2024 ANNUAL COMPLIANCE MONITORING REPORT

Mount Baker Properties Site

PPCD No. 16-2-29584-3 SEA

Facility Site ID #96127971, Cleanup Site ID #13054

Prepared for: Mt. Baker Housing Association

Project No. AS160324N • February 11, 2026 • FINAL

Aspect
A Geosyntec Company

earth + water

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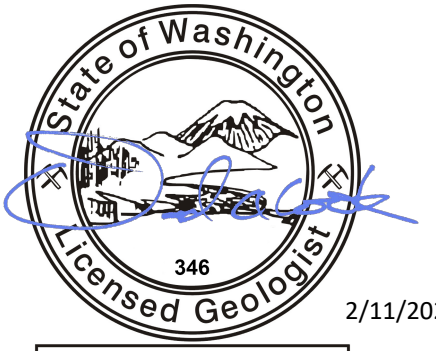

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David A. Cook

Dave Cook, LG, CPG
Sr. Principal Geologist
dave.cook@Geosyntec.com

Risi Naa
Scientist
risi.naa@Geosyntec.com

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Acronyms

ACMR	Annual Compliance Monitoring Report
Aspect	Aspect Consulting, a Geosyntec company
APH	air-phase hydrocarbons
BTEX	benzene, ethylbenzene, toluene, and xylenes
CAP	Cleanup Action Plan
CAR	Cleanup Action Report
cDCE	cis-1,2-dichloroethene
CDF	controlled density fill
CMP	Compliance Monitoring Plan
COC	contaminant of concern
cVOC	chlorinated volatile organic compound
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
FS	feasibility study
ISCR	in situ chemical reduction
MBHA	Mt. Baker Housing Association
MDEP	Massachusetts Department of Environmental Protection
µg/L	micrograms per liter
mg/L	milligrams per liter
MNA	monitored natural attenuation
MTCA	Model Toxics Control Act
NAVD88	North American Vertical Datum 1988
PCE	tetrachloroethene
PPCD	Prospective Purchaser Consent Decree
RI	remedial investigation
ROWs	rights-of-way
SAP/QAPP	Sampling Analysis Plan/Quality Assurance Project Plan
TCE	trichloroethene
TOC	total organic carbon
TPHd	diesel-range total petroleum hydrocarbons

TPHg	gasoline-range total petroleum hydrocarbons
TPHo	oil-range total petroleum hydrocarbons
VC	vinyl chloride
VI	vapor intrusion

Executive Summary

This 2024 Annual Compliance Monitoring Report (ACMR) has been prepared by Aspect Consulting, a Geosyntec company (Aspect), on behalf of the Mt. Baker Housing Association (MBHA) for the Mount Baker Properties Site (the Site) located along South McClellan Street and Martin Luther King (MLK) Jr. Way South in Seattle, Washington (Figure 1). The Property consists of two transit-oriented affordable housing apartment buildings near the Mt. Baker Light Rail Station, referred to as Maddux North located on the parcel north of South McClellan Street and Maddux South located on the parcel south of South McClellan Street (Figure 2).

Remedial excavations to remove chlorinated solvent and petroleum-contaminated soil from Maddux North and South were completed in 2020 (Figure 3). Following the remedial excavations, in situ chemical reduction (ISCR) injections were completed in the rights-of-way (ROWs) adjacent to Maddux North along 29th Avenue South in 2021 (29th Ave S injections) and on the north side of South McClellan Street in 2022 (McClellan injections) as shown on Figure 3. These ISCR injections targeted treatment of residual chlorinated volatile organic compound (cVOC)-contaminated soil and groundwater that could not be removed during the remedial excavation completed in 2020. Performance monitoring of cVOC and petroleum hydrocarbon concentrations in groundwater has been ongoing following the remedial excavations in 2020. The 29th Ave South and McClellan injections conducted in 2021 and 2022 effectively treated cVOCs in these areas, so additional ISCR injections were planned to treat residual cVOC mass in the downgradient area of the groundwater plume. Injections were conducted along the south side of South McClellan Street, the north side of the Maddux South parcel, and the east side of Martin Luther King Jr. Way S. This injection event is referred to as the Maddux South injections, which were completed in May 2024 as detailed in this 2024 ACMR.

Additionally, this 2024 ACMR details the compliance groundwater sampling that was conducted in June 2024 and December 2024 in accordance with the Compliance Monitoring Plan (CMP; Aspect 2020b) for the Site, the 2024 ISCR Work Plan (Aspect, 2024a), and the 2023 ACMR (Aspect, 2024b).

Based on the results of the 2024 groundwater sampling, the groundwater quality at the Site continues to substantially improve following remedial actions, including excavation of contaminated soil on Maddux North and South, and the successful implementation of in situ groundwater treatment in areas of higher concentrations of tetrachloroethene (PCE) and vinyl chloride (VC). These improvements to groundwater quality are significant, most notably downgradient of the source area from the release of chlorinated solvents on Maddux North. Based on these results, treatment from the 2024 Maddux South injections is ongoing, and we are recommending continued short-term performance monitoring in June and December 2025 before moving into long-term compliance monitoring during the monitored natural attenuation (MNA) period.

This Executive Summary should only be used in the context of the full report.

1 Introduction

Aspect Consulting, a Geosyntec company (Aspect), has prepared this 2024 Annual Compliance Monitoring Report (ACMR) on behalf of the Mt. Baker Housing Association (MBHA) for the Mount Baker Properties Site (the Site) located along South McClellan Street and Martin Luther King (MLK) Jr. Way South in Seattle, Washington (Figure 1). MBHA owns two parcels located within the Mount Baker Properties Site that MBHA has redeveloped for affordable housing, creating 203 new transit-oriented affordable housing units near the Mt. Baker Light Rail Station. There are two developments: Maddux North located on the parcel (King County Tax Parcel 003600008[1]) north of South McClellan Street and Maddux South located on the parcel (King County Tax Parcel 003600055) south of South McClellan Street (Figure 2). The MBHA-owned parcels (003600008 and 0003600055) will be referred to collectively as the Property, in order to distinguish them from the Site, which as defined by the Model Toxics Control Act (MTCA), is anywhere contamination has come to be located as a result of releases of chlorinated solvents from a former dry cleaner located on the Maddux North parcel and petroleum hydrocarbons from a former gas station located on the Maddux South parcel (Figure 2).

The 2024 ACMR was prepared to comply with requirements of a Prospective Purchaser Consent Decree (PPCD, No. 16-2-29584-3 SEA) between the Washington State Department of Ecology (Ecology) and MBHA. The 2024 ACMR summarizes groundwater collected as part of performance monitoring in June and December 2024 as required under the Compliance Monitoring Plan (CMP; Aspect, 2020b) for the Site and the 2024 In Situ Chemical Reduction (ISCR) Work Plan (Aspect, 2024). The contents of this ACMR are organized into the following sections:

- **Section 1 –** This section, composed of an introduction and background.
- **Section 2 – Maddux South ISCR Injections** describes the implementation of the 2024 ISCR Work Plan (Aspect, 2024a), including the design of and modifications to the injection program and operational monitoring conducted during implementation.
- **Section 3 – Performance Monitoring** describes groundwater monitoring methods and results from the June 2024 and December 2024 monitoring events and summarizes performance of ISCR injections at the Site.
- **Section 4 – Conclusions** summarizes groundwater compliance with Site cleanup levels, recommendations for the 2025 performance monitoring program, and updates the estimate of restoration time frame.

[1] This parcel was previously comprised of four parcels (0003600030, 0003600032, 003600008, and 0003600031), as referenced in previous reports for the Site.

1.1 Background

Under the terms of the PPCD and following Ecology oversight, Aspect completed soil explorations, monitoring well installations, and soil, groundwater, and soil gas sampling at the Site as part of the Remedial Investigation (RI). Based on the results of the RI, cleanup was warranted to remediate contaminated soil, groundwater, and soil gas at the Site. A Feasibility Study (FS) was completed to evaluate potential remedial alternatives for the Site based on proven remedial technologies. The FS included a disproportionate cost analysis to evaluate the ratio of cost to environmental benefit of each of the assembled remedial alternatives. The preferred remedial alternative was selected by Ecology based on the results of the disproportionate cost analysis and is detailed in the Cleanup Action Plan (CAP; Aspect, 2020a). Cleanup at the Site began in 2020 and is ongoing. Activities completed between 2020 and 2022 are detailed in the Cleanup Action Report (CAR; Aspect, 2023) and performance monitoring for 2023 is detailed in the 2023 ACMR (Aspect, 2024b). Cleanup activities and performance monitoring at the Site have included the following (Figure 3):

- Successful excavation and off-Site permitted disposal of more than 12,900 tons of chlorinated solvent-contaminated soil from Maddux North, removing the chlorinated solvent source area from this parcel, and significantly reducing the contaminant mass at the Site.
- Successful excavation and off-Site permitted disposal of more than 2,900 tons of petroleum- and chlorinated solvent-contaminated soil from Maddux South, removing the source area for petroleum-related contaminants from this parcel, and significantly reducing contaminant mass at the Site.
- Passive venting systems and chemically resistant chemical vapor barriers were constructed beneath the floor slabs, around the foundations and subgrade walls of the buildings at both Maddux North and Maddux South to mitigate potential vapor intrusion from remaining contaminated soil and groundwater.
- ISCR injections and emplacement of 6,000 pounds of S-MicroZVI reagent in rights of way (ROWs) along the eastern and southern sidewalls of the Maddux North remedial area to treat chlorinated solvent-contaminated groundwater in areas where sidewall concentrations of tetrachloroethene (PCE) in soil exceeded the Site cleanup levels (Figure 3).

Following the remedial excavations, chlorinated solvents remained in soil outside of the building footprint along the north, east, and south sidewalls of Maddux North and the south and west sidewalls of Maddux South. Likewise, petroleum hydrocarbons remained in soil outside the building footprint along the south and west sidewalls of Maddux South. The inaccessible, residual contaminated soil is generally located beneath public ROWs and cannot be removed. However, as demonstrated by the post-remedial excavation groundwater sampling results, concentrations of Site contaminants of concern (COCs) in groundwater decreased significantly following the remedial excavations. Performance monitoring of soil gas beneath the Maddux North and Maddux South buildings have confirmed that the remediation has effectively reduced concentrations of

contaminants in soil gas to below levels protective of the vapor intrusion pathway for each building.

To further promote degradation of chlorinated solvents in the groundwater plume, ISCR Injections were successfully conducted in the rights-of-way (ROWs) of 29th Avenue South in 2021 (29th Ave injections) and on the north side of South McClellan Street in 2022 (McClellan injections) to treat residual contaminated soil and groundwater contamination that could not be removed during the remedial excavations completed in 2020. Remedial excavation extents and the layouts of the 29th Ave and McClellan injections are shown on Figure 3.

Based on the results of groundwater performance monitoring completed in June and December 2022, the CAR (Aspect, 2023) included recommendations for additional ISCR groundwater treatment near Maddux South. The additional ISCR treatment focused on treating remaining chlorinated solvent-contaminated groundwater originating from the former Mount Baker Cleaners operations which had come to be located in the South McClellan Street and Martin Luther King Jr. Way S. ROWs, the Maddux South parcel, and the parcels[2] to the east and south of the Maddux South parcel (collectively referred to as the Maddux South injections), as detailed in the 2024 ISCR Work Plan (Aspect, 2024a).

This 2024 ACMR describes the Maddux South injections completed in May 2024 and results of the compliance groundwater monitoring conducted in June and December 2024. The June 2024 and December 2024 groundwater analytical results verified the benefits of ISCR injections and demonstrated the continued successful treatment of the chlorinated solvent contaminant plume, as detailed further in the sections below.

[2] The parcel to the east of Maddux South is King County tax parcel 6725700052, and the parcel to the south of Maddux South is King County tax parcel 0003600074.

2 Maddux South 2024 ISCR Injections

As reported in the CAR (Aspect, 2023) and 2023 ACMR (Aspect, 2024b), concentrations of chlorinated volatile organic compounds (cVOCs) in groundwater remained elevated through 2023 following completion of remedial excavations in 2020, 29th Ave S injections in 2021, and McClellan injections in 2022. As a result, additional ISCR injections, which were retained as a contingency action in the CAP, were implemented in May 2024 to enhance degradation of chlorinated solvents within the groundwater plume and reduce the Site's restoration timeframe.

Previous injections targeted PCE mass remaining in soil in the ROWs adjacent to the Maddux North excavation sidewalls and effectively treated or cut off much of the PCE source mass contributing to downgradient cVOC concentrations. Downgradient of the previous ISCR injections, treatment of cVOCs in groundwater was limited by the low groundwater flow velocity, the groundwater flow path relative to completed injection locations, and residual sorbed PCE mass in the McClellan Street ROW. The Maddux South ISCR injections were conducted downgradient and cross-gradient of previous ISCR injections to accelerate cVOC attenuation near and downgradient of Maddux South. The layout of the Maddux South ISCR injections completed in 2024 is shown on Figure 3. The 2024 ICR injection implementation included permitting, direct-push injection of treatment solution, and monitoring of the injection operations and treatment performance as summarized in the following sections.

2.1 Injection Permit Considerations

The ISCR injections located in the South McClellan Street ROWs (IJ-47 through IJ-65) required a street use permit and traffic control. These injection locations were completed under a Street Use Utility Major Permit (SUUMP 0000698), as required by City of Seattle. Some of the work was conducted over weekends to minimize the impact to traffic on South McClellan Street. As a result, a noise variance (7018745-NV) was also required due to the proximity to residential occupancy and noise the work would generate during weekend hours.

Direct-push injection points are considered Class V underground injection wells and are subject to the Underground Injection Control (UIC) Program, WAC 173-218. In accordance with WAC 173-218-060(5)(b), because the Site is being managed by Ecology pursuant to a PPCD, a permit is not required, but the wells must be registered with Ecology's UIC program to comply with the intent of the program. The injection wells were registered under the Site's existing UIC registration number 35515 prior to mobilizing for injections. As described in the UIC program, all injection wells met the nonendangerment standard and were rule authorized.

2.2 Injection Design and Implementation

As specified in the 2024 ISCR Work Plan and summarized in Table 1, a total of 5,000 pounds (lbs.) of sulfidated micro zero-valent iron (S-MicroZVI; Regenesis, Inc) ISCR treatment reagent and 2,400 lbs. of three-dimensional micro-emulsion (3DME; Regenesis, Inc) was injected into a total of 49 locations using direct-push injection. The injections were located in four areas (Figure 3):

- In the South McClellan Street ROW between Martin Luther King Jr Way South and 29th Avenue South
- In the parking lot of the parcel to the east of Maddux South
- In the planters along the west side of Maddux South
- In the private parking lot along the east side Martin Luther King Jr. Way South

S-MicroZVI treatment reagent consists of micron-scale sulfidated zero-valent iron particles suspended in glycerol. 3DME is an emulsion made of chemically bonded oleic acids and lactates mixed with water similar in structure and performance to emulsified vegetable oil-based bioremediation reagents designed to stimulate microbial activity. Both reagents create geochemically reducing conditions in groundwater and promote reductive dechlorination of cVOCs. Specification sheets for both reagents are provided in the 2024 ISCR Work Plan (Aspect, 2024a). 3DME, which was not used in previous injections, was added to the 2024 injection mixture to allow for treatment reagent to transport with groundwater and create a larger treatment area than using only S-MicroZVI would allow. Consistent with the design, the reagents were mixed with water at ratios of 0.09 gallons of S-MicroZVI and 0.08 gallons of 3DME per gallon of injection water.

Injections were conducted using direct-push drilling methods with a Geoprobe 8040DT drill rig to advance injection rods to target treatment depths of 10 to 20 feet below ground surface (bgs). The treatment mixture was injected using a pressure-activated injection tip. Maximum depth of injection was limited at fourteen locations based on observed depth of drilling refusal and/or high injection pressure. At those fourteen locations, the total injection interval was shortened and the volume of reagent mixture injected per lift was modified. The total quantities of reagent specified in the design were successfully injected during this injection event. The total reagent quantity and volume injected at each location is shown in Table 1. Detailed injection logs for each location can be found in Appendix A.

Injection points remained in approximately the same locations as the proposed locations or were moved slightly to accommodate underground utility lines found at time of the injection work, with the following exceptions:

- There was limited space in the planters along the west side of the Maddux South parcel, and not all of the planned injection points could be conducted due to the location of the Maddux South building side sewer. One of the injections points from this transect, IJ-79, was moved south to the transect in the privately-owned parking lot.
- Injection points IJ-83 through IJ-85 were moved slightly west to avoid utility conflicts with the natural gas service line and are now located along the west side of AMW-20 in the privately-owned parking lot.

The final injection layout is shown on Figure 4.

2.3 Injection Operational Monitoring and Results

Aspect and its subcontracted driller actively monitored the injections and adapted the operations based on field monitoring. For example, the driller continuously monitored and adjusted injection pressures and flow rates and recorded data for each location, while Aspect observed for reagent surfacing or breakthrough (described below) and oversaw operations to ensure the injection design was implemented correctly. Table 1 summarizes the data collected at each injection location, and detailed logs for each vertical interval at each location are provided in Appendix A. The following actions were taken to monitor the operation:

- **Injection pressure and flowrates** were monitored and recorded by the driller during injection and were communicated to Aspect daily.
- **Water levels** were monitored at select wells (Figure 4) during injections using a water level meter. Water levels were measured at wells between 10 and 20 feet from injection locations before and after those injections. Results indicated water level increases up to about 3 feet in these wells, which is consistent with expectations.
- **Breakthrough monitoring** consisted of purging groundwater from monitoring wells and measuring field parameters and water levels frequently during injection at nearby locations (Figure 4). Breakthrough of treatment reagent was indicated by a rapid increase in electrical conductivity concurrent with a rapid rise in water level. Breakthrough monitoring results are summarized in Table 2. Where available, total organic carbon (TOC) concentrations before and after injections are also included in Table 2 as an indicator of reagent distribution. TOC results are discussed further in Section 3.2.4.

  Consistent with previous injections at the Site, breakthrough monitoring results varied from relatively rapid breakthrough at long distances to no breakthrough at short distances. This variable response indicates that in addition to the reagent distributing to some degree through the natural pore structure of the soil, it was most likely also distributed through soil fractures induced by the injections. Regardless of the mechanism of distribution, the desired effect of the added 3DME reagent was observed in post-injection monitoring: elevated TOC concentrations were observed at wells where breakthrough was not observed during injection, indicating post-injection transport of treatment reagent and a broader treatment area than could be achieved without 3DME. Either real-time breakthrough or post-injection TOC distribution were observed at 5 of 6 monitoring wells where either breakthrough was observed, or breakthrough was not observed but samples were analyzed for TOC.

3 Performance Monitoring

3.1 Monitoring Program

As outlined in the CMP (Aspect, 2020a) and the 2023 ACMR (Aspect, 2024a), groundwater compliance monitoring consists of:

- Short-term performance monitoring to assess the efficacy of recent remedial actions (excavations, ISCR injections)
- Long-term performance monitoring to track the reduction in contaminant concentrations from natural attenuation and monitoring that groundwater concentrations are protective of human health and the environment
- Confirmation monitoring once COC concentrations in groundwater have reached cleanup levels to demonstrate long-term compliance with cleanup levels.

The monitoring well network is shown on Figure 5. Groundwater monitoring wells listed in Table A below were either gauged and/or sampled in June and December 2024. All thirty-one monitoring wells in the network were gauged prior to each sampling event to evaluate groundwater elevation, gradient, and flow direction. Per the 2023 ACMR, eight wells were gauged only and are no longer being sampled as part of compliance monitoring. The analyses for each sampled well are based on historical data, their position relative to the chlorinated solvent (Maddux North) and petroleum hydrocarbon (Maddux South) source areas, and their position relative to ISCR injection locations. The analyses included:

- Chlorinated solvents:
  - cVOCs by United States Environmental Protection Agency (EPA) Method 8260E
- Petroleum hydrocarbons (PHs):
  - Diesel- and oil-range total petroleum hydrocarbons (TPHd and TPHo) by Ecology Method NWTPH-Dx
- Monitored natural attenuation (MNA) parameters:
  - Dissolved gases (ethane, ethene, and methane) by Method RSK-175
  - TOC by EPA Method 415.1 (or SW-846 Method 9060)
  - Alkalinity by Standard Method SM 2320 B
  - Chloride, nitrate, nitrite, and sulfate by EPA Method 300.0
  - Iron (dissolved, field filtered) by EPA Method 6020 or 6010B

A list of monitoring wells and the analyses for each well are shown in Table A.

Table A. Groundwater Monitoring Analyses

Well	June 2023	Dec. 2023	June 2024	Dec. 2024
AMW-03	cVOCs	cVOCs	Gauge Only	Gauge Only
AMW-06	cVOCs	cVOCs	cVOCs, MNA	cVOCs, MNA
AMW-07	cVOCs	cVOCs	Gauge Only	Gauge Only
AMW-08	cVOCs	cVOCs	Gauge Only	Gauge Only
AMW-09	cVOCs	cVOCs	Gauge Only	Gauge Only
AMW-11	cVOCs	cVOCs	cVOCs	cVOCs
AMW-14	cVOCs	cVOCs	Gauge Only	Gauge Only
AMW-15	cVOCs	cVOCs	cVOCs, MNA	cVOCs, MNA
AMW-16	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs, MNA	cVOCs, PHs, MNA
AMW-17	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs, MNA	cVOCs, PHs, MNA
AMW-18	cVOCs	cVOCs	cVOCs	cVOCs
AMW-19	cVOCs, MNA	cVOCs, MNA	cVOCs, MNA	cVOCs, MNA
AMW-20	cVOCs, PHs, MNA	cVOCs, PHs, MNA	cVOCs, PHs, MNA	cVOCs, PHs, MNA
AMW-22	cVOCs	cVOCs	cVOCs	cVOCs
AMW-23	cVOCs	cVOCs	cVOCs	cVOCs
AMW-24	cVOCs	cVOCs	cVOCs, MNA	cVOCs, MNA
AMW-25	cVOCs	cVOCs	cVOCs	cVOCs
AMW-26 (replaced AMW-10)	cVOCs	cVOCs	cVOCs	cVOCs
AMW-27	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs, MNA	cVOCs, PHs, MNA
AMW-28	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs
AMW-29 (replaced HC-MW-03)	cVOCs, PHs	cVOCs, PHs	cVOCs	cVOCs
HC-MW-01[3]	cVOCs	cVOCs	cVOCs	Inaccessible

[3] HC-MW-01 and HC-MW-02 could not be accessed during the December 2024 sampling event because the Seattle Department of Transportation (SDOT) is now requiring a dedicated street use

Well	June 2023	Dec. 2023	June 2024	Dec. 2024
HC-MW-02[3]	cVOCs	cVOCs	cVOCs, MNA	Inaccessible
HC-MW-04[3]	cVOCs	cVOCs	Gauge Only	Inaccessible
HC-MW-05	cVOCs	cVOCs	cVOCs, MNA	cVOCs, MNA
HC-MW-06	cVOCs	cVOCs	cVOCs	cVOCs
HC-MW-07	cVOCs	cVOCs	Gauge Only	Gauge Only
MW-05	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs
MW-06	cVOCs, PHs	cVOCs, PHs	Gauge Only	Gauge Only
MW-07	cVOCs	cVOCs	cVOCs	cVOCs
MW-10	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs

Groundwater sampling and analysis procedures were conducted in accordance with the Sampling and Analysis Plan / Quality Assurance Project Plan for the Site (SAP/QAPP; Appendix A of the CMP). Groundwater performance monitoring results are described in Section 3.2.

3.2 Monitoring Results

The results from the groundwater monitoring events that occurred in June 2024 and December 2024 and comparison with the previous seven monitoring events that have been performed since December 2020 are presented in this section. Laboratory analytical reports from the June 2024 and December 2024 monitoring events are included as Appendix B.

3.2.1 Hydrogeology

Groundwater elevation data collected during monitoring events indicated that groundwater flow direction and hydraulic gradients were altered by the shoring constructed for the remedial excavation at Maddux North. Groundwater elevations are provided in Table 3, and Figure 6 shows June and December 2024 groundwater elevation contours. At Maddux North, the eastern sidewall of the remedial excavation extended down approximately 19 to 23 feet to elevations between 57 and 60 feet[4], well below the average groundwater elevation on this upgradient portion of the Site, which had been documented to range between elevation 71 to 78 feet prior to the remedial excavation. As the shoring was advanced during mass excavation, the space behind the lagging was backfilled with flowable controlled-density fill (CDF). CDF is a relatively impermeable material, and this nearly continuous wall of CDF behind the shoring lagging remains in

permit due to their location in a major arterial; HC-MW-04 was blocked by a vehicle for multiple days and could not be gauged during the December 2024 event.

[4] All elevations in this report are referenced to the North American Vertical Datum of 1988 (NAVD88).

place. The CDF behind the shoring wall limits groundwater flow in the historical direction (to the southwest) and locally redirects groundwater flow to the south before turning west around the corner of the subsurface shoring wall at the Maddux North parcel and down South McClellan Street. This effect is shown in the groundwater contours and in the groundwater elevations for AMW-25 (Figure 5). Groundwater elevations and flow direction in wells down- and cross-gradient of the Maddux North building show little to no variation from sampling events conducted prior to the remedial excavation.

At Maddux South, wells AMW-27 and AMW-28 were installed east of the west shoring wall, which was similarly constructed and backfilled with CDF as the shoring walls at Maddux North. These wells consistently have a groundwater elevation approximately 0.2 to 0.5 feet lower than MW-05 (west of the shoring wall). The difference in groundwater elevations is likely caused by a similar hydraulic effect as on the east side of Maddux North.

3.2.2 Petroleum Hydrocarbon Results

As detailed in the 2023 ACMR (Aspect, 2024a), gasoline-range TPH and benzene were not detected in any of the groundwater monitoring wells above the Site cleanup levels over the prior four compliance monitoring events. Therefore, groundwater samples were only submitted for analysis of TPHd/TPHo during both 2024 events. All wells sampled for petroleum hydrocarbons during the monitoring period are located on Maddux South, down- or cross-gradient of the historical petroleum source area. Results from the most recent four sampling events are shown on Figure 7, and cumulative analytical results for petroleum hydrocarbons in groundwater are presented in Table 4.

Following completion of the remedial excavation in 2020, which removed approximately 2,900 tons of petroleum-contaminated soil from the Maddux South Parcel, the 2021 and 2022 monitoring events showed concentrations of TPHd/TPHo ranging from 528 to 715 micrograms per liter (µg/L), compared to the Site cleanup level (500 µg/L). During the two 2023 monitoring events in June and December, TPHd and TPHo were not detected above the Site cleanup level (Table 4; Figure 7). However, during the June 2024 groundwater performance monitoring event, TPHd/TPHo exceeded the Site cleanup level at locations AMW-20, AMW-27, and AMW-28 at ranges between 702 and 3,240 µg/L. Based on discussions with the analytical laboratory and a review of the chromatograms associated with the NWPTH-Dx analysis, these results are a unique outcome related to in-situ groundwater treatment injections of 3DME, a treatment compound, along Martin Luther King Jr. Way South that was conducted in the weeks before groundwater sampling was completed. The 3DME treatment compound falls within the diesel-range but is not representative of a diesel petroleum hydrocarbon release at these well locations. This conclusion is supported by silica-gel cleanup testing for the NWTPH-Gx analysis for samples obtained from wells AMW-20, AMW-27, and AMW-28, which did not contain concentrations of TPHd/TPHo above the Site cleanup level. Likewise, during the December 2024 groundwater performance monitoring event, TPHd/TPHo was detected at a concentration of 6,540 µg/L at AMW-28 (Table 4; Figure 7). The analytical laboratory observed that the chromatography of December 2024 AMW-28 sample was consistent with chromatography observed in wells containing bioremediation products. The laboratory further indicated that the silica gel treatment removed much of the material, however a quantity of material remained, and that it is likely that successive treatments

with silica gel would have removed additional material, up to the entirety of the material observed (Alliance, 2025).

The results from the 2023 and 2024 sampling events indicate that source removal followed by natural attenuation has effectively resulted in significant reductions of diesel- and oil-range petroleum hydrocarbons. It is expected that as the 3DME is either consumed as part of cVOC treatment or migrates with groundwater flow, the NWTPH-Dx analysis will be less affected. As discussed in Section 3.1, confirmation monitoring will be deemed complete once groundwater concentrations during four consecutive monitoring events remain below Site cleanup levels.

Table B. TPHd/TPHo Screening Results

Location	June 2023	December 2023	June 2024	December 2024
AMW-16	**203**	**314**	**477**	**456**
AMW-17	**366**	**400**	**337**	**295**
AMW-20	**307**	**248**	**1,610**	< 244*
AMW-27	**120**	< 187 U	**238***	< 242
AMW-28	**102**	**141**	< 390*	**2,530***
MW-05	< 187	< 193	< 236	< 238
MW-10	**393**	**436**	**438**	**357**

*Result is TPHd/TPHo concentration after silica gel cleanup (SGC) method is applied. Yellow highlight indicates a concentration greater than the Site cleanup level; as described above, these concentrations are suspected to be due to interference from 3DME and not representative of petroleum hydrocarbons.

3.2.3 Chlorinated Solvents Results

Cumulative analytical results for cVOCs in groundwater are summarized in Table 5, and the following figures present cVOC concentrations in groundwater:

- Figure 8 presents cVOC (PCE, trichloroethene [TCE], cis-1,2-dichloroethene [cDCE], and vinyl chloride [VC]) concentrations from the four most recent sampling events (June 2023, December 2023, June 2024, and December 2024).
- Figure 9 presents cVOC concentration trends and groundwater elevations through time for select wells located in and immediately downgradient of the Maddux North source area.
- Figures 10 and 11 show the absolute and relative molar cVOC concentrations through time, respectively, in the same wells presented in Figure 9.

