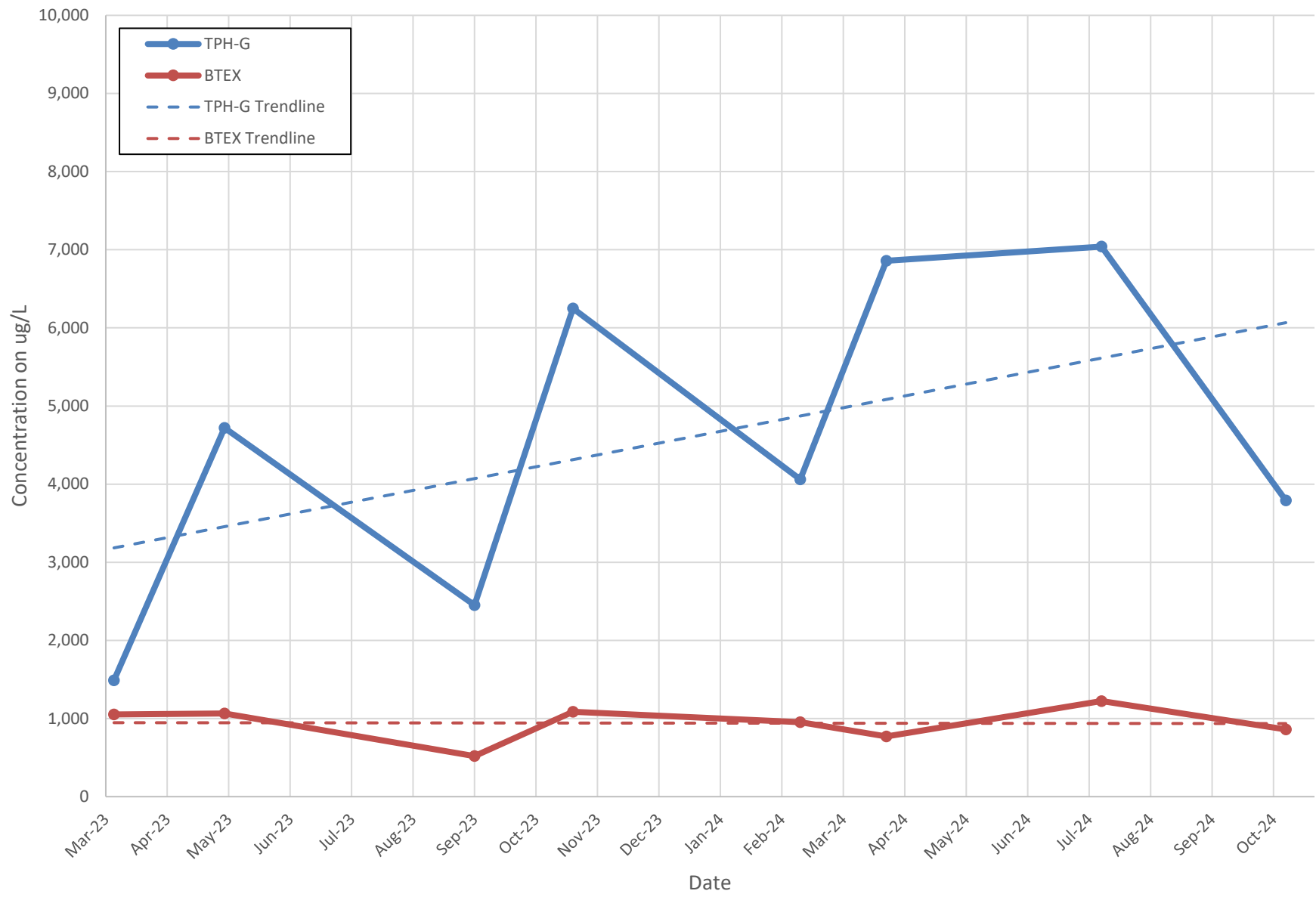
# MW-4



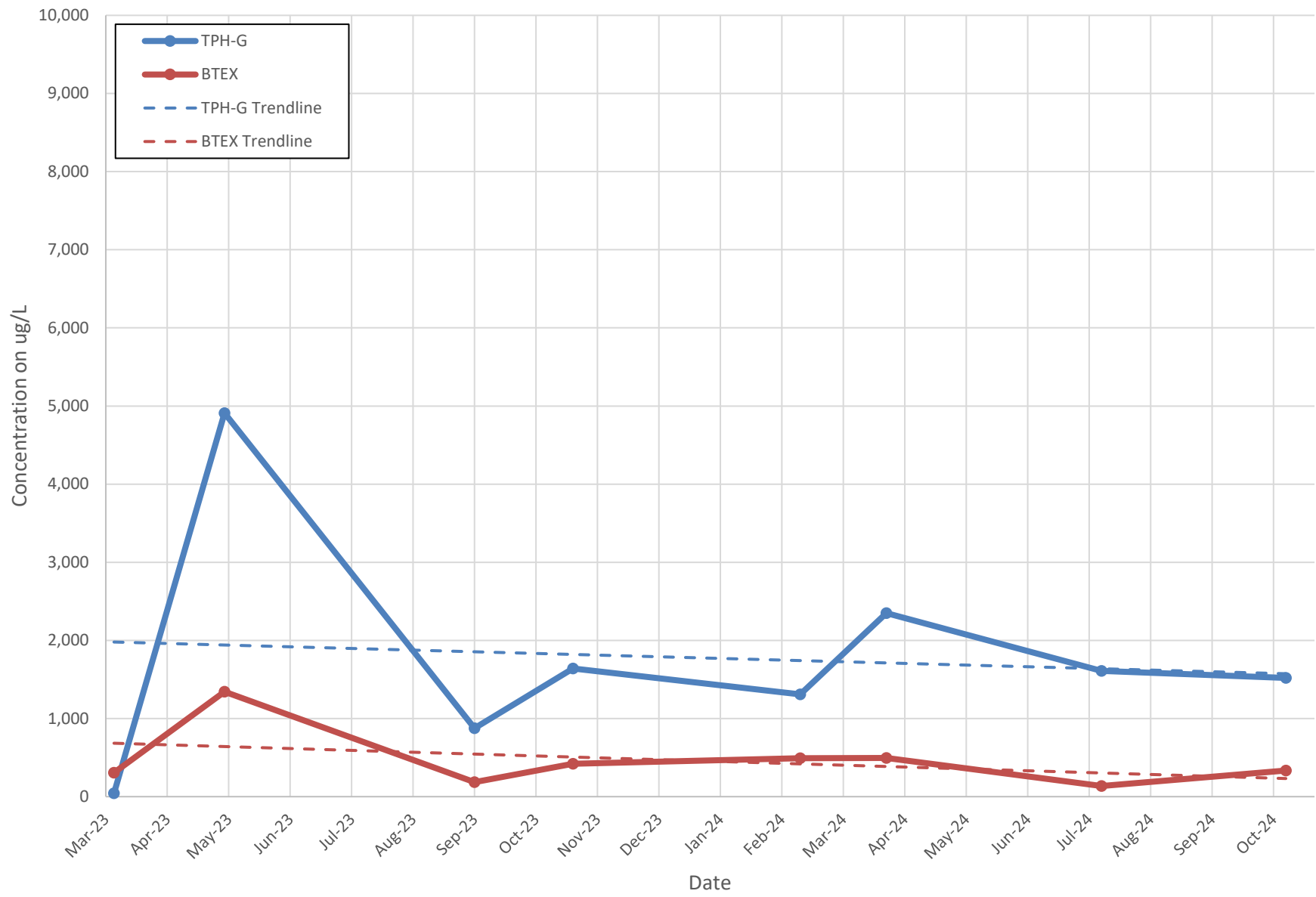
# MW-5



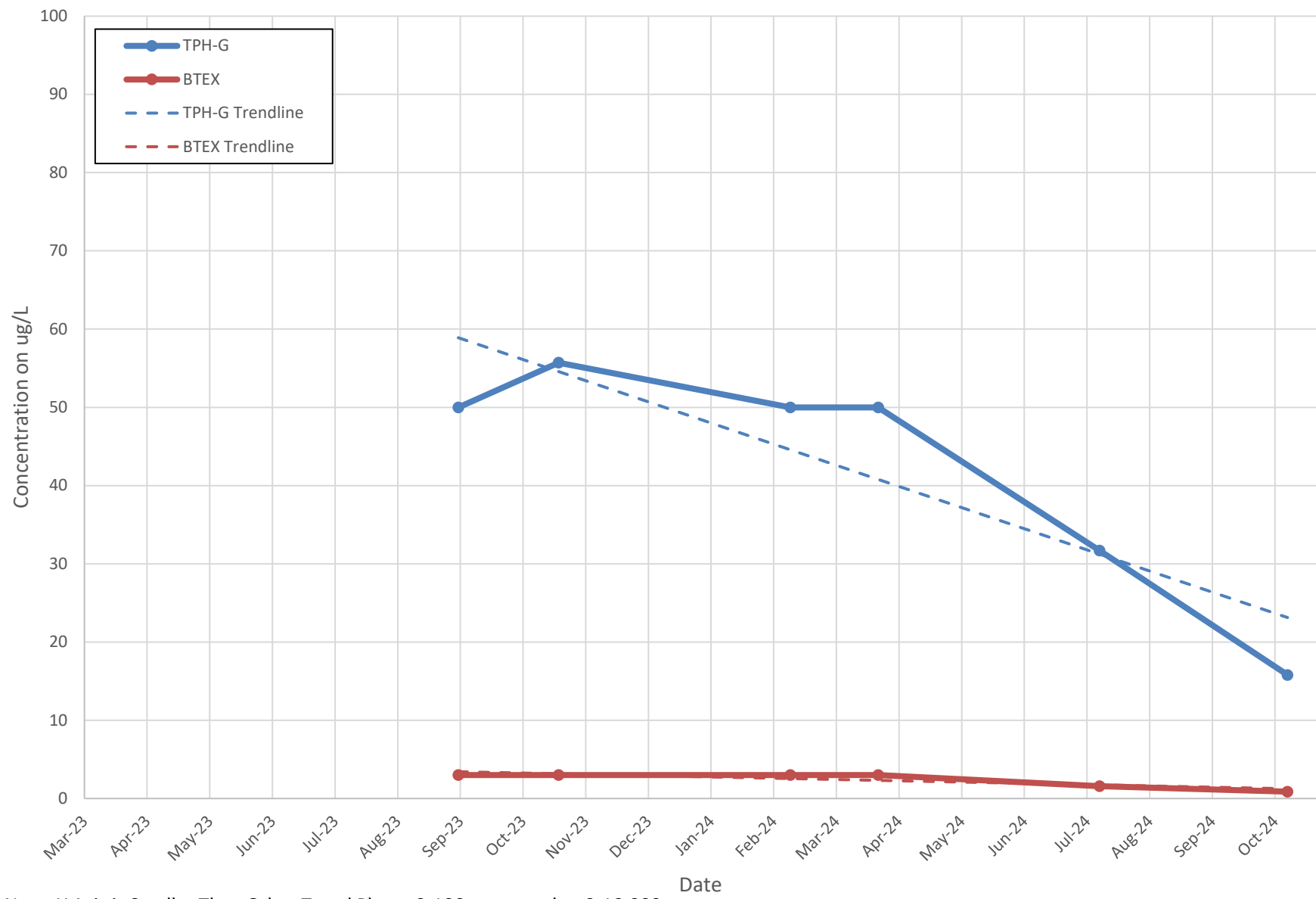
# MW-6



# MW-7

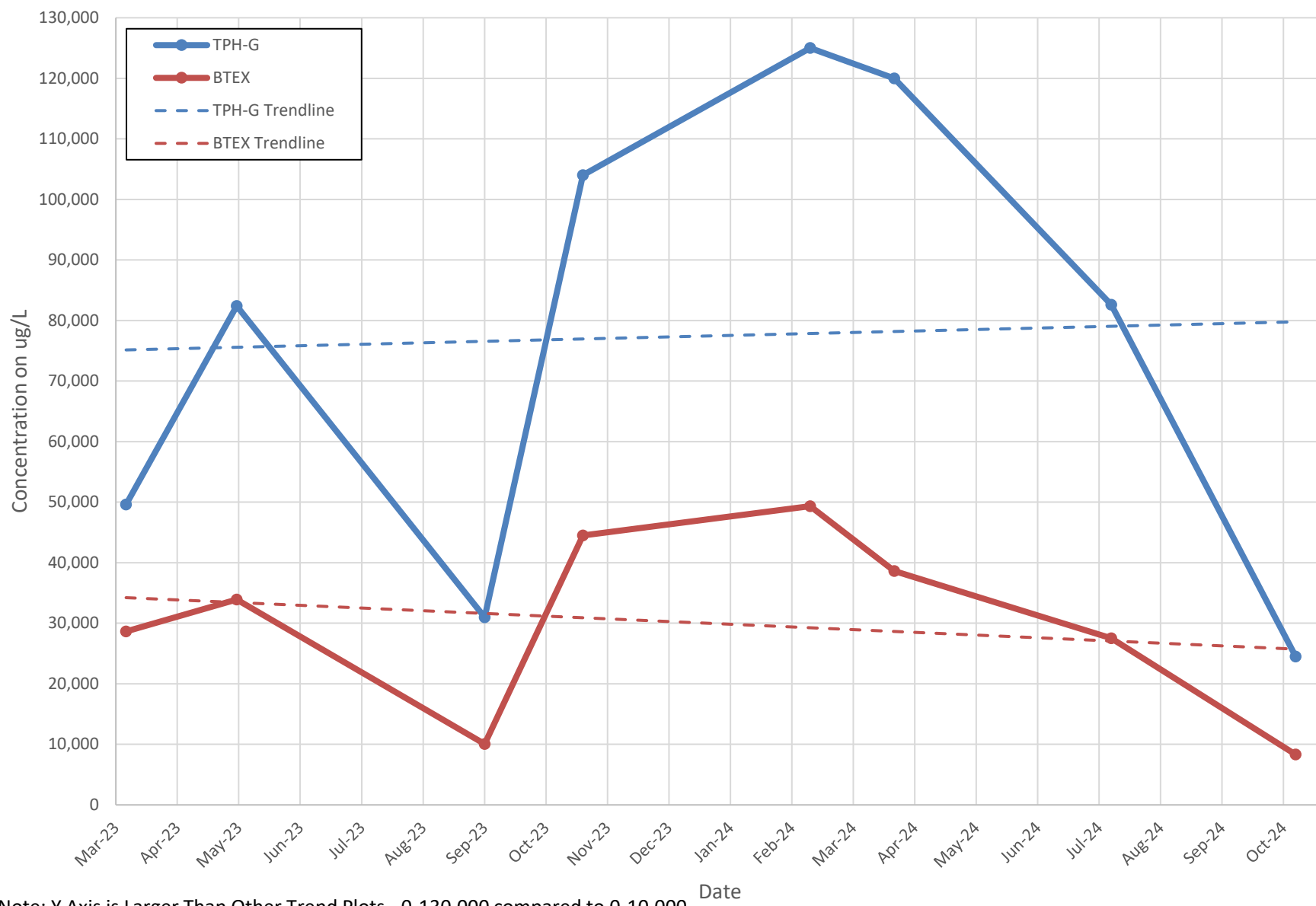


## MW-9



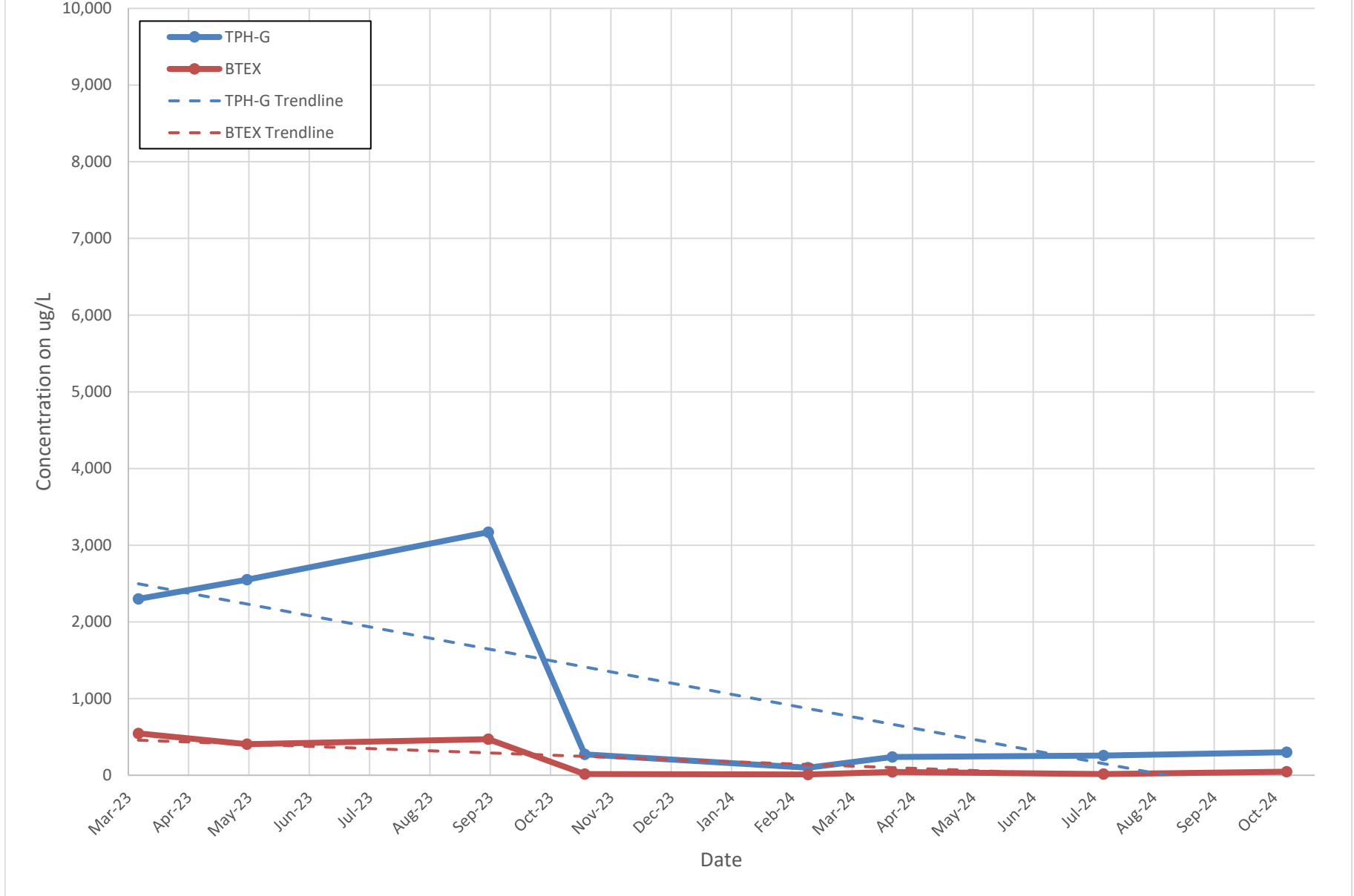
Note: Y Axis is Smaller Than Other Trend Plots - 0-100 compared to 0-10,000