The following subsections summarize key variations and trends in cVOC concentrations by analyte, with an emphasis on the concentration trends for PCE as the driver of extents of the groundwater plume and restoration timeframe as natural attenuation continues.

3.2.3.1 Tetrachloroethene

Twenty-three monitoring wells were sampled for PCE. PCE was detected above the Site cleanup level in five monitoring wells during the June 2024 sampling event, and in one

monitoring well during the December 2024 sampling event (two of the wells, HC-MW-01 and HC-MW-02 which exceeded in June were not sampled in December). Four monitoring wells showed significant improvement in PCE concentrations after implementation of the Maddux South ISCR injections conducted in May 2024:

- AMW-19 – South McClellan Street ROW – Over the five performance monitoring events between January 2022 and December 2023, PCE was detected at AMW-19 at concentrations between 13.9 and 53 µg/L. Similarly, PCE was detected at a concentration of 70.7 µg/L in June 2024, immediately following the Maddux South injections in May. However, during the December 2024 sampling event, PCE was detected at a concentration of 0.562 µg/L, well below the Site cleanup level of 5 µg/L.
- AMW-27 and AMW-28 – West Side of Maddux South, Downgradient of AMW-19 – Following installation of these replacement wells, PCE exceeded the Site cleanup level in both wells during both subsequent events, at concentrations up to 34.3 µg/L. Following the Maddux South ISCR injections in May 2024, PCE was only detected above the Site cleanup level at AMW-27 in June 2024, at a concentration of 14.7 µg/L. During the December 2024 performance monitoring event, PCE was detected at concentrations of 2.33 and 1.28 µg/L, respectively, in these two wells, which are below the Site cleanup level. Additionally, no other cVOC degradation products were detected above the Site cleanup levels at these two wells.
- AMW-20- South of Maddux South, Downgradient of AMW-27 and AMW-28 – Following remedial excavation in 2020, PCE had been detected at concentrations between 4.10 and 13.6 µg/L over the six performance monitoring events between December 2020 and December 2023. Following the Maddux South ISCR injections in May 2024, PCE was detected at concentrations below the Site cleanup level (2.06 and 0.65 µg/L in June 2024 and December 2024).

As of December 2024, PCE exceedances in groundwater are currently limited to three wells (HC-MW-02, AMW-06, and AMW-24) located downgradient of the Maddux North source area and on the eastern side of the groundwater plume, to the east of Maddux South (Figure 7):

- HC-MW-02: Prior to the remedial excavations, concentrations of PCE at this location in South McClellan Street had varied between 990 and 1,100 µg/L. Following the remedial excavations, PCE was detected at concentrations between 73.6 and 377 µg/L during six performance monitoring events between December 2020 and December 2023. Following the Maddux South ISCR injections in May 2024, PCE concentrations had significantly decreased to 39.5 µg/L, which is still above the Site cleanup level. However, as evidenced by the increased concentrations of PCE degradation daughter products (discussed more below), ISCR treatment was actively occurring during the May 2024 sampling event and likely to continue thereafter. HC-MW-02 could not be sampled during the December 2024 event due to new street use permit requirements that SDOT is requiring to access this monitoring well (and HC-MW-01).
- AMW-06: Concentrations of PCE at AMW-06, which is also in South McClellan Street, had been detected between 3.34 and 4.93 µg/L, below the Site cleanup level,

over the preceding six performance monitoring events before the Maddux South ISCR injections in May 2024. Following those injections, PCE was detected at concentrations of 8.17 and 6.07 µg/L in the June and December 2024 performance monitoring events, slightly above the Site cleanup level of 5 µg/L. This momentary rise in concentrations may be due to the injection-induced desorption of PCE mass from soil. Concentrations of PCE are expected to quickly attenuate to below the Site cleanup level.

- AMW-24: At AMW-24, which is located south of South McClellan Street and east of Maddux South, PCE concentrations have been relatively stable since its installation in 2019, fluctuating between 308 and 510 µg/L. No significant change was noted in the PCE concentration in June 2024, shortly following the Maddux South injections in May. However, during the December 2024 monitoring event, PCE concentrations had been reduced to an all-time low (279 µg/L), and concentrations of the cVOC degradation byproducts (discussed more below) had significantly risen, indicating that ISCR treatment is occurring in this area.

3.2.3.2 Trichloroethene

TCE exceedances, which were observed both north and south of Maddux South prior to remedial excavation, were observed in only three wells during the June 2024 and December 2024 performance monitoring events. TCE was detected at concentrations above the Site cleanup (5 µg/L) at AMW-19, AMW-24, and HC-MW-02 during the June 2024 monitoring event at concentrations ranging between 16.6 and 42.3 µg/L. During the December 2024 performance monitoring event, TCE was not detected above the Site cleanup level at AMW-19, but it was detected at a concentration of 72 µg/L at AMW-24. This increase in TCE is due to the active ISCR treatment occurring at this location and is expected to decrease as treatment continues. HC-MW-02 could not be accessed during the December 2024 monitoring event.

3.2.3.3 Cis-1,2-dichloroethene

cDCE exceedances, which were observed throughout the Site prior to the remedial excavations and ISCR injections, were limited to four wells during the June 2024 and December 2024 performance monitoring events. cDCE was detected at concentrations above the Site cleanup (16 µg/L) at AMW-19, AMW-20, AMW-25, and HC-MW-02 during the June 2024 monitoring event at concentrations ranging between 17.2 and 110 µg/L. During the December 2024 performance monitoring event, cDCE was not detected above the Site cleanup level at AMW-20 or AMW-25, but it was detected at a concentration of 111 µg/L at AMW-19. The decrease at AMW-20 indicates that ISCR treatment is occurring to the south of Maddux South. While concentrations of cDCE did not change significantly at AMW-19 (from 111 µg/L to 112 µg/L), PCE and TCE decreased to less than the Site cleanup levels during the December 2024 monitoring event, which indicates ISCR treatment is ongoing in this portion of the Site, to the north of Maddux South in the South McClellan Street ROW. HC-MW-02 could not be accessed during the December 2024 monitoring event.

3.2.3.4 Vinyl Chloride

The VC plume footprint and concentrations downgradient of Maddux South has been reduced following the Maddux South ISCR injections. As expected, additional VC has

been generated in South McClellan Street, downgradient of Maddux North and upgradient of Maddux South due to reductive dechlorination resulting from the series of remedial injections. During the June and December 2024 monitoring events, VC concentrations increased at AMW-11, AMW-15, AMW-19, AMW-24, AMW-26, HC-MW-06, MW-07, but have been overall fluctuating since 2023. These results indicate the presence of treated groundwater from the May 2024 ISCR injections. VC concentrations in the plume have otherwise greatly reduced throughout the monitoring period, particularly in the downgradient wells. HC-MW-05, AMW-17, AMW-22, AMW-25, AMW-27, and MW-05 all had concentrations of VC exceeding the Site cleanup level in June 2024 but did not in December 2024.

3.2.4 Groundwater Geochemical Analysis

Geochemical parameters (summarized in Table 5) were analyzed to measure the effectiveness of the Maddux South ISCR injections and monitor downgradient migration of treated groundwater to help estimate the restoration timeframe.

Elevated dissolved iron concentrations were observed in AMW-15, AMW-16, AMW-17, AMW-19, AMW-20, AMW-24, and AMW-27 (Table 5), which is a positive indicator of geochemical influence of injections and reducing conditions.

MTCA does not provide a groundwater cleanup level for methane, but methane produced during in situ treatment can create dangerous conditions by exceeding the lower explosive limit concentration in air in subsurface spaces like basements and vaults. Based on previous guidance from Ecology, groundwater analytical results were screened against a 10 milligram per liter (mg/L) screening level suggested by the Indiana Department of Environmental Management (2019). The highest concentration of methane in groundwater during the June 2024 and December 2024 sampling events was 8.89 mg/L, indicating elevated methane levels, but low risk of explosive conditions resulting from methane production. However, these elevated methane concentrations warrant continued methane monitoring. The production of methane is a necessary step for the 3DME treatment reagent to function, and a positive indicator that conditions are suitable for natural attenuation.

At Maddux North and in the northern South McClellan Street ROW, conditions remain reducing at key former hot-spot well HC-MW-05. Ongoing ethene and ethane production, elevated TOC, depleted oxygen, and negative oxidation-reduction potential (ORP) all indicate injections in this area continue to treat residual cVOC mass that is likely desorbing from the soil over time. DO and ORP data from HC-MW-06, AMW-26, and AMW-25 indicate sustained reducing conditions.

Ethane concentrations increased at key wells AMW-19 and AMW-24 in the December 2024 event, indicating ongoing full dechlorination in this area, from PCE through VC to non-toxic end-products. Further downgradient, lower and non-detect ethene and ethane may be a result of the low cVOC mass present, meaning their absence does not preclude the possibility that full dechlorination is occurring in this area.

DO has decreased to less than 1 mg/L in all Maddux South wells currently exceeding cleanup levels. DO was previously present at 3-5 mg/L in AMW-06 and AMW-24 and fluctuated within oxic ranges in downgradient wells. This consistent decrease is another

indicator that treatment created the reducing conditions necessary for full reductive dechlorination. ORP data indicate the same general trend.

Elevated TOC was observed at a number of treatment-area wells in June 2024 immediately following treatment. While concentrations of TOC required to sustain accelerated treatment have mostly subsided in the treatment area, concentrations of TOC are still sustained above background (1-2 mg/L), and should sustain ongoing natural attenuation by soil biota in combination with the reducing conditions produced by injections.

4 Conclusions

The following sections present conclusions for the trends of Site COCs in groundwater and for the continued monitoring program for the Site.

4.1 Groundwater Quality

Groundwater quality has significantly improved following remedial excavation of contaminated soil on Maddux North and Maddux South in 2020, the successful implementation of in situ groundwater treatment in areas where sidewall soil performance sampling indicated higher concentrations of PCE sorbed to soil in 2021 and 2022, and implementation of in situ groundwater treatment in the downgradient, higher-concentration, PCE and VC groundwater plumes in the South McClellan Street ROWs and south of Maddux South, respectively, in 2024. The increasing number of wells complying with Site cleanup levels in 2024 (12 of 21 during the December 2024 event) and overall decreasing cVOC concentrations are a result of the cumulative effects of the multi-year injection program implemented at the Site indicate continued accelerated degradation and attenuation of chlorinated solvents. Geochemical conditions in and downgradient of the treatment transects indicated that the injection program effectively distributed TOC (3DME) and iron (S-micro ZVI) within the treatment areas. Ongoing reducing conditions and ethene and ethane production (which indicate full dechlorinated/treatment of PCE) in the areas with highest cVOC mass indicate treatment is likely to continue into 2025. However, as the injected treatment reagent is consumed, concentration decreases are likely to decelerate from a pace driven by active treatment to a pace driven by natural attenuation.

4.2 Restoration Timeframe

With limited data following active remediation, the ability to project the decrease of Site COC concentrations to the Site cleanup levels is limited, but it has been shown that rate of degradation has improved dramatically following the remedial excavations and ISCR injections. Based on (a) rapid cVOC concentration decreases observed in key wells AMW-19 and AMW-24 (which are immediately downgradient of the 2024 Maddux South injects), (b) compliance with Site cleanup levels achieved in numerous other wells, and (c) decreasing downgradient VC concentrations, it is clear that the restoration timeframe for the Site has been shortened by the 2024 ISCR injections. Additional data will be required to more closely evaluate long-term trends.

Therefore, no changes to the current monitoring program are recommended. Short-term performance monitoring of groundwater will continue semiannually in June and December 2025, and the analytical results will be summarized in the next ACMR. Concurrently with this 2024 ACMR, a Rough-Order-of-Magnitude (ROM) Cost Estimate for Compliance Monitoring is being prepared that will detail the assumed durations and associated costs for short-term performance monitoring in 2025 to evaluate the efficacy of the 2024 ISCR injections, long-term performance monitoring during the MNA period, and confirmation monitoring once groundwater at the Site has achieved the cleanup standards.

5 References

Aspect Consulting, LLC (Aspect), 2020a, Mount Baker Properties Site Cleanup Action Plan, Mount Baker Properties Site, Prepared for Mt. Baker Housing Association, Final, dated January 6, 2020.

Aspect Consulting, LLC (Aspect), 2020b, Compliance Monitoring Plan, Mount Baker Properties Site, Prepared for Mt. Baker Housing Association, Final, dated September 25, 2020.

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Aspect Consulting (Aspect), 2024a, 2024 In Situ Chemical Reduction Work Plan, Mount Baker Properties Site, Prepared for Mt. Baker Housing Association, dated March 25, 2024.

Aspect Consulting (Aspect), 2024b, 2023 Annual Compliance Monitoring Report, Mount Baker Properties Site, Prepared for Mt. Baker Housing Association, dated June 21, 2024.

Indiana Department of Environmental Management, 2019, Technical Guidance Document: Addressing Methane at Anaerobic Bioremediation Sites, Accessed January 11, 2022, https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_methane_mitigation.pdf

6 Limitations

Work for this project was performed for the Mt. Baker Housing Association (Client), and this report was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This report does not represent a legal opinion. No other warranty, expressed or implied, is made.

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TABLES

Table 1. Maddux South ISCR Injection Summary

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

Injection Point	Date Started	Date Completed	Injection Intervals (ft bgs)	Average Flow Rate (gpm)	Average Initial Pressure (psi)	Average Sustained Pressure (psi)	Volume S-MicroZVI Injected (gal)	Volume 3DME Injected (gal)	Volume Water Injected (gal)	Total Volume Injected (gal)	Day Lighting (X)
IJ-47	5/5/2024	5/5/2024	10-15	9.1	310	250	7	6	80	100	
IJ-48	5/15/2024	5/15/2024	10-20	4.5	241	186	7	6	84	98	
IJ-49	5/5/2024	5/5/2024	10-15	7.2	270	236	7	6	80	90	X
IJ-50	5/14/2024	5/14/2024	10-19	4.5	259	200	7	6	80	90	X
IJ-51	5/5/2024	5/5/2024	10-15	9.0	226	146	7	6	80	90	X
IJ-52	5/14/2024	5/14/2024	10-16	4.6	255	230	7	6	76	86	X
IJ-53	5/5/2024	5/5/2024	10-15	9.0	254	140	7	6	80	90	X
IJ-54	5/13/2024	5/13/2024	10-20	4.5	200	185	7	6	80	90	X
IJ-55	5/5/2024	5/5/2024	10-15	9.0	152	112	7	6	80	90	
IJ-56	5/13/2024	5/13/2024	10-20	6.4	205	145	7	6	80	100	X
IJ-57	5/4/2024	5/4/2024	10-16	9.0	317	168	7	6	80	90	X
IJ-58	5/15/2024	5/15/2024	10-20	6.2	175	135	7	6	80	96	
IJ-59	5/4/2024	5/4/2024	10-16	3.3	255	214	6	5	72	81	X
IJ-60	5/15/2024	5/15/2024	10-18, 19-20	4.5	215	175	7	6	80	90	
IJ-61	5/4/2024	5/4/2024	10-20	5.9	85	75	7	6	80	90	X
IJ-62	5/16/2024	5/16/2024	10-19	3.9	182	164	7	6	80	96	X
IJ-63	5/4/2024	5/4/2024	10-20	8.1	130	108	7	6	80	90	X
IJ-64	5/16/2024	5/16/2024	10-20	5.7	130	100	7	6	80	96	
IJ-65	5/16/2024	5/16/2024	10-20	6.8	140	100	7	6	80	90	
IJ-66	5/6/2024	5/6/2024	10-20	9.1	149	110	7	6	80	100	
IJ-67	5/6/2024	5/6/2024	10-17,18-20	8.1	230	190	7	6	80	90	X
IJ-68	5/6/2024	5/6/2024	10-20	7.2	125	90	7	6	80	90	X
IJ-69	5/6/2024	5/6/2024	10-20	5.0	240	190	7	6	80	90	
IJ-70	5/3/2024	5/4/2024	10-20	10.0	215	132	7	6	80	100	
IJ-71	5/3/2024	5/3/2024	10-20	8.2	100	100	7	6	80	100	
IJ-72	5/16/2024	5/16/2024	10-20	5.9	115	100	7	6	80	100	
IJ-73	5/17/2024	5/17/2024	10-20	5.0	100	100	7	6	80	90	
IJ-74	5/17/2024	5/17/2024	10-20	5.9	100	100	7	6	80	90	
IJ-75	5/17/2024	5/17/2024	10-20	6.8	115	100	7	6	80	90	
IJ-76	5/17/2024	5/17/2024	10-20	6.3	100	100	7	6	80	90	
IJ-77	5/17/2024	5/17/2024	10-20	6.8	110	100	7	6	80	90	
IJ-78	5/17/2024	5/17/2024	10-20	7.7	105	100	7	6	80	100	
IJ-79	5/22/2024	5/22/2024	10-19	4.4	223	177	7	6	80	96	X
IJ-80	5/20/2024	5/20/2024	10-20	6.0	105	100	7	6	80	96	
IJ-81	5/20/2024	5/20/2024	10-20	5.9	190	110	7	6	80	90	
IJ-82	5/20/2024	5/20/2024	10-20	5.9	170	120	7	6	80	90	
IJ-83	5/20/2024	5/20/2024	10-20	6.5	170	140	7	6	80	100	
IJ-84	5/20/2024	5/20/2024	10-20	4.5	135	115	7	6	80	90	
IJ-85	5/21/2024	5/21/2024	10-20	9.2	115	105	7	6	80	96	
IJ-86	5/21/2024	5/21/2024	10-20	6.8	185	125	7	6	80	90	
IJ-87	5/21/2024	5/21/2024	10-20	8.1	160	120	7	6	80	90	
IJ-88	5/21/2024	5/21/2024	10-20	5.4	175	105	7	6	80	90	
IJ-89	5/21/2024	5/21/2024	10-20	5.0	170	140	7	6	80	90	
IJ-90	5/21/2024	5/21/2024	10-20	5.4	150	130	7	6	80	90	
IJ-91	5/21/2024	5/21/2024	10-20	5.4	180	125	7	6	80	90	
IJ-92	5/22/2024	5/22/2024	10-20	4.0	125	100	7	6	80	100	X
IJ-93	5/22/2024	5/22/2024	10-20	5.9	165	100	7	6	80	90	X
IJ-94	5/22/2024	5/22/2024	10-11,12-20	2.3	95	65	7	6	80	90	X
IJ-95	5/22/2024	5/22/2024	10-14,16-20	2.5	90	45	7	6	80	100	X
					Totals[1]:		**342**	**293**	**3,911**	**4,541**	

Notes

1. Due to field measuring precision limitations and rounding, the totals in this table do not exactly match the totals specified in the design.

Table 2. Breakthrough Monitoring Summary

Project #AS160324N, Mount Baker Properties Site, Seattle, WA

Well ID	Injection Point	Distance from Well (feet)	Breakthrough Observed During Injection?	Total Organic Carbon Concentration (mg/L)			Notes
				December 2023 (Pre-Injection)	June 2024 (Post-Injection)	December 2024 (Post-Injection)	
AMW-16	IJ-93	10.5	No	No Data	24.6	30.7	Well cap was under pressure upon removal. Observed slight inorganic and sulfur-like order, no sheen, and clear water with no distinct color.
	IJ-94	7.5	No				Observed slight inorganic and sulfur-like odor.
AMW-27	IJ-74	2.75	Yes	No Data	7.83	7.62	Significant increase in turbidity and visual indication in purge water. Gray, turbid water with white cloudy sheen.
AMW-19	IJ-62	3.5	No	6.22	8.03	8.10	Observed slightly cloudy, brown hue, with trace black particulates during initial purging.
	IJ-64	9.5	No				--
AMW-20	IJ-84	2	Yes	5.72	67.8	10.8	Significant increase in turbidity and visual indication in purge water. Gray, turbid water with white cloudy sheen.
AMW-24	IJ-68	8.5	No	No Data	64.8	3.52	--
AMW-28	IJ-78	15.5	Yes	No Data	No Data	No Data	Breakthrough observed while purging AMW-28 pre-injection at IJ-80. Gray, turbid water with white cloudy sheen. Injectate likely resulted from injection three days prior at IJ-78.
MW-5	IJ-76	8.75	No	No Data	No Data	No Data	Observed clear water with slight orange hue during purging.
	IJ-77	13.75	No				--
MW-10	IJ-87	12	No	No Data	No Data	No Data	Observed slight sulfur-like order, no sheen, and clear water with no distinct color.
	IJ-88	8	No				Observed slight sulfur-like order, no sheen, and clear water with no distinct color.
	IJ-89	12	No				Observed slight sulfur-like order, no sheen, and clear water with no distinct color.

Notes

Cells indicating the presence of reagent are highlighted green

Table 3. Groundwater Elevation Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Well	TOC Elevation (ft NAVD88)	Date	Measured Depth to Water (ft below TOC)	Water Level Elevation (ft NAVD88)
AMW-01 (Decommissioned)	77.55	11/27/2017	9.14	68.41
AMW-02 (Decommissioned)	72.48	11/27/2017	6.71	65.77
		8/24/2018	8.39	64.09
AMW-03	78.38	11/27/2017	7.74	70.64
		8/22/2018	9.01	69.37
		12/29/2020	4.42	73.96
		3/26/2021	6.30	72.08
		6/16/2021	6.73	71.65
		1/25/2022	8.50	69.88
		6/7/2022	6.39	71.99
		12/27/2022	5.35	73.03
		6/5/2023	6.04	72.34
		12/4/2023	5.52	72.86
		6/25/2024	5.90	72.48
		12/4/2024	5.99	72.39
AMW-04 (Decommissioned)	64.21	11/29/2017	10.46	53.75
		8/27/2018	13.84	50.37
AMW-05 (Decommissioned)	63.83	11/29/2017	10.76	53.07
		8/22/2018	12.94	50.89
AMW-06	74.96	11/28/2017	9.16	65.80
		8/22/2018	9.83	65.13
		12/30/2020	9.25	65.71
		3/26/2021	9.00	65.96
		6/16/2021	9.21	65.75
		1/25/2022	9.02	65.94
		6/7/2022	9.16	65.80
		12/27/2022	8.65	66.31
		6/5/2023	9.49	65.47
		12/4/2023	9.39	65.57
		6/25/2024	9.24	65.72
		12/4/2024	8.86	66.10
AMW-07	75.36	11/28/2017	11.38	63.98
		8/20/2018	12.08	63.28
		12/29/2020	11.05	64.31
		6/16/2021	11.27	64.09
		1/25/2022	11.98	63.38
		6/7/2022	11.17	64.19
		12/27/2022	10.59	64.77
		6/5/2023	11.55	63.81
		12/4/2023	11.22	64.14
		6/25/2024	--	--
		12/4/2024	--	--
AMW-08	63.69	11/28/2017	12.87	50.82
		8/20/2018	13.60	50.09
		12/29/2020	8.16	55.53
		6/16/2021	15.69	48.00
		6/7/2022	12.12	51.57
		12/27/2022	10.81	52.88
		6/5/2023	12.66	51.03
		12/4/2023	12.84	50.85
		6/25/2024	12.76	50.93
		12/4/2024	13.37	50.32
AMW-09	56.5	11/27/2017	8.62	47.88
		8/21/2018	9.62	46.88
		12/30/2020	8.67	47.83
		6/16/2021	9.08	47.42
		6/7/2022	8.89	47.61
		12/27/2022	8.40	48.10
		6/5/2023	9.24	47.26
		12/4/2023	8.70	47.80
		6/25/2024	9.29	47.21
		12/4/2024	9.14	47.36
AMW-10 (Decommissioned)	67.08	11/27/2017	7.13	59.95
		8/24/2018	8.94	58.14
AMW-11	55.17	11/28/2017	10.92	44.25
		8/23/2018	11.24	43.93
		12/30/2020	9.58	45.59
		6/16/2021	10.44	44.73
		6/7/2022	9.98	45.19
		12/27/2022	9.50	45.67
		6/5/2023	10.75	44.42
		12/4/2023	9.95	45.22
		6/25/2024	11.21	43.96
		12/4/2024	10.94	44.23
AMW-12 (Decommissioned)	60.33	11/29/2017	11.14	49.19
		8/21/2018	12.74	47.59
AMW-13 (Decommissioned)	62.7	11/29/2017	12.73	49.97
		8/27/2018	15.16	47.54

Table 3. Groundwater Elevation Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Well	TOC Elevation (ft NAVD88)	Date	Measured Depth to Water (ft below TOC)	Water Level Elevation (ft NAVD88)
AMW-14	56.85	11/28/2017	11.70	45.15
		8/23/2018	13.19	43.66
		12/29/2020	10.78	46.07
		6/16/2021	12.39	44.46
		6/7/2022	11.90	44.95
		12/27/2022	10.80	46.05
		6/5/2023	12.45	44.40
		12/4/2023	11.76	45.09
		6/25/2024	12.80	44.05
		12/4/2024	12.55	44.30
AMW-15	55.78	11/28/2017	9.51	46.27
		8/23/2018	10.02	45.76
		12/30/2020	9.56	46.22
		6/16/2021	9.63	46.15
		6/7/2022	9.56	46.22
		12/27/2022	9.48	46.30
		6/5/2023	9.92	45.86
		12/4/2023	9.80	45.98
		6/25/2024	10.56	45.22
		12/4/2024	10.45	45.33
AMW-16	58.11	8/23/2018	11.81	46.30
		12/29/2020	13.89	44.22
		6/16/2021	13.49	44.62
		6/7/2022	13.28	44.83
		12/27/2022	12.71	45.40
		6/5/2023	11.90	46.21
		12/4/2023	11.21	46.90
		6/25/2024	12.78	45.33
		12/4/2024	12.74	45.37
AMW-17	58.79	8/23/2018	12.38	46.41
		12/30/2020	11.97	46.82
		6/17/2021	11.08	47.71
		6/7/2022	12.53	46.26
		12/27/2022	11.97	46.82
		6/5/2023	12.22	46.57
		12/5/2023	11.69	47.10
		6/25/2024	12.58	46.21
		12/4/2024	12.51	46.28
AMW-18	54.07	8/23/2018	10.48	43.59
		12/29/2020	9.67	44.40
		6/16/2021	10.07	44.00
		6/7/2022	9.51	44.56
		12/27/2022	9.56	44.51
		6/5/2023	10.09	43.98
		12/4/2023	9.80	44.27
		6/25/2024	10.27	43.80
		12/4/2024	10.04	44.03
AMW-19	65.01	8/24/2018	9.24	55.77
		12/31/2020	8.93	56.08
		3/26/2021	9.24	55.77
		6/16/2021	9.00	56.01
		1/25/2022	8.50	56.51
		6/7/2022	8.09	56.92
		12/27/2022	7.02	57.99
		12/27/2022	7.02	57.99
		6/5/2023	8.50	56.51
		6/25/2024	7.83	57.18
		12/4/2024	8.19	56.82
AMW-20	59.9	8/22/2018	12.64	47.26
		8/24/2018	8.39	51.51
		12/29/2020	8.80	51.10
		6/16/2021	9.38	50.52
		6/7/2022	9.15	50.75
		12/27/2022	8.62	51.28
		6/5/2023	8.82	51.08
		12/4/2023	9.03	50.87
		6/25/2024	8.79	51.11
		12/4/2024	8.89	51.01
AMW-21 (Decommissioned)	77.7	7/31/2019	3.31	74.39
AMW-22	53.26	4/1/2019	1.75	51.51
		12/29/2020	0.65	52.61
		6/16/2021	1.25	52.01
		6/7/2022	1.40	51.86
		12/27/2022	0.70	52.56
		6/6/2023	2.25	51.01
		12/6/2023	0.00	53.26
		6/25/2024	2.40	50.86
		12/4/2024	1.38	51.88

Table 3. Groundwater Elevation Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Well	TOC Elevation (ft NAVD88)	Date	Measured Depth to Water (ft below TOC)	Water Level Elevation (ft NAVD88)
AMW-23	53.36	7/31/2019	8.67	44.69
		12/30/2020	7.77	45.59
		6/16/2021	7.75	45.61
		6/7/2022	7.48	45.88
		12/27/2022	7.46	45.90
		6/5/2023	8.10	45.26
		12/4/2023	7.91	45.45
		6/25/2024	8.27	45.09
		12/4/2024	8.23	45.13
AMW-24	72.08	4/1/2019	14.56	57.52
		12/30/2020	15.79	56.29
		6/16/2021	15.73	56.35
		1/25/2022	14.95	57.13
		6/7/2022	15.19	56.89
		12/27/2022	14.69	57.39
		6/5/2023	15.67	56.41
		12/4/2023	15.48	56.60
		6/25/2024	15.35	56.73
		12/4/2024	15.51	56.57
AMW-25	69.92	1/25/2021	6.04	63.88
		3/26/2021	5.64	64.28
		6/16/2021	9.55	60.37
		1/25/2022	8.50	61.42
		6/7/2022	8.68	61.24
		12/27/2022	7.23	62.69
		6/5/2023	8.77	61.15
		12/4/2023	8.61	61.31
		6/25/2024	7.64	62.28
		12/4/2024	8.88	61.04
AMW-26	65.36	6/5/2023	4.58	60.78
		12/4/2023	4.03	61.33
		6/25/2024	3.37	61.99
		12/4/2024	4.65	60.71
AMW-27	61.86	6/5/2023	10.64	51.22
		12/4/2023	10.91	50.95
		6/25/2024	10.68	51.18
		12/4/2024	10.74	51.12
AMW-28	61.18	6/5/2023	9.98	51.20
		12/4/2023	10.23	50.95
		6/25/2024	10.00	51.18
		12/4/2024	10.05	51.13
AMW-29	78.82	6/5/2023	6.54	72.28
		12/4/2023	5.51	73.31
		6/25/2024	6.17	72.65
		12/4/2024	6.32	72.50
HC-MW-1	67.23	11/27/2017	8.02	59.21
		8/27/2018	9.84	57.39
		12/31/2020	8.91	58.32
		3/26/2021	9.26	57.97
		6/17/2021	10.08	57.15
		1/25/2022	8.65	58.58
		6/7/2022[a]	--	--
		12/27/2022[a]	--	--
		6/7/2023	8.97	58.26
		12/4/2023	8.45	58.78
		6/25/2024	7.86	59.37
		12/4/2024	--	--
HC-MW-02	74.82	11/27/2017	8.14	66.68
		8/27/2018	9.14	65.68
		12/31/2020	7.96	66.86
		3/26/2021	7.95	66.87
		6/17/2021	8.60	66.22
		1/25/2022	8.03	66.79
		6/7/2022	8.15	66.67
		12/27/2022	7.75	67.07
		6/5/2023	8.47	66.35
		12/4/2023	8.50	66.32
		6/25/2024	8.03	66.79
		12/4/2024	--	--
HC-MW-03 (Decommissioned)	78.19	12/30/2020	6.52	71.67
		1/25/2021	6.24	71.95
		3/26/2021	6.15	72.04
		11/27/2017	6.33	71.86
		8/24/2018	7.68	70.51
		6/16/2021	6.64	71.55
		1/25/2022	6.16	72.03
		6/7/2022	6.25	71.94
		12/27/2022	4.63	73.56

Table 3. Groundwater Elevation Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Well	TOC Elevation (ft NAVD88)	Date	Measured Depth to Water (ft below TOC)	Water Level Elevation (ft NAVD88)
HC-MW-04	87.74	11/27/2017	9.50	78.24
		8/24/2018	12.21	75.53
		12/29/2020	9.51	78.23
		6/16/2021	8.85	78.89
		1/25/2022	9.82	77.92
		6/7/2022	9.20	78.54
		12/27/2022	8.45	79.29
		6/5/2023	9.77	77.97
		12/5/2023	10.58	77.16
		6/25/2024	10.30	77.44
		12/4/2024	--	--
HC-MW-05	72.54	11/27/2017	5.54	67
		8/24/2018	7.59	64.95
		12/31/2020	11.41	61.13
		1/25/2021	11.63	60.91
		3/26/2021	11.70	60.84
		6/16/2021	11.74	60.8
		1/25/2022	10.70	61.84
		6/7/2022	11.81	60.73
	72.07[b]	12/27/2022	7.30	64.77
		6/5/2023	9.56	62.51
		12/4/2023	8.59	63.48
		6/25/2024	8.55	63.52
		12/4/2024	9.54	62.53
HC-MW-06	62.92	11/28/2017	6.52	56.4
		8/22/2018	8.35	54.57
		12/30/2020	5.30	57.62
		6/16/2021	6.60	56.32
		6/7/2022	4.00	58.92
		12/27/2022	2.02	60.90
		6/5/2023	5.58	57.34
		12/4/2023	4.28	58.64
		6/25/2024	3.54	59.38
		12/4/2024	5.34	57.58
HC-MW-07	63.59	11/27/2017	6.11	57.48
		8/22/2018	7.56	56.03
		12/30/2020	5.50	58.09
		6/16/2021	6.14	57.45
		6/7/2022	5.00	58.59
		12/27/2022	3.23	60.36
		6/5/2023	5.26	58.33
		12/4/2023	4.70	58.89
		6/25/2024	3.88	59.71
		12/4/2024	5.39	58.2
MW-01 (Decommissioned)	62.6	11/29/2017	9.92	52.68
		8/24/2018	12.93	49.67
MW-02 (Decommissioned)	60.78	11/28/2017	10.19	50.59
		8/21/2018	12.45	48.33
MW-03 (Decommissioned)	61.87	11/28/2017	10.04	51.83
		8/22/2018	12.44	49.43
MW-04 (Decommissioned)	62.98	11/29/2017	10.30	52.68
		8/22/2018	12.86	50.12
MW-05	61.86	11/29/2017	10.11	51.75
		8/22/2018	12.51	49.35
		12/29/2020	10.55	51.31
		6/16/2021	11.19	50.67
		6/7/2022	10.99	50.87
		12/27/2022	9.05	52.81
		6/5/2023	10.09	51.77
		12/4/2023	10.32	51.54
		6/25/2024	10.56	51.3
		12/4/2024	10.39	51.47
MW-06	58.28	11/28/2017	11.72	46.56
		8/22/2018	12.40	45.88
		12/29/2020	11.99	46.29
		6/16/2021	11.90	46.38
		6/7/2022	11.93	46.35
		12/27/2022	11.64	46.64
		6/5/2023	12.26	46.02
		12/4/2023	10.03	48.25
		6/25/2024	12.71	45.57
		12/4/2024	12.54	45.74
MW-07	57.13	11/28/2017	10.68	46.45
		8/22/2018	11.27	45.86
		12/30/2020	10.78	46.35
		6/16/2021	10.85	46.28
		6/7/2022	10.83	46.3
		12/27/2022	10.62	46.51
		6/5/2023	11.04	46.09
		12/4/2023	10.94	46.19
		6/25/2024	11.75	45.38
		12/4/2024	11.60	45.53

Table 3. Groundwater Elevation Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Well	TOC Elevation (ft NAVD88)	Date	Measured Depth to Water (ft below TOC)	Water Level Elevation (ft NAVD88)
MW-08 (Decommissioned)	61.82	11/29/2017	9.80	52.02
		8/22/2018	12.74	49.08
MW-09 (Decommissioned)	62.83	11/29/2017	12.62	50.21
		8/27/2018	15.01	47.82
MW-10	59.23	11/28/2017	11.06	48.17
		8/23/2018	13.48	45.75
		12/29/2020	9.80	49.43
		6/16/2021	9.38	49.85
		6/7/2022	10.36	48.87
		12/27/2022	8.88	50.35
		6/5/2023	9.39	49.84
		12/4/2023	9.41	49.82
		6/25/2024	9.62	49.61
		12/4/2024	9.79	49.44
MW-11 (Decommissioned)	68.17	11/29/2017	9.94	58.23
		8/22/2018	11.58	56.59
MW-12 (Decommissioned)	61.51	11/29/2017	9.98	51.53
		8/22/2018	12.41	49.1
MW-13 (Decommissioned)	65.54	11/29/2017	9.20	56.34
		8/27/2018	10.83	54.71

Notes

TOC - Top of casing

ft - feet

NAVD88 - North American Vertical Datum of 1988

a - HC-MW-01 was covered during the June and December 2022 sampling events

b - The PVC casing for HC-MW-05 was cut down several inches prior to the December 2022 sampling event

Table 4. Groundwater TPH Analytical Data

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

		Location	AMW-16								
		Date	08/23/2018	12/29/2020	06/16/2021	06/08/2022	12/28/2022	06/05/2023	12/05/2023	06/26/2024	12/05/2024
		Sample	AMW-16-082318	AMW-16-122920	AMW-16-061621	AMW-16-20220608	AMW-16-20221228	AMW-16-20230605	AMW-16-20231205	AMW-16-20240626	AMW-16-20241205
Analyte	Unit	Site Cleanup Level									
Total Petroleum Hydrocarbons											
Diesel Range Organics [TPHd]	ug/L	500	**290 X**	< 49.4 U	< 98.8 U	**667 X**	**426 X**	**203 XJ**	**314 X**	**477**	**456**
Motor Oil Range Organics [TPHo]	ug/L	500	< 250 U	**401**	**715**	< 94.8 U	< 95.1 U	< 94.0 U	< 93.6 U	< 153 U	< 141 U
Diesel and Oil Extended Range Organics [TPH-Dx]	ug/L	500	**290 X**	**401**	**715**	**701 XJ**	**426 X**	**203 XJ**	**314 X**	**477**	**456**
Diesel Range Organics (SG)	ug/L	500	--	--	--	--	--	--	--	--	--
Motor Oil Range Organics (SG)	ug/L	500	--	--	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics (SGC) [TPH-Dx (SGC)]	ug/L	500	--	--	--	--	--	--	--	--	--
Field Parameters											
Temperature	deg C		**18.5**	**14.8**	**16.4**	**14.4**	**15.94**	**16.48**	**16.38**	**15.99**	**17.38**
Specific Conductance	uS/cm		**1613**	**1929**	**1146**	**996**	**1382.7**	**1046.9**	**0.46**	**1459.7**	**1819.5**
Dissolved Oxygen	mg/L		**0.19**	**0.28**	**0.16**	**0.41**	**0.14**	**0.08**	**7.4**	**0.09**	**0.13**
pH	pH units		**6.4**	**6.74**	**6.6**	**6.42**	**6.64**	**6.75**	**4.61**	**6.67**	**6.63**
Oxidation Reduction Potential	mV		**8.1**	**-74.3**	**-75.6**	**-94.8**	**-90.6**	**-67.2**	**198.7**	**-44.9**	**-89.4**
Turbidity	NTU		**4.91**	**8.9**	**2.35**	**2.78**	**7.46**	**1.88**	**3.4**	**7.47**	**2.45**

Notes:

Bold - detected

Purple Highlight - Sample detected at a concentration above the Site Cleanup Level

Yellow Highlight - Groundwater samples shaded in yellow were reported as exceedences of Site Cleanup Levels for TPH-Dx. These detections and exceedences are a unique outcome related to in-situ groundwater treatment injections of 3DME, a treatment compound, along MLK South that was conducted in the weeks before groundwater sampling was completed. The 3DME treatment compound falls within the diesel-range but is not representative of a diesel petroleum hydrocarbon release at these well locations. This conclusion is supported by silica-gel cleanup testing for groundwater obtained from wells AMW-27 and AMW-28, which demonstrate that the TPH-Dx detections in these wells were a result of remediation products, as noted by the analytical laboratory.

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

X - Chromatographic pattern does not match fuel standard used for quantitation

XJ - Chromatographic pattern does not match fuel standard used for quantitation, and Result value estimated.

"--" - indicates results not available

mV - millivolts

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

SGC - Silica Gel Cleanup

Table 4. Groundwater TPH Analytical Data

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

			Location	AMW-17							
			Date	08/23/2018	12/30/2020	06/17/2021	06/08/2022	12/29/2022	06/05/2023	12/05/2023	06/26/2024	12/06/2024
			Sample	AMW-17-082318	AMW-17-123020	AMW-17-061721	AMW-17-20220608	AMW-17-20221229	AMW-17-20230605	AMW-17-20231205	AMW-17-20240626	AMW-17-20241206
Analyte	Unit	Site Cleanup Level										
Total Petroleum Hydrocarbons												
Diesel Range Organics [TPHd]	ug/L	500		**250 X**	**147 X**	**202**	**581 X**	**394**	**366 XJ**	**400 X**	**337 J**	**295**
Motor Oil Range Organics [TPHo]	ug/L	500		< 250 U	**122**	**132**	< 92.4 U	< 93.2 U	< 95.1 U	< 94.3 U	< 142 U	< 141 U
Diesel and Oil Extended Range Organics [TPH-Dx]	ug/L	500		**250 X**	**122**	**334**	**581 XJ**	**394**	**366 XJ**	**400 X**	**337**	**295**
Diesel Range Organics (SG)	ug/L	500		--	--	--	--	--	--	--	--	--
Motor Oil Range Organics (SG)	ug/L	500		--	--	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics (SGC) [TPH-Dx (SGC)]	ug/L	500		--	--	--	--	--	--	--	--	--
Field Parameters												
Temperature	deg C			**19.5**	**16.1**	**17**	**15.7**	**16.24**	**16.96**	**16.34**	**18.56**	**17.58**
Specific Conductance	uS/cm			**614**	**495.8**	**647**	**272.9**	**493.96**	**701.95**	**0.26**	**481.6**	**435.1**
Dissolved Oxygen	mg/L			**0.15**	**0.82**	**0.07**	**0.42**	**0.13**	**0.06**	**7.42**	**0.12**	**0.09**
pH	pH units			**6.31**	**7.1**	**6.39**	**6.53**	**6.73**	**6.69**	**4.58**	**6.45**	**6.42**
Oxidation Reduction Potential	mV			**-48.1**	**-42.1**	**-55.3**	**-82.4**	**-58**	**-34.2**	**210.6**	**-17.7**	**-51.5**
Turbidity	NTU			--	**3.5**	**12.3**	**1.87**	**2.14**	**0.48**	**2.15**	**3.16**	**2.55**

Notes:

Bold - detected

Purple Highlight - Sample detected at a concentration above the Site Cleanup Level

Yellow Highlight - Groundwater samples shaded in yellow were reported as exceedences of Site Cleanup Levels for TPH-Dx. These detections and exceedences are a unique outcome related to in-situ groundwater treatment injections of 3DME, a treatment compound, along MLK South that was conducted in the weeks before groundwater sampling was completed. The 3DME treatment compound falls within the diesel-range but is not representative of a diesel petroleum hydrocarbon release at these well locations. This conclusion is supported by silica-gel cleanup testing for groundwater obtained from wells AMW-27 and AMW-28, which demonstrate that the TPH-Dx detections in these wells were a result of remediation products, as noted by the analytical laboratory.

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

X - Chromatographic pattern does not match fuel standard used for quantitation

XJ - Chromatographic pattern does not match fuel standard used for quantitation, and Result value estimated.

"--" - indicates results not available

mV - millivolts

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

SGC - Silica Gel Cleanup

Table 4. Groundwater TPH Analytical Data

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

			Location	AMW-20								
			Date	08/22/2018	12/29/2020	06/17/2021	06/09/2022	12/27/2022	06/06/2023	06/06/2023	12/04/2023	06/26/2024	12/05/2024
			Sample	AMW-20-082218	AMW-20-122920	AMW-20-061721	AMW-20-20220609	AMW-20-20221227	AMW-FD1-060623	AMW-20-20230606	AMW-20-20231204	AMW-20-20240626	AMW-20-20241205
Analyte	Unit	Site Cleanup Level											
Total Petroleum Hydrocarbons													
Diesel Range Organics [TPHd]	ug/L	500		**360 X**	< 49.1 U	< 99.7 U	< 92.3 U	**266 X**	**283 XJ**	**307 XJ**	**248 X**	**1,610 J**	**742**
Motor Oil Range Organics [TPHo]	ug/L	500		< 250 U	**543**	**550**	**409**	< 96.9 U	< 96.0 U	< 94.9 U	< 93.8 U	< 142 U	< 147 U
Diesel and Oil Extended Range Organics [TPH-Dx]	ug/L	500		**360 X**	**543**	**550**	**409**	**266 X**	**283 XJ**	**307 XJ**	**248 X**	**1,610 J**	**742**
Diesel Range Organics (SG)	ug/L	500		--	--	--	--	--	--	--	--	--	< 97.7 U
Motor Oil Range Organics (SG)	ug/L	500		--	--	--	--	--	--	--	--	--	< 147 U
Diesel and Oil Extended Range Organics (SGC) [TPH-Dx (SGC)]	ug/L	500		--	--	--	--	--	--	--	--	--	< 244 U
Field Parameters													
Temperature	deg C			**17.3**	**12.3**	**15.7**	**14.1**	**13.34**	**17.04**	**17.04**	**15.77**	**16.6**	**17.23**
Specific Conductance	uS/cm			**501.8**	**814**	**801**	**669**	**885.06**	**601.84**	**601.84**	**668.22**	**589.45**	**1042.7**
Dissolved Oxygen	mg/L			**0.12**	**2.47**	**0.86**	**1.01**	**1.26**	**0.34**	**0.34**	**1.21**	**0.21**	**0.08**
pH	pH units			**6.64**	**7.84**	**7.48**	**7.41**	**7.56**	**7.62**	**7.62**	**7.9**	**8.29**	**7.48**
Oxidation Reduction Potential	mV			**-39.4**	**-4.3**	**48.3**	**60.4**	**107.6**	**3.7**	**3.7**	**14.2**	**-206.3**	**-155.1**
Turbidity	NTU			**3.09**	**7.73**	**1.96**	**1.42**	**0.86**	**4.85**	**4.85**	**0.53**	**4.44**	**9.97**

Notes:

Bold - detected

Purple Highlight - Sample detected at a concentration above the Site Cleanup Level

Yellow Highlight - Groundwater samples shaded in yellow were reported as exceedences of Site Cleanup Levels for TPH-Dx. These detections and exceedences are a unique outcome related to in-situ groundwater treatment injections of 3DME, a treatment compound, along MLK South that was conducted in the weeks before groundwater sampling was completed. The 3DME treatment compound falls within the diesel-range but is not representative of a diesel petroleum hydrocarbon release at these well locations. This conclusion is supported by silica-gel cleanup testing for groundwater obtained from wells AMW-27 and AMW-28, which demonstrate that the TPH-Dx detections in these wells were a result of remediation products, as noted by the analytical laboratory.

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

X - Chromatographic pattern does not match fuel standard used for quantitation

XJ - Chromatographic pattern does not match fuel standard used for quantitation, and Result value estimated.

"--" - indicates results not available

mV - millivolts

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

SGC - Silica Gel Cleanup

Table 4. Groundwater TPH Analytical Data

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

		Location	AMW-24						
		Date	01/25/2022	06/08/2022	12/29/2022	06/05/2023	12/04/2023	06/27/2024	12/05/2024
		Sample	AMW-24-012522	AMW-24-20220608	AMW-24-20221229	AMW-24-20230605	AMW-24-20231204	AMW-24-20240627	AMW-24-20241205
Analyte	Unit	Site Cleanup Level							
Total Petroleum Hydrocarbons									
Diesel Range Organics [TPHd]	ug/L	500	--	--	--	--	--	< 94.1 U	--
Motor Oil Range Organics [TPHo]	ug/L	500	--	--	--	--	--	< 141 U	--
Diesel and Oil Extended Range Organics [TPH-Dx]	ug/L	500	--	--	--	--	--	< 235 U	--
Diesel Range Organics (SG)	ug/L	500	--	--	--	--	--	< 94.1 U	--
Motor Oil Range Organics (SG)	ug/L	500	--	--	--	--	--	< 94.1 U	--
Diesel and Oil Extended Range Organics (SGC) [TPH-Dx (SGC)]	ug/L	500	--	--	--	--	--	< 188 U	--
Field Parameters									
Temperature	deg C		**13.6**	**14.8**	**13.87**	**14.55**	**15.4**	**14.89**	**13.8**
Specific Conductance	uS/cm		**661**	**448.2**	**389.14**	**630.89**	**472.42**	**800.41**	**1007.4**
Dissolved Oxygen	mg/L		**2.48**	**3.41**	**2.94**	**3.87**	**3.98**	**0.33**	**0.18**
pH	pH units		**6.37**	**6.15**	**6.42**	**6.38**	**6.39**	**7.31**	**6.5**
Oxidation Reduction Potential	mV		**-215.6**	**52.2**	**194.1**	**101.7**	**146.7**	**-80.9**	**111.7**
Turbidity	NTU		**8.86**	**5.17**	**2.26**	**0.27**	**1.54**	**3.85**	**4.4**

Notes:

Bold - detected

Purple Highlight - Sample detected at a concentration above the Site Cleanup Level

Yellow Highlight - Groundwater samples shaded in yellow were reported as exceedences of Site Cleanup Levels for TPH-Dx. These detections and exceedences are a unique outcome related to in-situ groundwater treatment injections of 3DME, a treatment compound, along MLK South that was conducted in the weeks before groundwater sampling was completed. The 3DME treatment compound falls within the diesel-range but is not representative of a diesel petroleum hydrocarbon release at these well locations. This conclusion is supported by silica-gel cleanup testing for groundwater obtained from wells AMW-27 and AMW-28, which demonstrate that the TPH-Dx detections in these wells were a result of remediation products, as noted by the analytical laboratory.

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X - Chromatographic pattern does not match fuel standard used for quantitation

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"--" - indicates results not available

mV - millivolts

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

SGC - Silica Gel Cleanup

Table 4. Groundwater TPH Analytical Data

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

		Location	AMW-27				AMW-28			
		Date	06/06/2023	12/04/2023	06/27/2024	12/06/2024	06/06/2023	12/05/2023	06/27/2024	12/05/2024
		Sample	AMW-27-20230606	AMW-27-20231204	AMW-27-20240627	AMW-27-20241206	AMW-28-20230606	AMW-28-20231205	AMW-28-20240627	AMW-28-20241205
Analyte	Unit	Site Cleanup Level								
Total Petroleum Hydrocarbons										
Diesel Range Organics [TPHd]	ug/L	500	**120 XJ**	< 93.5 U	**702 X**	< 96.9 U	**102 XJ**	**141 X**	**3,240 X**	**6,540**
Motor Oil Range Organics [TPHo]	ug/L	500	< 96.0 U	< 93.5 U	< 143 U	< 145 U	< 97.5 U	< 95.2 U	< 146 U	< 142 U
Diesel and Oil Extended Range Organics [TPH-Dx]	ug/L	500	< 192 U	< 187 U	**702 X**	< 242 U	< 195 U	**141 XJ**	**3,240 X**	**6,540**
Diesel Range Organics (SG)	ug/L	500	--	--	**238 X**	< 96.9 U	--	--	< 195 U	**2,530**
Motor Oil Range Organics (SG)	ug/L	500	--	--	< 95.1 U	< 145 U	--	--	< 195 U	< 142 U
Diesel and Oil Extended Range Organics (SGC) [TPH-Dx (SGC)]	ug/L	500	--	--	**238**	< 242 U	--	--	< 390 U	**2,540**
Field Parameters										
Temperature	deg C		**16.76**	**16.14**	**16.68**	**17.53**	**16.18**	**15.83**	**16.11**	**17.16**
Specific Conductance	uS/cm		**442.13**	**748.99**	**374.01**	**718.1**	**492.17**	**0.44**	**1051**	**1054.8**
Dissolved Oxygen	mg/L		**1.3**	**0.21**	**0.18**	**0.09**	**0.26**	**8.53**	**0.05**	**0.08**
pH	pH units		**7.6**	**7.72**	**7.99**	**7.16**	**7.65**	**4.41**	**7.19**	**7.12**
Oxidation Reduction Potential	mV		**46.1**	**4.5**	**-185.9**	**-130.4**	**29.8**	**208.6**	**-168.7**	**-164.7**
Turbidity	NTU		**2.19**	**0.44**	**4.27**	**3.63**	**13.7**	**6.84**	**15.6**	**49.9**

Notes:

Bold - detected

Purple Highlight - Sample detected at a concentration above the Site Cleanup Level

Yellow Highlight - Groundwater samples shaded in yellow were reported as exceedences of Site Cleanup Levels for TPH-Dx. These detections and exceedences are a unique outcome related to in-situ groundwater treatment injections of 3DME, a treatment compound, along MLK South that was conducted in the weeks before groundwater sampling was completed. The 3DME treatment compound falls within the diesel-range but is not representative of a diesel petroleum hydrocarbon release at these well locations. This conclusion is supported by silica-gel cleanup testing for groundwater obtained from wells AMW-27 and AMW-28, which demonstrate that the TPH-Dx detections in these wells were a result of remediation products, as noted by the analytical laboratory.

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deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

SGC - Silica Gel Cleanup

Table 4. Groundwater TPH Analytical Data

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

			Location	MW-10							
			Date	08/23/2018	12/29/2020	06/16/2021	06/07/2022	12/28/2022	06/05/2023	12/05/2023	06/25/2024	12/05/2024
			Sample	AMW-10-082318	MW-10-122920	MW-10-061621	MW-10-20220607	MW-10-20221228	MW-10-20230605	MW-10-20231205	MW-10-20240625	MW-10-20241205
Analyte	Unit	Site Cleanup Level										
Total Petroleum Hydrocarbons												
Diesel Range Organics [TPHd]	ug/L	500		**260 X**	**140 X**	< 99.4 U	**528 X**	**675 X**	**393 XJ**	**436 X**	**438**	**357**
Motor Oil Range Organics [TPHo]	ug/L	500		< 250 U	**123**	**484**	< 92.4 U	< 92.4 U	< 93.6 U	< 93.9 U	< 145 U	< 143 U
Diesel and Oil Extended Range Organics [TPH-Dx]	ug/L	500		**260 X**	**123**	**558**	**528 XJ**	**675 X**	**393 XJ**	**436 X**	**438**	**357**
Diesel Range Organics (SG)	ug/L	500		--	--	--	--	--	--	--	--	--
Motor Oil Range Organics (SG)	ug/L	500		--	--	--	--	--	--	--	--	--
Diesel and Oil Extended Range Organics (SGC) [TPH-Dx (SGC)]	ug/L	500		--	--	--	--	--	--	--	--	--
Field Parameters												
Temperature	deg C			**16.8**	**15.2**	**16.8**	**15.8**	**15.85**	**16.57**	**15.83**	--	**17.35**
Specific Conductance	uS/cm			**2156**	**1441**	**1210**	**1655**	**1038.8**	**1374.3**	**0.29**	--	**1411.7**
Dissolved Oxygen	mg/L			**0.15**	**0.18**	**0.2**	**4.3**	**0.17**	**0.18**	**8.16**	--	**0.09**
pH	pH units			**6.46**	**6.78**	**6.67**	**6.68**	**6.7**	**6.76**	**4.61**	--	**6.67**
Oxidation Reduction Potential	mV			**-109.6**	**-75.4**	**-101.8**	**-56.3**	**-103.1**	**-73.1**	**199**	--	**-98.9**
Turbidity	NTU			--	**9.56**	**8.22**	**10.1**	**2.95**	**1.68**	**2.21**	--	**1.4**

Notes:

Bold - detected

Purple Highlight - Sample detected at a concentration above the Site Cleanup Level

Yellow Highlight - Groundwater samples shaded in yellow were reported as exceedences of Site Cleanup Levels for TPH-Dx. These detections and exceedences are a unique outcome related to in-situ groundwater treatment injections of 3DME, a treatment compound, along MLK South that was conducted in the weeks before groundwater sampling was completed. The 3DME treatment compound falls within the diesel-range but is not representative of a diesel petroleum hydrocarbon release at these well locations. This conclusion is supported by silica-gel cleanup testing for groundwater obtained from wells AMW-27 and AMW-28, which demonstrate that the TPH-Dx detections in these wells were a result of remediation products, as noted by the analytical laboratory.