## MW-12

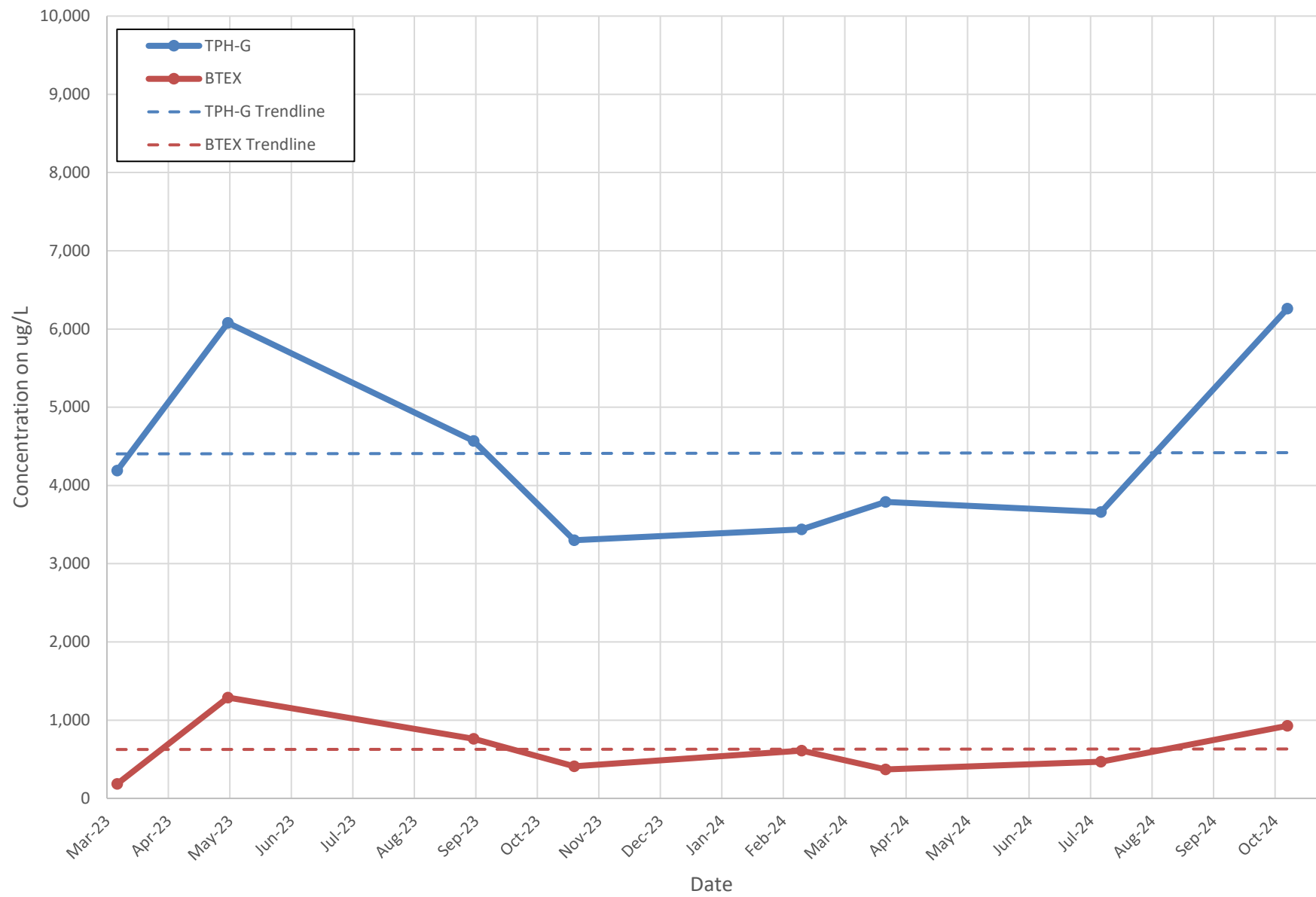


Note: Y Axis is Larger Than Other Trend Plots - 0-130,000 compared to 0-10,000

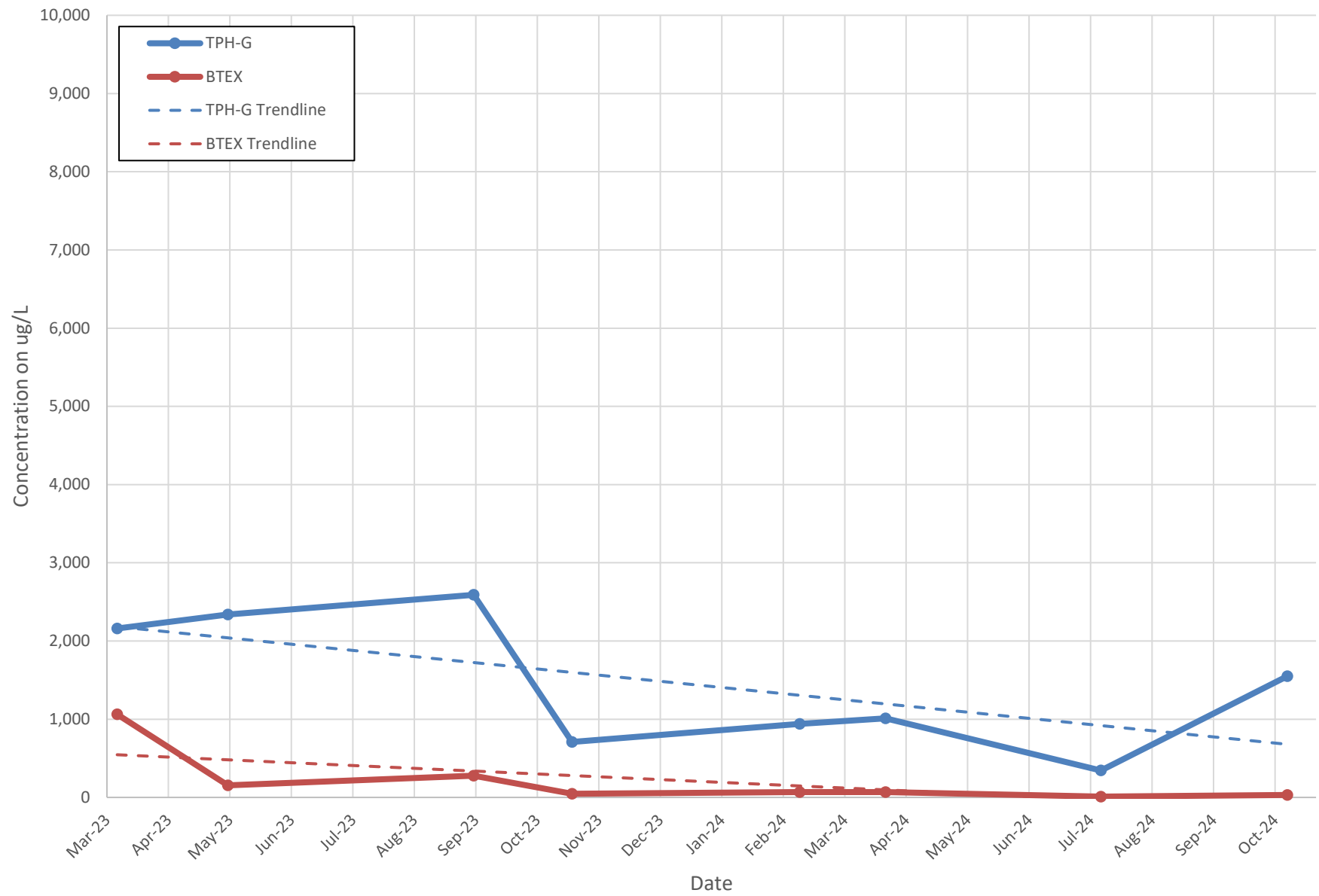
MW-13



# MW-14



# MW-15



## ***Appendix C***

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### **Laboratory Analytical Reports and Data Quality Review**

## ***Appendix C – QA/QC Review***

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This appendix documents the results of a quality assurance/quality control (QA/QC) review of the analytical data for the fourth quarter 2024 monitoring event at the former Johnson Oil Site in Clatskanie, Oregon. The groundwater samples were submitted to Pace Analytical Services, LLC (Pace) in Mt. Juliet, Tennessee under their Price Agreement with the Oregon Department of Environmental Quality (DEQ). Copies of the analytical laboratory reports are included in this appendix.

| <b>Laboratory Report</b> | <b>Date Reported</b> |
|--------------------------|----------------------|
| L1792371                 | November 5, 2024     |

### ***1.0 Analytical Methods***

Chemical analyses of groundwater samples included in this QA/QC Review consisted of the following:

- Total petroleum hydrocarbons as gasoline (TPH-Gx) by Northwest Method NWTPH-Gx; and
- Volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8260D.

### ***2.0 Data Validation***

The QA/QC review included examination and validation of the laboratory data packages for the following:

- Analytical preparation and quantitation methods;
- Analytical method holding times;
- Sample handling;
- Chain of custody procedures;
- Detection and reporting limits;
- Method blank detections;
- Laboratory control samples, matrix spikes, and surrogates to assess accuracy; and
- Laboratory control sample duplicates and matrix spike duplicates.

The QA/QC review did not include a review of raw data.

This QA/QC review documents the relationship between analytical findings and data quality objectives based on precision and accuracy. It also summarizes possible error or bias and the effect on data quality and usability.

The laboratory QC samples provided in data packages were used to evaluate laboratory contamination or background interferences, sample preparation efficiency and instrumentation performance. The QC samples

## ***Appendix C – QA/QC Review***

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provided by the analytical laboratory include method blanks, laboratory control samples (LCS/LCSD), and matrix spikes (MS/MSD). Surrogates are also required for VOC and TPH-Gx analysis to assess sample preparation efficiency and matrix interferences.

### **2.1 Data Qualifiers**

Any data that is found to have possible bias or error was qualified and flagged. The following are definitions of qualifiers used in this data quality report and data tables.

| <b>Qualifier</b> | <b>Definition</b>                                                                    |
|------------------|--------------------------------------------------------------------------------------|
| J                | Result is an estimated value.                                                        |
| J-               | Result is an estimated value and may be biased low.                                  |
| UJ               | The analyte was not detected but the reporting limit may be inaccurate or imprecise. |

## **3.0 Data Quality Assurance Review**

The general QA objectives for this project were to develop and implement procedures for obtaining, evaluating, and confirming the usability of data of a specified quality. To collect such information, analytical data must have an appropriate degree of accuracy and reproducibility, samples collected must be representative of actual field conditions, and samples must be collected and analyzed using unbroken chain of custody procedures.

Reporting limits and analytical results were compared to cleanup and screening levels for each parameter in the matrix of concern. Precision, accuracy, completeness, and comparability parameters used to indicate data quality are discussed below.

### **3.1 Reporting Limits**

Reporting limits are the lowest concentration an instrument is capable of accurately detecting an analyte. Reporting limits are determined by the laboratory and are based on instrumentation capabilities, the matrix of field samples, sample preparation procedures, and EPA suggested reporting limits.

The reporting limits were consistent with method standards and were generally below applicable screening level values. Several analytes were identified by the laboratory at concentrations that were between the laboratory minimum reporting limit (MRL) and the method detection limit (MDL). These concentrations are estimated values and have been 'J' flagged accordingly.

### **3.2 Holding Times and Sample Receipt**

The holding time is the minimum amount of time the sample can be stored before analytes start to degrade and are not representative of initial sampling concentrations. Holding times are defined by analytical methods and samples were analyzed within the method specified holding time.

The integrity of the groundwater and soil vapor samples received was documented by the Pace Analytical *Sample Receipt Checklist* or *Cooler Receipt Form*, which ensures that samples are representative of the field and were not compromised during shipment.

The chain of custody followed an unbroken procedure and was relinquished by the Apex Companies sampler and received by the analytical laboratory as indicated by signatures. The sample ID, collection time, and requested analyses were all clearly and properly filled in by the Apex Companies sampler.

The laboratory did not begin analysis of sample MW-13 until after the method specified holding time. The analysis was less than 24 hours past the 14-day method specific holding time limit. These results have been 'J-' flagged to indicate they are estimated concentrations that may be biased low. Not detected results are 'UJ' flagged.

### **3.3 Method Blanks**

A method – or laboratory – blank is a sample prepared in the laboratory along with the actual samples and analyzed for the same parameters at the same time. It is used to assess if detected compounds may have been the result of contamination or background levels in the laboratory. No analytes were detected in the method blanks.

### **3.4 Accuracy**

Accuracy is assessed through the comparison of analytes of known concentration to concentrations determined analytically. A percent recovery is calculated from the analytical concentration to the known concentration of analyte, which must be within control limits established by methods. If the percent recovery is outside of control limits, then data might be compromised. The analytical laboratory will provide quality control samples and surrogates to help determine the accuracy of the data provided. These quality control samples and surrogates are discussed below.

#### **3.4.1 Laboratory Control Samples**

Laboratory control samples (LCS) and laboratory control duplicate samples (LCSD) were analyzed by the laboratory to assess the analytical methods. One set of LCS and LCSDs were analyzed per analytical batch. The samples were prepared from an analyte-free matrix that is then spiked with known levels of constituents

## **Appendix C – QA/QC Review**

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of interest (COI; i.e. a standard). The concentrations were measured, and the results compared to the known spiked levels. This comparison is expressed as a percent recovery.

The LCS associated with batch WG2393762 observed concentrations outside of recovery limits for chloromethane and dichlorodifluoromethane. These analytes are not target compounds and are not reported in the data tables, therefore, no data was flagged.

### **3.4.2 Matrix Samples**

A matrix spike QC sample is used to assess the performance of the analytical method by determining potential matrix interferences. Matrix spike (MS) and matrix spike duplicate (MSD) analyses are performed on one environmental sample per analytical batch. A matrix spike sample uses an environmental sample that is spiked with known concentrations of analytes of interest. The matrix spike is then prepared and analyzed with the same analytical procedures as environmental samples in the analytical batch. The resulting concentration of the matrix spike is then compared to the known – or true – values added to the non-spiked environmental sample concentration. This comparison is expressed as a percent recovery. No matrix samples (MS/MSD) were included in this laboratory data set.

### **3.4.3 Surrogates**

Surrogates are organic compounds that are similar in chemical composition to the analytes of interest but are not likely to be found in the environment. They are spiked into environmental and batch QC samples prior to sample preparation and analysis. Surrogate recoveries for environmental samples are used to evaluate matrix interference and sample preparation and analysis efficiency on a sample-specific basis. Surrogates were recovered within control limits.

### **3.4.4 Continuing Calibration Verification**

Continuing calibration verification samples are analyzed at method-specified intervals to assess the performance and accuracy of the instrumentation. The continuing calibration standard was outside quality control limits for bromomethane, 1,2-dibromo-3-chloropropane, naphthalene, 1,2,3-trichlorobenzene in all samples. These analytes are not contaminants of concern, but results should be considered estimated.

## **3.5 Precision**

Precision is measured by how close concentrations of duplicate analyses are to each other. These duplicate analyses are of separate aliquots of the same sample that are prepared or analyzed at the same (or similar) time. Precision in the field ensures that samples taken are representative of field concentrations. Field precision is demonstrated by field duplicates. Analytical precision is measured by the laboratory through duplicate analysis of samples and quality control samples. Precision is estimated by the relative percent difference (RPD) between the original analysis and the duplicate analysis.

## ***Appendix C – QA/QC Review***

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### ***3.5.1 Laboratory Control Sample Duplicates***

LCSD analyte concentrations were compared to LCS analyte concentrations to assess the precision of the analytical method. This comparison can be expressed by the relative percent difference (RPD) between the LCS and LCSD samples. RPD values for LCS/LCSDs were within control limits.

### ***3.5.2 Matrix Spike Duplicate***

Similar to the LCS/LCSD, the analytical batch MS/MSD analyte concentrations are also compared to each other and expressed as an RPD. RPD values for MS/MSDs were within control limits.

### ***3.5.3 Field Duplicate***

A field duplicate is a second field sample collected from a selected sample location. Field duplicate samples serve as a check on laboratory precision, sampling quality, and potential variability of the sample matrix. The field duplicate is analyzed and compared to the original sample to assess precision. This comparison can be expressed by the RPD between the original and duplicate samples. RPDs between the primary and duplicate sample at MW-14 were below the 30 percent limit.

## **4.0 Conclusion**

In conclusion, the QA objectives have been met and the data are of sufficient quality for use in this project.

**Oregon Dept. of Env. Quality - ODEQ**

Sample Delivery Group: L1792371  
Samples Received: 10/24/2024  
Project Number: 24008422  
Description: Johnson Oil

Report To: Kara Master

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [mydata.pacelabs.com](https://mydata.pacelabs.com)

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|                 |
|-----------------|
| <sup>1</sup> Cp |
| <sup>2</sup> Tc |
| <sup>3</sup> Ss |
| <sup>4</sup> Cn |
| <sup>5</sup> Sr |
| <sup>6</sup> Qc |
| <sup>7</sup> Gl |
| <sup>8</sup> Al |
| <sup>9</sup> Sc |

# SAMPLE SUMMARY

## MW-4 L1792371-01 GW

|                                                    |           |          |                       | Collected by       | Collected date/time | Received date/time |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                    |           |          |                       |                    | 10/21/24 14:33      | 10/24/24 09:00     |
| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2391919 | 1        | 10/30/24 13:54        | 10/30/24 13:54     | DWR                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 09:28        | 11/02/24 09:28     | ACG                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2395107 | 10       | 11/05/24 07:08        | 11/05/24 07:08     | ACG                 | Mt. Juliet, TN     |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## MW-5 L1792371-02 GW

|                                                    |           |          |                       | Collected by       | Collected date/time | Received date/time |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                    |           |          |                       |                    | 10/21/24 13:42      | 10/24/24 09:00     |
| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2391919 | 1        | 10/30/24 14:17        | 10/30/24 14:17     | DWR                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 09:49        | 11/02/24 09:49     | ACG                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2395107 | 10       | 11/05/24 07:29        | 11/05/24 07:29     | ACG                 | Mt. Juliet, TN     |

## MW-6 L1792371-03 GW

|                                                    |           |          |                       | Collected by       | Collected date/time | Received date/time |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                    |           |          |                       |                    | 10/21/24 15:16      | 10/24/24 09:00     |
| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2393772 | 20       | 11/02/24 02:27        | 11/02/24 02:27     | ACG                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 10:11        | 11/02/24 10:11     | ACG                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2395107 | 20       | 11/05/24 07:51        | 11/05/24 07:51     | ACG                 | Mt. Juliet, TN     |

## MW-7 L1792371-04 GW

|                                                    |           |          |                       | Collected by       | Collected date/time | Received date/time |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                    |           |          |                       |                    | 10/21/24 15:48      | 10/24/24 09:00     |
| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2391948 | 1        | 10/30/24 05:25        | 10/30/24 05:25     | CDD                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 10:33        | 11/02/24 10:33     | ACG                 | Mt. Juliet, TN     |

## MW-9 L1792371-05 GW

|                                                    |           |          |                       | Collected by       | Collected date/time | Received date/time |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                    |           |          |                       |                    | 10/21/24 10:52      | 10/24/24 09:00     |
| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2391948 | 1        | 10/30/24 05:48        | 10/30/24 05:48     | CDD                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 10:54        | 11/02/24 10:54     | ACG                 | Mt. Juliet, TN     |

## MW-12 L1792371-06 GW

|                                                    |           |          |                       | Collected by       | Collected date/time | Received date/time |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                    |           |          |                       |                    | 10/21/24 16:36      | 10/24/24 09:00     |
| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2395169 | 10       | 11/05/24 01:03        | 11/05/24 01:03     | CDD                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 11:16        | 11/02/24 11:16     | ACG                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2395107 | 50       | 11/05/24 08:12        | 11/05/24 08:12     | ACG                 | Mt. Juliet, TN     |

## MW-13 L1792371-07 GW

|                                                    |           |          |                       | Collected by       | Collected date/time | Received date/time |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                    |           |          |                       |                    | 10/21/24 12:16      | 10/24/24 09:00     |
| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2393772 | 1        | 11/02/24 02:04        | 11/02/24 02:04     | ACG                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2395107 | 1        | 11/05/24 05:02        | 11/05/24 05:02     | ACG                 | Mt. Juliet, TN     |

ACCOUNT:

Oregon Dept. of Env. Quality - ODEQ

PROJECT:

24008422

SDG:

L1792371

DATE/TIME:

11/05/24 16:57

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# SAMPLE SUMMARY

## MW-14 L1792371-08 GW

Collected by

Collected date/time

Received date/time

10/21/24 13:02

10/24/24 09:00

| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2391948 | 1        | 10/30/24 07:27        | 10/30/24 07:27     | CDD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 12:00        | 11/02/24 12:00     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2395107 | 25       | 11/05/24 08:33        | 11/05/24 08:33     | ACG     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## MW-15 L1792371-09 GW

Collected by

Collected date/time

Received date/time

10/21/24 11:37

10/24/24 09:00

| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2395169 | 20       | 11/05/24 01:25        | 11/05/24 01:25     | CDD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 12:21        | 11/02/24 12:21     | ACG     | Mt. Juliet, TN |

## DUP L1792371-10 GW

Collected by

Collected date/time

Received date/time

10/21/24 13:10

10/24/24 09:00

| Method                                             | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2391948 | 1        | 10/30/24 08:11        | 10/30/24 08:11     | CDD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2393762 | 1        | 11/02/24 12:43        | 11/02/24 12:43     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2395107 | 25       | 11/05/24 08:54        | 11/05/24 08:54     | ACG     | Mt. Juliet, TN |

ACCOUNT:

Oregon Dept. of Env. Quality - ODEQ

PROJECT:

24008422

SDG:

L1792371

DATE/TIME:

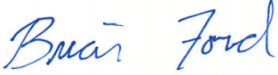
11/05/24 16:57

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# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 6130           |           | 31.6        | 100         | 1        | 10/30/2024 13:54        | <a href="#">WG2391919</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 102            |           |             | 78.0-120    |          | 10/30/2024 13:54        | <a href="#">WG2391919</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260D

| Analyte                     | Result<br>ug/l | Qualifier            | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|----------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |                      | 11.3        | 50.0        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Acrolein                    | U              |                      | 2.54        | 50.0        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Acrylonitrile               | U              |                      | 0.671       | 10.0        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Benzene                     | 140            |                      | 0.0941      | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Bromobenzene                | U              |                      | 0.118       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Bromodichloromethane        | U              |                      | 0.136       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Bromoform                   | U              |                      | 0.129       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Bromomethane                | U              | <a href="#">C3</a>   | 0.605       | 5.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| n-Butylbenzene              | 20.0           |                      | 0.157       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| sec-Butylbenzene            | 20.0           |                      | 0.125       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| tert-Butylbenzene           | 0.183          | <a href="#">J</a>    | 0.127       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Carbon disulfide            | U              |                      | 0.0962      | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Carbon tetrachloride        | U              |                      | 0.128       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Chlorobenzene               | U              |                      | 0.116       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Chlorodibromomethane        | U              |                      | 0.140       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Chloroethane                | U              |                      | 0.192       | 5.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Chloroform                  | U              |                      | 0.111       | 5.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Chloromethane               | U              | <a href="#">J4</a>   | 0.960       | 2.50        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 2-Chlorotoluene             | U              |                      | 0.106       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 4-Chlorotoluene             | U              |                      | 0.114       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,2-Dibromo-3-Chloropropane | U              | <a href="#">C3</a>   | 0.276       | 5.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,2-Dibromoethane           | U              |                      | 0.126       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Dibromomethane              | U              |                      | 0.122       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,2-Dichlorobenzene         | U              |                      | 0.107       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,3-Dichlorobenzene         | U              |                      | 0.110       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,4-Dichlorobenzene         | U              |                      | 0.120       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Dichlorodifluoromethane     | U              | <a href="#">J4</a>   | 0.374       | 5.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethane          | U              |                      | 0.100       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,2-Dichloroethane          | U              |                      | 0.0819      | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethene          | U              |                      | 0.188       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| cis-1,2-Dichloroethene      | U              |                      | 0.126       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| trans-1,2-Dichloroethene    | U              |                      | 0.149       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,2-Dichloropropane         | U              |                      | 0.149       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,1-Dichloropropene         | U              |                      | 0.142       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 1,3-Dichloropropane         | U              |                      | 0.110       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| cis-1,3-Dichloropropene     | U              |                      | 0.111       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| trans-1,3-Dichloropropene   | U              |                      | 0.118       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 2,2-Dichloropropane         | U              |                      | 0.161       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Di-isopropyl ether          | U              |                      | 0.105       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Ethylbenzene                | 221            | <a href="#">Q</a>    | 1.37        | 10.0        | 10       | 11/05/2024 07:08        | <a href="#">WG2395107</a> |
| Hexachloro-1,3-butadiene    | U              |                      | 0.337       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Isopropylbenzene            | 79.5           |                      | 0.105       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| p-Isopropyltoluene          | 0.208          | <a href="#">J</a>    | 0.120       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 2-Butanone (MEK)            | U              |                      | 1.19        | 10.0        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Methylene Chloride          | U              |                      | 0.430       | 5.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| 4-Methyl-2-pentanone (MIBK) | U              |                      | 0.478       | 10.0        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether     | U              |                      | 0.101       | 1.00        | 1        | 11/02/2024 09:28        | <a href="#">WG2393762</a> |
| Naphthalene                 | 324            | <a href="#">C5 Q</a> | 10.0        | 50.0        | 10       | 11/05/2024 07:08        | <a href="#">WG2395107</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| n-Propylbenzene                | 271            | Q         | 0.993       | 10.0        | 10       | 11/05/2024 07:08        | WG2395107 |
| Styrene                        | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.147       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.133       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.180       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| Tetrachloroethene              | U              |           | 0.300       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| Toluene                        | 4.28           |           | 0.278       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,2,3-Trichlorobenzene         | U              | C3        | 0.230       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.481       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,1,1-Trichloroethane          | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,1,2-Trichloroethane          | U              |           | 0.158       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| Trichloroethene                | U              |           | 0.190       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| Trichlorofluoromethane         | U              |           | 0.160       | 5.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,2,3-Trichloropropane         | U              |           | 0.237       | 2.50        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,2,4-Trimethylbenzene         | 0.366          | U         | 0.322       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,2,3-Trimethylbenzene         | 2.87           |           | 0.104       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| 1,3,5-Trimethylbenzene         | 0.156          | U         | 0.104       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| Vinyl chloride                 | U              |           | 0.234       | 1.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| Xylenes, Total                 | 8.50           |           | 0.174       | 3.00        | 1        | 11/02/2024 09:28        | WG2393762 |
| (S) Toluene-d8                 | 93.9           |           |             | 80.0-120    |          | 11/02/2024 09:28        | WG2393762 |
| (S) Toluene-d8                 | 110            |           |             | 80.0-120    |          | 11/05/2024 07:08        | WG2395107 |
| (S) 4-Bromofluorobenzene       | 99.6           |           |             | 77.0-126    |          | 11/02/2024 09:28        | WG2393762 |
| (S) 4-Bromofluorobenzene       | 107            |           |             | 77.0-126    |          | 11/05/2024 07:08        | WG2395107 |
| (S) 1,2-Dichloroethane-d4      | 90.2           |           |             | 70.0-130    |          | 11/02/2024 09:28        | WG2393762 |
| (S) 1,2-Dichloroethane-d4      | 115            |           |             | 70.0-130    |          | 11/05/2024 07:08        | WG2395107 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 3220           |           | 31.6        | 100         | 1        | 10/30/2024 14:17        | <a href="#">WG2391919</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 79.4           |           |             | 78.0-120    |          | 10/30/2024 14:17        | <a href="#">WG2391919</a> |

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

| Analyte                     | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |                    | 11.3        | 50.0        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Acrolein                    | U              |                    | 2.54        | 50.0        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Acrylonitrile               | U              |                    | 0.671       | 10.0        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Benzene                     | 34.4           |                    | 0.0941      | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Bromobenzene                | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Bromodichloromethane        | U              |                    | 0.136       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Bromoform                   | U              |                    | 0.129       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Bromomethane                | U              | <a href="#">C3</a> | 0.605       | 5.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| n-Butylbenzene              | 14.4           |                    | 0.157       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| sec-Butylbenzene            | 12.0           |                    | 0.125       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| tert-Butylbenzene           | U              |                    | 0.127       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Carbon disulfide            | U              |                    | 0.0962      | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Carbon tetrachloride        | U              |                    | 0.128       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Chlorobenzene               | U              |                    | 0.116       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Chlorodibromomethane        | U              |                    | 0.140       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Chloroethane                | U              |                    | 0.192       | 5.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Chloroform                  | U              |                    | 0.111       | 5.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Chloromethane               | U              | <a href="#">J4</a> | 0.960       | 2.50        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 2-Chlorotoluene             | U              |                    | 0.106       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 4-Chlorotoluene             | U              |                    | 0.114       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,2-Dibromo-3-Chloropropane | U              | <a href="#">C3</a> | 0.276       | 5.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,2-Dibromoethane           | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Dibromomethane              | U              |                    | 0.122       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,2-Dichlorobenzene         | U              |                    | 0.107       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,3-Dichlorobenzene         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,4-Dichlorobenzene         | U              |                    | 0.120       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Dichlorodifluoromethane     | U              | <a href="#">J4</a> | 0.374       | 5.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethane          | U              |                    | 0.100       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,2-Dichloroethane          | U              |                    | 0.0819      | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethene          | U              |                    | 0.188       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| cis-1,2-Dichloroethene      | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| trans-1,2-Dichloroethene    | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,2-Dichloropropane         | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,1-Dichloropropene         | U              |                    | 0.142       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 1,3-Dichloropropane         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| cis-1,3-Dichloropropene     | U              |                    | 0.111       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| trans-1,3-Dichloropropene   | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 2,2-Dichloropropane         | U              |                    | 0.161       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Di-isopropyl ether          | U              |                    | 0.105       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Ethylbenzene                | 145            |                    | 0.137       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Hexachloro-1,3-butadiene    | U              |                    | 0.337       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Isopropylbenzene            | 71.5           |                    | 0.105       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| p-Isopropyltoluene          | 0.459          | <a href="#">J</a>  | 0.120       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 2-Butanone (MEK)            | U              |                    | 1.19        | 10.0        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Methylene Chloride          | U              |                    | 0.430       | 5.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| 4-Methyl-2-pentanone (MIBK) | U              |                    | 0.478       | 10.0        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether     | U              |                    | 0.101       | 1.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |
| Naphthalene                 | 60.0           |                    | 1.00        | 5.00        | 1        | 11/02/2024 09:49        | <a href="#">WG2393762</a> |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| n-Propylbenzene                | 304            | Q         | 0.993       | 10.0        | 10       | 11/05/2024 07:29        | WG2395107 |
| Styrene                        | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.147       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.133       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.180       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| Tetrachloroethene              | U              |           | 0.300       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| Toluene                        | 2.67           |           | 0.278       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,2,3-Trichlorobenzene         | U              | C3        | 0.230       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.481       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,1,1-Trichloroethane          | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,1,2-Trichloroethane          | U              |           | 0.158       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| Trichloroethene                | U              |           | 0.190       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| Trichlorofluoromethane         | U              |           | 0.160       | 5.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,2,3-Trichloropropane         | U              |           | 0.237       | 2.50        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,2,4-Trimethylbenzene         | 0.350          | U         | 0.322       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,2,3-Trimethylbenzene         | 3.96           |           | 0.104       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| 1,3,5-Trimethylbenzene         | 0.527          | U         | 0.104       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| Vinyl chloride                 | U              |           | 0.234       | 1.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| Xylenes, Total                 | 9.70           |           | 0.174       | 3.00        | 1        | 11/02/2024 09:49        | WG2393762 |
| (S) Toluene-d8                 | 95.6           |           |             | 80.0-120    |          | 11/02/2024 09:49        | WG2393762 |
| (S) Toluene-d8                 | 110            |           |             | 80.0-120    |          | 11/05/2024 07:29        | WG2395107 |
| (S) 4-Bromofluorobenzene       | 102            |           |             | 77.0-126    |          | 11/02/2024 09:49        | WG2393762 |
| (S) 4-Bromofluorobenzene       | 103            |           |             | 77.0-126    |          | 11/05/2024 07:29        | WG2395107 |
| (S) 1,2-Dichloroethane-d4      | 93.8           |           |             | 70.0-130    |          | 11/02/2024 09:49        | WG2393762 |
| (S) 1,2-Dichloroethane-d4      | 113            |           |             | 70.0-130    |          | 11/05/2024 07:29        | WG2395107 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 3790           |           | 632         | 2000        | 20       | 11/02/2024 02:27        | <a href="#">WG2393772</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.5           |           |             | 78.0-120    |          | 11/02/2024 02:27        | <a href="#">WG2393772</a> |