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mV - millivolts

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

SGC - Silica Gel Cleanup

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

			Location	AMW-01		AMW-02		AMW-03										AMW-04		
			Date	03/24/2017	11/27/2017	11/27/2017	08/24/2018	11/27/2017	08/22/2018	12/29/2020	03/26/2021	06/17/2021	01/25/2022	06/08/2022	12/27/2022	06/05/2023	12/04/2023	11/29/2017	08/27/2018	12/04/2018
			Sample	AMW-1-032417	AMW-01-112717	AMW-02-112717	AMW-02-082418	AMW-03-112717	AMW-03-082218	AMW-03-122920	AMW-3-20210326	AMW-3-061721	AMW-03-012522	AMW-3-20220608	AMW-03-20221227	AMW-03-20230605	AMW-03-20231204	AMW-04-20171129	AMW-04-082718	GW-120418-NT-AMW-4
Analyte	Unit	Site Cleanup Level																		
Chlorinated Volatile Organic Compounds (cVOCs)																				
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1 U	< 50 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 1 U	
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	< 1 U	< 50 U	< 1 U	< 1 U	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	
Chloroethane	ug/L		< 1 U	< 1 U	< 1 U	< 50 U	< 1 U	< 1 U	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	
Tetrachloroethene (PCE)	ug/L	5	**1500**	**1100**	**1800**	**2100**	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	**110**	**210**	**153**	
Trichloroethene (TCE)	ug/L	5	**1.8**	**1.4**	**58**	**68**	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	**18**	**36**	**40.2**	
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	**58**	**72**	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	**45**	**68**	**88.7**	
Methylene Chloride	ug/L		< 5 U	< 5 U	< 5 U	< 250 U	< 5 U	< 5 U	--	--	--	--	--	--	--	--	< 5 U	< 5 U	< 4 U	
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1 U	< 50 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 1 U	< 1 U	
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.2 U	**0.21**	< 10 U	< 0.2 U	< 0.2 U	< 0.200 U	< 0.350 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	**8**	**6.5**	**11.1**	
Monitored Natural Attenuation Parameters																				
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Field Parameters																				
Temperature	deg C		**13.5**	--	**16.9**	**18.7**	**15.7**	**21.3**	**13**	**12.7**	**18.2**	**11.6**	**16.4**	**12.06**	**18.25**	**14.43**	**14.4**	**15.1**	--	
Specific Conductance	uS/cm		**292.2**	--	**365.6**	**413.2**	**319**	**312.4**	**344.5**	**345**	**335.2**	**366.1**	**291.3**	**363.6**	**377.9**	**247.99**	**459.8**	**575.4**	--	
Dissolved Oxygen	mg/L		**7.68**	--	**4.73**	**0.4**	**5.85**	**51.4**	**4.42**	**6.95**	**2.94**	**4.99**	**4.35**	**5.67**	**4.55**	**5.11**	**0.55**	**1.97**	--	
pH	pH units		**6.83**	--	**7.04**	**6.62**	**7.15**	**6.71**	**6.84**	**6.91**	**6.94**	**6.9**	**6.77**	**7.13**	**7.05**	**7.02**	**6.36**	**6.58**	--	
Oxidation Reduction Potential	mV		**102.3**	--	**94.7**	**43.5**	**94.2**	**95.7**	**56.2**	**103.7**	**75.5**	**31.3**	**44**	**131.6**	**116.6**	**109.4**	**22.9**	**12.8**	--	
Turbidity	NTU		**94.1**	--	**7.41**	**2**	**24**	**42.8**	**10.6**	**53.6**	**17.1**	**5.31**	**6.37**	**78.43**	**5.57**	**15.9**	**16**	**96.8**	--	

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

			Location	AMW-05			AMW-06											
			Date	11/29/2017	08/22/2018	12/04/2018	11/28/2017	08/22/2018	12/30/2020	03/26/2021	06/18/2021	01/25/2022	06/08/2022	12/28/2022	06/05/2023	12/05/2023	06/26/2024	12/05/2024
			Sample	AMW-05-112917	AMW-05-082218	GW-120418-NT-AMW-5	AMW-06-112817	AMW-06-082218	AMW-6-123020	AMW-6-20210326	AMW-6-061821	AMW-6-012522	AMW-06-20220608	AMW-06-20221228	AMW-06-20230605	AMW-06-20231205	AMW-06-20240626	AMW-06-20241205
Analyte	Unit	Site Cleanup Level																
Chlorinated Volatile Organic Compounds (cVOCs)																		
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--	--	--	--	--	--	--	
Chloroethane	ug/L		< 1 U	< 1 U	< 4 U	< 1 U	< 1 U	--	--	--	--	--	--	--	--	--	--	
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1 U	**4.2**	**3**	**22.6**	**9.15**	**4.71**	**4.13**	**4.93**	**3.64**	**3.34**	**3.62**	**8.17**	**6.07**	
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 0.4 U	**1.3**	< 1 U	**2.31**	**1.14**	**1.18**	**1.15**	**1.07**	**0.978**	**0.654**	**0.926**	**1.35**	**1.91**	
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	**1.04**	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	**0.580**	**1.23**	
Methylene Chloride	ug/L		< 5 U	< 5 U	< 4 U	< 5 U	< 5 U	--	--	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.2 U	**0.0414**	< 0.2 U	< 0.2 U	< 0.200 U	< 0.350 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	
Monitored Natural Attenuation Parameters																		
Chloride	mg/L		--	--	--	--	--	--	--	--	--	**34.2**	**54.0**	--	--	**72.3**	**34.1**	
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	**1.51**	**1.66**	--	--	--	**2.19**	
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	< 1 U	< 1.20 U	--	--	--	< 2.50 U	
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	< 4.00 U	--	
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	**26.5**	**28.0**	--	--	**21.8**	**27.2**	
Ethane	mg/L		--	--	--	--	--	--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	< 0.0100 U	< 0.0100 U	
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	< 0.0100 U	< 0.0100 U	
Methane	mg/L		--	--	--	--	--	--	--	--	--	< 0.00675 U	< 0.00675 U	--	--	**0.0128**	**0.259**	
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	< 100 U	< 250 U	--	--	**777**	**365**	
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	**126**	**124**	--	--	**155**	**168**	
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	**0.988**	**0.951**	--	--	**1.52**	**1.62**	
Field Parameters																		
Temperature	deg C		**16.1**	**18.2**	--	**14**	**17.6**	**14.1**	**12.8**	**15.7**	**12.6**	**14.6**	**12.5**	**14.69**	**15.75**	**16.39**	**14.32**	
Specific Conductance	uS/cm		**366.8**	**798**	--	**333**	**362.6**	**388.2**	**401**	**343**	**470.7**	**168.9**	**389.24**	**471.9**	**359.79**	**392.69**	**396.88**	
Dissolved Oxygen	mg/L		**2.61**	**0.26**	--	**1.86**	**2.23**	**0.31**	**3.64**	**2.83**	**2.94**	**3.99**	**4.98**	**3.26**	**4.03**	**0.17**	**0.61**	
pH	pH units		**6.73**	**6.22**	--	**6.91**	**6.29**	**6.55**	**6.89**	**6.75**	**4.47**	**6.6**	**6.84**	**6.79**	**6.89**	**7.38**	**6.58**	
Oxidation Reduction Potential	mV		**26.6**	**107.7**	--	**22.9**	**79.3**	**61.7**	**-3.1**	**34.8**	**-104.5**	**78.6**	**19**	**79.4**	**34.1**	**-30**	**24.7**	
Turbidity	NTU		**3.58**	**2.69**	--	**7.04**	**0.32**	**12.6**	**15.2**	**4.39**	**7.2**	**8.84**	**33.75**	**15.2**	**7.05**	**4.79**	**6.71**	

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

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"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

			Location	AMW-07								AMW-08							
			Date	11/28/2017	08/20/2018	12/29/2020	06/16/2021	06/07/2022	12/27/2022	06/05/2023	12/04/2023	11/28/2017	08/20/2018	12/29/2020	06/16/2021	06/07/2022	12/27/2022	06/05/2023	12/04/2023
			Sample	AMW-07-112817	AMW-07-082018	AMW-07-122920	AMW-7-061621	AMW-7-20220607	AMW-07-20221227	AMW-07-20230605	AMW-07-20231204	AMW-08-112817	AMW-08-082018	AMW-08-122920	AMW-8-061621	AMW-8-20220607	AMW-08-20221227	AMW-08-20230605	AMW-08-20231204
Analyte	Unit	Site Cleanup Level																	
Chlorinated Volatile Organic Compounds (cVOCs)																			
1,1-Dichloroethene	ug/L			< 1 U	< 1.0 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 1 U	< 1.0 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L			< 1 U	< 1.0 U	--	--	--	--	--	--	< 1 U	< 1.0 U	--	--	--	--	--	--
Chloroethane	ug/L			< 1 U	< 1.0 U	--	--	--	--	--	--	< 1 U	< 1.0 U	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5		< 1 U	< 1.0 U	< 1.00 U	**0.625**	**0.767**	**0.810**	**0.436**	**0.773**	< 1 U	< 1.0 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U
Trichloroethene (TCE)	ug/L	5		< 1 U	< 1.0 U	**0.587**	< 0.500 U	**0.602**	**0.565**	< 0.400 U	**0.714**	< 1 U	< 1.0 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16		< 1 U	< 1.0 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 1 U	< 1.0 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
Methylene Chloride	ug/L			< 5 U	< 5.0 U	--	--	--	--	--	--	< 5 U	< 5.0 U	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16		< 1 U	< 1.0 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 1.0 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride	ug/L	0.2		< 0.2 U	< 0.20 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U
Monitored Natural Attenuation Parameters																			
Chloride	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylene	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters																			
Temperature	deg C			**15**	**17.8**	**14.9**	**16.8**	**15.6**	**14.06**	**14.66**	**15.97**	**13.9**	**16.2**	**13.2**	**15.5**	**13.9**	**13.46**	**13.61**	**14.62**
Specific Conductance	uS/cm			**385.2**	**319.4**	**537.4**	**564.3**	**488.5**	**593.23**	**631.95**	**490.09**	**404.3**	**423.6**	**278.3**	**414.5**	**382.6**	**442.69**	**313.8**	**303.75**
Dissolved Oxygen	mg/L			**3.47**	**4.91**	**2.79**	**3.43**	**38.6**	**3.35**	**4.43**	**3.92**	**3.23**	**0.59**	**4.87**	**1.07**	**10.8**	**0.3**	**0.49**	**0.18**
pH	pH units			**6.88**	**6.67**	**6.6**	**6.66**	**6.61**	**6.79**	**6.73**	**6.73**	**8.33**	**6.82**	**6.01**	**6.69**	**6.76**	**7.2**	**6.6**	**7.58**
Oxidation Reduction Potential	mV			**45.8**	**71.2**	**51.7**	**93.3**	**29**	**131.3**	**59**	**117.3**	**83.8**	**83.4**	**33.4**	**85.3**	**46.7**	**131.3**	**44**	**56.6**
Turbidity	NTU			**2.95**	**1.32**	**10.5**	**1.56**	**2.37**	< 0.02 U	**1.05**	**1.1**	**4.35**	**2.85**	**11.3**	**1.26**	**2.64**	< 0.02 U	**1.85**	**4.16**

Notes:

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"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

	Location		AMW-09								AMW-10	
	Date		11/27/2017	08/21/2018	12/30/2020	06/17/2021	06/07/2022	12/27/2022	06/07/2023	12/04/2023	11/27/2017	08/24/2018
	Sample		AMW-09-112717	AMW-09-082118	AMW-09-123020	AMW-9-061721	AMW-9-20220607	AMW-09-20221227	AMW-09-20230607	AMW-09-20231204	AMW-10-112717	AMW-10-082418
Analyte	Unit	Site Cleanup Level										
Chlorinated Volatile Organic Compounds (cVOCs)												
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 1 U	< 10 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	< 1 U	< 10 U
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	< 1 U	< 10 U
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	**310**	**650**
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	**25**	**52**
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	**31**	**69**
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	< 5 U	< 50 U
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 10 U
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.2 U	< 2 U
Monitored Natural Attenuation Parameters												
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--
Field Parameters												
Temperature	deg C		**17.2**	**19.4**	**12.1**	**15.8**	**16.2**	**16.79**	**15.97**	**17.3**	**15.7**	**17.5**
Specific Conductance	uS/cm		**797**	**952**	**817**	**864**	**759**	**776.59**	**942**	**957.09**	**389.7**	**312.6**
Dissolved Oxygen	mg/L		**0.3**	**0.26**	**0.98**	**0.23**	**4.3**	**0.13**	**0.05**	**0.34**	**1.49**	**0.45**
pH	pH units		**6.76**	**6.54**	**6.43**	**6.35**	**6.66**	**6.73**	**6.52**	**6.76**	**6.52**	**6.35**
Oxidation Reduction Potential	mV		**-30.5**	**0.3**	**51.2**	**21.1**	**-42.7**	**-86.9**	**-56.1**	**-45.7**	**106.3**	**64.6**
Turbidity	NTU		**7.85**	**1.72**	**10.3**	**0**	**3.64**	**0.28**	**0.99**	**12**	**16.7**	**1**

Notes:

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"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			AMW-11										AMW-12		AMW-13	
Date			11/28/2017	08/23/2018	12/30/2020	06/16/2021	06/08/2022	12/29/2022	06/06/2023	12/05/2023	06/26/2024	12/04/2024	11/29/2017	08/21/2018	11/29/2017	08/27/2018
Sample			AMW-11-112817	AMW-11-082318	AMW-11-123020	AMW-11-061621	AMW-11-20220608	AMW-11-20221229	AMW-11-20230606	AMW-11-20231205	AMW-11-20240626	AMW-11-20241204	AMW-12-112917	AMW-12-082118	AMW-13-20171129	AMW-13-082718
Analyte	Unit	Site Cleanup Level														
Chlorinated Volatile Organic Compounds (cVOCs)																
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	**20**	**93**
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	**59**	**41**
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	**0.738**	**0.565**	< 0.500 U	< 0.500 U	**0.659**	< 0.500 U	< 0.500 U	< 1 U	< 1 U	**110**	**84**
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	--	--	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl Chloride	ug/L	0.2	**0.22**	**0.24**	**0.920**	**1.94**	**1.20**	**0.854**	**0.441**	**0.924**	**0.426**	**0.528**	< 0.2 U	< 0.2 U	**15**	**7.6**
Monitored Natural Attenuation Parameters																
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters																
Temperature	deg C		**16.3**	**16.9**	**13**	**15.7**	**13.7**	**14.06**	**16.41**	**15.06**	**15.38**	**15.02**	**15.5**	**16.6**	**14.1**	**15.2**
Specific Conductance	uS/cm		**786**	**1035**	**686**	**465.1**	**1182**	**839**	**747.09**	**0.42**	**839.98**	**940.65**	**393.8**	**460.2**	**450.8**	**512.7**
Dissolved Oxygen	mg/L		**0.39**	**0.11**	**0.32**	**0.22**	**1.71**	**0.15**	**0.08**	**7.71**	**0.08**	**0.15**	**0.1**	**0.29**	**5**	**0.21**
pH	pH units		**6.71**	**6.59**	**7.68**	**6.9**	**6.82**	**7.02**	**7.05**	**4.64**	**6.96**	**6.79**	**6.54**	**6.48**	**6.45**	**6.45**
Oxidation Reduction Potential	mV		**-98.4**	**-106.5**	**-129**	**-62.8**	**-125.8**	**-91.2**	**-102.2**	**206.8**	**-106.3**	**-98.1**	**16.3**	**57.6**	**82.5**	**23.3**
Turbidity	NTU		**9.92**	--	**2.88**	**1.81**	**1.65**	**2.73**	**4.72**	**1.78**	**3.11**	**4.88**	**7.17**	**5.03**	**67.1**	**2.81**

Notes:

Bold - detected

Gray label - Well has been decommissioned

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"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

	Location	AMW-14							
	Date	11/28/2017	08/23/2018	12/29/2020	06/16/2021	06/08/2022	12/28/2022	06/05/2023	12/05/2023
	Sample	AMW-14-112817	AMW-14-082318	AMW-14-122920	AMW-14-061621	AMW-14-20220608	AMW-14-20221228	AMW-14-20230605	AMW-14-20231205
Analyte	Unit	Site Cleanup Level							
Chlorinated Volatile Organic Compounds (cVOCs)									
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U
Monitored Natural Attenuation Parameters										
Chloride	mg/L		--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--
Field Parameters										
Temperature	deg C		**15.9**	**17.1**	**13.9**	**17.4**	**13.8**	**15**	**17.27**	**14.99**
Specific Conductance	uS/cm		**1052**	**1142**	**1138**	**594**	**446.4**	**822.87**	**1008.8**	**0.37**
Dissolved Oxygen	mg/L		**0.48**	**0.23**	**0.66**	**0.17**	**0.42**	**0.35**	**0.09**	**7.7**
pH	pH units		**6.63**	**5.56**	**7**	**6.89**	**6.68**	**6.95**	**6.96**	**4.74**
Oxidation Reduction Potential	mV		**-96.4**	**-91.9**	**-100.1**	**-87.1**	**-105.8**	**-115**	**-91.9**	**200.4**
Turbidity	NTU		**7.4**	**1.46**	**2.19**	**2.47**	**1.55**	**9.65**	**4.88**	**4.88**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			AMW-15									
		Date	11/28/2017	08/23/2018	12/30/2020	06/16/2021	06/08/2022	12/29/2022	06/06/2023	12/05/2023	06/26/2024	12/05/2024
		Sample	AMW-15-112817	AMW-15-082318	AMW-15-123020	AMW-15-061621	AMW-15-20220608	AMW-15-20221229	AMW-15-20230606	AMW-15-20231205	AMW-15-20240626	AMW-15-20241205
Analyte	Unit	Site Cleanup Level										
Chlorinated Volatile Organic Compounds (cVOCs)												
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1 U	**1**	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Trichloroethene (TCE)	ug/L	5	< 1 U	**4.6**	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**1.4**	**6.1**	**1.63**	**1.74**	**0.893**	**1.01**	**0.694**	**1.24**	**0.648**	**0.738**
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	**4.1**	**2.8**	**6.06**	**6.01**	**4.04**	**5.02**	**3.27**	**4.53**	**2.21**	**3.01**
Monitored Natural Attenuation Parameters												
Chloride	mg/L		--	--	--	--	--	--	--	--	**58.1**	**48.2**
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	< 1.50 U
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	< 2.50 U
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	< 4.00 U	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	**14.5**	**24.1**
Ethane	mg/L		--	--	--	--	--	--	--	--	**0.0160**	< 0.0100 U
Ethylene	mg/L		--	--	--	--	--	--	--	--	< 0.0100 U	< 0.0100 U
Methane	mg/L		--	--	--	--	--	--	--	--	**1.48**	**1.63**
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	**21,400**	**26,600**
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	**493**	**546**
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	**2.61**	**2.99**
Field Parameters												
Temperature	deg C		**16.7**	**19.6**	**14.8**	**16.7**	**14.8**	**15.66**	**17.12**	**15.1**	**17.43**	**16.57**
Specific Conductance	uS/cm		**567.3**	**484.1**	**711**	**471.8**	**341.9**	**562.55**	**734.32**	**0.5**	**976.17**	**1234**
Dissolved Oxygen	mg/L		**0.32**	**0.11**	**0.44**	**0.23**	**0.44**	**0.32**	**0.08**	**8.01**	**0.14**	**0.17**
pH	pH units		**6.97**	**6.65**	**7.69**	**7**	**6.96**	**7.13**	**6.96**	**4.68**	**6.96**	**6.9**
Oxidation Reduction Potential	mV		**-128**	**-115.6**	**-131.6**	**-82.3**	**-125.9**	**-101.3**	**-106.9**	**206**	**-112.8**	**-124.1**
Turbidity	NTU		**11.6**	--	**8.24**	**2.85**	**3.74**	**2.87**	**3.93**	**3.1**	**3.19**	**4.49**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

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"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

		Location	AMW-16								
		Date	08/23/2018	12/29/2020	06/16/2021	06/08/2022	12/28/2022	06/05/2023	12/05/2023	06/26/2024	12/05/2024
		Sample	AMW-16-082318	AMW-16-122920	AMW-16-061621	AMW-16-20220608	AMW-16-20221228	AMW-16-20230605	AMW-16-20231205	AMW-16-20240626	AMW-16-20241205
Analyte	Unit	Site Cleanup Level									
Chlorinated Volatile Organic Compounds (cVOCs)											
1,1-Dichloroethene	ug/L		< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**2.8**	< 1.00 U	**0.558**	**0.515**	**0.522**	< 0.500 U	**0.513**	< 0.500 U	< 0.500 U
Methylene Chloride	ug/L		< 5 U	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	**1.9**	**1.40**	**0.833**	< 0.2 U	**1.19**	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U
Monitored Natural Attenuation Parameters											
Chloride	mg/L		--	--	--	--	--	--	--	**16.5**	**15.9**
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	**0.860**
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	< 2.50 U
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	< 4.00 U	--
Sulfate	mg/L		--	--	--	--	--	--	--	< 10.0 U	< 10.0 U
Ethane	mg/L		--	--	--	--	--	--	--	< 0.0100 U	< 0.0100 U
Ethylene	mg/L		--	--	--	--	--	--	--	< 0.0100 U	< 0.0100 U
Methane	mg/L		--	--	--	--	--	--	--	**3.44**	**4.84**
Iron, dissolved	ug/L		--	--	--	--	--	--	--	**9,860**	**27,700**
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	**989**	**1,100**
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	**24.6**	**30.7**
Field Parameters											
Temperature	deg C		**18.5**	**14.8**	**16.4**	**14.4**	**15.94**	**16.48**	**16.38**	**15.99**	**17.38**
Specific Conductance	uS/cm		**1613**	**1929**	**1146**	**996**	**1382.7**	**1046.9**	**0.46**	**1459.7**	**1819.5**
Dissolved Oxygen	mg/L		**0.19**	**0.28**	**0.16**	**0.41**	**0.14**	**0.08**	**7.4**	**0.09**	**0.13**
pH	pH units		**6.4**	**6.74**	**6.6**	**6.42**	**6.64**	**6.75**	**4.61**	**6.67**	**6.63**
Oxidation Reduction Potential	mV		**8.1**	**-74.3**	**-75.6**	**-94.8**	**-90.6**	**-67.2**	**198.7**	**-44.9**	**-89.4**
Turbidity	NTU		**4.91**	**8.9**	**2.35**	**2.78**	**7.46**	**1.88**	**3.4**	**7.47**	**2.45**

Notes:

Bold - detected

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Purple Highlight - Concentration exceeds Site Cleanup Level

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"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

	Location		AMW-17								
	Date		08/23/2018	12/30/2020	06/17/2021	06/08/2022	12/29/2022	06/05/2023	12/05/2023	06/26/2024	12/06/2024
	Sample		AMW-17-082318	AMW-17-123020	AMW-17-061721	AMW-17-20220608	AMW-17-20221229	AMW-17-20230605	AMW-17-20231205	AMW-17-20240626	AMW-17-20241206
Analyte	Unit	Site Cleanup Level									
Chlorinated Volatile Organic Compounds (cVOCs)											
1,1-Dichloroethene	ug/L		< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1.00 U	< 0.400 U	**1.60**	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	**0.848**	**0.521**	< 0.500 U
Methylene Chloride	ug/L		< 5 U	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	**0.307**	< 0.200 U
Monitored Natural Attenuation Parameters											
Chloride	mg/L		--	--	--	--	--	--	--	**52.2**	**47.2**
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	< 1.50 U
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	< 2.50 U
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	< 4.00 U	--
Sulfate	mg/L		--	--	--	--	--	--	--	< 10.0 U	< 10.0 U
Ethane	mg/L		--	--	--	--	--	--	--	< 0.0100 U	< 0.0100 U
Ethylene	mg/L		--	--	--	--	--	--	--	< 0.0100 U	< 0.0100 U
Methane	mg/L		--	--	--	--	--	--	--	**3.94**	**5.00**
Iron, dissolved	ug/L		--	--	--	--	--	--	--	**7,820**	**6,630**
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	**227**	**217**
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	**7.83**	**7.62**
Field Parameters											
Temperature	deg C		**19.5**	**16.1**	**17**	**15.7**	**16.24**	**16.96**	**16.34**	**18.56**	**17.58**
Specific Conductance	uS/cm		**614**	**495.8**	**647**	**272.9**	**493.96**	**701.95**	**0.26**	**481.6**	**435.1**
Dissolved Oxygen	mg/L		**0.15**	**0.82**	**0.07**	**0.42**	**0.13**	**0.06**	**7.42**	**0.12**	**0.09**
pH	pH units		**6.31**	**7.1**	**6.39**	**6.53**	**6.73**	**6.69**	**4.58**	**6.45**	**6.42**
Oxidation Reduction Potential	mV		**-48.1**	**-42.1**	**-55.3**	**-82.4**	**-58**	**-34.2**	**210.6**	**-17.7**	**-51.5**
Turbidity	NTU		--	**3.5**	**12.3**	**1.87**	**2.14**	**0.48**	**2.15**	**3.16**	**2.55**

Notes:

Bold - detected

Gray label - Well has been decommissioned

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mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

			Location	AMW-18								
			Date	08/23/2018	12/29/2020	06/16/2021	06/08/2022	12/28/2022	06/06/2023	12/05/2023	06/26/2024	12/04/2024
			Sample	AMW-18-082318	AMW-18-122920	AMW-18-061621	AMW-18-20220608	AMW-18-20221228	AMW-18-20230606	AMW-18-20231205	AMW-18-20240626	AMW-18-20241204
Analyte	Unit	Site Cleanup Level										
Chlorinated Volatile Organic Compounds (cVOCs)												
1,1-Dichloroethene	ug/L		< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	
1,2-Dichloroethane (EDC)	ug/L		< 1 U	--	--	--	--	--	--	--	--	
Chloroethane	ug/L		< 1 U	--	--	--	--	--	--	--	--	
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	
Trichloroethene (TCE)	ug/L	5	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U	
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	
Methylene Chloride	ug/L		< 5 U	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	
Monitored Natural Attenuation Parameters												
Chloride	mg/L		--	--	--	--	--	--	--	--	--	
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	
Ethane	mg/L		--	--	--	--	--	--	--	--	--	
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	
Methane	mg/L		--	--	--	--	--	--	--	--	--	
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	
Field Parameters												
Temperature	deg C		**18.4**	**14.8**	**16.3**	**14.8**	**15.76**	**17.54**	**15.52**	**17.58**	**15.46**	
Specific Conductance	uS/cm		**1098**	**1197**	**735**	**2122**	**706.78**	**1099.3**	**0.41**	**844.44**	**901.9**	
Dissolved Oxygen	mg/L		**0.14**	**0.35**	**0.31**	**1.66**	**0.18**	**0.05**	**8.01**	**0.1**	**0.1**	
pH	pH units		**6.59**	**6.98**	**6.68**	**6.53**	**6.87**	**6.78**	**4.73**	**7.53**	**6.72**	
Oxidation Reduction Potential	mV		**-114.9**	**-101.3**	**-17.3**	**-114.5**	**-104.7**	**-81**	**207.4**	**-147.5**	**-93.4**	
Turbidity	NTU		--	**3.53**	**2.29**	**1.95**	**3.76**	**2.55**	**3.82**	**2.06**	**1.89**	

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

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J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			AMW-19										
Date			08/24/2018	12/31/2020	03/26/2021	06/18/2021	01/25/2022	06/07/2022	12/28/2022	06/05/2023	12/05/2023	06/27/2024	12/05/2024
Sample			AMW-19-082418	AMW-19-123120	AMW-19-20210326	AMW-19-061821	AMW-19-012522	AMW-19-20220607	AMW-19-20221228	AMW-19-20230605	AMW-19-20231205	AMW-19-20240627	AMW-19-20241205
Analyte	Unit	Site Cleanup Level											
Chlorinated Volatile Organic Compounds (cVOCs)													
1,1-Dichloroethene	ug/L		< 1 U	< 1.00 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 5.00 U	**0.803**	**0.505**
1,2-Dichloroethane (EDC)	ug/L		< 1 U	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	**12**	**2.39**	**1.03**	**2.06**	**29.2**	**13.9**	**43.2**	**28.1**	**53.0**	**70.7**	**0.562**
Trichloroethene (TCE)	ug/L	5	**3.6**	**3.91**	**0.609**	**1.22**	**34.2**	**12.1**	**23.6**	**27.8**	**47.6**	**42.3**	**2.65**
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**14**	**28.2**	**10.1**	**17.0**	**119**	**49.1**	**13.1**	**62.9**	**141**	**112**	**111**
Methylene Chloride	ug/L		< 5 U	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	**3**	**3.91**	**2.84**	--	--	**6.23**	**14.1**	**11.2**	**11.4**	**11.8**	**8.71**
Vinyl Chloride	ug/L	0.2	**1.1**	**4.18**	**1.90**	**3.43**	**11.4**	**6.74**	**14.3**	**5.66**	**8.09**	**10.1**	**11.1**
Monitored Natural Attenuation Parameters													
Chloride	mg/L		--	--	--	--	--	**207**	**106**	--	--	**63.1**	**61.9**
Nitrate as Nitrogen	mg/L		--	--	--	--	--	**15.2**	< 2.00 U	--	--	--	< 1.50 U
Nitrite as Nitrogen	mg/L		--	--	--	--	--	< 1 U	< 2.40 U	--	--	--	< 2.50 U
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	< 4.00 U	--
Sulfate	mg/L		--	--	--	--	--	**21.9**	**34.3**	--	--	**16.1**	**10.2**
Ethane	mg/L		--	--	--	--	--	**0.0175**	< 0.0151 U	< 0.0151 U	**0.0211**	**0.0386**	**0.0451**
Ethylene	mg/L		--	--	--	--	--	< 0.0146 U	< 0.0146 U	< 0.0146 U	< 0.0146 U	< 0.0100 U	< 0.0100 U
Methane	mg/L		--	--	--	--	--	**2.16**	**0.247**	**0.765**	**1.32**	**1.87**	**4.86**
Iron, dissolved	ug/L		--	--	--	--	--	**8,340**	**882**	**17,300**	**18,900**	**15,000**	**15,000**
Alkalinity, Total	mg/L		--	--	--	--	--	**219**	**285**	--	--	**381**	**313**
Total Organic Carbon	mg/L		--	--	--	--	--	**5.00**	**4.80**	**6.60**	**6.22**	**8.03**	**8.10**
Field Parameters													
Temperature	deg C		**19.6**	**14**	**13.1**	**16.1**	**12.5**	**14.4**	**12.68**	**14.11**	**15.51**	**14.97**	**15.38**
Specific Conductance	uS/cm		**1087**	**1101**	**1298**	**1129**	**859**	**2360**	**703.15**	**811.18**	**821.42**	**714.06**	**791.23**
Dissolved Oxygen	mg/L		**0.25**	**0.34**	**0.18**	**0.14**	**0.24**	**1.7**	**0.1**	**0.17**	**0.09**	**0.16**	**0.11**
pH	pH units		**6.61**	**7.25**	**6.69**	**6.57**	**6.37**	**6.42**	**6.57**	**6.48**	**6.59**	**7.29**	**6.59**
Oxidation Reduction Potential	mV		**36.3**	**-87.5**	**-28.2**	**-75.7**	**-341.9**	**-71.5**	**37.1**	**-3.8**	**-50.4**	**-106.5**	**-118.6**
Turbidity	NTU		**2.85**	**0.57**	**21**	**28.3**	**17**	**3.71**	**28.81**	**16.4**	**2.62**	**5.29**	**5.44**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

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mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

			Location	AMW-20									AMW-21
			Date	08/22/2018	12/29/2020	06/17/2021	06/09/2022	12/27/2022	06/06/2023	12/04/2023	06/26/2024	12/05/2024	07/31/2019
			Sample	AMW-20-082218	AMW-20-122920	AMW-20-061721	AMW-20-20220609	AMW-20-20221227	AMW-20-20230606	AMW-20-20231204	AMW-20-20240626	AMW-20-20241205	AMW-21-073119
Analyte	Unit	Site Cleanup Level											
Chlorinated Volatile Organic Compounds (cVOCs)													
1,1-Dichloroethene	ug/L		< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	**1.3**
1,2-Dichloroethane (EDC)	ug/L		< 1 U	--	--	--	--	--	--	--	--	< 1 U
Chloroethane	ug/L		< 1 U	--	--	--	--	--	--	--	--	< 1 U
Tetrachloroethene (PCE)	ug/L	5	< 1 U	**4.10**	**4.52**	**7.87**	**7.84**	**13.6**	**12.9**	**2.06**	**0.650**	**97000**
Trichloroethene (TCE)	ug/L	5	< 1 U	< 0.500 U	**0.637**	**2.39 J**	**3.52**	**3.05**	**4.84**	**0.637**	**1.03**	**100**
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1.00 U	**1.05**	**4.00**	**4.92**	**3.48**	**6.20**	**35.3**	**2.40**	**3.3**
Methylene Chloride	ug/L		< 5 U	--	--	--	--	--	--	--	--	< 5 U
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1.00 U	--	--	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	**0.552**	< 1 U
Vinyl Chloride	ug/L	0.2	**0.32**	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	**1.84**	< 0.200 U	< 0.2 U
Monitored Natural Attenuation Parameters													
Chloride	mg/L		--	--	--	--	--	--	--	**23.1**	**65.6**	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	**1.73**	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	< 2.50 U	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	< 4.00 U	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	< 10.0 U	**15.2**	--
Ethane	mg/L		--	--	--	--	--	< 0.0151 U	< 0.0151 U	**0.0246**	**0.0380**	--
Ethylene	mg/L		--	--	--	--	--	< 0.0146 U	< 0.0146 U	**0.0159**	< 0.0100 U	--
Methane	mg/L		--	--	--	--	--	**0.00681**	**0.0122**	**0.881**	**8.59**	--
Iron, dissolved	ug/L		--	--	--	--	--	< 60.0 U	< 60.0 U	**8,020**	**3,160**	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	**402**	**434**	--
Total Organic Carbon	mg/L		--	--	--	--	--	**9.65**	**5.72**	**67.8**	**10.8**	--
Field Parameters													
Temperature	deg C		**17.3**	**12.3**	**15.7**	**14.1**	**13.34**	**17.04**	**15.77**	**16.6**	**17.23**	**18.5**
Specific Conductance	uS/cm		**501.8**	**814**	**801**	**669**	**885.06**	**601.84**	**668.22**	**589.45**	**1042.7**	**521**
Dissolved Oxygen	mg/L		**0.12**	**2.47**	**0.86**	**1.01**	**1.26**	**0.34**	**1.21**	**0.21**	**0.08**	**1.09**
pH	pH units		**6.64**	**7.84**	**7.48**	**7.41**	**7.56**	**7.62**	**7.9**	**8.29**	**7.48**	**7.39**
Oxidation Reduction Potential	mV		**-39.4**	**-4.3**	**48.3**	**60.4**	**107.6**	**3.7**	**14.2**	**-206.3**	**-155.1**	**54.5**
Turbidity	NTU		**3.09**	**7.73**	**1.96**	**1.42**	**0.86**	**4.85**	**0.53**	**4.44**	**9.97**	**0.02**