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

| Analyte                     | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |                    | 11.3        | 50.0        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Acrolein                    | U              |                    | 2.54        | 50.0        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Acrylonitrile               | U              |                    | 0.671       | 10.0        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Benzene                     | 619            | <a href="#">Q</a>  | 1.88        | 20.0        | 20       | 11/05/2024 07:51        | <a href="#">WG2395107</a> |
| Bromobenzene                | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Bromodichloromethane        | U              |                    | 0.136       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Bromoform                   | U              |                    | 0.129       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Bromomethane                | U              | <a href="#">C3</a> | 0.605       | 5.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| n-Butylbenzene              | 10.1           |                    | 0.157       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| sec-Butylbenzene            | 13.2           |                    | 0.125       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| tert-Butylbenzene           | 0.160          | <a href="#">J</a>  | 0.127       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Carbon disulfide            | U              |                    | 0.0962      | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Carbon tetrachloride        | U              |                    | 0.128       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Chlorobenzene               | U              |                    | 0.116       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Chlorodibromomethane        | U              |                    | 0.140       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Chloroethane                | U              |                    | 0.192       | 5.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Chloroform                  | U              |                    | 0.111       | 5.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Chloromethane               | U              | <a href="#">J4</a> | 0.960       | 2.50        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 2-Chlorotoluene             | U              |                    | 0.106       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 4-Chlorotoluene             | U              |                    | 0.114       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,2-Dibromo-3-Chloropropane | U              | <a href="#">C3</a> | 0.276       | 5.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,2-Dibromoethane           | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Dibromomethane              | U              |                    | 0.122       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,2-Dichlorobenzene         | U              |                    | 0.107       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,3-Dichlorobenzene         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,4-Dichlorobenzene         | U              |                    | 0.120       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Dichlorodifluoromethane     | U              | <a href="#">J4</a> | 0.374       | 5.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethane          | U              |                    | 0.100       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,2-Dichloroethane          | U              |                    | 0.0819      | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethene          | U              |                    | 0.188       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| cis-1,2-Dichloroethene      | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| trans-1,2-Dichloroethene    | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,2-Dichloropropane         | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,1-Dichloropropene         | U              |                    | 0.142       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 1,3-Dichloropropane         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| cis-1,3-Dichloropropene     | U              |                    | 0.111       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| trans-1,3-Dichloropropene   | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 2,2-Dichloropropane         | U              |                    | 0.161       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Di-isopropyl ether          | U              |                    | 0.105       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Ethylbenzene                | 184            |                    | 0.137       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Hexachloro-1,3-butadiene    | U              |                    | 0.337       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Isopropylbenzene            | 101            |                    | 0.105       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| p-Isopropyltoluene          | 0.261          | <a href="#">J</a>  | 0.120       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 2-Butanone (MEK)            | U              |                    | 1.19        | 10.0        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Methylene Chloride          | U              |                    | 0.430       | 5.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| 4-Methyl-2-pentanone (MIBK) | U              |                    | 0.478       | 10.0        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether     | U              |                    | 0.101       | 1.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |
| Naphthalene                 | 9.13           |                    | 1.00        | 5.00        | 1        | 11/02/2024 10:11        | <a href="#">WG2393762</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| n-Propylbenzene                | 407            | Q         | 1.99        | 20.0        | 20       | 11/05/2024 07:51        | WG2395107 |
| Styrene                        | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.147       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.133       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.180       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| Tetrachloroethene              | U              |           | 0.300       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| Toluene                        | 14.5           |           | 0.278       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,2,3-Trichlorobenzene         | U              | C3        | 0.230       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.481       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,1,1-Trichloroethane          | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,1,2-Trichloroethane          | U              |           | 0.158       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| Trichloroethene                | U              |           | 0.190       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| Trichlorofluoromethane         | U              |           | 0.160       | 5.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,2,3-Trichloropropane         | U              |           | 0.237       | 2.50        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,2,4-Trimethylbenzene         | 8.97           |           | 0.322       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,2,3-Trimethylbenzene         | 2.80           |           | 0.104       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| 1,3,5-Trimethylbenzene         | 4.87           |           | 0.104       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| Vinyl chloride                 | U              |           | 0.234       | 1.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| Xylenes, Total                 | 43.8           |           | 0.174       | 3.00        | 1        | 11/02/2024 10:11        | WG2393762 |
| (S) Toluene-d8                 | 95.8           |           |             | 80.0-120    |          | 11/02/2024 10:11        | WG2393762 |
| (S) Toluene-d8                 | 110            |           |             | 80.0-120    |          | 11/05/2024 07:51        | WG2395107 |
| (S) 4-Bromofluorobenzene       | 102            |           |             | 77.0-126    |          | 11/02/2024 10:11        | WG2393762 |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 11/05/2024 07:51        | WG2395107 |
| (S) 1,2-Dichloroethane-d4      | 83.1           |           |             | 70.0-130    |          | 11/02/2024 10:11        | WG2393762 |
| (S) 1,2-Dichloroethane-d4      | 117            |           |             | 70.0-130    |          | 11/05/2024 07:51        | WG2395107 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 1520           |           | 31.6        | 100         | 1        | 10/30/2024 05:25        | <a href="#">WG2391948</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 94.5           |           |             | 78.0-120    |          | 10/30/2024 05:25        | <a href="#">WG2391948</a> |

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

| Analyte                     | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |                    | 11.3        | 50.0        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Acrolein                    | U              |                    | 2.54        | 50.0        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Acrylonitrile               | U              |                    | 0.671       | 10.0        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Benzene                     | 108            |                    | 0.0941      | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Bromobenzene                | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Bromodichloromethane        | U              |                    | 0.136       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Bromoform                   | U              |                    | 0.129       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Bromomethane                | U              | <a href="#">C3</a> | 0.605       | 5.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| n-Butylbenzene              | 0.689          | <a href="#">J</a>  | 0.157       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| sec-Butylbenzene            | 1.05           |                    | 0.125       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| tert-Butylbenzene           | 0.147          | <a href="#">J</a>  | 0.127       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Carbon disulfide            | U              |                    | 0.0962      | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Carbon tetrachloride        | U              |                    | 0.128       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Chlorobenzene               | U              |                    | 0.116       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Chlorodibromomethane        | U              |                    | 0.140       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Chloroethane                | U              |                    | 0.192       | 5.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Chloroform                  | U              |                    | 0.111       | 5.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Chloromethane               | U              | <a href="#">J4</a> | 0.960       | 2.50        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 2-Chlorotoluene             | U              |                    | 0.106       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 4-Chlorotoluene             | U              |                    | 0.114       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2-Dibromo-3-Chloropropane | U              | <a href="#">C3</a> | 0.276       | 5.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2-Dibromoethane           | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Dibromomethane              | U              |                    | 0.122       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2-Dichlorobenzene         | U              |                    | 0.107       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,3-Dichlorobenzene         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,4-Dichlorobenzene         | U              |                    | 0.120       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Dichlorodifluoromethane     | U              | <a href="#">J4</a> | 0.374       | 5.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethane          | U              |                    | 0.100       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2-Dichloroethane          | U              |                    | 0.0819      | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethene          | U              |                    | 0.188       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| cis-1,2-Dichloroethene      | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| trans-1,2-Dichloroethene    | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2-Dichloropropane         | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,1-Dichloropropene         | U              |                    | 0.142       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,3-Dichloropropane         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| cis-1,3-Dichloropropene     | U              |                    | 0.111       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| trans-1,3-Dichloropropene   | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 2,2-Dichloropropane         | U              |                    | 0.161       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Di-isopropyl ether          | U              |                    | 0.105       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Ethylbenzene                | 92.5           |                    | 0.137       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Hexachloro-1,3-butadiene    | U              |                    | 0.337       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Isopropylbenzene            | 17.0           |                    | 0.105       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| p-Isopropyltoluene          | 0.151          | <a href="#">J</a>  | 0.120       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 2-Butanone (MEK)            | U              |                    | 1.19        | 10.0        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Methylene Chloride          | U              |                    | 0.430       | 5.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 4-Methyl-2-pentanone (MIBK) | U              |                    | 0.478       | 10.0        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether     | 19.8           |                    | 0.101       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Naphthalene                 | 9.54           |                    | 1.00        | 5.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

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

| Analyte                        | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| n-Propylbenzene                | 31.4           |                    | 0.0993      | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Styrene                        | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,1,1,2-Tetrachloroethane      | U              |                    | 0.147       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,1,2,2-Tetrachloroethane      | U              |                    | 0.133       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |                    | 0.180       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Tetrachloroethene              | U              |                    | 0.300       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Toluene                        | 2.15           |                    | 0.278       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2,3-Trichlorobenzene         | U              | <a href="#">C3</a> | 0.230       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2,4-Trichlorobenzene         | U              |                    | 0.481       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,1,1-Trichloroethane          | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,1,2-Trichloroethane          | U              |                    | 0.158       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Trichloroethene                | U              |                    | 0.190       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Trichlorofluoromethane         | U              |                    | 0.160       | 5.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2,3-Trichloropropane         | U              |                    | 0.237       | 2.50        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2,4-Trimethylbenzene         | 34.0           |                    | 0.322       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,2,3-Trimethylbenzene         | 18.4           |                    | 0.104       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| 1,3,5-Trimethylbenzene         | 9.58           |                    | 0.104       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Vinyl chloride                 | U              |                    | 0.234       | 1.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| Xylenes, Total                 | 132            |                    | 0.174       | 3.00        | 1        | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| (S) Toluene-d8                 | 98.8           |                    |             | 80.0-120    |          | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| (S) 4-Bromofluorobenzene       | 103            |                    |             | 77.0-126    |          | 11/02/2024 10:33        | <a href="#">WG2393762</a> |
| (S) 1,2-Dichloroethane-d4      | 91.7           |                    |             | 70.0-130    |          | 11/02/2024 10:33        | <a href="#">WG2393762</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | U              |           | 31.6        | 100         | 1        | 10/30/2024 05:48        | <a href="#">WG2391948</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.4           |           |             | 78.0-120    |          | 10/30/2024 05:48        | <a href="#">WG2391948</a> |

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |           | 11.3        | 50.0        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Acrolein                    | U              |           | 2.54        | 50.0        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Acrylonitrile               | U              |           | 0.671       | 10.0        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Benzene                     | 0.247          | J         | 0.0941      | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Bromobenzene                | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Bromodichloromethane        | U              |           | 0.136       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Bromoform                   | U              |           | 0.129       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Bromomethane                | U              | C3        | 0.605       | 5.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| n-Butylbenzene              | U              |           | 0.157       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| sec-Butylbenzene            | U              |           | 0.125       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| tert-Butylbenzene           | U              |           | 0.127       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Carbon disulfide            | U              |           | 0.0962      | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Carbon tetrachloride        | U              |           | 0.128       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Chlorobenzene               | U              |           | 0.116       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Chlorodibromomethane        | U              |           | 0.140       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Chloroethane                | U              |           | 0.192       | 5.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Chloroform                  | U              |           | 0.111       | 5.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Chloromethane               | U              | J4        | 0.960       | 2.50        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 2-Chlorotoluene             | U              |           | 0.106       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 4-Chlorotoluene             | U              |           | 0.114       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2-Dibromo-3-Chloropropane | U              | C3        | 0.276       | 5.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2-Dibromoethane           | U              |           | 0.126       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Dibromomethane              | U              |           | 0.122       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.107       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.110       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.120       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Dichlorodifluoromethane     | U              | J4        | 0.374       | 5.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethane          | U              |           | 0.100       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2-Dichloroethane          | U              |           | 0.0819      | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.126       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2-Dichloropropane         | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,1-Dichloropropene         | U              |           | 0.142       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,3-Dichloropropane         | U              |           | 0.110       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.111       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 2,2-Dichloropropane         | U              |           | 0.161       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Di-isopropyl ether          | U              |           | 0.105       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Ethylbenzene                | 0.221          | J         | 0.137       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.337       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Isopropylbenzene            | U              |           | 0.105       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| p-Isopropyltoluene          | U              |           | 0.120       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 2-Butanone (MEK)            | U              |           | 1.19        | 10.0        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Methylene Chloride          | U              |           | 0.430       | 5.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 4-Methyl-2-pentanone (MIBK) | U              |           | 0.478       | 10.0        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether     | U              |           | 0.101       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Naphthalene                 | U              |           | 1.00        | 5.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| n-Propylbenzene                | 0.254          | U         | 0.0993      | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Styrene                        | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.147       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.133       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.180       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Tetrachloroethene              | U              |           | 0.300       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Toluene                        | U              |           | 0.278       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2,3-Trichlorobenzene         | U              | C3        | 0.230       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2,4-Trichlorobenzene         | U              |           | 0.481       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,1,1-Trichloroethane          | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,1,2-Trichloroethane          | U              |           | 0.158       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Trichloroethene                | U              |           | 0.190       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Trichlorofluoromethane         | U              |           | 0.160       | 5.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2,3-Trichloropropane         | U              |           | 0.237       | 2.50        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2,4-Trimethylbenzene         | U              |           | 0.322       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,2,3-Trimethylbenzene         | 0.106          | U         | 0.104       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| 1,3,5-Trimethylbenzene         | U              |           | 0.104       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Vinyl chloride                 | U              |           | 0.234       | 1.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| Xylenes, Total                 | 0.271          | U         | 0.174       | 3.00        | 1        | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| (S) Toluene-d8                 | 101            |           |             | 80.0-120    |          | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| (S) 4-Bromofluorobenzene       | 105            |           |             | 77.0-126    |          | 11/02/2024 10:54        | <a href="#">WG2393762</a> |
| (S) 1,2-Dichloroethane-d4      | 98.3           |           |             | 70.0-130    |          | 11/02/2024 10:54        | <a href="#">WG2393762</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 24500          |           | 316         | 1000        | 10       | 11/05/2024 01:03        | <a href="#">WG2395169</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 97.4           |           |             | 78.0-120    |          | 11/05/2024 01:03        | <a href="#">WG2395169</a> |

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

| Analyte                     | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |                    | 11.3        | 50.0        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Acrolein                    | U              |                    | 2.54        | 50.0        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Acrylonitrile               | U              |                    | 0.671       | 10.0        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Benzene                     | 3150           | <a href="#">Q</a>  | 4.71        | 50.0        | 50       | 11/05/2024 08:12        | <a href="#">WG2395107</a> |
| Bromobenzene                | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Bromodichloromethane        | U              |                    | 0.136       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Bromoform                   | U              |                    | 0.129       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Bromomethane                | U              | <a href="#">C3</a> | 0.605       | 5.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| n-Butylbenzene              | 18.2           |                    | 0.157       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| sec-Butylbenzene            | 17.1           |                    | 0.125       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| tert-Butylbenzene           | 0.586          | <a href="#">J</a>  | 0.127       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Carbon disulfide            | U              |                    | 0.0962      | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Carbon tetrachloride        | U              |                    | 0.128       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Chlorobenzene               | U              |                    | 0.116       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Chlorodibromomethane        | U              |                    | 0.140       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Chloroethane                | U              |                    | 0.192       | 5.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Chloroform                  | U              |                    | 0.111       | 5.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Chloromethane               | U              | <a href="#">J4</a> | 0.960       | 2.50        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 2-Chlorotoluene             | U              |                    | 0.106       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 4-Chlorotoluene             | U              |                    | 0.114       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,2-Dibromo-3-Chloropropane | U              | <a href="#">C3</a> | 0.276       | 5.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,2-Dibromoethane           | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Dibromomethane              | U              |                    | 0.122       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,2-Dichlorobenzene         | U              |                    | 0.107       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,3-Dichlorobenzene         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,4-Dichlorobenzene         | U              |                    | 0.120       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Dichlorodifluoromethane     | U              | <a href="#">J4</a> | 0.374       | 5.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethane          | U              |                    | 0.100       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,2-Dichloroethane          | U              |                    | 0.0819      | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethene          | U              |                    | 0.188       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| cis-1,2-Dichloroethene      | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| trans-1,2-Dichloroethene    | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,2-Dichloropropane         | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,1-Dichloropropene         | U              |                    | 0.142       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 1,3-Dichloropropane         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| cis-1,3-Dichloropropene     | U              |                    | 0.111       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| trans-1,3-Dichloropropene   | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 2,2-Dichloropropane         | U              |                    | 0.161       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Di-isopropyl ether          | U              |                    | 0.105       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Ethylbenzene                | 1450           | <a href="#">Q</a>  | 6.85        | 50.0        | 50       | 11/05/2024 08:12        | <a href="#">WG2395107</a> |
| Hexachloro-1,3-butadiene    | U              |                    | 0.337       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Isopropylbenzene            | 148            |                    | 0.105       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| p-Isopropyltoluene          | 14.3           |                    | 0.120       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 2-Butanone (MEK)            | U              |                    | 1.19        | 10.0        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Methylene Chloride          | U              |                    | 0.430       | 5.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| 4-Methyl-2-pentanone (MIBK) | U              |                    | 0.478       | 10.0        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether     | 16.6           |                    | 0.101       | 1.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |
| Naphthalene                 | 193            |                    | 1.00        | 5.00        | 1        | 11/02/2024 11:16        | <a href="#">WG2393762</a> |

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| n-Propylbenzene                | 502            | Q         | 4.97        | 50.0        | 50       | 11/05/2024 08:12        | WG2395107 |
| Styrene                        | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,1,1,2-Tetrachloroethane      | U              |           | 0.147       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,1,2,2-Tetrachloroethane      | U              |           | 0.133       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,1,2-Trichlorotrifluoroethane | U              |           | 0.180       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| Tetrachloroethene              | U              |           | 0.300       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| Toluene                        | 181            |           | 0.278       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,2,3-Trichlorobenzene         | U              | C3        | 0.230       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,2,4-Trichlorobenzene         | U              |           | 0.481       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,1,1-Trichloroethane          | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,1,2-Trichloroethane          | U              |           | 0.158       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| Trichloroethene                | U              |           | 0.190       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| Trichlorofluoromethane         | U              |           | 0.160       | 5.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,2,3-Trichloropropane         | U              |           | 0.237       | 2.50        | 1        | 11/02/2024 11:16        | WG2393762 |
| 1,2,4-Trimethylbenzene         | 1350           | Q         | 16.1        | 50.0        | 50       | 11/05/2024 08:12        | WG2395107 |
| 1,2,3-Trimethylbenzene         | 387            | Q         | 5.20        | 50.0        | 50       | 11/05/2024 08:12        | WG2395107 |
| 1,3,5-Trimethylbenzene         | 354            | Q         | 5.20        | 50.0        | 50       | 11/05/2024 08:12        | WG2395107 |
| Vinyl chloride                 | U              |           | 0.234       | 1.00        | 1        | 11/02/2024 11:16        | WG2393762 |
| Xylenes, Total                 | 3530           | Q         | 8.70        | 150         | 50       | 11/05/2024 08:12        | WG2395107 |
| (S) Toluene-d8                 | 107            |           |             | 80.0-120    |          | 11/02/2024 11:16        | WG2393762 |
| (S) Toluene-d8                 | 111            |           |             | 80.0-120    |          | 11/05/2024 08:12        | WG2395107 |
| (S) 4-Bromofluorobenzene       | 117            |           |             | 77.0-126    |          | 11/02/2024 11:16        | WG2393762 |
| (S) 4-Bromofluorobenzene       | 103            |           |             | 77.0-126    |          | 11/05/2024 08:12        | WG2395107 |
| (S) 1,2-Dichloroethane-d4      | 91.6           |           |             | 70.0-130    |          | 11/02/2024 11:16        | WG2393762 |
| (S) 1,2-Dichloroethane-d4      | 114            |           |             | 70.0-130    |          | 11/05/2024 08:12        | WG2395107 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 299            |           | 31.6        | 100         | 1        | 11/02/2024 02:04        | <a href="#">WG2393772</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 101            |           |             | 78.0-120    |          | 11/02/2024 02:04        | <a href="#">WG2393772</a> |

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

| Analyte                     | Result<br>ug/l | Qualifier            | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|----------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              | <a href="#">Q</a>    | 11.3        | 50.0        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Acrolein                    | U              | <a href="#">Q</a>    | 2.54        | 50.0        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Acrylonitrile               | U              | <a href="#">Q</a>    | 0.671       | 10.0        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Benzene                     | 21.6           | <a href="#">Q</a>    | 0.0941      | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Bromobenzene                | U              | <a href="#">Q</a>    | 0.118       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Bromodichloromethane        | U              | <a href="#">Q</a>    | 0.136       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Bromoform                   | U              | <a href="#">Q</a>    | 0.129       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Bromomethane                | U              | <a href="#">C3 Q</a> | 0.605       | 5.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| n-Butylbenzene              | 0.552          | <a href="#">J Q</a>  | 0.157       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| sec-Butylbenzene            | 2.43           | <a href="#">Q</a>    | 0.125       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| tert-Butylbenzene           | U              | <a href="#">Q</a>    | 0.127       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Carbon disulfide            | U              | <a href="#">Q</a>    | 0.0962      | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Carbon tetrachloride        | U              | <a href="#">Q</a>    | 0.128       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Chlorobenzene               | U              | <a href="#">Q</a>    | 0.116       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Chlorodibromomethane        | U              | <a href="#">Q</a>    | 0.140       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Chloroethane                | U              | <a href="#">Q</a>    | 0.192       | 5.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Chloroform                  | U              | <a href="#">Q</a>    | 0.111       | 5.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Chloromethane               | U              | <a href="#">C3 Q</a> | 0.960       | 2.50        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 2-Chlorotoluene             | U              | <a href="#">Q</a>    | 0.106       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 4-Chlorotoluene             | U              | <a href="#">Q</a>    | 0.114       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,2-Dibromo-3-Chloropropane | U              | <a href="#">Q</a>    | 0.276       | 5.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,2-Dibromoethane           | U              | <a href="#">Q</a>    | 0.126       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Dibromomethane              | U              | <a href="#">Q</a>    | 0.122       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,2-Dichlorobenzene         | U              | <a href="#">Q</a>    | 0.107       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,3-Dichlorobenzene         | U              | <a href="#">Q</a>    | 0.110       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,4-Dichlorobenzene         | U              | <a href="#">Q</a>    | 0.120       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Dichlorodifluoromethane     | U              | <a href="#">Q</a>    | 0.374       | 5.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,1-Dichloroethane          | U              | <a href="#">Q</a>    | 0.100       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,2-Dichloroethane          | U              | <a href="#">Q</a>    | 0.0819      | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,1-Dichloroethene          | U              | <a href="#">Q</a>    | 0.188       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| cis-1,2-Dichloroethene      | U              | <a href="#">Q</a>    | 0.126       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| trans-1,2-Dichloroethene    | U              | <a href="#">Q</a>    | 0.149       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,2-Dichloropropane         | U              | <a href="#">Q</a>    | 0.149       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,1-Dichloropropene         | U              | <a href="#">Q</a>    | 0.142       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 1,3-Dichloropropane         | U              | <a href="#">Q</a>    | 0.110       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| cis-1,3-Dichloropropene     | U              | <a href="#">Q</a>    | 0.111       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| trans-1,3-Dichloropropene   | U              | <a href="#">Q</a>    | 0.118       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 2,2-Dichloropropane         | U              | <a href="#">Q</a>    | 0.161       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Di-isopropyl ether          | U              | <a href="#">Q</a>    | 0.105       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Ethylbenzene                | 20.6           | <a href="#">Q</a>    | 0.137       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Hexachloro-1,3-butadiene    | U              | <a href="#">Q</a>    | 0.337       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Isopropylbenzene            | 4.78           | <a href="#">Q</a>    | 0.105       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| p-Isopropyltoluene          | 0.169          | <a href="#">J Q</a>  | 0.120       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 2-Butanone (MEK)            | U              | <a href="#">Q</a>    | 1.19        | 10.0        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Methylene Chloride          | U              | <a href="#">Q</a>    | 0.430       | 5.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| 4-Methyl-2-pentanone (MIBK) | U              | <a href="#">Q</a>    | 0.478       | 10.0        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Methyl tert-butyl ether     | U              | <a href="#">Q</a>    | 0.101       | 1.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |
| Naphthalene                 | 2.79           | <a href="#">J Q</a>  | 1.00        | 5.00        | 1        | 11/05/2024 05:02        | <a href="#">WG2395107</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte                        | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|--------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| n-Propylbenzene                | 7.16           | Q         | 0.0993      | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| Styrene                        | U              | Q         | 0.118       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,1,1,2-Tetrachloroethane      | U              | Q         | 0.147       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,1,2,2-Tetrachloroethane      | U              | Q         | 0.133       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,1,2-Trichlorotrifluoroethane | U              | Q         | 0.180       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| Tetrachloroethene              | U              | Q         | 0.300       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| Toluene                        | U              | Q         | 0.278       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,2,3-Trichlorobenzene         | U              | Q         | 0.230       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,2,4-Trichlorobenzene         | U              | Q         | 0.481       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,1,1-Trichloroethane          | U              | Q         | 0.149       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,1,2-Trichloroethane          | U              | Q         | 0.158       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| Trichloroethene                | U              | Q         | 0.190       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| Trichlorofluoromethane         | U              | Q         | 0.160       | 5.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,2,3-Trichloropropane         | U              | Q         | 0.237       | 2.50        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,2,4-Trimethylbenzene         | 2.90           | Q         | 0.322       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,2,3-Trimethylbenzene         | 1.45           | Q         | 0.104       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| 1,3,5-Trimethylbenzene         | 0.288          | Q         | 0.104       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| Vinyl chloride                 | U              | Q         | 0.234       | 1.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| Xylenes, Total                 | 4.90           | Q         | 0.174       | 3.00        | 1        | 11/05/2024 05:02        | WG2395107 |
| (S) Toluene-d8                 | 110            |           |             | 80.0-120    |          | 11/05/2024 05:02        | WG2395107 |
| (S) 4-Bromofluorobenzene       | 101            |           |             | 77.0-126    |          | 11/05/2024 05:02        | WG2395107 |
| (S) 1,2-Dichloroethane-d4      | 114            |           |             | 70.0-130    |          | 11/05/2024 05:02        | WG2395107 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 6260           |           | 31.6        | 100         | 1        | 10/30/2024 07:27        | <a href="#">WG2391948</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 102            |           |             | 78.0-120    |          | 10/30/2024 07:27        | <a href="#">WG2391948</a> |

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

| Analyte                     | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |                    | 11.3        | 50.0        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Acrolein                    | U              |                    | 2.54        | 50.0        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Acrylonitrile               | U              |                    | 0.671       | 10.0        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Benzene                     | 850            | <a href="#">Q</a>  | 2.35        | 25.0        | 25       | 11/05/2024 08:33        | <a href="#">WG2395107</a> |
| Bromobenzene                | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Bromodichloromethane        | U              |                    | 0.136       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Bromoform                   | U              |                    | 0.129       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Bromomethane                | U              | <a href="#">C3</a> | 0.605       | 5.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| n-Butylbenzene              | 6.61           |                    | 0.157       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| sec-Butylbenzene            | 6.51           |                    | 0.125       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| tert-Butylbenzene           | U              |                    | 0.127       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Carbon disulfide            | U              |                    | 0.0962      | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Carbon tetrachloride        | U              |                    | 0.128       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Chlorobenzene               | U              |                    | 0.116       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Chlorodibromomethane        | U              |                    | 0.140       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Chloroethane                | U              |                    | 0.192       | 5.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Chloroform                  | U              |                    | 0.111       | 5.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Chloromethane               | U              | <a href="#">J4</a> | 0.960       | 2.50        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 2-Chlorotoluene             | U              |                    | 0.106       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 4-Chlorotoluene             | U              |                    | 0.114       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2-Dibromo-3-Chloropropane | U              | <a href="#">C3</a> | 0.276       | 5.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2-Dibromoethane           | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Dibromomethane              | U              |                    | 0.122       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2-Dichlorobenzene         | U              |                    | 0.107       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,3-Dichlorobenzene         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,4-Dichlorobenzene         | U              |                    | 0.120       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Dichlorodifluoromethane     | U              | <a href="#">J4</a> | 0.374       | 5.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethane          | U              |                    | 0.100       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2-Dichloroethane          | U              |                    | 0.0819      | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethene          | U              |                    | 0.188       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| cis-1,2-Dichloroethene      | U              |                    | 0.126       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| trans-1,2-Dichloroethene    | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2-Dichloropropane         | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,1-Dichloropropene         | U              |                    | 0.142       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,3-Dichloropropane         | U              |                    | 0.110       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| cis-1,3-Dichloropropene     | U              |                    | 0.111       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| trans-1,3-Dichloropropene   | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 2,2-Dichloropropane         | U              |                    | 0.161       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Di-isopropyl ether          | U              |                    | 0.105       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Ethylbenzene                | 56.3           |                    | 0.137       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Hexachloro-1,3-butadiene    | U              |                    | 0.337       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Isopropylbenzene            | 27.5           |                    | 0.105       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| p-Isopropyltoluene          | 2.86           |                    | 0.120       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 2-Butanone (MEK)            | U              |                    | 1.19        | 10.0        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Methylene Chloride          | U              |                    | 0.430       | 5.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 4-Methyl-2-pentanone (MIBK) | U              |                    | 0.478       | 10.0        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether     | U              |                    | 0.101       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Naphthalene                 | 5.71           |                    | 1.00        | 5.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte                        | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| n-Propylbenzene                | 95.1           |                    | 0.0993      | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Styrene                        | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,1,1,2-Tetrachloroethane      | U              |                    | 0.147       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,1,2,2-Tetrachloroethane      | U              |                    | 0.133       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |                    | 0.180       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Tetrachloroethene              | U              |                    | 0.300       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Toluene                        | 5.69           |                    | 0.278       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2,3-Trichlorobenzene         | U              | <a href="#">C3</a> | 0.230       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2,4-Trichlorobenzene         | U              |                    | 0.481       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,1,1-Trichloroethane          | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,1,2-Trichloroethane          | U              |                    | 0.158       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Trichloroethene                | U              |                    | 0.190       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Trichlorofluoromethane         | U              |                    | 0.160       | 5.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2,3-Trichloropropane         | U              |                    | 0.237       | 2.50        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2,4-Trimethylbenzene         | 6.46           |                    | 0.322       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,2,3-Trimethylbenzene         | 23.5           |                    | 0.104       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| 1,3,5-Trimethylbenzene         | 5.32           |                    | 0.104       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Vinyl chloride                 | U              |                    | 0.234       | 1.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| Xylenes, Total                 | 17.1           |                    | 0.174       | 3.00        | 1        | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| (S) Toluene-d8                 | 94.8           |                    |             | 80.0-120    |          | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| (S) Toluene-d8                 | 110            |                    |             | 80.0-120    |          | 11/05/2024 08:33        | <a href="#">WG2395107</a> |
| (S) 4-Bromofluorobenzene       | 101            |                    |             | 77.0-126    |          | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| (S) 4-Bromofluorobenzene       | 102            |                    |             | 77.0-126    |          | 11/05/2024 08:33        | <a href="#">WG2395107</a> |
| (S) 1,2-Dichloroethane-d4      | 91.4           |                    |             | 70.0-130    |          | 11/02/2024 12:00        | <a href="#">WG2393762</a> |
| (S) 1,2-Dichloroethane-d4      | 117            |                    |             | 70.0-130    |          | 11/05/2024 08:33        | <a href="#">WG2395107</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Gasoline Range Organics-NWTPH      | 1550           | J         | 632         | 2000        | 20       | 11/05/2024 01:25        | WG2395169 |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 97.5           |           |             | 78.0-120    |          | 11/05/2024 01:25        | WG2395169 |

Sample Narrative:

L1792371-09 WG2395169: Elevated RL due to foamy matrix.

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|-----------|
| Acetone                     | U              |           | 11.3        | 50.0        | 1        | 11/02/2024 12:21        | WG2393762 |
| Acrolein                    | U              |           | 2.54        | 50.0        | 1        | 11/02/2024 12:21        | WG2393762 |
| Acrylonitrile               | U              |           | 0.671       | 10.0        | 1        | 11/02/2024 12:21        | WG2393762 |
| Benzene                     | 24.2           |           | 0.0941      | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Bromobenzene                | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Bromodichloromethane        | U              |           | 0.136       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Bromoform                   | U              |           | 0.129       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Bromomethane                | U              | C3        | 0.605       | 5.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| n-Butylbenzene              | 4.10           |           | 0.157       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| sec-Butylbenzene            | 5.92           |           | 0.125       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| tert-Butylbenzene           | U              |           | 0.127       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Carbon disulfide            | U              |           | 0.0962      | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Carbon tetrachloride        | U              |           | 0.128       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Chlorobenzene               | U              |           | 0.116       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Chlorodibromomethane        | U              |           | 0.140       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Chloroethane                | U              |           | 0.192       | 5.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Chloroform                  | U              |           | 0.111       | 5.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Chloromethane               | U              | J4        | 0.960       | 2.50        | 1        | 11/02/2024 12:21        | WG2393762 |
| 2-Chlorotoluene             | U              |           | 0.106       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 4-Chlorotoluene             | U              |           | 0.114       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,2-Dibromo-3-Chloropropane | U              | C3        | 0.276       | 5.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,2-Dibromoethane           | U              |           | 0.126       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Dibromomethane              | U              |           | 0.122       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,2-Dichlorobenzene         | U              |           | 0.107       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,3-Dichlorobenzene         | U              |           | 0.110       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,4-Dichlorobenzene         | U              |           | 0.120       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Dichlorodifluoromethane     | U              | J4        | 0.374       | 5.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,1-Dichloroethane          | U              |           | 0.100       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,2-Dichloroethane          | U              |           | 0.0819      | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,1-Dichloroethene          | U              |           | 0.188       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| cis-1,2-Dichloroethene      | U              |           | 0.126       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| trans-1,2-Dichloroethene    | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,2-Dichloropropane         | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,1-Dichloropropene         | U              |           | 0.142       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 1,3-Dichloropropane         | U              |           | 0.110       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| cis-1,3-Dichloropropene     | U              |           | 0.111       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| trans-1,3-Dichloropropene   | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 2,2-Dichloropropane         | U              |           | 0.161       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Di-isopropyl ether          | U              |           | 0.105       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Ethylbenzene                | 0.692          | J         | 0.137       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Hexachloro-1,3-butadiene    | U              |           | 0.337       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| Isopropylbenzene            | 35.1           |           | 0.105       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| p-Isopropyltoluene          | 0.737          | J         | 0.120       | 1.00        | 1        | 11/02/2024 12:21        | WG2393762 |
| 2-Butanone (MEK)            | U              |           | 1.19        | 10.0        | 1        | 11/02/2024 12:21        | WG2393762 |
| Methylene Chloride          | U              |           | 0.430       | 5.00        | 1        | 11/02/2024 12:21        | WG2393762 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

| Analyte                        | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | U              |                    | 0.478       | 10.0        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether        | 7.72           |                    | 0.101       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Naphthalene                    | 2.06           | <a href="#">U</a>  | 1.00        | 5.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| n-Propylbenzene                | 98.9           |                    | 0.0993      | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Styrene                        | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,1,1,2-Tetrachloroethane      | U              |                    | 0.147       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,1,2,2-Tetrachloroethane      | U              |                    | 0.133       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |                    | 0.180       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Tetrachloroethene              | U              |                    | 0.300       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Toluene                        | 3.19           |                    | 0.278       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,2,3-Trichlorobenzene         | U              | <a href="#">C3</a> | 0.230       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,2,4-Trichlorobenzene         | U              |                    | 0.481       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,1,1-Trichloroethane          | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,1,2-Trichloroethane          | U              |                    | 0.158       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Trichloroethene                | U              |                    | 0.190       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Trichlorofluoromethane         | U              |                    | 0.160       | 5.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,2,3-Trichloropropane         | U              |                    | 0.237       | 2.50        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,2,4-Trimethylbenzene         | 0.384          | <a href="#">U</a>  | 0.322       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,2,3-Trimethylbenzene         | 3.98           |                    | 0.104       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| 1,3,5-Trimethylbenzene         | 0.269          | <a href="#">U</a>  | 0.104       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Vinyl chloride                 | U              |                    | 0.234       | 1.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| Xylenes, Total                 | 3.92           |                    | 0.174       | 3.00        | 1        | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| (S) Toluene-d8                 | 96.1           |                    |             | 80.0-120    |          | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| (S) 4-Bromofluorobenzene       | 97.6           |                    |             | 77.0-126    |          | 11/02/2024 12:21        | <a href="#">WG2393762</a> |
| (S) 1,2-Dichloroethane-d4      | 96.5           |                    |             | 70.0-130    |          | 11/02/2024 12:21        | <a href="#">WG2393762</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                            | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|------------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH      | 4610           |           | 31.6        | 100         | 1        | 10/30/2024 08:11        | <a href="#">WG2391948</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.9           |           |             | 78.0-120    |          | 10/30/2024 08:11        | <a href="#">WG2391948</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