Notes:

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mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			AMW-22								
Date			04/01/2019	12/29/2020	06/16/2021	06/07/2022	12/28/2022	06/06/2023	12/06/2023	06/25/2024	12/04/2024
Sample			AMW-22-040119	AMW-22-122920	AMW-22-061621	AMW-22-20220607	AMW-22-20221228	AMW-22-20230606	AMW-22-20231206	AMW-22-20240625	AMW-22-20241204
Analyte	Unit	Site Cleanup Level									
Chlorinated Volatile Organic Compounds (cVOCs)											
1,1-Dichloroethene	ug/L		< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 2.50 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 1.75 U	< 0.350 U	< 0.500 U	< 0.500 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 2.00 U	< 0.400 U	< 0.500 U	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**2.7**	< 1.00 U	**0.762**	< 0.5 U	< 0.500 U	< 2.50 U	< 0.500 U	**0.514**	< 0.500 U
Methylene Chloride	ug/L		< 5 U	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 1.75 U	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	**5.3**	**1.19**	**1.36**	**0.985**	**0.974**	**0.784 J**	**0.262**	**0.758**	< 0.200 U
Monitored Natural Attenuation Parameters											
Chloride	mg/L		--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--
Field Parameters											
Temperature	deg C		**11**	**11.2**	**15.5**	**14.3**	**11.28**	**14.97**	**13.38**	**15.73**	**12.73**
Specific Conductance	uS/cm		**612.5**	**421.3**	**554.7**	**978**	**360.86**	**559.17**	**0.07**	**627.05**	**517.43**
Dissolved Oxygen	mg/L		**0.97**	**0.63**	**0.18**	**1.73**	**1.27**	**2.19**	**10.24**	**1.25**	**1.18**
pH	pH units		**6.59**	**6.18**	**6.38**	**6.24**	**6.47**	**6.7**	**7.02**	**7.37**	**6.4**
Oxidation Reduction Potential	mV		**-33.1**	**63.3**	**10.9**	**-71.7**	**26**	**-46.9**	**161.3**	**-122.6**	**-9.8**
Turbidity	NTU		**135**	**11.7**	**4.45**	**12.5**	**14.3**	**5.81**	**22.5**	**7.16**	**1.3**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

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UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

		Location	AMW-23								
		Date	07/31/2019	12/30/2020	06/17/2021	06/08/2022	12/28/2022	06/06/2023	12/06/2023	06/26/2024	12/04/2024
		Sample	AMW-23-073119	AMW-23-123020	AMW-23-061721	AMW-23-20220608	AMW-23-20221228	AMW-23-20230606	MW-23-20231206	AMW-23-20240626	AMW-23-20241204
Analyte	Unit	Site Cleanup Level									
Chlorinated Volatile Organic Compounds (cVOCs)											
1,1-Dichloroethene	ug/L		< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	**1.2**	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
Methylene Chloride	ug/L		< 5 U	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U
Monitored Natural Attenuation Parameters											
Chloride	mg/L		--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--
Field Parameters											
Temperature	deg C		**18.4**	**13.7**	**17.1**	**15.8**	**14.77**	**18.08**	**16.56**	**17.78**	**15.93**
Specific Conductance	uS/cm		**1127**	**1229**	**1363**	**570**	**849.69**	**1036.8**	**0.19**	**894.78**	**788.1**
Dissolved Oxygen	mg/L		**0.12**	**0.23**	**0.09**	**0.42**	**0.22**	**0.14**	**9.55**	**0.23**	**0.12**
pH	pH units		**6.82**	**7.42**	**6.74**	**6.64**	**6.93**	**6.82**	**5.94**	**7.57**	**6.75**
Oxidation Reduction Potential	mV		**-74.7**	**-60.9**	**-80**	**-56.5**	**-93.4**	**-97.9**	**207.6**	**-152.6**	**-90.5**
Turbidity	NTU		**5.11**	**16.4**	**117**	**44.3**	**5.05**	**150**	**69.6**	**5.1**	**84.4**

Notes:

Bold - detected

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µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			AMW-24									
Date			04/01/2019	12/30/2020	06/16/2021	01/25/2022	06/08/2022	12/29/2022	06/05/2023	12/04/2023	06/27/2024	12/05/2024
Sample			AMW-24-040119	AMW-24-123020	AMW-24-061621	AMW-24-012522	AMW-24-20220608	AMW-24-20221229	AMW-24-20230605	AMW-24-20231204	AMW-24-20240627	AMW-24-20241205
Analyte	Unit	Site Cleanup Level										
Chlorinated Volatile Organic Compounds (cVOCs)												
1,1-Dichloroethene	ug/L		< 1 U	< 1.00 U	< 0.500 U	< 5.00 U	< 0.5 U	**0.652**	**0.606**	< 10.0 U	**0.574**	**2.10**
1,2-Dichloroethane (EDC)	ug/L		< 1 U	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	**510**	**461**	**366**	**308**	**355 J**	**238 E**	**384 E**	**417**	**368**	**279**
Trichloroethene (TCE)	ug/L	5	**24**	**17.0**	**12.8**	**6.20**	**12.6**	**25.5**	**21.6**	**14.8**	**32.4**	**72.0**
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**9.4**	**6.15**	**4.06**	**2.01**	**3.60**	**6.94**	**5.22**	< 10.0 U	< 5.00 U	**268**
Methylene Chloride	ug/L		< 5 U	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1.00 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 7.00 U	< 0.500 U	**0.619**
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.200 U	< 0.200 U	< 2.00 U	< 0.2 U	< 0.200 U	< 0.200 U	< 4.00 U	< 0.200 U	**1.53**
Monitored Natural Attenuation Parameters												
Chloride	mg/L		--	--	--	--	**76.1**	**86.2**	--	--	**148**	**158**
Nitrate as Nitrogen	mg/L		--	--	--	--	**4.19**	**3.89**	--	--	--	< 1.50 U
Nitrite as Nitrogen	mg/L		--	--	--	--	< 1 U	< 0.240 U	--	--	--	< 2.50 U
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	< 4.00 U	--
Sulfate	mg/L		--	--	--	--	**22.0**	**23.8**	--	--	< 10.0 U	**13.6**
Ethane	mg/L		--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	**0.0106**	**0.103**
Ethylene	mg/L		--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	< 0.0100 U	**0.0207**
Methane	mg/L		--	--	--	--	< 0.00675 U	< 0.00675 U	--	--	**0.0143**	**0.673**
Iron, dissolved	ug/L		--	--	--	--	< 100 U	< 250 U	--	--	**3,520**	**5,180**
Alkalinity, Total	mg/L		--	--	--	--	**134**	**138**	--	--	**370**	**382**
Total Organic Carbon	mg/L		--	--	--	--	**1.39**	**1.33**	--	--	**64.8**	**3.52**
Field Parameters												
Temperature	deg C		**15.4**	**14.1**	**15.6**	**13.6**	**14.8**	**13.87**	**14.55**	**15.4**	**14.89**	**13.8**
Specific Conductance	uS/cm		**2098**	**768**	**665**	**661**	**448.2**	**389.14**	**630.89**	**472.42**	**800.41**	**1007.4**
Dissolved Oxygen	mg/L		**6.62**	**0.57**	**3.06**	**2.48**	**3.41**	**2.94**	**3.87**	**3.98**	**0.33**	**0.18**
pH	pH units		**7.25**	**6.26**	**6.58**	**6.37**	**6.15**	**6.42**	**6.38**	**6.39**	**7.31**	**6.5**
Oxidation Reduction Potential	mV		**49.4**	**51.8**	**66.7**	**-215.6**	**52.2**	**194.1**	**101.7**	**146.7**	**-80.9**	**111.7**
Turbidity	NTU		**5.05**	**20.3**	**8.54**	**8.86**	**5.17**	**2.26**	**0.27**	**1.54**	**3.85**	**4.4**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

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J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			AMW-25										AMW-26			
Date			01/25/2021	03/26/2021	06/16/2021	01/25/2022	06/08/2022	12/27/2022	06/07/2023	12/06/2023	06/25/2024	12/04/2024	06/07/2023	12/05/2023	06/27/2024	12/05/2024
Sample			AMW-25-012521	AMW-25-20210326	AMW-25-061621	AMW-25-012522	AMW-25-20220608	AMW-25-20221227	AMW-25-20230607	AMW-25-20231206	AMW-25-20240625	AMW-25-20241204	AMW-26-20230607	AMW-26-20231205	AMW-26-20240627	AMW-26-20241205
Analyte	Unit	Site Cleanup Level														
Chlorinated Volatile Organic Compounds (cVOCs)																
1,1-Dichloroethene	ug/L		< 1.00 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1.00 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	**0.454**	**0.950**	< 0.500 U	< 0.350 U	< 0.350 U	**1.60**	**1.65**
Trichloroethene (TCE)	ug/L	5	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U	**1.12**	**1.54**	**1.68**	**1.65**
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1.00 U	< 0.500 U	< 0.500 U	**12.9**	**58.4**	**65.6**	**27.5**	**14.6**	**17.2**	**5.04**	**4.81**	**1.23**	**4.67**	**12.2**
Methylene Chloride	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1.00 U	< 0.500 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	**0.607**	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	< 0.200 U	< 0.350 U	< 0.200 U	**3.46**	**3.65**	**1.97**	**0.509**	< 0.200 U	**0.332**	< 0.200 U	**2.00**	**0.352**	**0.572**	**1.39**
Monitored Natural Attenuation Parameters																
Chloride	mg/L		--	--	--	--	**27.7**	**31.1**	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	< 1 U	< 2.00 U	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	< 1 U	< 2.40 U	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	**131**	**281**	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	**0.00963**	**0.0484**	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	**102**	< 250 U	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	**347**	**334**	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	**1.53**	**1.63**	--	--	--	--	--	--	--	--
Field Parameters																
Temperature	deg C		**8.4**	**11.6**	**15.9**	**11.9**	**12.6**	**14.81**	**16.5**	**16.55**	**18.16**	**17.52**	**16.67**	**13.99**	**16.41**	**14.73**
Specific Conductance	uS/cm		**503.7**	**555**	**483.6**	**1099**	**506.7**	**1051.4**	**488.12**	**0.07**	**695.38**	**407.02**	**739.93**	**231.02**	**381.53**	**530.58**
Dissolved Oxygen	mg/L		**4.95**	**8.55**	**0.6**	**0.43**	**3.83**	**0.57**	**0.59**	**9.48**	**3.64**	**0.92**	**0.11**	**4.27**	**0.14**	**0.22**
pH	pH units		**7.84**	**7.68**	**7.72**	**7.38**	**7.46**	**7.86**	**7.62**	**7.06**	**8.14**	**7.42**	**7**	**7.76**	**7.42**	**7.41**
Oxidation Reduction Potential	mV		**98.8**	**-6.2**	**43.5**	**29.9**	**78.3**	**124.6**	**53.8**	**168.6**	**162**	**-8.5**	**-28.5**	**-20.4**	**18.5**	**83.7**
Turbidity	NTU		**4.86**	**21.1**	**35.2**	**4.96**	**109**	**7.91**	**6.84**	**3.64**	**4.56**	**1.09**	**2.27**	**5.47**	**6.06**	**5.93**

Notes:

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"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

	Location		AMW-27				AMW-28				AMW-29			
	Date		06/06/2023	12/04/2023	06/27/2024	12/06/2024	06/06/2023	12/05/2023	06/27/2024	12/05/2024	06/06/2023	12/05/2023	06/27/2024	12/05/2024
	Sample		AMW-27-20230606	AMW-27-20231204	AMW-27-20240627	AMW-27-20241206	AMW-28-20230606	AMW-28-20231205	AMW-28-20240627	AMW-28-20241205	AMW-29-20230606	AMW-29-20231205	AMW-29-20240627	AMW-29-20241205
Analyte	Unit	Site Cleanup Level												
Chlorinated Volatile Organic Compounds (cVOCs)														
1,1-Dichloroethene	ug/L		< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L		--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	**34.3**	**31.9**	**14.7**	**2.33**	**15.3**	**6.45**	**0.868**	< 0.500 U	**1.59**	**0.641**	**1.05**	**1.28**
Trichloroethene (TCE)	ug/L	5	**5.16**	**11.8**	**3.20**	**2.92**	**3.77**	**4.54**	< 0.500 U	< 0.500 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**6.57**	**14.9**	**10.5**	**9.00**	**6.40**	**6.55**	**2.73**	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
Methylene Chloride	ug/L		--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.200 U
Monitored Natural Attenuation Parameters														
Chloride	mg/L		--	--	**22.6**	**79.2**	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	< 1.50 U	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	< 2.50 U	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	< 4.00 U	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	**14.8**	**49.3**	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	**0.0204**	< 0.0100 U	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	< 0.0100 U	< 0.0100 U	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	**0.216**	**4.55**	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	**7,210**	**1,450**	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	**173**	**352**	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	**26.7**	**5.40**	--	--	--	--	--	--	--	--
Field Parameters														
Temperature	deg C		**16.76**	**16.14**	**16.68**	**17.53**	**16.18**	**15.83**	**16.11**	**17.16**	**16.34**	**12.35**	**16.41**	**13.55**
Specific Conductance	uS/cm		**442.13**	**748.99**	**374.01**	**718.1**	**492.17**	**0.44**	**1051**	**1054.8**	**797.9**	**623.37**	**425.39**	**418.24**
Dissolved Oxygen	mg/L		**1.3**	**0.21**	**0.18**	**0.09**	**0.26**	**8.53**	**0.05**	**0.08**	**0.55**	**8.4**	**6.05**	**6.71**
pH	pH units		**7.6**	**7.72**	**7.99**	**7.16**	**7.65**	**4.41**	**7.19**	**7.12**	**11.7**	**7.62**	**7.61**	**8.71**
Oxidation Reduction Potential	mV		**46.1**	**4.5**	**-185.9**	**-130.4**	**29.8**	**208.6**	**-168.7**	**-164.7**	**-152.8**	**157.9**	**22.6**	**101.8**
Turbidity	NTU		**2.19**	**0.44**	**4.27**	**3.63**	**13.7**	**6.84**	**15.6**	**49.9**	**5.32**	**13.4**	**6.52**	**3.2**

Notes:

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mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			HC-MW-01								
Date			11/27/2017	08/27/2018	12/31/2020	03/26/2021	06/17/2021	01/25/2022	06/07/2023	12/05/2023	06/26/2024
Sample			HC-MW-1-112717	HC-MW-01-082718	HC-MW-1-123120	HC-MW-1-20210326	HC-MW-1-061721	HC-MW-01-012522	HC-MW-01-20230607	HC-MW-01-20231205	HC-MW-01-20240626
Analyte	Unit	Site Cleanup Level									
Chlorinated Volatile Organic Compounds (cVOCs)											
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	**240**	**210**	**104**	**20.1**	**29.4**	**9.47**	< 0.350 U	< 0.350 U	< 0.500 U
Trichloroethene (TCE)	ug/L	5	**37**	**28**	**24.4**	**13.7**	**14.2**	**9.86**	< 0.400 U	< 0.400 U	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**47**	**55**	**114**	**53.4**	**79.5**	**28.1**	< 0.500 U	< 0.500 U	< 0.500 U
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	< 0.500 U	--	--	< 0.350 U	< 0.350 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	**7.7**	**12**	**42.3**	**17.0**	**35.7**	**13.7**	< 0.200 U	< 0.200 U	**0.440**
Monitored Natural Attenuation Parameters											
Chloride	mg/L		--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--
Field Parameters											
Temperature	deg C		**16.7**	**18.9**	**15.3**	**13.3**	**16.2**	**13.2**	**15.41**	**15.91**	**15.51**
Specific Conductance	uS/cm		**626**	**732**	**1047**	**1292**	**1145**	**1347**	**1512.8**	**1824.3**	**1014.6**
Dissolved Oxygen	mg/L		**0.12**	**0.23**	**0.33**	**0.18**	**0.15**	**0.2**	**0.1**	**0.04**	**0.05**
pH	pH units		**6.64**	**6.34**	**7.29**	**6.74**	**6.43**	**6.61**	**6.7**	**6.76**	**6.84**
Oxidation Reduction Potential	mV		**-12**	**54.2**	**-51.1**	**52.6**	**23.1**	**-26.1**	**-90.7**	**-106.3**	**-70.2**
Turbidity	NTU		**5.6**	**2.32**	**9.73**	**4.97**	**0**	**2.73**	**19.4**	**3.61**	**2.55**

Notes:

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Purple Highlight - Concentration exceeds Site Cleanup Level

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µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

			Location	HC-MW-02									
			Date	11/27/2017	08/27/2018	12/31/2020	03/26/2021	06/17/2021	01/25/2022	06/07/2022	12/29/2022	06/05/2023	12/05/2023	06/26/2024
			Sample	HC-MW-2-112717	HC-MW-02-082718	HC-MW-2-123120	HC-MW-2-20210326	HC-MW-2-061721	HC-MW-02-012522	HCMW-2-20220607	HC-MW-2-20221229	HC-MW-02-20230605	HC-MW-02-20231205	HC-MW-02-20240626
Analyte	Unit	Site Cleanup Level												
Chlorinated Volatile Organic Compounds (cVOCs)														
1,1-Dichloroethene	ug/L		**3.7**	**3.5**	< 1.00 U	**0.881**	**0.945**	**1.02**	**0.693**	< 0.500 U	< 0.500 U	< 5.00 U	**0.697**
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	**1100**	**990**	**377**	**230**	**139**	**169**	**102**	< 0.350 U	**73.6**	**87.7**	**39.5**
Trichloroethene (TCE)	ug/L	5	**69**	**66**	**38.5**	**22.7**	**24.2**	**13.5**	**12.8**	< 0.400 U	**7.96**	**10.4**	**16.6**
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**28**	**28**	**15.1**	**8.14**	**9.20**	**7.13**	**7.41**	**1.06**	**4.86**	< 5.00 U	**18.3**
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	< 0.500 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 3.50 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	**0.75**	**0.82**	**1.25**	**0.460**	**0.867**	**0.865**	**0.912**	**5.38**	< 0.200 U	< 2.00 U	**0.578**
Monitored Natural Attenuation Parameters														
Chloride	mg/L		--	--	--	--	--	--	**82.5**	**68.7**	--	--	**80.2**
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	< 1 U	< 0.200 U	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	< 1 U	< 0.240 U	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	< 4.00 U
Sulfate	mg/L		--	--	--	--	--	--	**29.4**	**31.9**	--	--	< 10.0 U
Ethane	mg/L		--	--	--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	< 0.0100 U
Ethylene	mg/L		--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	< 0.0100 U
Methane	mg/L		--	--	--	--	--	--	**0.0195**	< 0.00675 U	--	--	**0.0830**
Iron, dissolved	ug/L		--	--	--	--	--	--	**178**	< 250 U	--	--	**743**
Alkalinity, Total	mg/L		--	--	--	--	--	--	**204**	**193**	--	--	**240**
Total Organic Carbon	mg/L		--	--	--	--	--	--	**1.78**	**1.34**	--	--	**18.3**
Field Parameters														
Temperature	deg C		**16.8**	**18.8**	**15.1**	**13.3**	**16.8**	**13.2**	**15**	**15.39**	**16.12**	**16.63**	**16.54**
Specific Conductance	uS/cm		**407.9**	**497.2**	**454.1**	**508**	**506.2**	**654**	**1183**	**460.2**	**646.18**	**491.04**	**467.59**
Dissolved Oxygen	mg/L		**0.11**	**0.23**	**2.45**	**0.13**	**0.1**	**0.22**	**1.59**	**0.12**	**0.06**	**0.11**	**0.12**
pH	pH units		**7.34**	**6.97**	**7.02**	**7.42**	**7.3**	**7.32**	**7.26**	**7.51**	**7.41**	**7.42**	**7.92**
Oxidation Reduction Potential	mV		**19.1**	**67.4**	**68.9**	**16.1**	**34**	**-64.4**	**-84.9**	**-27.6**	**-2.1**	**-54.8**	**-114**
Turbidity	NTU		**2.06**	**0.47**	**30.5**	**19.8**	**19**	**12**	**18.9**	**80.8**	**11.6**	**4.29**	**3.04**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			HC-MW-03								HC-MW-04							
Date			11/27/2017	08/24/2018	12/30/2020	01/25/2021	03/26/2021	06/18/2021	01/25/2022	06/09/2022	12/28/2022	11/27/2017	08/24/2018	12/29/2020	06/16/2021	06/07/2022	12/28/2022	06/06/2023	12/05/2023
Sample			HC-MW-3-112717	HC-MW-3-082418	HC-MW-3-123020	HC-MW-3-012521	HC-MW-3-20210326	HC-MW-3-061821	HC-MW-03-012522	HCMW-3-20220609	HC-MW-3-20221228	HC-MW-4-112717	HC-MW-4-082418	HC-MW-4-122920	HC-MW-4-061621	HCMW-4-20220607	HC-MW-4-20221228	HC-MW-04-20230606	HC-MW-04-20231205
Analyte	Unit	Site Cleanup Level																	
Chlorinated Volatile Organic Compounds (cVOCs)																			
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 1.00 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.500 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	< 1 U	< 1 U	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	< 1 U	< 1 U	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	**18**	**16**	**38.1**	< 1.00 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.4 U	< 0.350 U	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U
Trichloroethene (TCE)	ug/L	5	**1.2**	**2.5**	**4.62**	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**1.1**	**1.2**	**3.74**	**1.21**	**3.08**	**10.0**	**1.04**	**1.89**	< 0.500 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	--	< 5 U	< 5 U	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	< 1.00 U	< 0.500 U	--	--	--	< 0.350 U	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.350 U	< 0.200 U	**4.31**	**4.33**	< 0.200 U	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U
Monitored Natural Attenuation Parameters																			
Chloride	mg/L		--	--	--	--	--	--	--	**36.9**	**250**	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	**1.00**	< 2.00 U	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	< 1 U	< 2.40 U	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	**46.0**	**49.5**	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	**1.41**	< 0.00675 U	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	**6,270**	**1,530**	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	**149**	**117**	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	**1.19**	**1.46**	--	--	--	--	--	--	--	--
Field Parameters																			
Temperature	deg C		**15.1**	**19**	**13.4**	**12.8**	**11.9**	**15.7**	**11.3**	**13.8**	**12.2**	**15.6**	**16**	**14.5**	**14.9**	**15.1**	**13.47**	**14.44**	**16**
Specific Conductance	uS/cm		**250.9**	**448.9**	**373.1**	**756**	**631**	**354.2**	**646.1**	**819**	**961.54**	**516.2**	**406.2**	**401.2**	**277.9**	**793**	**564.47**	**424.02**	**393.79**
Dissolved Oxygen	mg/L		**2.93**	**0.64**	**0.36**	**0.12**	**0.17**	**0.19**	**0.19**	**1.62**	**0.39**	**0.24**	**0.18**	**0.29**	**0.3**	**1.7**	**0.17**	**0.2**	**0.11**
pH	pH units		**7.16**	**6.8**	**6.89**	**7.1**	**6.8**	**7.11**	**6.92**	**6.72**	**7.17**	**7.23**	**7.71**	**7.52**	**6.76**	**7.1**	**6.88**	**7.16**	**7.12**
Oxidation Reduction Potential	mV		**90.5**	**62.9**	**59**	**-177.2**	**-82.9**	**-160.1**	**-91.4**	**-57.6**	**-32.2**	**106.1**	**57.3**	**63**	**64.7**	**-1.3**	**151.6**	**202.2**	**144.7**
Turbidity	NTU		**27.2**	**3**	**48.7**	**10**	**19.2**	**4.35**	**7.38**	**23.3**	**75.89**	**10.3**	**1.5**	**10.3**	**0.01**	**2.94**	**18.75**	**3.88**	**1.3**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

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J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			HC-MW-05											
Date			11/27/2017	08/24/2018	12/31/2020	01/25/2021	03/26/2021	06/18/2021	01/25/2022	06/08/2022	12/28/2022	06/06/2023	12/06/2023	07/02/2024	12/05/2024
Sample			HC-MW-5-112717	HC-MW-5-082418	HC-MW-5-123120	HC-MW-5-012521	HC-MW-5-20210326	HC-MW-5-061821	HC-MW-05-012522	HC-MW-5-20220608	HC-MW-5-20221228	HC-MW-05-20230606	HC-MW-05-20231206	HC-MW-5-20240702	HC-MW-05-20241205
Analyte	Unit	Site Cleanup Level													
Chlorinated Volatile Organic Compounds (cVOCs)															
1,1-Dichloroethene	ug/L		< 1 U	< 50 U	< 1.00 U	< 1.00 U	**0.812**	**1.08**	< 10.0 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 50 U	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	< 50 U	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	**3400**	**5600**	**1,270**	**1,360**	**1,210**	**1,140**	**461**	**420**	**3.37**	**0.631**	**0.486**	< 0.500 U	**0.529**
Trichloroethene (TCE)	ug/L	5	**16**	< 50 U	**14.5**	**17.0**	**19.1**	**31.0**	**6.93**	**9.35**	< 0.400 U	< 0.400 U	**0.748**	**0.648**	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**8**	< 50 U	**7.20**	**8.04**	**12.6**	**18.3**	**11.2**	**9.93**	**12.1**	< 0.500 U	**0.508**	< 0.500 U	**1.17**
Methylene Chloride	ug/L		< 5 U	< 250 U	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 50 U	< 1.00 U	< 1.00 U	< 0.500 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	**0.38**	< 10 U	< 0.200 U	< 0.200 U	< 0.350 U	< 0.200 U	< 4.00 U	< 0.2 U	**20.9**	**0.695**	< 0.200 U	**0.381**	< 0.200 U
Monitored Natural Attenuation Parameters															
Chloride	mg/L		--	--	--	--	--	--	--	**127**	**109 J**	--	--	**43.4**	**31.4**
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	**1.19**	< 20.0 U	--	--	--	< 1.50 U
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	< 1 U	< 24.0 U	--	--	--	< 2.50 U
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	< 0.800 U	--
Sulfate	mg/L		--	--	--	--	--	--	--	**40.5**	< 120 U	--	--	**3.87**	< 10.0 U
Ethane	mg/L		--	--	--	--	--	--	--	< 0.0151 U	**0.0166**	--	--	**0.156**	**0.138**
Ethylene	mg/L		--	--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	**0.0130**	**0.0183**
Methane	mg/L		--	--	--	--	--	--	--	< 0.00675 U	**0.979**	--	--	**5.40**	**8.89**
Iron, dissolved	ug/L		--	--	--	--	--	--	--	< 100 U	**266,000**	--	--	**29,800**	< 30.0 U
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	**124**	**624**	--	--	**370**	**195**
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	**1.07**	**610**	--	--	**13.7**	**16.5**
Field Parameters															
Temperature	deg C		**16.9**	**20**	**14.2**	**12.6**	**12.7**	**15.6**	**12.7**	**15**	**13.09**	**16.45**	**15.34**	**16.12**	**15.61**
Specific Conductance	uS/cm		**307.2**	**301.4**	**402.3**	**358.6**	**414**	**432**	**723**	**589.5**	**1797.2**	**1039.4**	**0.13**	**663.55**	**647.22**
Dissolved Oxygen	mg/L		**1.17**	**1.14**	**1.63**	**1.03**	**1.25**	**0.41**	**1.31**	**2.88**	**0.13**	**0.29**	**9.68**	**0.19**	**0.12**
pH	pH units		**6.47**	**6.4**	**6.61**	**6.81**	**6.97**	**6.52**	**6.4**	**6.22**	**6.93**	**7.74**	**7.44**	**7.29**	**7.79**
Oxidation Reduction Potential	mV		**101.4**	**49.8**	**64.9**	**57.5**	**-22.1**	**-2.2**	**-256.9**	**62.6**	**-132.4**	**-158.4**	**171.8**	**-140.7**	**-208.7**
Turbidity	NTU		**6.86**	**1.7**	**10.3**	**12.2**	**8.71**	**0**	**5.06**	**6.7**	**33.28**	**57.3**	**75.8**	**10.6**	**15.7**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			HC-MW-06									
Date			11/28/2017	08/22/2018	12/30/2020	06/17/2021	06/08/2022	12/28/2022	06/06/2023	12/06/2023	06/26/2024	12/04/2024
Sample			HC-MW-6-112817	HC-MW-06-082218	HC-MW-6-123020	HC-MW-6-061721	HC-MW-6-20220608	HC-MW-6-20221228	HC-MW-06-20230606	HC-MW-06-20231206	HC-MW-06-20240626	HC-MW-06-20241204
Analyte	Unit	Site Cleanup Level										
Chlorinated Volatile Organic Compounds (cVOCs)												
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	< 0.400 U	**19.0**	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 0.500 U	< 0.500 U	**3.56**	**1.24**	**0.455**	**0.411**	< 0.500 U	< 0.500 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**2.4**	**13**	< 1.00 U	< 0.500 U	**51.2**	**11.6**	**5.79**	**2.42**	**2.53**	**1.63**
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	**3.1**	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U
Vinyl Chloride	ug/L	0.2	**0.85**	**3.5**	< 0.200 U	< 0.200 U	< 0.2 U	**9.02**	**4.03**	**1.55**	**1.69**	**2.55**
Monitored Natural Attenuation Parameters												
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--
Field Parameters												
Temperature	deg C		**15**	**17.7**	**13.1**	**16.4**	**13.2**	**9.75**	**15.04**	**15.63**	**17.67**	**16.06**
Specific Conductance	uS/cm		**550.9**	**530.2**	**754**	**674**	**437.6**	**486.1**	**664.02**	**392.67**	**435.29**	**319.1**
Dissolved Oxygen	mg/L		**0.16**	**0.39**	**1.56**	**0.66**	**0.39**	**0.16**	**0.08**	**0.37**	**0.17**	**0.15**
pH	pH units		**6.71**	**6.44**	**6.31**	**6.46**	**6.66**	**7.1**	**7.23**	**7.32**	**6.97**	**6.97**
Oxidation Reduction Potential	mV		**37.3**	**56.6**	**71.4**	**79.6**	**25.4**	**-12.5**	**-35.4**	**28.8**	**-55.8**	**-52.9**
Turbidity	NTU		**10.9**	**5.8**	**147**	**28.2**	**24.1**	**2.93**	**0.44**	**21.6**	**4.84**	**0.71**