| Analyte                     | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-----------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Acetone                     | U              |           | 11.3        | 50.0        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Acrolein                    | U              |           | 2.54        | 50.0        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Acrylonitrile               | U              |           | 0.671       | 10.0        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Benzene                     | 791            | Q         | 2.35        | 25.0        | 25       | 11/05/2024 08:54        | <a href="#">WG2395107</a> |
| Bromobenzene                | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Bromodichloromethane        | U              |           | 0.136       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Bromoform                   | U              |           | 0.129       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Bromomethane                | U              | C3        | 0.605       | 5.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| n-Butylbenzene              | 10.1           |           | 0.157       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| sec-Butylbenzene            | 9.45           |           | 0.125       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| tert-Butylbenzene           | U              |           | 0.127       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Carbon disulfide            | U              |           | 0.0962      | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Carbon tetrachloride        | U              |           | 0.128       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Chlorobenzene               | U              |           | 0.116       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Chlorodibromomethane        | U              |           | 0.140       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Chloroethane                | U              |           | 0.192       | 5.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Chloroform                  | U              |           | 0.111       | 5.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Chloromethane               | U              | J4        | 0.960       | 2.50        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 2-Chlorotoluene             | U              |           | 0.106       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 4-Chlorotoluene             | U              |           | 0.114       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2-Dibromo-3-Chloropropane | U              | C3        | 0.276       | 5.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2-Dibromoethane           | U              |           | 0.126       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Dibromomethane              | U              |           | 0.122       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2-Dichlorobenzene         | U              |           | 0.107       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,3-Dichlorobenzene         | U              |           | 0.110       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,4-Dichlorobenzene         | U              |           | 0.120       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Dichlorodifluoromethane     | U              | J4        | 0.374       | 5.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethane          | U              |           | 0.100       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2-Dichloroethane          | U              |           | 0.0819      | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,1-Dichloroethene          | U              |           | 0.188       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| cis-1,2-Dichloroethene      | U              |           | 0.126       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| trans-1,2-Dichloroethene    | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2-Dichloropropane         | U              |           | 0.149       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,1-Dichloropropene         | U              |           | 0.142       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,3-Dichloropropane         | U              |           | 0.110       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| cis-1,3-Dichloropropene     | U              |           | 0.111       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| trans-1,3-Dichloropropene   | U              |           | 0.118       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 2,2-Dichloropropane         | U              |           | 0.161       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Di-isopropyl ether          | U              |           | 0.105       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Ethylbenzene                | 70.8           |           | 0.137       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Hexachloro-1,3-butadiene    | U              |           | 0.337       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Isopropylbenzene            | 36.4           |           | 0.105       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| p-Isopropyltoluene          | 2.40           |           | 0.120       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 2-Butanone (MEK)            | U              |           | 1.19        | 10.0        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Methylene Chloride          | U              |           | 0.430       | 5.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 4-Methyl-2-pentanone (MIBK) | U              |           | 0.478       | 10.0        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Methyl tert-butyl ether     | U              |           | 0.101       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Naphthalene                 | 6.77           |           | 1.00        | 5.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |

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

| Analyte                        | Result<br>ug/l | Qualifier          | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|----------------|--------------------|-------------|-------------|----------|-------------------------|---------------------------|
| n-Propylbenzene                | 135            |                    | 0.0993      | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Styrene                        | U              |                    | 0.118       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,1,1,2-Tetrachloroethane      | U              |                    | 0.147       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,1,2,2-Tetrachloroethane      | U              |                    | 0.133       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,1,2-Trichlorotrifluoroethane | U              |                    | 0.180       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Tetrachloroethene              | U              |                    | 0.300       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Toluene                        | 6.77           |                    | 0.278       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2,3-Trichlorobenzene         | U              | <a href="#">C3</a> | 0.230       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2,4-Trichlorobenzene         | U              |                    | 0.481       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,1,1-Trichloroethane          | U              |                    | 0.149       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,1,2-Trichloroethane          | U              |                    | 0.158       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Trichloroethene                | U              |                    | 0.190       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Trichlorofluoromethane         | U              |                    | 0.160       | 5.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2,3-Trichloropropane         | U              |                    | 0.237       | 2.50        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2,4-Trimethylbenzene         | 8.62           |                    | 0.322       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,2,3-Trimethylbenzene         | 31.7           |                    | 0.104       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| 1,3,5-Trimethylbenzene         | 7.35           |                    | 0.104       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Vinyl chloride                 | U              |                    | 0.234       | 1.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| Xylenes, Total                 | 21.3           |                    | 0.174       | 3.00        | 1        | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| (S) Toluene-d8                 | 94.3           |                    |             | 80.0-120    |          | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| (S) Toluene-d8                 | 109            |                    |             | 80.0-120    |          | 11/05/2024 08:54        | <a href="#">WG2395107</a> |
| (S) 4-Bromofluorobenzene       | 101            |                    |             | 77.0-126    |          | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| (S) 4-Bromofluorobenzene       | 102            |                    |             | 77.0-126    |          | 11/05/2024 08:54        | <a href="#">WG2395107</a> |
| (S) 1,2-Dichloroethane-d4      | 97.1           |                    |             | 70.0-130    |          | 11/02/2024 12:43        | <a href="#">WG2393762</a> |
| (S) 1,2-Dichloroethane-d4      | 117            |                    |             | 70.0-130    |          | 11/05/2024 08:54        | <a href="#">WG2395107</a> |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4140109-2 10/30/24 06:34

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | 86.7              | J            | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 96.8              |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R4140109-1 10/30/24 05:25

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5000                 | 5720               | 114           | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 101           | 78.0-120         |               |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R4140838-2 10/30/24 02:50

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 99.2              |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R4140838-1 10/30/24 01:50

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5000                 | 5310               | 106           | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 104           | 78.0-120         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4141649-2 11/01/24 20:38

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 100               |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R4141649-1 11/01/24 18:53

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5000                 | 5170               | 103           | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 102           | 78.0-120         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4141978-2 11/04/24 22:28

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 99.1              |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R4141978-1 11/04/24 21:18

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5010               | 91.1          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 97.7          | 78.0-120         |               |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R4141596-3 11/02/24 08:01

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Acetone                     | U                 |              | 11.3           | 50.0           |
| Acrolein                    | U                 |              | 2.54           | 50.0           |
| Acrylonitrile               | U                 |              | 0.671          | 10.0           |
| Benzene                     | U                 |              | 0.0941         | 1.00           |
| Bromobenzene                | U                 |              | 0.118          | 1.00           |
| Bromodichloromethane        | U                 |              | 0.136          | 1.00           |
| Bromoform                   | U                 |              | 0.129          | 1.00           |
| Bromomethane                | U                 |              | 0.605          | 5.00           |
| n-Butylbenzene              | U                 |              | 0.157          | 1.00           |
| sec-Butylbenzene            | U                 |              | 0.125          | 1.00           |
| tert-Butylbenzene           | U                 |              | 0.127          | 1.00           |
| Carbon disulfide            | U                 |              | 0.0962         | 1.00           |
| Carbon tetrachloride        | U                 |              | 0.128          | 1.00           |
| Chlorobenzene               | U                 |              | 0.116          | 1.00           |
| Chlorodibromomethane        | U                 |              | 0.140          | 1.00           |
| Chloroethane                | U                 |              | 0.192          | 5.00           |
| Chloroform                  | U                 |              | 0.111          | 5.00           |
| Chloromethane               | U                 |              | 0.960          | 2.50           |
| 2-Chlorotoluene             | U                 |              | 0.106          | 1.00           |
| 4-Chlorotoluene             | U                 |              | 0.114          | 1.00           |
| 1,2-Dibromo-3-Chloropropane | U                 |              | 0.276          | 5.00           |
| 1,2-Dibromoethane           | U                 |              | 0.126          | 1.00           |
| Dibromomethane              | U                 |              | 0.122          | 1.00           |
| 1,2-Dichlorobenzene         | U                 |              | 0.107          | 1.00           |
| 1,3-Dichlorobenzene         | U                 |              | 0.110          | 1.00           |
| 1,4-Dichlorobenzene         | U                 |              | 0.120          | 1.00           |
| Dichlorodifluoromethane     | U                 |              | 0.374          | 5.00           |
| 1,1-Dichloroethane          | U                 |              | 0.100          | 1.00           |
| 1,2-Dichloroethane          | U                 |              | 0.0819         | 1.00           |
| 1,1-Dichloroethene          | U                 |              | 0.188          | 1.00           |
| cis-1,2-Dichloroethene      | U                 |              | 0.126          | 1.00           |
| trans-1,2-Dichloroethene    | U                 |              | 0.149          | 1.00           |
| 1,2-Dichloropropane         | U                 |              | 0.149          | 1.00           |
| 1,1-Dichloropropene         | U                 |              | 0.142          | 1.00           |
| 1,3-Dichloropropane         | U                 |              | 0.110          | 1.00           |
| cis-1,3-Dichloropropene     | U                 |              | 0.111          | 1.00           |
| trans-1,3-Dichloropropene   | U                 |              | 0.118          | 1.00           |
| 2,2-Dichloropropane         | U                 |              | 0.161          | 1.00           |
| Di-isopropyl ether          | U                 |              | 0.105          | 1.00           |
| Ethylbenzene                | U                 |              | 0.137          | 1.00           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R4141596-3 11/02/24 08:01

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Hexachloro-1,3-butadiene       | U                 |              | 0.337          | 1.00           |
| Isopropylbenzene               | U                 |              | 0.105          | 1.00           |
| p-Isopropyltoluene             | U                 |              | 0.120          | 1.00           |
| 2-Butanone (MEK)               | U                 |              | 1.19           | 10.0           |
| Methylene Chloride             | U                 |              | 0.430          | 5.00           |
| 4-Methyl-2-pentanone (MIBK)    | U                 |              | 0.478          | 10.0           |
| Methyl tert-butyl ether        | U                 |              | 0.101          | 1.00           |
| Naphthalene                    | U                 |              | 1.00           | 5.00           |
| n-Propylbenzene                | U                 |              | 0.0993         | 1.00           |
| Styrene                        | U                 |              | 0.118          | 1.00           |
| 1,1,1,2-Tetrachloroethane      | U                 |              | 0.147          | 1.00           |
| 1,1,2,2-Tetrachloroethane      | U                 |              | 0.133          | 1.00           |
| 1,1,2-Trichlorotrifluoroethane | U                 |              | 0.180          | 1.00           |
| Tetrachloroethene              | U                 |              | 0.300          | 1.00           |
| Toluene                        | U                 |              | 0.278          | 1.00           |
| 1,2,3-Trichlorobenzene         | U                 |              | 0.230          | 1.00           |
| 1,2,4-Trichlorobenzene         | U                 |              | 0.481          | 1.00           |
| 1,1,1-Trichloroethane          | U                 |              | 0.149          | 1.00           |
| 1,1,2-Trichloroethane          | U                 |              | 0.158          | 1.00           |
| Trichloroethene                | U                 |              | 0.190          | 1.00           |
| Trichlorofluoromethane         | U                 |              | 0.160          | 5.00           |
| 1,2,3-Trichloropropane         | U                 |              | 0.237          | 2.50           |
| 1,2,4-Trimethylbenzene         | U                 |              | 0.322          | 1.00           |
| 1,2,3-Trimethylbenzene         | U                 |              | 0.104          | 1.00           |
| 1,3,5-Trimethylbenzene         | U                 |              | 0.104          | 1.00           |
| Vinyl chloride                 | U                 |              | 0.234          | 1.00           |
| Xylenes, Total                 | U                 |              | 0.174          | 3.00           |
| (S) Toluene-d8                 | 103               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 103               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 102               |              |                | 70.0-130       |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4141596-1 11/02/24 06:56 • (LCSD) R4141596-2 11/02/24 07:18

| Analyte       | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone       | 25.0                 | 21.1               | 23.0                | 84.4          | 92.0           | 19.0-160         | J             | J              | 8.62     | 27              |
| Acrolein      | 25.0                 | 21.8               | 22.9                | 87.2          | 91.6           | 10.0-160         | J             | J              | 4.92     | 26              |
| Acrylonitrile | 25.0                 | 24.7               | 24.5                | 98.8          | 98.0           | 55.0-149         |               |                | 0.813    | 20              |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4141596-1 11/02/24 06:56 • (LCSD) R4141596-2 11/02/24 07:18

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Benzene                     | 5.00                 | 5.14               | 5.19                | 103           | 104            | 70.0-123         |                      |                       | 0.968    | 20              |
| Bromobenzene                | 5.00                 | 4.20               | 4.29                | 84.0          | 85.8           | 73.0-121         |                      |                       | 2.12     | 20              |
| Bromodichloromethane        | 5.00                 | 5.04               | 4.90                | 101           | 98.0           | 75.0-120         |                      |                       | 2.82     | 20              |
| Bromoform                   | 5.00                 | 4.05               | 4.19                | 81.0          | 83.8           | 68.0-132         |                      |                       | 3.40     | 20              |
| Bromomethane                | 5.00                 | 2.05               | 2.16                | 41.0          | 43.2           | 10.0-160         | J                    | J                     | 5.23     | 25              |
| n-Butylbenzene              | 5.00                 | 4.02               | 4.06                | 80.4          | 81.2           | 73.0-125         |                      |                       | 0.990    | 20              |
| sec-Butylbenzene            | 5.00                 | 4.59               | 4.36                | 91.8          | 87.2           | 75.0-125         |                      |                       | 5.14     | 20              |
| tert-Butylbenzene           | 5.00                 | 4.51               | 4.44                | 90.2          | 88.8           | 76.0-124         |                      |                       | 1.56     | 20              |
| Carbon disulfide            | 5.00                 | 5.05               | 5.06                | 101           | 101            | 61.0-128         |                      |                       | 0.198    | 20              |
| Carbon tetrachloride        | 5.00                 | 5.23               | 5.26                | 105           | 105            | 68.0-126         |                      |                       | 0.572    | 20              |
| Chlorobenzene               | 5.00                 | 4.59               | 4.53                | 91.8          | 90.6           | 80.0-121         |                      |                       | 1.32     | 20              |
| Chlorodibromomethane        | 5.00                 | 4.30               | 4.32                | 86.0          | 86.4           | 77.0-125         |                      |                       | 0.464    | 20              |
| Chloroethane                | 5.00                 | 6.15               | 5.93                | 123           | 119            | 47.0-150         |                      |                       | 3.64     | 20              |
| Chloroform                  | 5.00                 | 5.26               | 5.22                | 105           | 104            | 73.0-120         |                      |                       | 0.763    | 20              |
| Chloromethane               | 5.00                 | 8.42               | 8.97                | 168           | 179            | 41.0-142         | J4                   | J4                    | 6.33     | 20              |
| 2-Chlorotoluene             | 5.00                 | 4.87               | 4.82                | 97.4          | 96.4           | 76.0-123         |                      |                       | 1.03     | 20              |
| 4-Chlorotoluene             | 5.00                 | 4.34               | 4.22                | 86.8          | 84.4           | 75.0-122         |                      |                       | 2.80     | 20              |
| 1,2-Dibromo-3-Chloropropane | 5.00                 | 3.79               | 3.63                | 75.8          | 72.6           | 58.0-134         | J                    | J                     | 4.31     | 20              |
| 1,2-Dibromoethane           | 5.00                 | 4.96               | 4.78                | 99.2          | 95.6           | 80.0-122         |                      |                       | 3.70     | 20              |
| Dibromomethane              | 5.00                 | 5.13               | 5.21                | 103           | 104            | 80.0-120         |                      |                       | 1.55     | 20              |
| 1,2-Dichlorobenzene         | 5.00                 | 4.51               | 4.53                | 90.2          | 90.6           | 79.0-121         |                      |                       | 0.442    | 20              |
| 1,3-Dichlorobenzene         | 5.00                 | 4.51               | 4.40                | 90.2          | 88.0           | 79.0-120         |                      |                       | 2.47     | 20              |
| 1,4-Dichlorobenzene         | 5.00                 | 4.25               | 4.17                | 85.0          | 83.4           | 79.0-120         |                      |                       | 1.90     | 20              |
| Dichlorodifluoromethane     | 5.00                 | 7.65               | 7.60                | 153           | 152            | 51.0-149         | J4                   | J4                    | 0.656    | 20              |
| 1,1-Dichloroethane          | 5.00                 | 5.07               | 4.96                | 101           | 99.2           | 70.0-126         |                      |                       | 2.19     | 20              |
| 1,2-Dichloroethane          | 5.00                 | 5.16               | 4.90                | 103           | 98.0           | 70.0-128         |                      |                       | 5.17     | 20              |
| 1,1-Dichloroethene          | 5.00                 | 5.22               | 5.48                | 104           | 110            | 71.0-124         |                      |                       | 4.86     | 20              |
| cis-1,2-Dichloroethene      | 5.00                 | 5.27               | 5.17                | 105           | 103            | 73.0-120         |                      |                       | 1.92     | 20              |
| trans-1,2-Dichloroethene    | 5.00                 | 5.24               | 5.24                | 105           | 105            | 73.0-120         |                      |                       | 0.000    | 20              |
| 1,2-Dichloropropane         | 5.00                 | 4.86               | 4.86                | 97.2          | 97.2           | 77.0-125         |                      |                       | 0.000    | 20              |
| 1,1-Dichloropropene         | 5.00                 | 5.38               | 5.50                | 108           | 110            | 74.0-126         |                      |                       | 2.21     | 20              |
| 1,3-Dichloropropane         | 5.00                 | 4.76               | 4.78                | 95.2          | 95.6           | 80.0-120         |                      |                       | 0.419    | 20              |
| cis-1,3-Dichloropropene     | 5.00                 | 4.79               | 4.81                | 95.8          | 96.2           | 80.0-123         |                      |                       | 0.417    | 20              |
| trans-1,3-Dichloropropene   | 5.00                 | 4.53               | 4.37                | 90.6          | 87.4           | 78.0-124         |                      |                       | 3.60     | 20              |
| 2,2-Dichloropropane         | 5.00                 | 4.59               | 4.58                | 91.8          | 91.6           | 58.0-130         |                      |                       | 0.218    | 20              |
| Di-isopropyl ether          | 5.00                 | 4.82               | 4.82                | 96.4          | 96.4           | 58.0-138         |                      |                       | 0.000    | 20              |
| Ethylbenzene                | 5.00                 | 4.76               | 4.86                | 95.2          | 97.2           | 79.0-123         |                      |                       | 2.08     | 20              |
| Hexachloro-1,3-butadiene    | 5.00                 | 4.50               | 4.47                | 90.0          | 89.4           | 54.0-138         |                      |                       | 0.669    | 20              |
| Isopropylbenzene            | 5.00                 | 4.60               | 4.62                | 92.0          | 92.4           | 76.0-127         |                      |                       | 0.434    | 20              |
| p-Isopropyltoluene          | 5.00                 | 4.41               | 4.53                | 88.2          | 90.6           | 76.0-125         |                      |                       | 2.68     | 20              |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4141596-1 11/02/24 06:56 • (LCSD) R4141596-2 11/02/24 07:18