Notes:

Bold - detected

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µS/cm - microSiemens per centimeter

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NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			HC-MW-07								MW-01			MW-02		MW-03	
Date			11/27/2017	08/22/2018	12/29/2020	06/16/2021	06/08/2022	12/29/2022	06/06/2023	12/06/2023	11/29/2017	08/24/2018	12/05/2018	11/28/2017	08/21/2018	11/28/2017	08/22/2018
Sample			HC-MW-7-112717	HC-MW-07-082218	HC-MW-7-122920	HC-MW-7-061621	HC-MW-7-20220608	HC-MW-7-20221229	HC-MW-07-20230606	HC-MW-07-20231206	MW-1-20171129	MW-1-082418	GW-120518-NT-MW-1	MW-2-112817	MW-2-082118	MW-3-112817	MW-3-082218
Analyte	Unit	Site Cleanup Level															
Chlorinated Volatile Organic Compounds (cVOCs)																	
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	**1.20**	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	**3.2**	**1.1**	**3.4**	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	**4.1**	**1.6**	**4.2**	< 1 U	< 1 U	< 1 U	< 1 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	< 0.500 U	**1.04**	**0.573**	< 0.500 U	< 0.500 U	**16**	**19**	**25.9**	< 1 U	< 1 U	< 1 U	**2.3**
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	< 5 U	< 5 U	< 4 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	**2**	**5.3**	**8.26**	< 0.2 U	< 0.2 U	**0.26**	**0.84**
Monitored Natural Attenuation Parameters																	
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters																	
Temperature	deg C		**15.1**	**17.7**	**13.6**	**15.6**	**13.4**	**12.01**	**14.01**	**15.09**	**14.3**	**16.6**	--	**15.3**	**17.9**	**15.6**	**17.1**
Specific Conductance	uS/cm		**643**	**627**	**651**	**481.1**	**438**	**334.03**	**465.35**	**186.53**	**423.2**	**514.7**	--	**340.9**	**420.4**	**272.5**	**375.2**
Dissolved Oxygen	mg/L		**0.12**	**0.12**	**0.26**	**0.24**	**0.44**	**0.05**	**0.46**	**2.65**	**0.44**	**0.36**	--	**0.13**	**0.13**	**1.27**	**0.22**
pH	pH units		**6.45**	**6.3**	**6.38**	**6.76**	**6.32**	**6.6**	**6.66**	**6.76**	**6.38**	**6.55**	--	**6.68**	**6.55**	**6.65**	**6.24**
Oxidation Reduction Potential	mV		**-44.8**	**-65.4**	**44**	**-79.2**	**-16.3**	**-25**	**-35**	**82.3**	**46.3**	**24.5**	--	**-28.3**	**-15.7**	**13.7**	**39.5**
Turbidity	NTU		**21.2**	**7.34**	**47**	**2.35**	**17.8**	**41.66**	**18.9**	**46.7**	**45.7**	**7**	--	**13.5**	**12.7**	**5.26**	**2.26**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

			Location	MW-04		MW-05									
			Date	11/29/2017	08/22/2018	11/28/2017	08/22/2018	12/29/2020	06/17/2021	06/08/2022	12/27/2022	06/06/2023	12/04/2023	06/25/2024	12/05/2024
			Sample	MW-4-112917	MW-4-082218	MW-5-112917	MW-05-082218	MW-5-122920	MW-5-061721	MW-5-20220608	MW-5-20221227	MW-05-20230606	MW-05-20231204	MW-05-20240625	MW-05-20241205
Analyte	Unit	Site Cleanup Level													
Chlorinated Volatile Organic Compounds (cVOCs)															
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--	--	--	--	--	
Chloroethane	ug/L		< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--	--	--	--	--	
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	**0.909**	**0.409**	**0.411**	**0.630**	**1.20**	**0.704**	< 0.500 U	
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	**0.408**	**0.662**	**1.25**	< 0.500 U	
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	**0.581**	< 0.500 U	**2.98**	**2.27**	**2.58**	**3.77**	
Methylene Chloride	ug/L		< 5 U	< 5 U	< 5 U	< 5 U	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	
Vinyl Chloride	ug/L	0.2	< 0.2 U	**0.34**	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	**0.655**	**0.596**	**0.408**	< 0.200 U	
Monitored Natural Attenuation Parameters															
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	
Field Parameters															
Temperature	deg C		**15.8**	**17**	**15.8**	**19.5**	**11.7**	**15.7**	**14.1**	**13.77**	**17.07**	**16.04**	**20.09**	**16.89**	
Specific Conductance	uS/cm		**499.8**	**520.5**	**304.9**	**460.7**	**336**	**321.2**	**520**	**381.72**	**456.53**	**379.58**	**757.25**	**612.73**	
Dissolved Oxygen	mg/L		**0.08**	**0.11**	**1.93**	**1.42**	**2.03**	**1.06**	**2.43**	**6.5**	**1.3**	**5.21**	**4.85**	**3.79**	
pH	pH units		**6.69**	**6.57**	**6.53**	**6.16**	**6.67**	**6.57**	**6.6**	**6.97**	**6.72**	**7.3**	**7.69**	**6.7**	
Oxidation Reduction Potential	mV		**-57.2**	**-72.8**	**17.6**	**101.7**	**-0.3**	**35.3**	**-10.8**	**98.2**	**38.8**	**-3.8**	**-112.6**	**-46.3**	
Turbidity	NTU		**12.3**	**5.47**	**2.32**	**15.4**	**7.87**	**5**	**4**	**30.85**	**5.58**	**4.66**	**3.9**	**9.5**	

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

	Location		MW-06							
		Date	11/28/2017	08/22/2018	12/29/2020	06/17/2021	06/07/2022	12/28/2022	06/07/2023	12/05/2023
		Sample	MW-06-112817	MW-6-082218	MW-6-122920	MW-6-061721	MW-6-20220607	MW-6-20221228	MW-06-20230607	MW-06-20231205
Analyte	Unit	Site Cleanup Level								
Chlorinated Volatile Organic Compounds (cVOCs)										
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U
Monitored Natural Attenuation Parameters										
Chloride	mg/L		--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--
Field Parameters										
Temperature	deg C		**15.7**	**19.3**	**15.4**	**16.4**	**17**	**13.95**	**16.49**	**16.43**
Specific Conductance	uS/cm		**923**	**883**	**1032**	**864**	**803**	**965.31**	**1154.3**	**0.27**
Dissolved Oxygen	mg/L		**0.46**	**0.11**	**0.18**	**0.18**	**3.6**	**0.18**	**0.04**	**9.62**
pH	pH units		**6.62**	**6.68**	**6.87**	**6.59**	**6.7**	**6.8**	**6.78**	**4.37**
Oxidation Reduction Potential	mV		**-110.6**	**-103.4**	**-106.1**	**-32.6**	**-66.2**	**-121.4**	**-92.6**	**201.3**
Turbidity	NTU		**144**	**5.75**	**8.94**	**12.4**	**10.3**	**8.93**	**1.34**	**10.1**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

			Location	MW-07									MW-08			MW-09		
			Date	11/28/2017	08/22/2018	12/30/2020	06/17/2021	06/08/2022	12/29/2022	06/07/2023	12/05/2023	06/26/2024	12/04/2024	11/29/2017	08/22/2018	12/05/2018	11/29/2017	08/27/2018	12/05/2018
			Sample	MW-07-112817	MW-7-082218	MW-7-123020	MW-7-061721	MW-7-20220608	MW-7-20221229	MW-07-20230607	MW-07-20231205	MW-7-20240626	MW-07-20241204	MW-8-20171129	MW-8-082218	GW-120518-NT-MW-8	MW-9-20171129	MW-09-082718	GW-120518-NT-MW-9
Analyte	Unit	Site Cleanup Level																	
Chlorinated Volatile Organic Compounds (cVOCs)																			
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 4 U
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 2 U	**69**	**110**	**29.4**
Trichloroethene (TCE)	ug/L	5	**1.2**	**2.2**	**1.05**	< 0.500 U	**0.682**	< 0.400 U	**0.677**	< 0.400 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 0.8 U	**45**	**43**	**25.6**
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**15**	**14**	**16.2**	**12.7**	**13.5**	**1.75**	**12.1**	**4.00**	**6.00**	**7.16**	< 1 U	**1.2**	< 2 U	**54**	**86**	**75.4**
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	--	--	< 5 U	< 5 U	< 8 U	< 5 U	< 5 U	< 4 U
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 2 U	< 1 U	< 1 U	< 1 U
Vinyl Chloride	ug/L	0.2	**2.5**	**2.1**	**2.62**	< 0.200 U	**2.69**	**0.810**	**1.93**	< 0.200 U	**4.94**	**7.57**	**0.21**	< 0.2 U	**0.307**	**11**	**7.3**	**6.59**
Monitored Natural Attenuation Parameters																			
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters																			
Temperature	deg C		**16.8**	**18.8**	**14.7**	**17.8**	**16**	**15.14**	**16.48**	**15.09**	**18.43**	**14.78**	**14.8**	**17**	--	**14.1**	**14.9**	--
Specific Conductance	uS/cm		**404.9**	**435.3**	**456.1**	**739**	**208.8**	**530.71**	**451.2**	**0.61**	**779.61**	**1010.5**	**480.3**	**398.8**	--	**455.3**	**520.8**	--
Dissolved Oxygen	mg/L		**0.42**	**0.18**	**0.5**	**2.32**	**0.39**	**0.13**	**0.04**	**8.05**	**0.12**	**0.1**	**0.41**	**0.09**	--	**1.02**	**0.3**	--
pH	pH units		**6.57**	**6.36**	**7.26**	**6.64**	**6.62**	**6.81**	**6.79**	**4.57**	**7.52**	**6.75**	**6.3**	**6.41**	--	**6.36**	**6.48**	--
Oxidation Reduction Potential	mV		**-74**	**72.2**	**-80.4**	**-21.5**	**-63.3**	**-76.1**	**-24.3**	**208.6**	**-147**	**-100.6**	**28.5**	**-54.6**	--	**86.6**	**12.1**	--
Turbidity	NTU		**14**	**1.1**	**16.4**	**13.4**	**12.2**	**17.56**	**4.34**	**9.39**	**9.9**	**13.5**	**13.7**	**5.53**	--	**6.18**	**5.08**	--

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

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J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

	Location		MW-10										MW-11			MW-12	
	Date		11/28/2017	08/23/2018	12/29/2020	06/16/2021	06/07/2022	12/28/2022	06/05/2023	12/05/2023	06/25/2024	12/05/2024	11/29/2017	08/22/2018	12/04/2018	11/28/2017	08/22/2018
	Sample		MW-10-112817	AMW-10-082318	MW-10-122920	MW-10-061621	MW-10-20220607	MW-10-20221228	MW-10-20230605	MW-10-20231205	MW-10-20240625	MW-10-20241205	MW-11-112917	MW-11-082218	GW-120418-NT-MW-11	MW-12-20171129	MW-12-082218
Analyte	Unit	Site Cleanup Level															
Chlorinated Volatile Organic Compounds (cVOCs)																	
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	**1.4**	**1.5**	**1.7**	< 1 U	< 1 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/L		< 1 U	< 1 U	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	**1100**	**1200**	**1400**	**1.7**	< 1 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.500 U	< 0.500 U	**31**	**38**	**45.8**	**1.1**	< 1 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	**0.584**	**18**	**16**	**19.7**	**3.9**	**5.1**
Methylene Chloride	ug/L		< 5 U	< 5 U	--	--	--	--	--	--	--	--	< 5 U	< 5 U	< 4 U	< 5 U	< 5 U
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.500 U	< 0.500 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl Chloride	ug/L	0.2	< 0.2 U	**0.34**	**1.30**	< 0.200 U	< 0.2 U	**0.334**	< 0.200 U	< 0.200 U	**0.603**	**0.232**	**0.62**	**0.43**	**0.401**	< 0.2 U	< 0.2 U
Monitored Natural Attenuation Parameters																	
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate-Nitrite	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, dissolved	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Parameters																	
Temperature	deg C		**16.3**	**16.8**	**15.2**	**16.8**	**15.8**	**15.85**	**16.57**	**15.83**	--	**17.35**	**16**	**17.8**	--	**15.5**	**17.1**
Specific Conductance	uS/cm		**851**	**2156**	**1441**	**1210**	**1655**	**1038.8**	**1374.3**	**0.29**	--	**1411.7**	**389.8**	**452.5**	--	**403.5**	**356**
Dissolved Oxygen	mg/L		**0.49**	**0.15**	**0.18**	**0.2**	**4.3**	**0.17**	**0.18**	**8.16**	--	**0.09**	**0.24**	**0.17**	--	**0.46**	**0.07**
pH	pH units		**6.38**	**6.46**	**6.78**	**6.67**	**6.68**	**6.7**	**6.76**	**4.61**	--	**6.67**	**6.99**	**6.52**	--	**0.31**	**6.3**
Oxidation Reduction Potential	mV		**-24.6**	**-109.6**	**-75.4**	**-101.8**	**-56.3**	**-103.1**	**-73.1**	**199**	--	**-98.9**	**81.9**	**90.4**	--	**15.9**	**-64.6**
Turbidity	NTU		**9.1**	--	**9.56**	**8.22**	**10.1**	**2.95**	**1.68**	**2.21**	--	**1.4**	**18.8**	**2.96**	--	**13.8**	**9.71**

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

Table 5. Groundwater cVOCs and MNA Analytical Data

Project No. AS160324, Maddux North and South, Seattle, Washington

Location			MW-13		
		Date	11/29/2017	08/27/2018	12/04/2018
		Sample	MW-13-112917	MW-13-082718	GW-120418-NT-MW-13
Analyte	Unit	Site Cleanup Level			
Chlorinated Volatile Organic Compounds (cVOCs)					
1,1-Dichloroethene	ug/L		< 1 U	< 1 U	< 1 U
1,2-Dichloroethane (EDC)	ug/L		< 1 U	< 1 U	< 1 U
Chloroethane	ug/L		< 1 U	< 1 U	< 1 U
Tetrachloroethene (PCE)	ug/L	5	**13**	**7.1**	**1.7**
Trichloroethene (TCE)	ug/L	5	**5.7**	**3.5**	< 0.4 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	**48**	**65**	**36.4**
Methylene Chloride	ug/L		< 5 U	< 5 U	< 4 U
trans-1,2-Dichloroethene (tDCE)	ug/L	16	< 1 U	< 1 U	< 1 U
Vinyl Chloride	ug/L	0.2	**19**	**30**	**29.6**
Monitored Natural Attenuation Parameters					
Chloride	mg/L		--	--	--
Nitrate as Nitrogen	mg/L		--	--	--
Nitrite as Nitrogen	mg/L		--	--	--
Nitrate-Nitrite	mg/L		--	--	--
Sulfate	mg/L		--	--	--
Ethane	mg/L		--	--	--
Ethylene	mg/L		--	--	--
Methane	mg/L		--	--	--
Iron, dissolved	ug/L		--	--	--
Alkalinity, Total	mg/L		--	--	--
Total Organic Carbon	mg/L		--	--	--
Field Parameters					
Temperature	deg C		**15.6**	**18**	--
Specific Conductance	uS/cm		**612**	**781**	--
Dissolved Oxygen	mg/L		**0.12**	**0.22**	--
pH	pH units		**6.63**	**6.53**	--
Oxidation Reduction Potential	mV		**10.9**	**-3.2**	--
Turbidity	NTU		**40.5**	**28.2**	--

Notes:

Bold - detected

Gray label - Well has been decommissioned

Purple Highlight - Concentration exceeds Site Cleanup Level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate.

"--" - indicates results not available

mV - millivolts

ppm =- parts per million

µS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

FIGURES

Site Location Map

Annual Compliance Monitoring Report
Mount Baker Properties Site
Seattle, Washington

Aspect CONSULTING	FEB-2024	BY: AJY / DJM / NLK	FIGURE NO. 1
	PROJECT NO. AS160324N	REVISED BY: ---/---	

MADDUX NORTH PARCEL

0003600001

7954000008

7954000007

0003600008

Former Mt. Baker Cleaners

Former Heating Oil UST (Approximate)

Former 55-Gallon Waste Drum Containing Spent PCE (Approximate)

Former Dry Cleaning Equipment (Approximate)

7954000005

2880

29TH AVE S

S MCCLELLAN ST

MARTIN LUTHER KING JR WAY S

MADDUX SOUTH PARCEL

2811

2817

Former Location of Gasoline and Waste Oil USTs

Former Oil/Water Separator

2800

0003600055

Former Hydraulic Hoist Area

Former Pump Islands

6725700052

Dentist Office

6725700051

6725700045

Former Heating Oil UST

6725700060

2813

6725700065

2817

6725700030

2814

0003600074

6725700070

2821

6725700025

6725700075

6725700020

Subject Property

Historic Property Feature

Building Footprint

Tax Parcel

N

0 35 70

Feet

Site Plan and Historical Property Features

Annual Compliance Monitoring Report
Mount Baker Properties Site
Seattle, Washington

Aspect CONSULTING	MAY-2024	BY: AJY / DJM / NLK	FIGURE NO. 2
	PROJECT NO. AS160324N	REVISED BY: HMD	

Data source credits: None || Basemap Service Layer Credits: NA

GIS Path: G:\projects\MBHADevelopment_160324\Delivered\Annual Compliance Monitoring Report\AnnualCompliance\MonitoringReport.aprx; 02 Site Plan and Historical Property Features || User: haley.duran || Print Date: 5/9/2024

MADDUX NORTH PARCEL

MADDUX SOUTH PARCEL

29TH AVE S

S MCCLELLAN ST

MARTIN LUTHER KING JR WAY S

0003600001 7954000008 7954000007 0003600052 0003600008 0003600065 0003600055 0003600063 0003600062 0003600074 0003600010 6725700052 6725700051 6725700060 6725700065 6725700070 6725700075 0003600059

2880 2811 2817 2800 2813 2817 2814 2821

HC-MW-01 HC-MW-02 HC-MW-03 HC-MW-04 HC-MW-05 HC-MW-06 HC-MW-07

MW-01 MW-02 MW-03 MW-04 MW-05 MW-06 MW-07 MW-08 MW-09 MW-10 MW-11 MW-12 MW-13

AMW-01 AMW-02 AMW-03 AMW-04 AMW-05 AMW-06 AMW-07 AMW-08 AMW-09 AMW-10 AMW-11 AMW-12 AMW-13 AMW-14 AMW-15 AMW-16 AMW-17 AMW-18 AMW-19 AMW-20 AMW-21 AMW-22 AMW-23 AMW-24 AMW-25 AMW-26 AMW-27 AMW-28 AMW-29

ASG-01 ASG-02 ASG-03 ASG-04 ASG-05

Monitoring Well
Decommissioned Monitoring Well
Soil Gas Sample Location
Subject Property
Maddux South Injections (2024)
29th Ave Injections (2021)
McClellan Injections (2022)

Chlorinated solvent-contaminated soil removed during remedial excavation (2020)
Petroleum hydrocarbon-contaminated soil removed during remedial excavation (2020)
Building Footprint
Tax Parcel

N

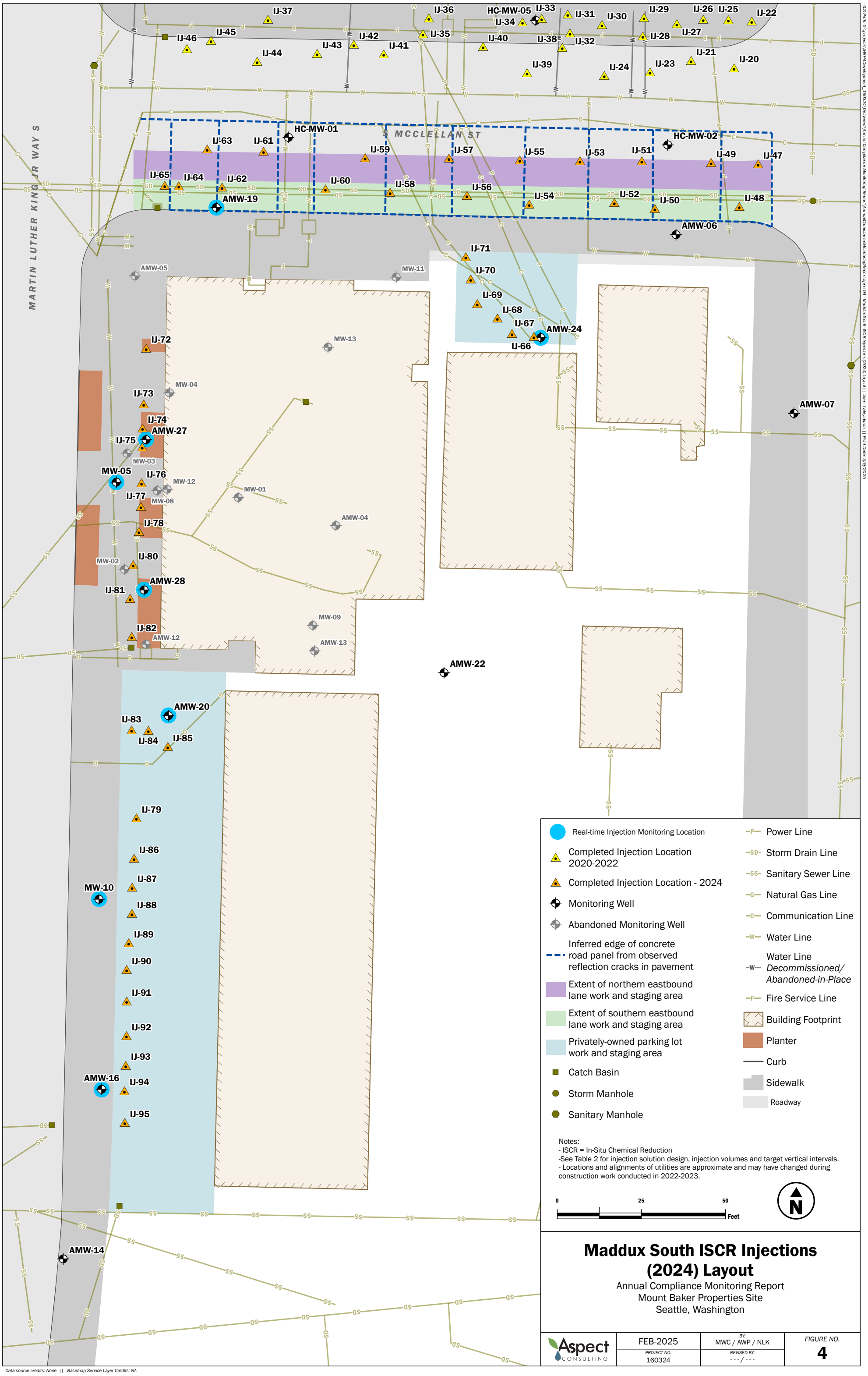
0 45 90 Feet

Cleanup Actions Overview

Annual Compliance Monitoring Report
Mount Baker Properties Site
Seattle, Washington

Aspect Consulting	MAY-2025	BY: AJY / DJM / HMD	FIGURE NO. 3
	PROJECT NO. AS160324N	REVISED BY: ---/---	

Data source credits: None || Basemap Service Layer Credits: NA



Notes:
- ISCR = In-Situ Chemical Reduction
-See Table 2 for injection solution design, injection volumes and target vertical intervals.
- Locations and alignments of utilities are approximate and may have changed during construction work conducted in 2022-2023.

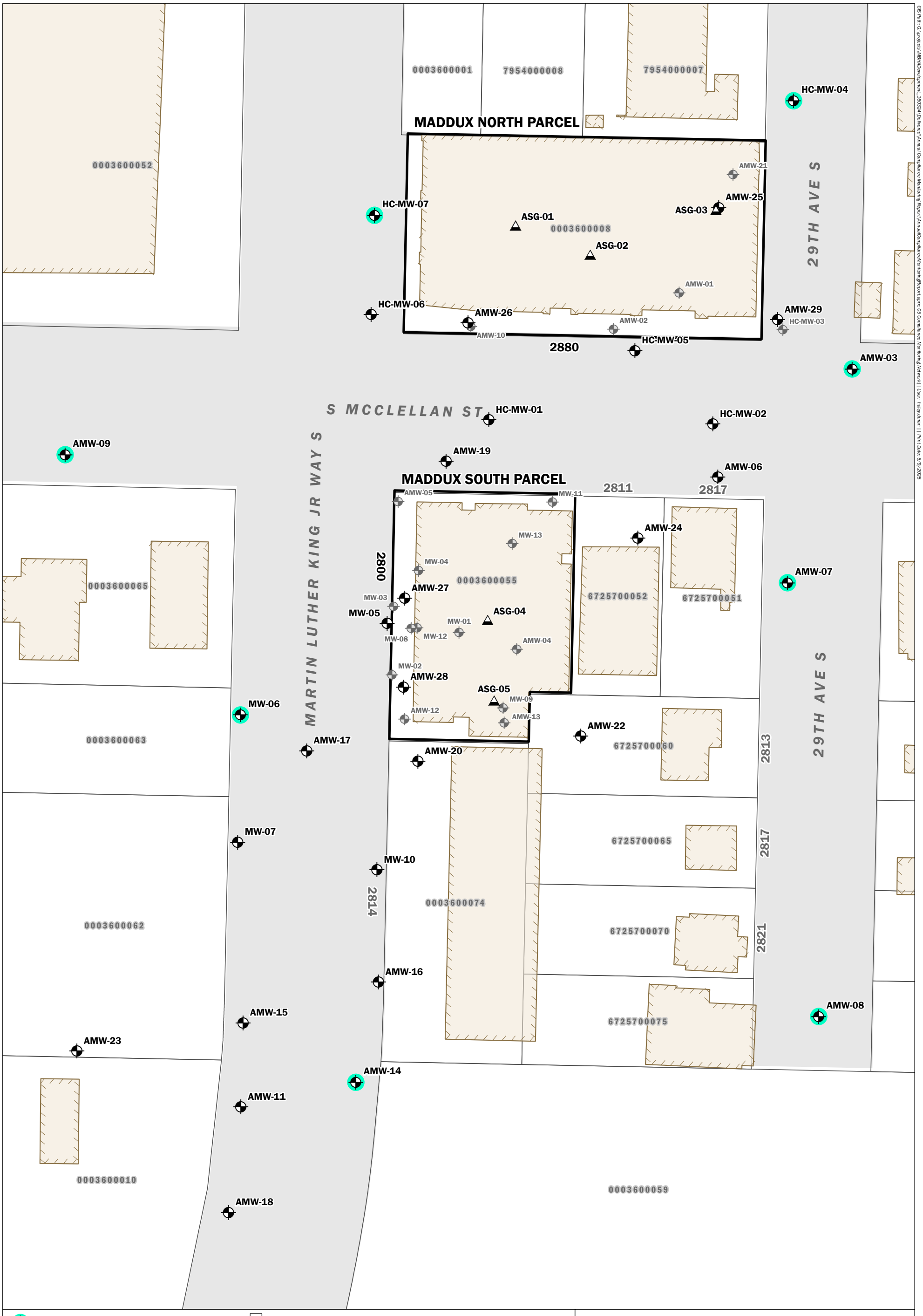
Maddux South ISCR Injections (2024) Layout

Annual Compliance Monitoring Report
Mount Baker Properties Site
Seattle, Washington

Aspect CONSULTING	FEB-2025	BY: MWC / AWP / NLK	FIGURE NO. 4
	PROJECT NO. 160324	REVISED BY: ---/---	

GIS Path: G:\projects\MBHADevelopment_160324\Delivered\Annual Compliance Monitoring Report\AnnualCompliance\MonitoringReport.aprx::04 - Maddux South ISCR Injections (2024) Layout || User: haley.dirran || Print Date: 5/9/2025

Data source credits: None || Basemap Service Layer Credits: NA



Compliance Monitoring Network

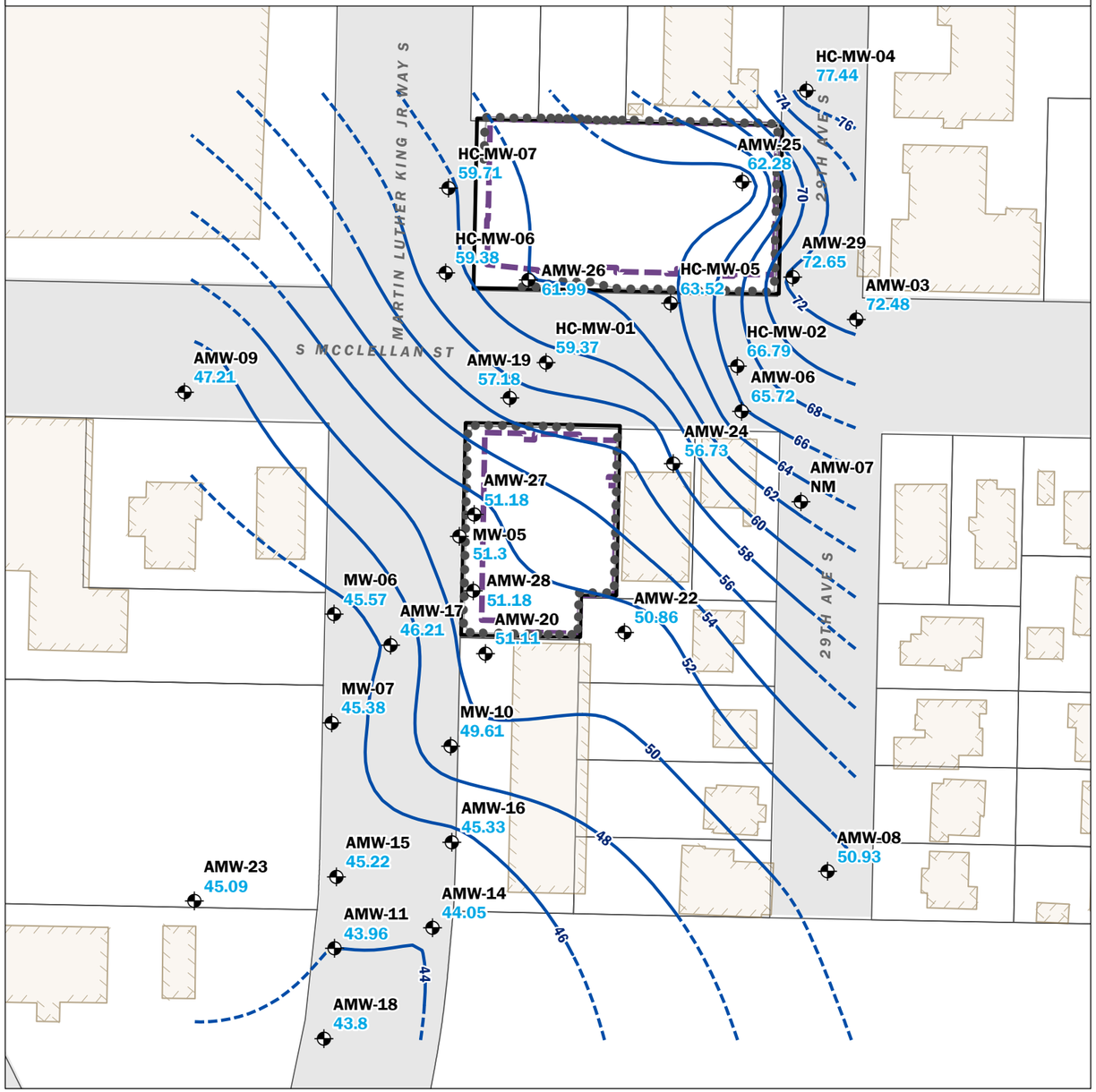
Annual Compliance Monitoring Report
Mount Baker Properties Site
Seattle, Washington

Aspect CONSULTING	FEB-2025	BY: AJY / DJM / NLK	FIGURE NO. 5
	PROJECT NO. AS160324N	REVISED BY: HMD	

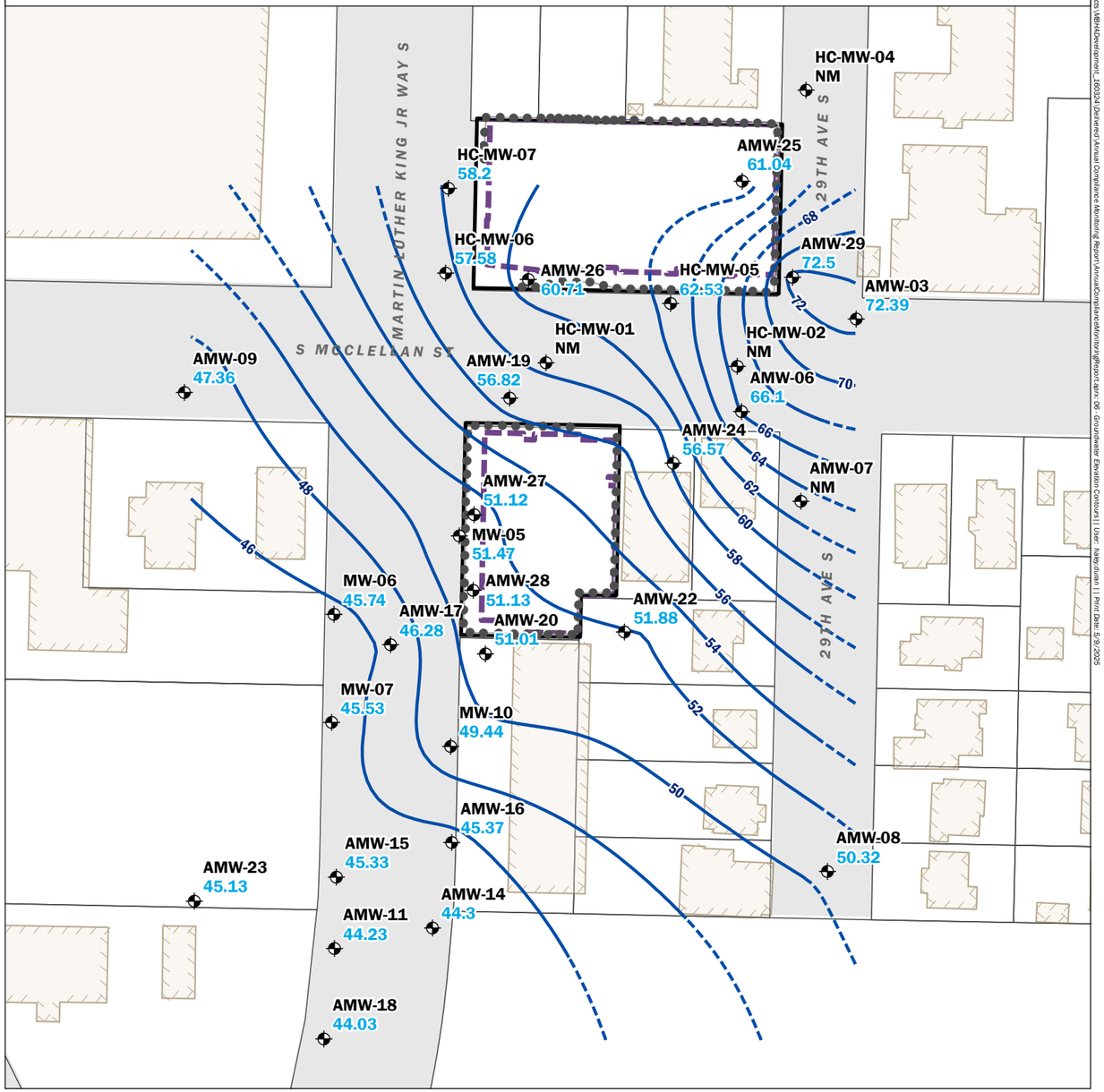
Data source credits: None || Basemap Service Layer Credits: NA

GIS Path: G:\projects\MBHADevelopment_160324\Delivered\Annual Compliance Monitoring Report\AnnualComplianceMonitoringReport.aprx::05 Compliance Monitoring Network | | User: haley.duran | | Print Date: 5/9/2025

JUNE 2024



DECEMBER 2024



Shoring Pile
Shoring Wall
Maddux Building Footprint
Building Footprint
Subject Property
Tax Parcel
Groundwater Contour *(dashed where inferred)*

AMW-14 ← Monitoring Well Name
43.68 ← Groundwater Elevation (ft)
NM ← Not Measured During This Sampling Event

N

0 40 80 Feet

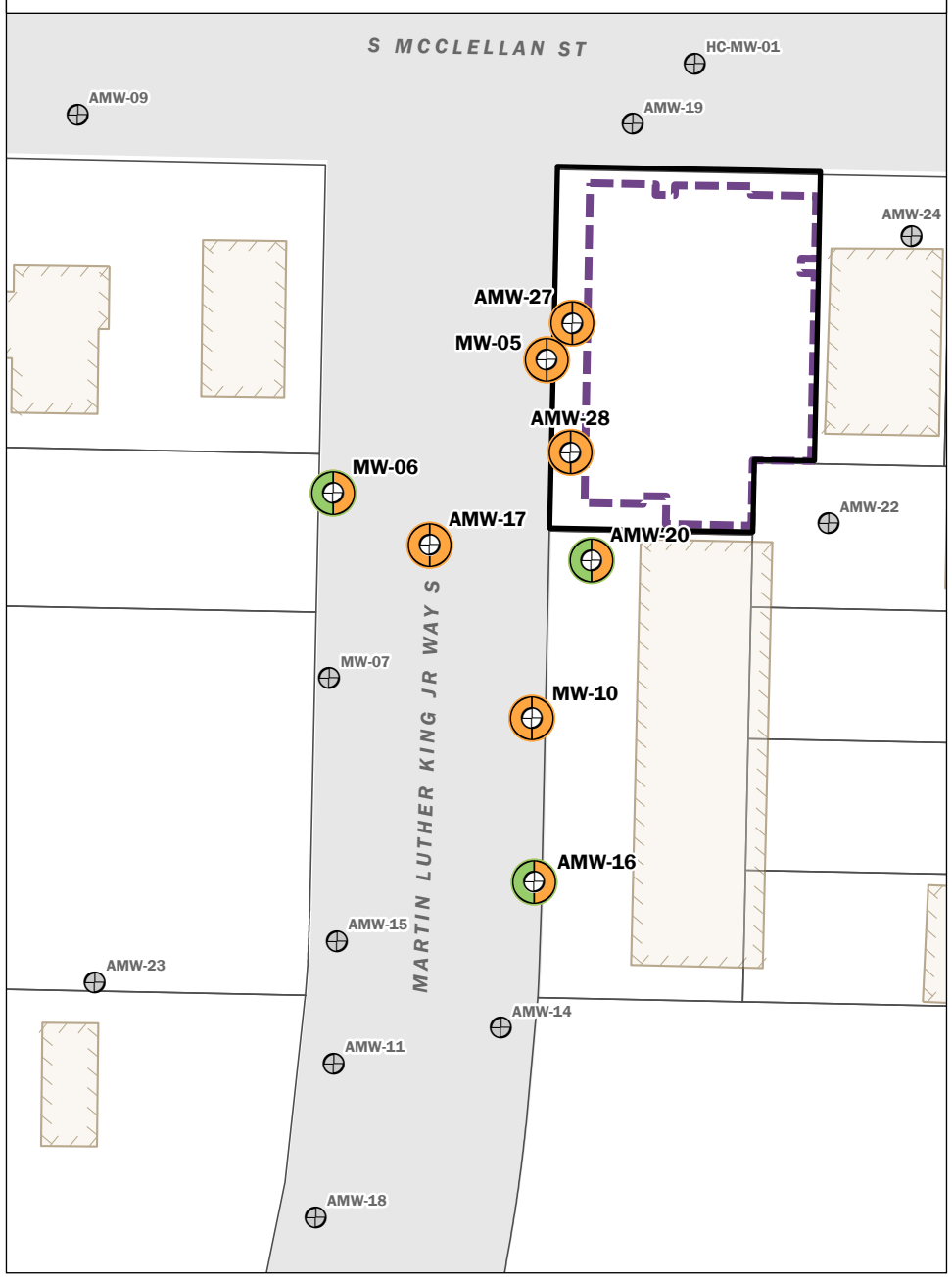
June 2024 and December 2024 Groundwater Elevation Contours

Annual Compliance Monitoring Report
Mount Baker Properties Site
Seattle, Washington

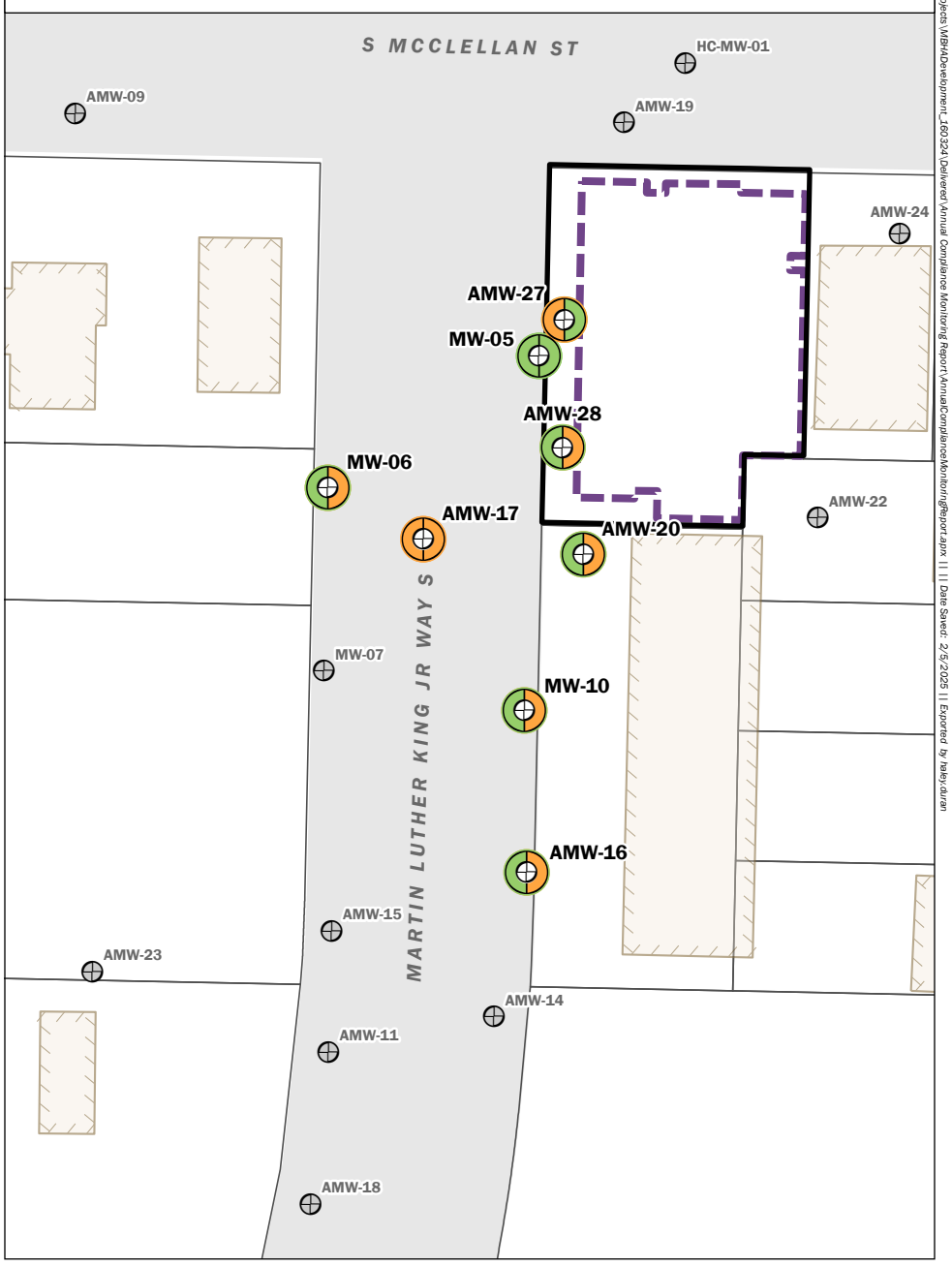
Aspect Consulting	FEB-2025	BY: AJY / HMD	FIGURE NO. 6
	PROJECT NO. 160324	REVISED BY: ---/---	

Data source credits: None || Basemap Service Layer Credits: NA

JUNE 2023



DECEMBER 2023



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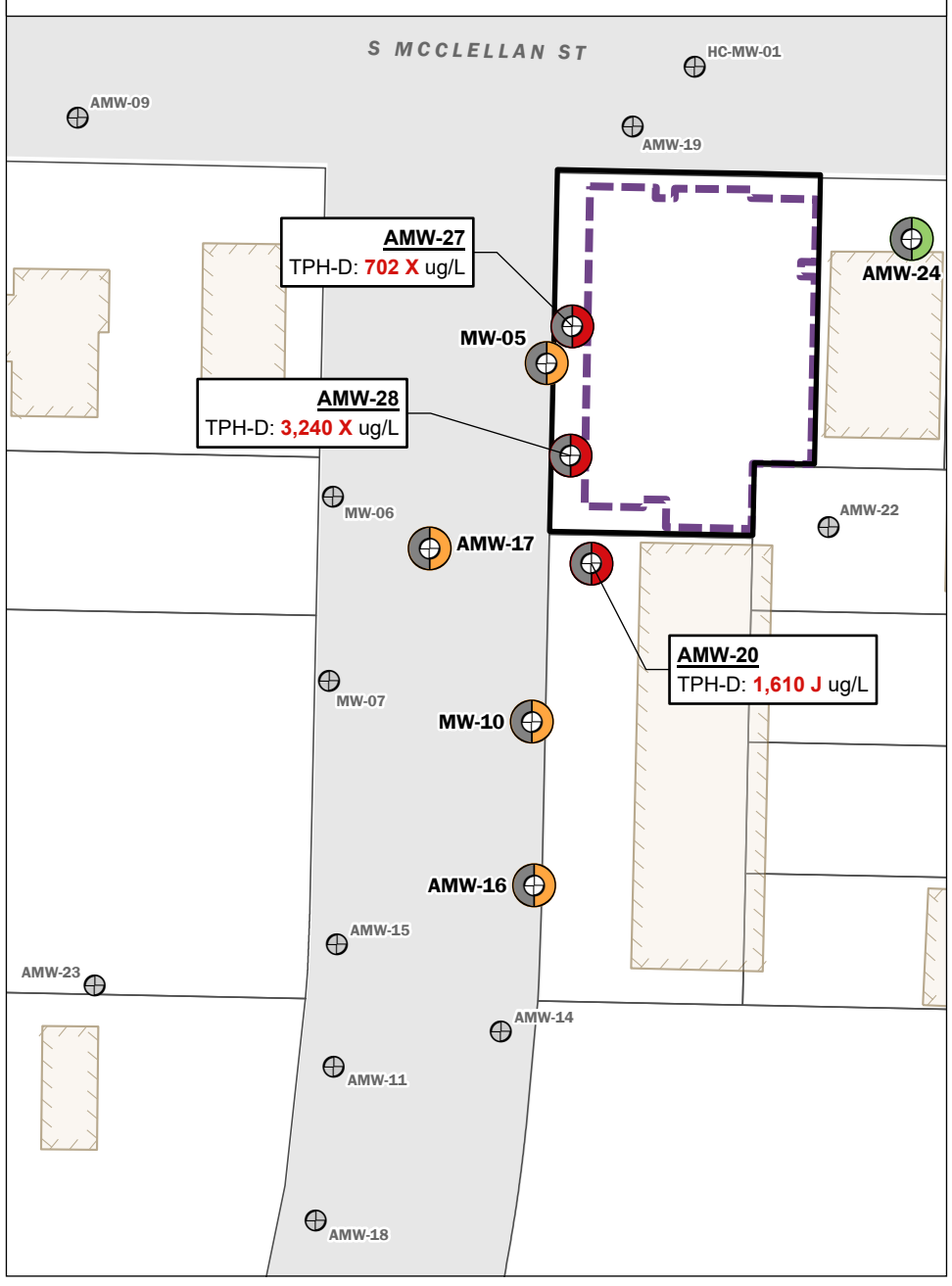

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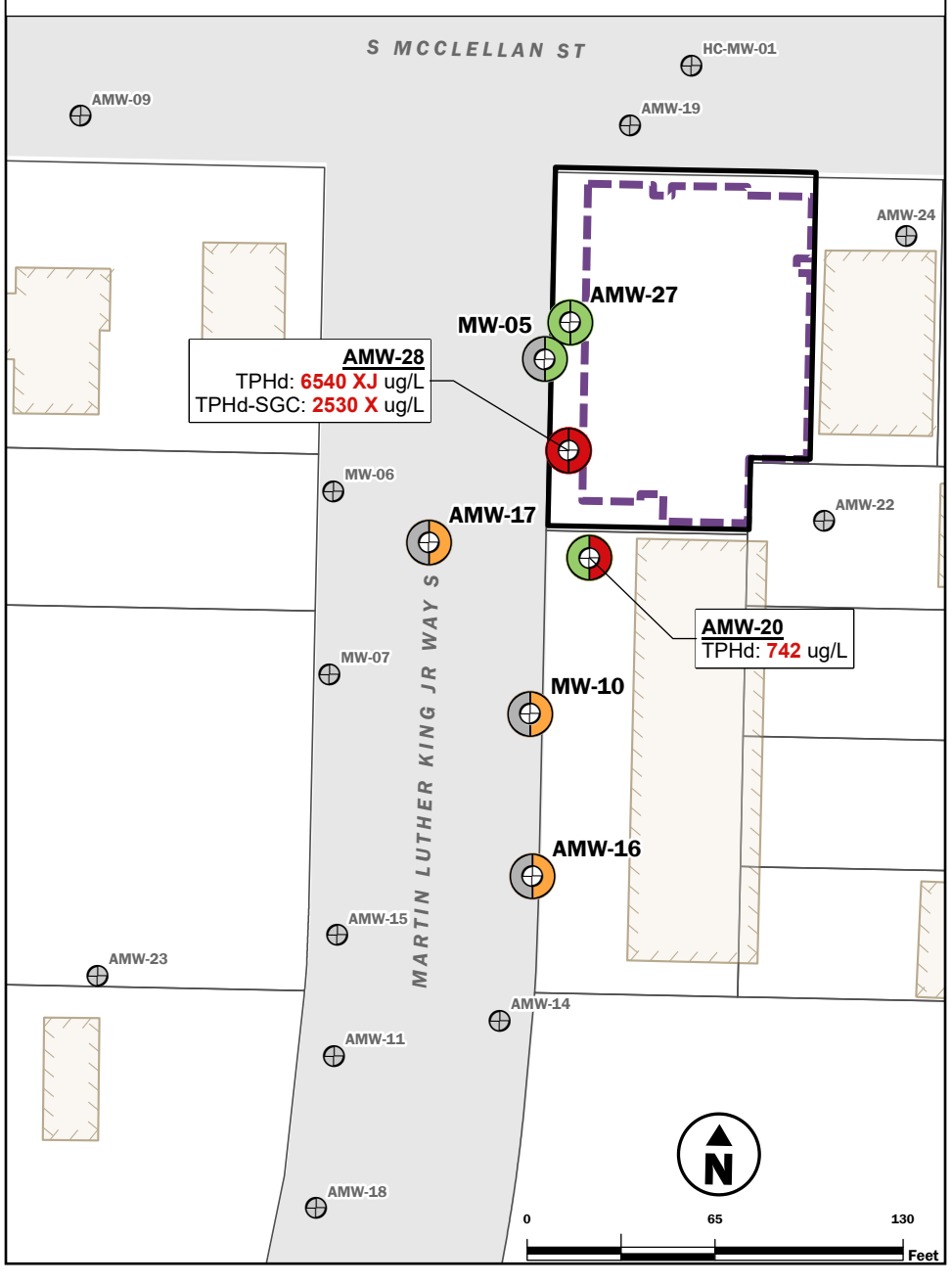


Monitoring Well

Monitoring Well Not Sampled for TPH

TPH dectected at concentrations above Site Specific Cleanup Levels

TPH dectected at concentrations below Site Specific Cleanup Levels

TPH not detected

Not Sampled

Subject Property

Maddux Building Footprint

Building Footprint

Tax Parcel

Sample ID

TPHg

TPHd

MW-10
TPHd: 675 X ug/L

Result Value

Notes:
1. ug/L = micrograms per liter
2. TPHg = Gasoline Range Organics
3. TPHd = Diesel Range Organics
4. TPH = Total Petroleum Hydrocarbons

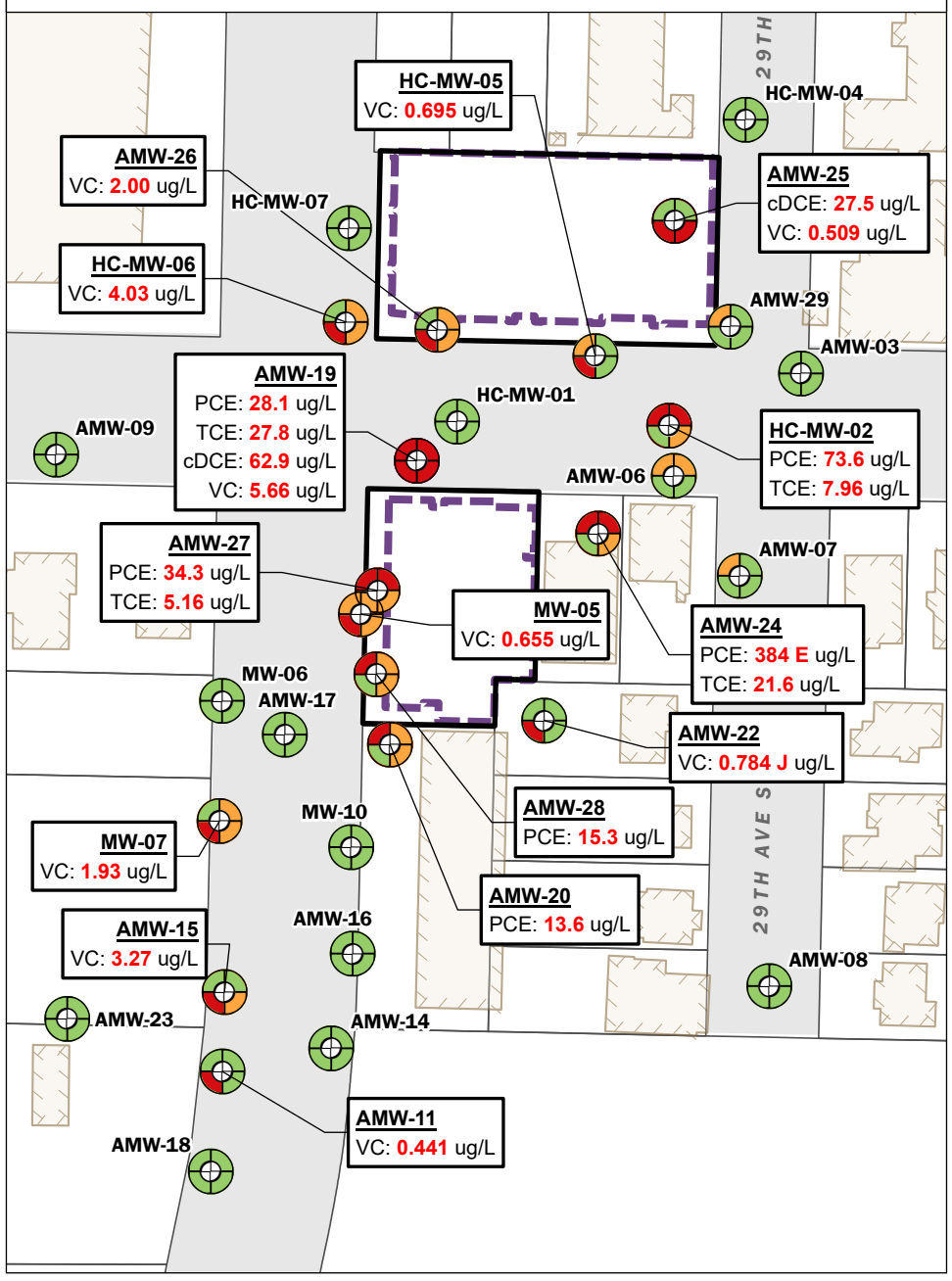
TPH Concentrations in Groundwater (2023 - 2024)

Annual Compliance Monitoring Report
Mount Baker Properties Site
Seattle, Washington