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| 2-Butanone (MEK)               | 25.0                 | 30.7               | 30.8                | 123           | 123            | 44.0-160         |                      |                       | 0.325    | 20              |
| Methylene Chloride             | 5.00                 | 4.85               | 4.61                | 97.0          | 92.2           | 67.0-120         | U                    | U                     | 5.07     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 25.0                 | 23.9               | 24.1                | 95.6          | 96.4           | 68.0-142         |                      |                       | 0.833    | 20              |
| Methyl tert-butyl ether        | 5.00                 | 5.05               | 5.18                | 101           | 104            | 68.0-125         |                      |                       | 2.54     | 20              |
| Naphthalene                    | 5.00                 | 4.02               | 4.17                | 80.4          | 83.4           | 54.0-135         | U                    | U                     | 3.66     | 20              |
| n-Propylbenzene                | 5.00                 | 4.48               | 4.32                | 89.6          | 86.4           | 77.0-124         |                      |                       | 3.64     | 20              |
| Styrene                        | 5.00                 | 4.62               | 4.18                | 92.4          | 83.6           | 73.0-130         |                      |                       | 10.0     | 20              |
| 1,1,1,2-Tetrachloroethane      | 5.00                 | 4.66               | 4.41                | 93.2          | 88.2           | 75.0-125         |                      |                       | 5.51     | 20              |
| 1,1,2,2-Tetrachloroethane      | 5.00                 | 4.77               | 4.47                | 95.4          | 89.4           | 65.0-130         |                      |                       | 6.49     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 5.00                 | 5.53               | 5.37                | 111           | 107            | 69.0-132         |                      |                       | 2.94     | 20              |
| Tetrachloroethene              | 5.00                 | 5.13               | 5.14                | 103           | 103            | 72.0-132         |                      |                       | 0.195    | 20              |
| Toluene                        | 5.00                 | 4.75               | 4.72                | 95.0          | 94.4           | 79.0-120         |                      |                       | 0.634    | 20              |
| 1,2,3-Trichlorobenzene         | 5.00                 | 3.92               | 4.19                | 78.4          | 83.8           | 50.0-138         |                      |                       | 6.66     | 20              |
| 1,2,4-Trichlorobenzene         | 5.00                 | 4.03               | 4.03                | 80.6          | 80.6           | 57.0-137         |                      |                       | 0.000    | 20              |
| 1,1,1-Trichloroethane          | 5.00                 | 5.19               | 5.33                | 104           | 107            | 73.0-124         |                      |                       | 2.66     | 20              |
| 1,1,2-Trichloroethane          | 5.00                 | 4.94               | 4.93                | 98.8          | 98.6           | 80.0-120         |                      |                       | 0.203    | 20              |
| Trichloroethene                | 5.00                 | 5.29               | 5.35                | 106           | 107            | 78.0-124         |                      |                       | 1.13     | 20              |
| Trichlorofluoromethane         | 5.00                 | 7.18               | 7.17                | 144           | 143            | 59.0-147         |                      |                       | 0.139    | 20              |
| 1,2,3-Trichloropropane         | 5.00                 | 5.21               | 4.73                | 104           | 94.6           | 73.0-130         |                      |                       | 9.66     | 20              |
| 1,2,4-Trimethylbenzene         | 5.00                 | 4.44               | 4.37                | 88.8          | 87.4           | 76.0-121         |                      |                       | 1.59     | 20              |
| 1,2,3-Trimethylbenzene         | 5.00                 | 4.51               | 4.46                | 90.2          | 89.2           | 77.0-120         |                      |                       | 1.11     | 20              |
| 1,3,5-Trimethylbenzene         | 5.00                 | 4.66               | 4.60                | 93.2          | 92.0           | 76.0-122         |                      |                       | 1.30     | 20              |
| Vinyl chloride                 | 5.00                 | 6.00               | 6.10                | 120           | 122            | 67.0-131         |                      |                       | 1.65     | 20              |
| Xylenes, Total                 | 15.0                 | 14.0               | 13.6                | 93.3          | 90.7           | 79.0-123         |                      |                       | 2.90     | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 97.4          | 96.9           | 80.0-120         |                      |                       |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 99.0          | 99.6           | 77.0-126         |                      |                       |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 102           | 100            | 70.0-130         |                      |                       |          |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4142078-4 11/04/24 23:15

| Analyte                     | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Acetone                     | U                 |              | 11.3           | 50.0           |
| Acrolein                    | U                 |              | 2.54           | 50.0           |
| Acrylonitrile               | U                 |              | 0.671          | 10.0           |
| Benzene                     | U                 |              | 0.0941         | 1.00           |
| Bromobenzene                | U                 |              | 0.118          | 1.00           |
| Bromodichloromethane        | U                 |              | 0.136          | 1.00           |
| Bromoform                   | U                 |              | 0.129          | 1.00           |
| Bromomethane                | U                 |              | 0.605          | 5.00           |
| n-Butylbenzene              | U                 |              | 0.157          | 1.00           |
| sec-Butylbenzene            | U                 |              | 0.125          | 1.00           |
| tert-Butylbenzene           | U                 |              | 0.127          | 1.00           |
| Carbon disulfide            | U                 |              | 0.0962         | 1.00           |
| Carbon tetrachloride        | U                 |              | 0.128          | 1.00           |
| Chlorobenzene               | U                 |              | 0.116          | 1.00           |
| Chlorodibromomethane        | U                 |              | 0.140          | 1.00           |
| Chloroethane                | U                 |              | 0.192          | 5.00           |
| Chloroform                  | U                 |              | 0.111          | 5.00           |
| Chloromethane               | U                 |              | 0.960          | 2.50           |
| 2-Chlorotoluene             | U                 |              | 0.106          | 1.00           |
| 4-Chlorotoluene             | U                 |              | 0.114          | 1.00           |
| 1,2-Dibromo-3-Chloropropane | U                 |              | 0.276          | 5.00           |
| 1,2-Dibromoethane           | U                 |              | 0.126          | 1.00           |
| Dibromomethane              | U                 |              | 0.122          | 1.00           |
| 1,2-Dichlorobenzene         | U                 |              | 0.107          | 1.00           |
| 1,3-Dichlorobenzene         | U                 |              | 0.110          | 1.00           |
| 1,4-Dichlorobenzene         | U                 |              | 0.120          | 1.00           |
| Dichlorodifluoromethane     | U                 |              | 0.374          | 5.00           |
| 1,1-Dichloroethane          | U                 |              | 0.100          | 1.00           |
| 1,2-Dichloroethane          | U                 |              | 0.0819         | 1.00           |
| 1,1-Dichloroethene          | U                 |              | 0.188          | 1.00           |
| cis-1,2-Dichloroethene      | U                 |              | 0.126          | 1.00           |
| trans-1,2-Dichloroethene    | U                 |              | 0.149          | 1.00           |
| 1,2-Dichloropropane         | U                 |              | 0.149          | 1.00           |
| 1,1-Dichloropropene         | U                 |              | 0.142          | 1.00           |
| 1,3-Dichloropropane         | U                 |              | 0.110          | 1.00           |
| cis-1,3-Dichloropropene     | U                 |              | 0.111          | 1.00           |
| trans-1,3-Dichloropropene   | U                 |              | 0.118          | 1.00           |
| 2,2-Dichloropropane         | U                 |              | 0.161          | 1.00           |
| Di-isopropyl ether          | U                 |              | 0.105          | 1.00           |
| Ethylbenzene                | U                 |              | 0.137          | 1.00           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R4142078-4 11/04/24 23:15

| Analyte                        | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Hexachloro-1,3-butadiene       | U                 |              | 0.337          | 1.00           |
| Isopropylbenzene               | U                 |              | 0.105          | 1.00           |
| p-Isopropyltoluene             | U                 |              | 0.120          | 1.00           |
| 2-Butanone (MEK)               | U                 |              | 1.19           | 10.0           |
| Methylene Chloride             | U                 |              | 0.430          | 5.00           |
| 4-Methyl-2-pentanone (MIBK)    | U                 |              | 0.478          | 10.0           |
| Methyl tert-butyl ether        | U                 |              | 0.101          | 1.00           |
| Naphthalene                    | U                 |              | 1.00           | 5.00           |
| n-Propylbenzene                | U                 |              | 0.0993         | 1.00           |
| Styrene                        | U                 |              | 0.118          | 1.00           |
| 1,1,1,2-Tetrachloroethane      | U                 |              | 0.147          | 1.00           |
| 1,1,2,2-Tetrachloroethane      | U                 |              | 0.133          | 1.00           |
| 1,1,2-Trichlorotrifluoroethane | U                 |              | 0.180          | 1.00           |
| Tetrachloroethene              | U                 |              | 0.300          | 1.00           |
| Toluene                        | U                 |              | 0.278          | 1.00           |
| 1,2,3-Trichlorobenzene         | U                 |              | 0.230          | 1.00           |
| 1,2,4-Trichlorobenzene         | U                 |              | 0.481          | 1.00           |
| 1,1,1-Trichloroethane          | U                 |              | 0.149          | 1.00           |
| 1,1,2-Trichloroethane          | U                 |              | 0.158          | 1.00           |
| Trichloroethene                | U                 |              | 0.190          | 1.00           |
| Trichlorofluoromethane         | U                 |              | 0.160          | 5.00           |
| 1,2,3-Trichloropropane         | U                 |              | 0.237          | 2.50           |
| 1,2,4-Trimethylbenzene         | U                 |              | 0.322          | 1.00           |
| 1,2,3-Trimethylbenzene         | U                 |              | 0.104          | 1.00           |
| 1,3,5-Trimethylbenzene         | U                 |              | 0.104          | 1.00           |
| Vinyl chloride                 | U                 |              | 0.234          | 1.00           |
| Xylenes, Total                 | U                 |              | 0.174          | 3.00           |
| (S) Toluene-d8                 | 110               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene       | 102               |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4      | 121               |              |                | 70.0-130       |

1  
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4142078-1 11/04/24 21:50 • (LCSD) R4142078-2 11/04/24 22:11

| Analyte       | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone       | 25.0                 | 28.9               | 33.9                | 116           | 136            | 19.0-160         | J             | J              | 15.9     | 27              |
| Acrolein      | 25.0                 | 30.1               | 31.0                | 120           | 124            | 10.0-160         | J             | J              | 2.95     | 26              |
| Acrylonitrile | 25.0                 | 29.3               | 28.9                | 117           | 116            | 55.0-149         |               |                | 1.37     | 20              |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4142078-1 11/04/24 21:50 • (LCSD) R4142078-2 11/04/24 22:11

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                     | 5.00                 | 4.86               | 4.98                | 97.2          | 99.6           | 70.0-123         |               |                | 2.44     | 20              |
| Bromobenzene                | 5.00                 | 5.40               | 5.62                | 108           | 112            | 73.0-121         |               |                | 3.99     | 20              |
| Bromodichloromethane        | 5.00                 | 5.36               | 5.28                | 107           | 106            | 75.0-120         |               |                | 1.50     | 20              |
| Bromoform                   | 5.00                 | 4.28               | 4.46                | 85.6          | 89.2           | 68.0-132         |               |                | 4.12     | 20              |
| Bromomethane                | 5.00                 | 2.91               | 2.83                | 58.2          | 56.6           | 10.0-160         | U             | U              | 2.79     | 25              |
| n-Butylbenzene              | 5.00                 | 5.31               | 5.45                | 106           | 109            | 73.0-125         |               |                | 2.60     | 20              |
| sec-Butylbenzene            | 5.00                 | 5.12               | 5.28                | 102           | 106            | 75.0-125         |               |                | 3.08     | 20              |
| tert-Butylbenzene           | 5.00                 | 5.34               | 5.44                | 107           | 109            | 76.0-124         |               |                | 1.86     | 20              |
| Carbon disulfide            | 5.00                 | 4.80               | 4.89                | 96.0          | 97.8           | 61.0-128         |               |                | 1.86     | 20              |
| Carbon tetrachloride        | 5.00                 | 5.99               | 6.14                | 120           | 123            | 68.0-126         |               |                | 2.47     | 20              |
| Chlorobenzene               | 5.00                 | 4.99               | 5.05                | 99.8          | 101            | 80.0-121         |               |                | 1.20     | 20              |
| Chlorodibromomethane        | 5.00                 | 4.94               | 4.83                | 98.8          | 96.6           | 77.0-125         |               |                | 2.25     | 20              |
| Chloroethane                | 5.00                 | 6.14               | 6.85                | 123           | 137            | 47.0-150         |               |                | 10.9     | 20              |
| Chloroform                  | 5.00                 | 5.33               | 5.67                | 107           | 113            | 73.0-120         |               |                | 6.18     | 20              |
| Chloromethane               | 5.00                 | 2.14               | 2.32                | 42.8          | 46.4           | 41.0-142         | U             | U              | 8.07     | 20              |
| 2-Chlorotoluene             | 5.00                 | 5.91               | 5.99                | 118           | 120            | 76.0-123         |               |                | 1.34     | 20              |
| 4-Chlorotoluene             | 5.00                 | 5.73               | 5.93                | 115           | 119            | 75.0-122         |               |                | 3.43     | 20              |
| 1,2-Dibromo-3-Chloropropane | 5.00                 | 6.32               | 6.30                | 126           | 126            | 58.0-134         |               |                | 0.317    | 20              |
| 1,2-Dibromoethane           | 5.00                 | 4.82               | 5.02                | 96.4          | 100            | 80.0-122         |               |                | 4.07     | 20              |
| Dibromomethane              | 5.00                 | 5.37               | 5.65                | 107           | 113            | 80.0-120         |               |                | 5.08     | 20              |
| 1,2-Dichlorobenzene         | 5.00                 | 5.04               | 5.06                | 101           | 101            | 79.0-121         |               |                | 0.396    | 20              |
| 1,3-Dichlorobenzene         | 5.00                 | 5.04               | 5.15                | 101           | 103            | 79.0-120         |               |                | 2.16     | 20              |
| 1,4-Dichlorobenzene         | 5.00                 | 5.13               | 5.33                | 103           | 107            | 79.0-120         |               |                | 3.82     | 20              |
| Dichlorodifluoromethane     | 5.00                 | 5.71               | 5.84                | 114           | 117            | 51.0-149         |               |                | 2.25     | 20              |
| 1,1-Dichloroethane          | 5.00                 | 4.81               | 5.08                | 96.2          | 102            | 70.0-126         |               |                | 5.46     | 20              |
| 1,2-Dichloroethane          | 5.00                 | 5.24               | 5.32                | 105           | 106            | 70.0-128         |               |                | 1.52     | 20              |
| 1,1-Dichloroethene          | 5.00                 | 4.74               | 5.10                | 94.8          | 102            | 71.0-124         |               |                | 7.32     | 20              |
| cis-1,2-Dichloroethene      | 5.00                 | 4.67               | 4.81                | 93.4          | 96.2           | 73.0-120         |               |                | 2.95     | 20              |
| trans-1,2-Dichloroethene    | 5.00                 | 4.85               | 4.89                | 97.0          | 97.8           | 73.0-120         |               |                | 0.821    | 20              |
| 1,2-Dichloropropane         | 5.00                 | 4.46               | 4.71                | 89.2          | 94.2           | 77.0-125         |               |                | 5.45     | 20              |
| 1,1-Dichloropropene         | 5.00                 | 5.42               | 5.45                | 108           | 109            | 74.0-126         |               |                | 0.552    | 20              |
| 1,3-Dichloropropane         | 5.00                 | 5.22               | 5.30                | 104           | 106            | 80.0-120         |               |                | 1.52     | 20              |
| cis-1,3-Dichloropropene     | 5.00                 | 4.79               | 4.78                | 95.8          | 95.6           | 80.0-123         |               |                | 0.209    | 20              |
| trans-1,3-Dichloropropene   | 5.00                 | 4.99               | 4.84                | 99.8          | 96.8           | 78.0-124         |               |                | 3.05     | 20              |
| 2,2-Dichloropropane         | 5.00                 | 4.68               | 4.66                | 93.6          | 93.2           | 58.0-130         |               |                | 0.428    | 20              |
| Di-isopropyl ether          | 5.00                 | 3.98               | 4.15                | 79.6          | 83.0           | 58.0-138         |               |                | 4.18     | 20              |
| Ethylbenzene                | 5.00                 | 4.71               | 4.75                | 94.2          | 95.0           | 79.0-123         |               |                | 0.846    | 20              |
| Hexachloro-1,3-butadiene    | 5.00                 | 5.43               | 5.55                | 109           | 111            | 54.0-138         |               |                | 2.19     | 20              |
| Isopropylbenzene            | 5.00                 | 4.87               | 5.00                | 97.4          | 100            | 76.0-127         |               |                | 2.63     | 20              |
| p-Isopropyltoluene          | 5.00                 | 5.31               | 5.50                | 106           | 110            | 76.0-125         |               |                | 3.52     | 20              |

1Cp

2Tc

3Ss

4Cn

5Sr

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7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4142078-1 11/04/24 21:50 • (LCSD) R4142078-2 11/04/24 22:11

| Analyte                        | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| 2-Butanone (MEK)               | 25.0                 | 28.9               | 30.3                | 116           | 121            | 44.0-160         |               |                | 4.73     | 20              |
| Methylene Chloride             | 5.00                 | 4.81               | 4.91                | 96.2          | 98.2           | 67.0-120         | ⌵             | ⌵              | 2.06     | 20              |
| 4-Methyl-2-pentanone (MIBK)    | 25.0                 | 26.4               | 26.7                | 106           | 107            | 68.0-142         |               |                | 1.13     | 20              |
| Methyl tert-butyl ether        | 5.00                 | 5.22               | 5.32                | 104           | 106            | 68.0-125         |               |                | 1.90     | 20              |
| Naphthalene                    | 5.00                 | 6.12               | 6.31                | 122           | 126            | 54.0-135         |               |                | 3.06     | 20              |
| n-Propylbenzene                | 5.00                 | 5.52               | 5.73                | 110           | 115            | 77.0-124         |               |                | 3.73     | 20              |
| Styrene                        | 5.00                 | 4.56               | 4.61                | 91.2          | 92.2           | 73.0-130         |               |                | 1.09     | 20              |
| 1,1,1,2-Tetrachloroethane      | 5.00                 | 4.64               | 4.80                | 92.8          | 96.0           | 75.0-125         |               |                | 3.39     | 20              |
| 1,1,2,2-Tetrachloroethane      | 5.00                 | 5.62               | 5.61                | 112           | 112            | 65.0-130         |               |                | 0.178    | 20              |
| 1,1,2-Trichlorotrifluoroethane | 5.00                 | 5.18               | 5.47                | 104           | 109            | 69.0-132         |               |                | 5.45     | 20              |
| Tetrachloroethene              | 5.00                 | 5.02               | 5.21                | 100           | 104            | 72.0-132         |               |                | 3.71     | 20              |
| Toluene                        | 5.00                 | 5.23               | 5.39                | 105           | 108            | 79.0-120         |               |                | 3.01     | 20              |
| 1,2,3-Trichlorobenzene         | 5.00                 | 5.60               | 5.79                | 112           | 116            | 50.0-138         |               |                | 3.34     | 20              |
| 1,2,4-Trichlorobenzene         | 5.00                 | 5.15               | 5.24                | 103           | 105            | 57.0-137         |               |                | 1.73     | 20              |
| 1,1,1-Trichloroethane          | 5.00                 | 5.49               | 5.85                | 110           | 117            | 73.0-124         |               |                | 6.35     | 20              |
| 1,1,2-Trichloroethane          | 5.00                 | 4.79               | 4.87                | 95.8          | 97.4           | 80.0-120         |               |                | 1.66     | 20              |
| Trichloroethene                | 5.00                 | 5.12               | 5.40                | 102           | 108            | 78.0-124         |               |                | 5.32     | 20              |
| Trichlorofluoromethane         | 5.00                 | 5.72               | 6.26                | 114           | 125            | 59.0-147         |               |                | 9.02     | 20              |
| 1,2,3-Trichloropropane         | 5.00                 | 6.48               | 6.36                | 130           | 127            | 73.0-130         |               |                | 1.87     | 20              |
| 1,2,4-Trimethylbenzene         | 5.00                 | 5.44               | 5.65                | 109           | 113            | 76.0-121         |               |                | 3.79     | 20              |
| 1,2,3-Trimethylbenzene         | 5.00                 | 5.45               | 5.57                | 109           | 111            | 77.0-120         |               |                | 2.18     | 20              |
| 1,3,5-Trimethylbenzene         | 5.00                 | 5.32               | 5.57                | 106           | 111            | 76.0-122         |               |                | 4.59     | 20              |
| Vinyl chloride                 | 5.00                 | 4.35               | 4.49                | 87.0          | 89.8           | 67.0-131         |               |                | 3.17     | 20              |
| Xylenes, Total                 | 15.0                 | 14.3               | 14.7                | 95.3          | 98.0           | 79.0-123         |               |                | 2.76     | 20              |
| (S) Toluene-d8                 |                      |                    |                     | 107           | 107            | 80.0-120         |               |                |          |                 |
| (S) 4-Bromofluorobenzene       |                      |                    |                     | 102           | 103            | 77.0-126         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4      |                      |                    |                     | 121           | 124            | 70.0-130         |               |                |          |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

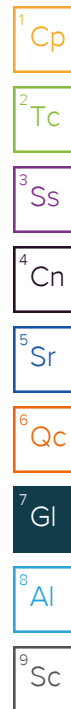
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDL                          | Method Detection Limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RDL                          | Reported Detection Limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rec.                         | Recovery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| RPD                          | Relative Percent Difference.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SDG                          | Sample Delivery Group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.                                                                                                                                                                                                                                               |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.                                                                                    |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.                                                                                                                                                                                                                                                      |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.                                                                                                                                                                  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.                                                                                                                                                                          |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.                                                                                                                                                                                              |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.                                                              |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.                                                                                                                                                                                             |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.                                                                                                                                                                                                                                                                                                                                                            |

| Qualifier | Description                                                                                                                                                                        |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C3        | The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.                    |
| C5        | The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result. |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.                                                                                                |
| J4        | The associated batch QC was outside the established quality control range for accuracy.                                                                                            |
| Q         | Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.                                                |



# ACCREDITATIONS & LOCATIONS

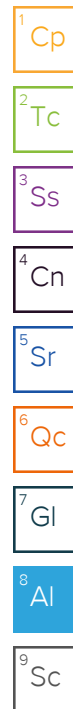
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

|                                |             |                             |                  |
|--------------------------------|-------------|-----------------------------|------------------|
| Alabama                        | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                         | 17-026      | Nevada                      | TN000032021-1    |
| Arizona                        | AZ0612      | New Hampshire               | 2975             |
| Arkansas                       | 88-0469     | New Jersey--NELAP           | TN002            |
| California                     | 2932        | New Mexico <sup>1</sup>     | TN00003          |
| Colorado                       | TN00003     | New York                    | 11742            |
| Connecticut                    | PH-0197     | North Carolina              | Env375           |
| Florida                        | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                        | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>           | 923         | North Dakota                | R-140            |
| Idaho                          | TN00003     | Ohio--VAP                   | CL0069           |
| Illinois                       | 200008      | Oklahoma                    | 9915             |
| Indiana                        | C-TN-01     | Oregon                      | TN200002         |
| Iowa                           | 364         | Pennsylvania                | 68-02979         |
| Kansas                         | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup>        | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>          | 16          | South Dakota                | n/a              |
| Louisiana                      | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana                      | LA018       | Texas                       | T104704245-20-18 |
| Maine                          | TN00003     | Texas <sup>5</sup>          | LAB0152          |
| Maryland                       | 324         | Utah                        | TN000032021-11   |
| Massachusetts                  | M-TN003     | Vermont                     | VT2006           |
| Michigan                       | 9958        | Virginia                    | 110033           |
| Minnesota                      | 047-999-395 | Washington                  | C847             |
| Mississippi                    | TN00003     | West Virginia               | 233              |
| Missouri                       | 340         | Wisconsin                   | 998093910        |
| Montana                        | CERT0086    | Wyoming                     | A2LA             |
| A2LA -- ISO 17025              | 1461.01     | AIHA-LAP,LLC EMLAP          | 100789           |
| A2LA -- ISO 17025 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                         | 1461.01     | USDA                        | P330-15-00234    |
| EPA--Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



| <b>Agency, Authorized Purchaser or Agent:</b><br><b>Oregon DEQ</b>                                                                                                                                                                                               |                    |        |                         | <b>Contract Laboratory Name:</b><br><b>Pace National</b>                                                                                                              |                     |  |  | <b>Lab Selection Criteria:</b><br><input type="checkbox"/> Proximity (if TAT < 48 hrs)<br><input type="checkbox"/> Prior work on same project<br><input checked="" type="checkbox"/> Cost (for anticipated analyses)<br><input type="checkbox"/> Other labs disqualified or unable to perform requested services<br><input type="checkbox"/> Emergency work |  |  |  | <b>Turn Around Time:</b><br><input checked="" type="checkbox"/> 10 days (std.)<br><input type="checkbox"/> 5 days<br><input type="checkbox"/> 72 hours<br><input type="checkbox"/> 48 hours<br><input type="checkbox"/> 24 hours<br><input type="checkbox"/> Other |  |  |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------|
| <b>Send Lab Report To:</b><br><b>Kara Master</b><br>Address: Department of Environmental Quality<br>700 NE Multnomah St, Suite 600<br>Portland, OR 97232<br>E-mail: <a href="mailto:Kara.E.MASTER@deq.oregon.gov">Kara.E.MASTER@deq.oregon.gov</a>               |                    |        |                         | <b>Lab Batch #:</b><br><br><b>Invoice To:</b><br>Address: ODEQ/Business Office<br>700 NE Multnomah Street, Suite 600<br>Portland, OR. 97232<br>Tel. #: (800) 452-4011 |                     |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  |          |
| Project Name: <b>Johnson Oil</b><br>Project #: <b>24008422</b>                                                                                                                                                                                                   |                    |        |                         | <b>Sample Preservative</b>                                                                                                                                            |                     |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  | L1792371                                                                                                                                                                                                                                                           |  |  |          |
|                                                                                                                                                                                                                                                                  |                    |        |                         | <b>Requested Analyses</b>                                                                                                                                             |                     |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  |          |
| Sample ID#                                                                                                                                                                                                                                                       | 10/21/2024<br>Time | Matrix | Number of<br>Containers | NWTPH-<br>Gx                                                                                                                                                          | VOCs -<br>EPA 8260B |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | Comments |
| MW-4                                                                                                                                                                                                                                                             | 14:33              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 01     |
| MW-5                                                                                                                                                                                                                                                             | 13:42              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 02     |
| MW-6                                                                                                                                                                                                                                                             | 15:16              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 03     |
| MW-7                                                                                                                                                                                                                                                             | 15:48              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 04     |
| MW-9                                                                                                                                                                                                                                                             | 10:52              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 05     |
| MW-12                                                                                                                                                                                                                                                            | 16:36              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 06     |
| MW-13                                                                                                                                                                                                                                                            | 12:16              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 07     |
| MW-14                                                                                                                                                                                                                                                            | 13:02              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 08     |
| MW-15                                                                                                                                                                                                                                                            | 11:37              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 09     |
| Dup                                                                                                                                                                                                                                                              | 13:10              | GW     | 6                       | X                                                                                                                                                                     | X                   |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  | - 10     |
| Notes: Report Results to: <a href="mailto:Michael.Stevens@apexcos.com">Michael.Stevens@apexcos.com</a> ; <a href="mailto:Carmen.Owens@apexcos.com">Carmen.Owens@apexcos.com</a> ; <a href="mailto:Kara.E.Master@deq.oregon.gov">Kara.E.Master@deq.oregon.gov</a> |                    |        |                         |                                                                                                                                                                       |                     |  |  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                    |  |  |          |
| Relinquished By: Chris Weer<br>Signature: <i>Chris Weer</i>                                                                                                                                                                                                      |                    |        |                         | Agency/Agent: Apex Companies<br>Time & Date: 10/21/2024, 19:30                                                                                                        |                     |  |  | Received By: <i>Closen</i><br>Signature: <i>Closen</i>                                                                                                                                                                                                                                                                                                      |  |  |  | Agency:<br>Time & Date: 10/24/24 0900                                                                                                                                                                                                                              |  |  |          |
| Relinquished By: <i>Jim Chad</i><br>Signature: <i>Jim Chad</i>                                                                                                                                                                                                   |                    |        |                         | Agency/Agent: <i>Apex</i><br>Time & Date: 10/23 10:50                                                                                                                 |                     |  |  | Received By:<br>Signature:                                                                                                                                                                                                                                                                                                                                  |  |  |  | Agency/Agent:<br>Time & Date:                                                                                                                                                                                                                                      |  |  |          |

THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # 8903. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.

Sample Receipt Checklist

|                       |                                                                  |                                                                                       |
|-----------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Seal Present/Intact:  | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | If Applicable                                                                         |
| Signed/Accurate:      | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |
| Seals arrive intact:  | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | Pres. Correct/Check: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Correct bottles used: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |                                                                                       |
| Client volume sent:   | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |                                                                                       |
| Screen <0.5 mR/hr:    | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |                                                                                       |

MSR 1.4 to 1.8 = 1.7  
 6727 1897 3582

## ***Appendix D***

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### **Statistical Evaluation**

**Table D-1**  
**Statistical Evaluation - TPH in Groundwater**  
**Former Johnson Oil**  
**Clatskanie, Oregon**

| Monitoring Well Number | Oct-24 Concentration [µg/L] | Two-Year Statistics (2023-2024) |                              |                              |                              |                           |                    |                          |                         |              |            |          |                             |                  |
|------------------------|-----------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|---------------------------|--------------------|--------------------------|-------------------------|--------------|------------|----------|-----------------------------|------------------|
|                        |                             | Detections                      | Oct-24 Ranking (1 = Highest) | Minimum Concentration [µg/L] | Maximum Concentration [µg/L] | Mean Concentration [µg/L] | Standard Deviation | Coefficient of Variation | 24-Oct Relative to Mean | Mann Kendall |            |          | Linear Regression [mg/L/yr] | Data Tendency    |
|                        |                             |                                 |                              |                              |                              |                           |                    |                          |                         | S-Statistic  | Confidence | Trend    |                             |                  |
| MW-4                   | 6,130                       | 8 of 8                          | 1                            | 3,120                        | 6,130                        | 4,534                     | 1,120              | 0.25                     | 135%                    | -5           | 0.379      | No Trend | -485                        | Downward         |
| MW-5                   | 3,220                       | 8 of 8                          | 8                            | 3,220                        | 8,250                        | 5,630                     | 1,865              | 0.33                     | 57%                     | 2            | 0.098      | No Trend | 298                         | Flat to Upward   |
| MW-6                   | 3,790                       | 8 of 8                          | 6                            | 1,490                        | 7,040                        | 4,583                     | 2,037              | 0.44                     | 83%                     | 11           | 0.784      | No Trend | 1,841                       | Flat to Upward   |
| MW-7                   | 1,520                       | 8 of 8                          | 5                            | 43                           | 4,910                        | 1,782                     | 1,429              | 0.80                     | 85%                     | 5            | 0.379      | No Trend | -259                        | Flat to Downward |
| MW-9                   | 0.221                       | 2 of 6                          | --                           | --                           | --                           | --                        | --                 | --                       | --                      | --           | --         | --       | --                          | --               |
| MW-12                  | 24,500                      | 8 of 8                          | 8                            | 24,500                       | 125,000                      | 77,388                    | 38,848             | 0.50                     | 32%                     | 2            | 0.098      | No Trend | -12,299                     | Downward         |
| MW-13                  | 299                         | 8 of 8                          | 4                            | 98                           | 3,170                        | 1,148                     | 1,287              | 1.12                     | 26%                     | -8           | 0.614      | No Trend | -1,902                      | Downward         |
| MW-14                  | 6,260                       | 8 of 8                          | 1                            | 3,300                        | 6,260                        | 4,411                     | 1,159              | 0.26                     | 142%                    | -1           | 0.000      | No Trend | -118                        | Flat             |
| MW-15                  | 1,550                       | 8 of 8                          | 4                            | 344                          | 2,590                        | 1,455                     | 831                | 0.57                     | 107%                    | -8           | 0.614      | No Trend | -975                        | Downward         |

**Notes:**

1. Statistical analysis performed on monitoring results from March 2023 to October 2024 on wells with at least seven detections out of eight events.
2. Data Ranking shows position of October 2024 results relative to range of previously observed data.
3. Coefficient of Variation is the ratio between the standard deviation and the mean.
4. Mann Kendall Statistics:

Mann-Kendall analysis done in accordance with procedure presented in Statistical Methods for Environmental Pollution Monitoring (Gilbert, 1987).

The S statistic is based on a simple comparison of all the concentrations for a given well to each other. For each pair of concentrations, if the later one is bigger, a value of 1 is assigned to that pair.

If the pair are equal, a value of 0 is assigned. If the later one is smaller, a value of -1 is assigned. All of the assigned values are summed to give the S statistic.

Probability values taken from Table A18 (Probabilities for the Mann-Kendall Nonparametric Test for Trend) of Statistical Methods reference (Gilbert, 1987). For 90% confidence,  $p < 0.100$ .

Trends are indicated in wells with probabilities greater than 90% confidence. Direction of trend (increasing/decreasing) is identified by sign of S-Statistic (positive/negative).

5. Regression slopes calculated for 2-year data sets used to qualitatively assess tendencies in data sets, presented in change in mg/L per year defined by regression slope.