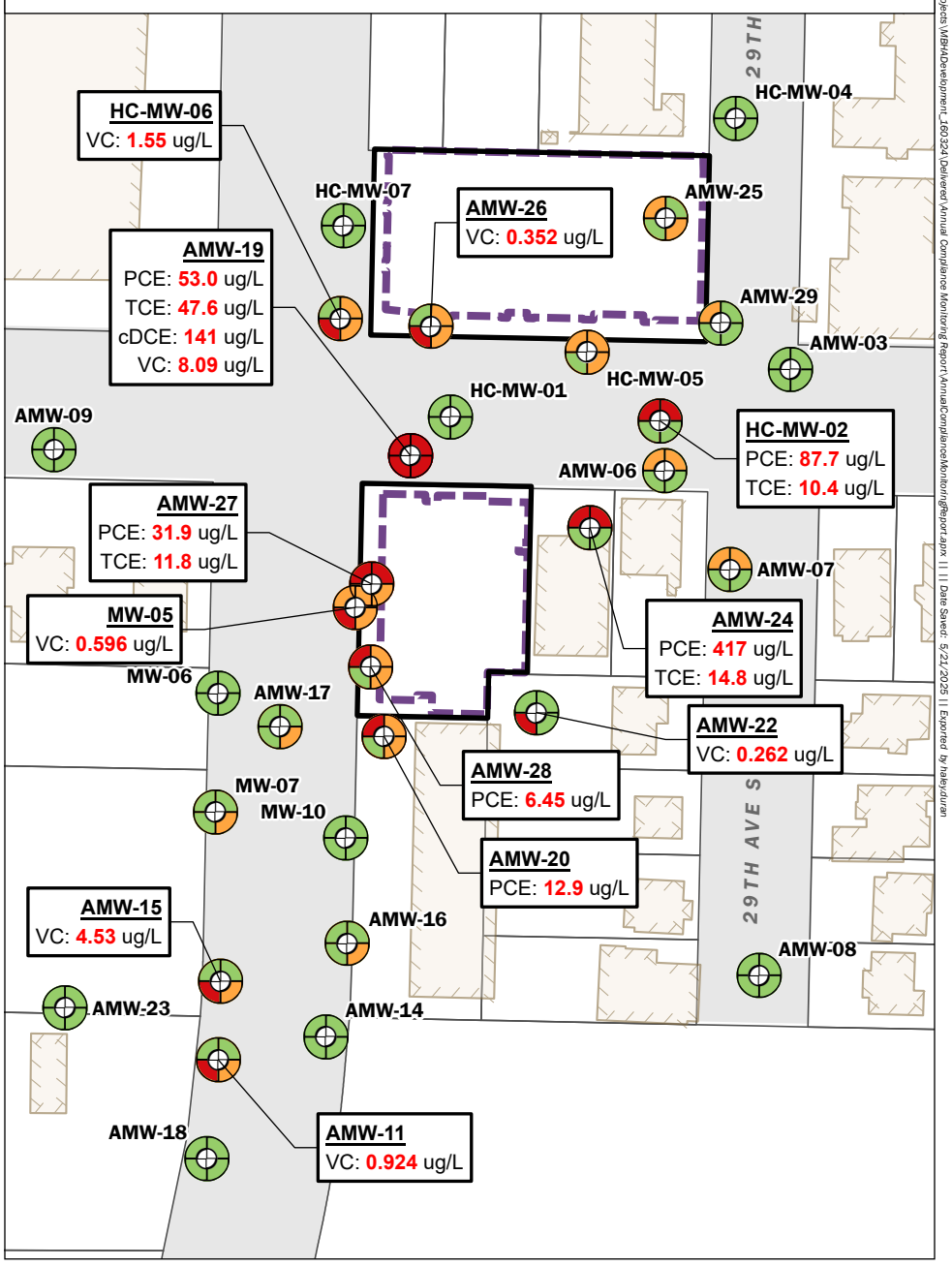
Aspect Consulting	FEB-2025	BY: AJY / DJM / NLK	FIGURE NO. 7
	PROJECT NO. AS160324N	REVISED BY: HMD	

Data source credits: None || Basemap Service Layer Credits: NA

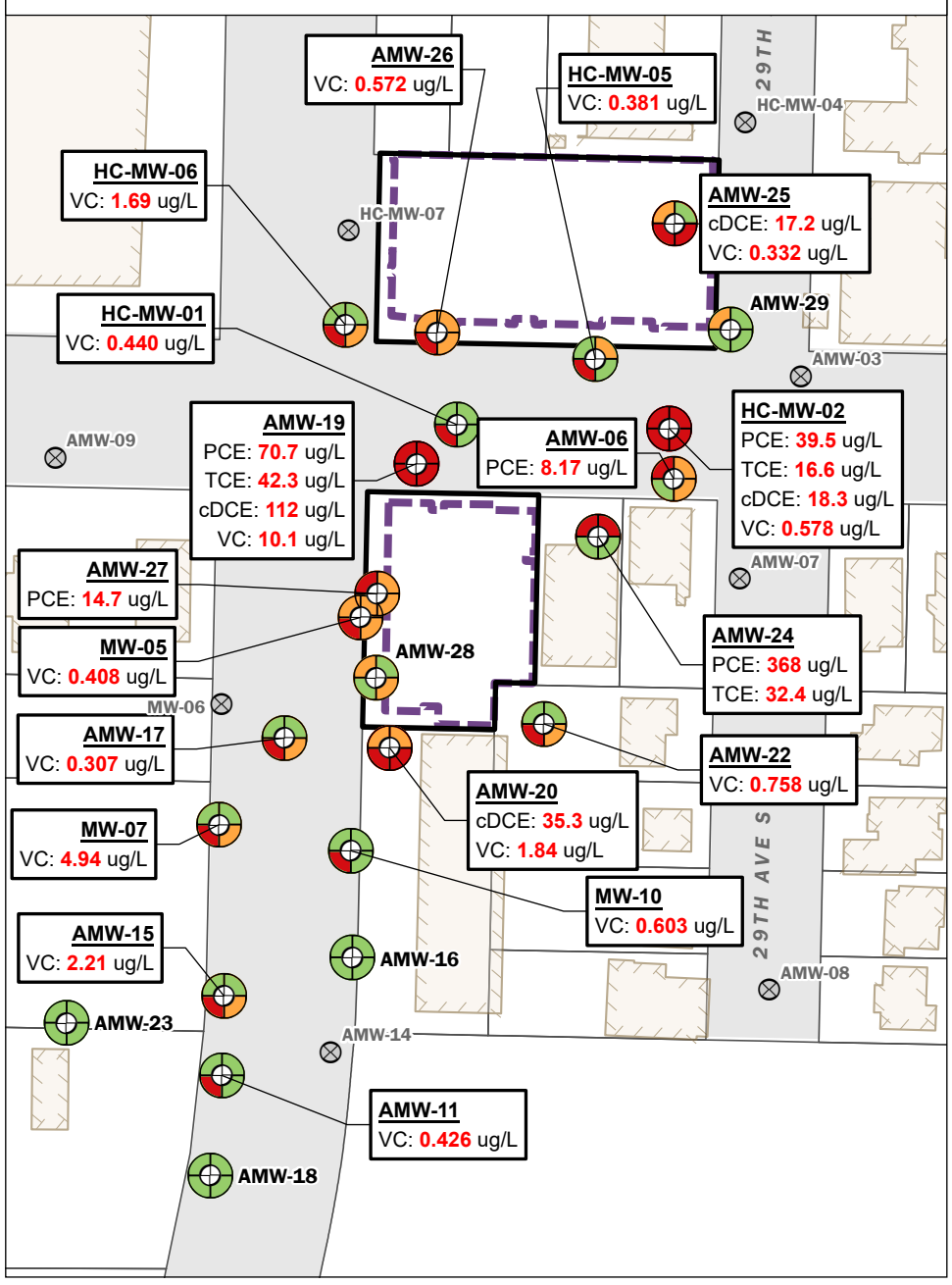
JUNE 2023



DECEMBER 2023



JUNE 2024



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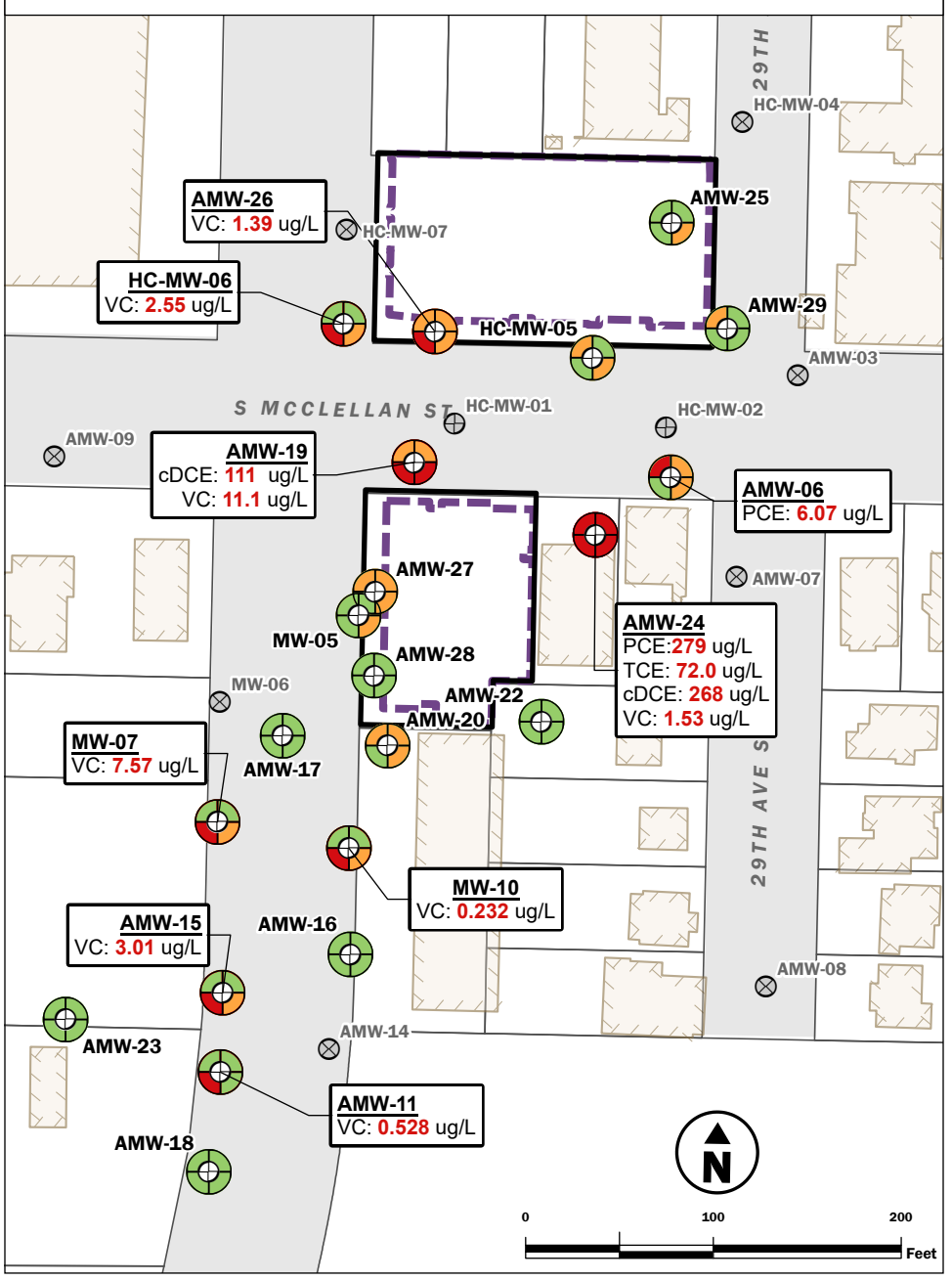


Monitoring Well

Monitoring Well Not Sampled for cVOCs

cVOCs dectected at concentrations above Site Specific Cleanup Levels

cVOCs dectected at concentrations below Site Specific Cleanup Levels

cVOCs not detected

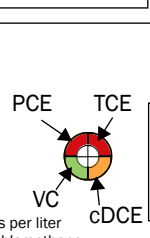
Not Sampled

Subject Property

Maddux Building Footprint

Building Footprint

Tax Parcel



Sample ID

AMW-24
PCE: 238 E ug/L
TCE: 25.5 ug/L

Result Value

Notes:
1. ug/L = micrograms per liter
2. cDCE = cis-1,2-Dichloroethene
3. PCE = Tetrachloroethene
4. TCE = Trichloroethene
5. VC = Vinyl Chloride
6. cVOCs = Chlorinated Volatile Organic Compounds

CVOC Concentrations in Groundwater (2023 - 2024)

Annual Compliance Monitoring Report
Mount Baker Properties Site
Seattle, Washington

Aspect CONSULTING

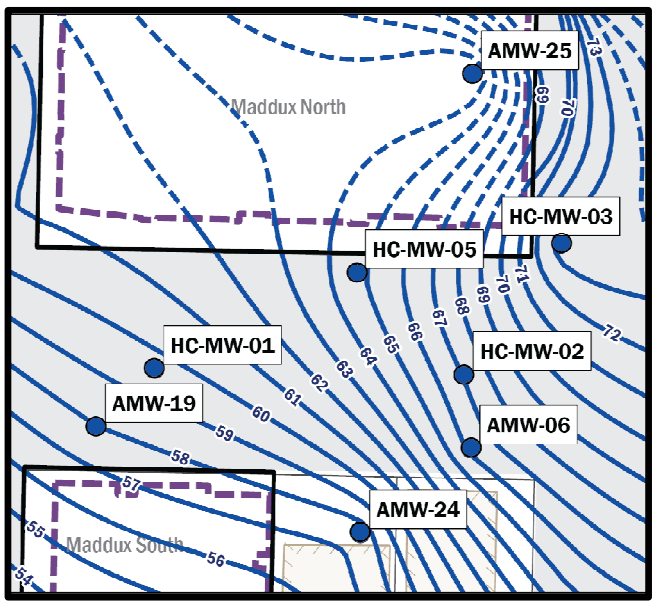
	MAY-2025	BY: AJY / DJM / NLK	FIGURE NO. 8
	PROJECT NO. AS160324N	REVISED BY: HMD	

Data source credits: None || Basemap Service Layer Credits: NA

Figure 9. Groundwater Analytical Results – Time-Series cVOC Graphs

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

Maddux North cVOCs



Legend

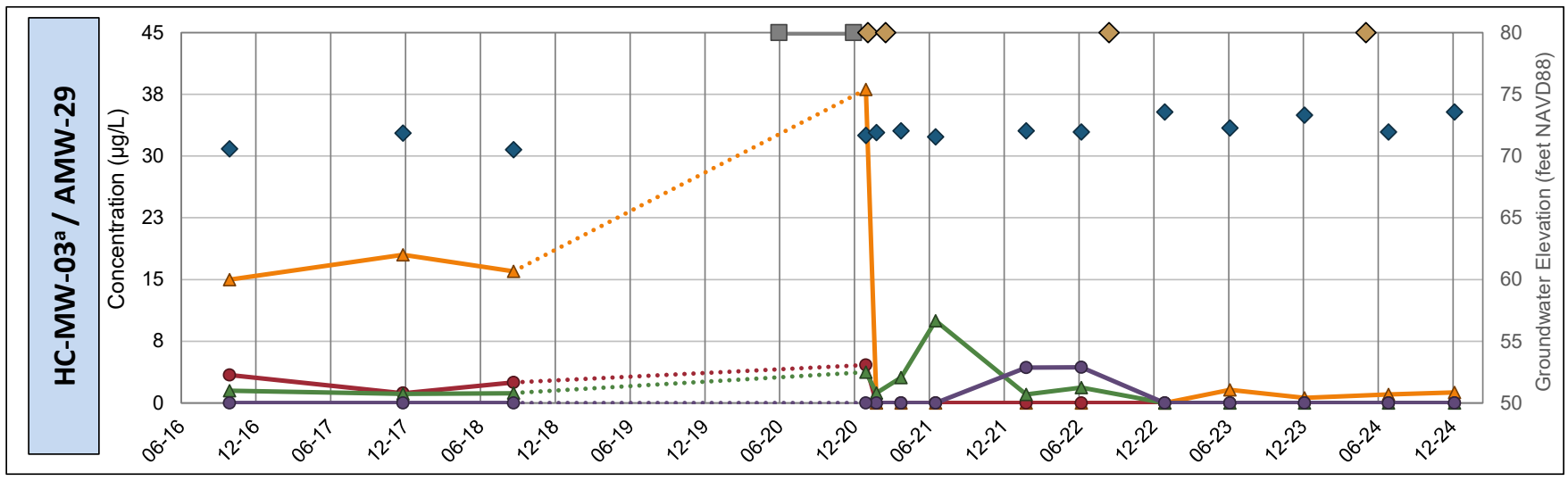
- PCE - tetrachloroethene
- TCE - trichloroethene
- cDCE - cis-1,2 dichloroethene
- VC - vinyl chloride
- Date of Injection event
- Groundwater elevation (feet NAVD88)
- Duration of excavation

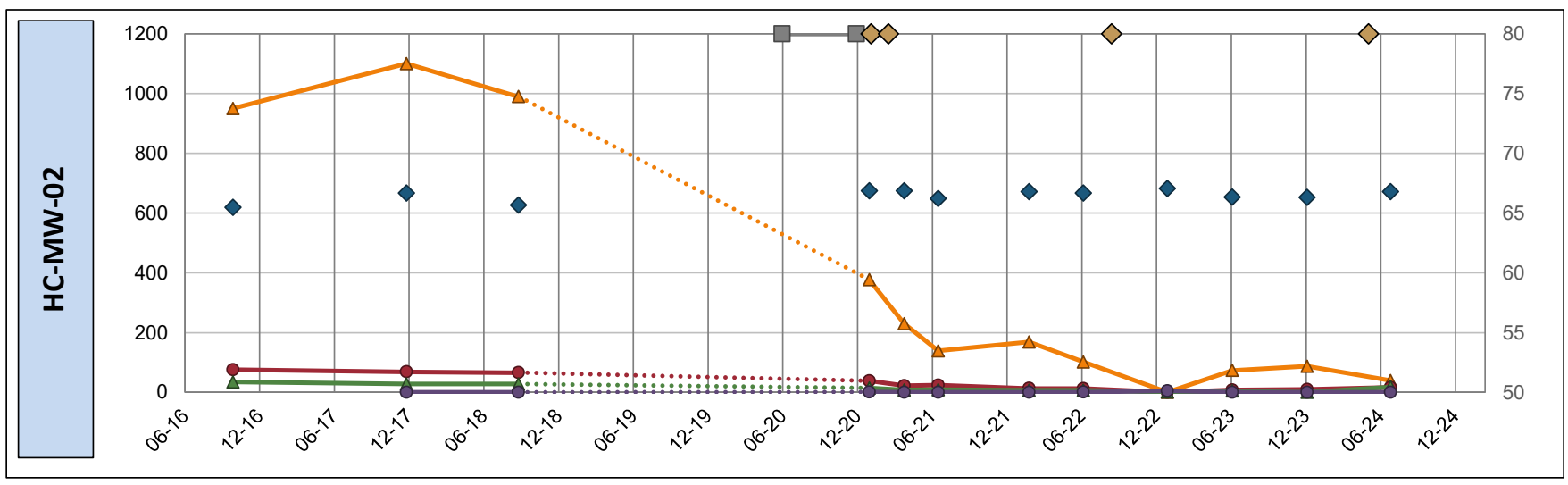
µgl/L - micrograms per liter

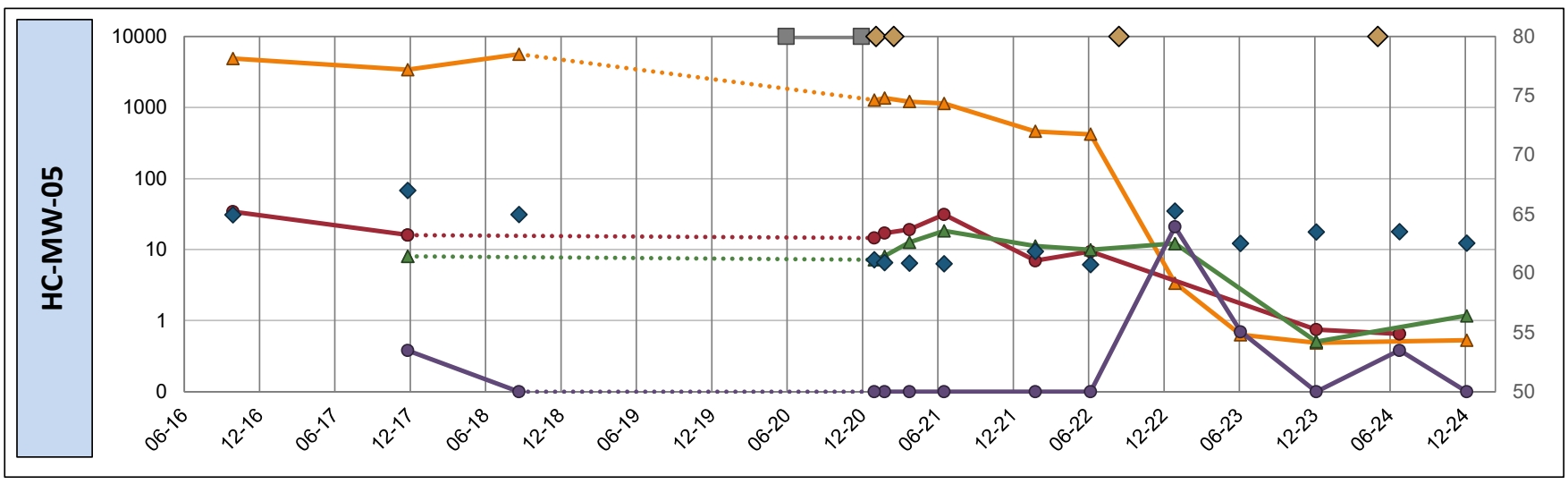
Notes

1. Groundwater elevation contours represent groundwater levels obtained in December 2024.
2. Nondetect results were graphed using a value of zero

[a] HC-MW-03 was decommissioned and replaced with AMW-29







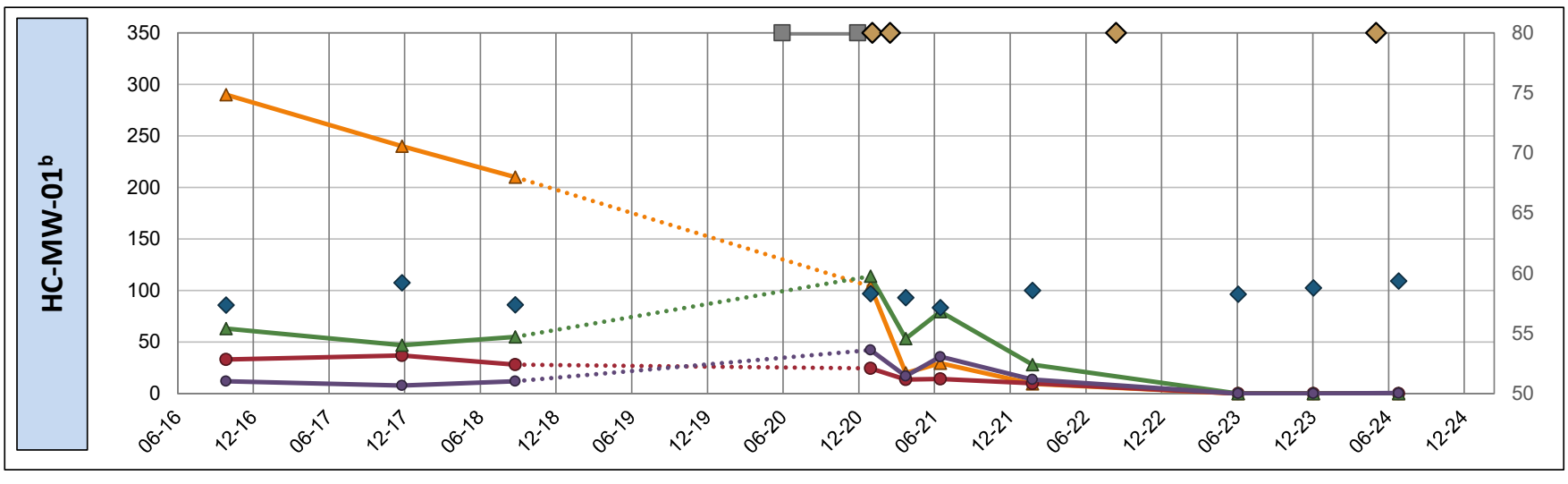
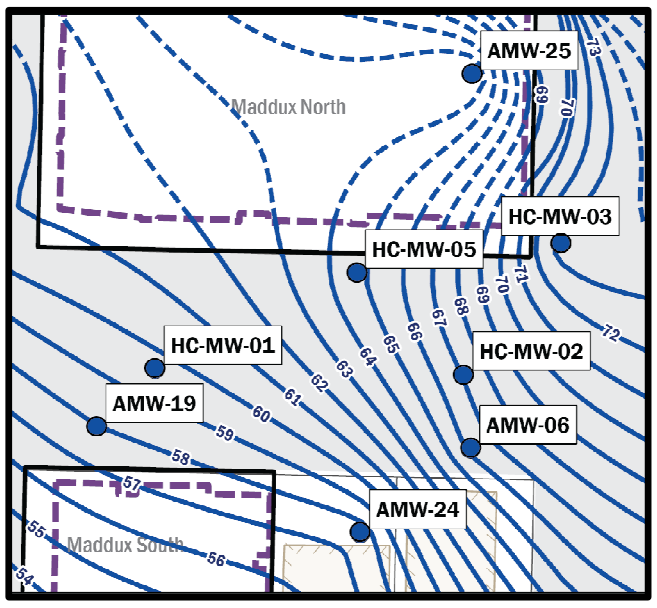


Figure 9. Groundwater Analytical Results – Time-Series cVOC Graphs

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

Maddux North cVOCs



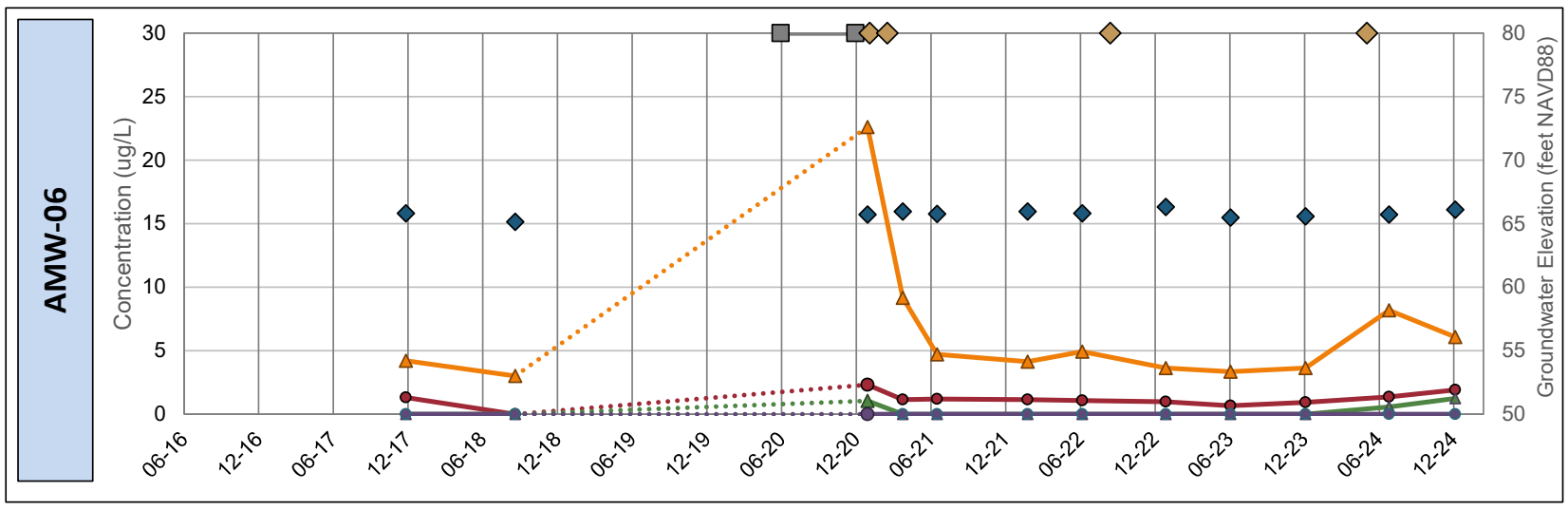
Legend

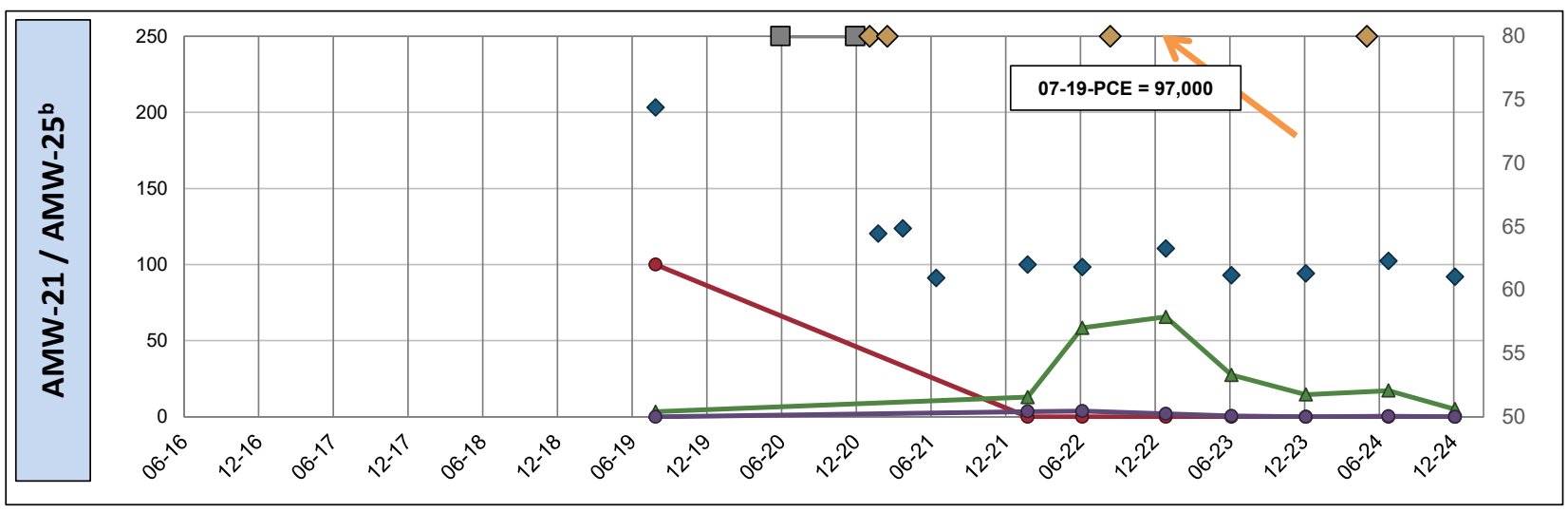
µgl/L -

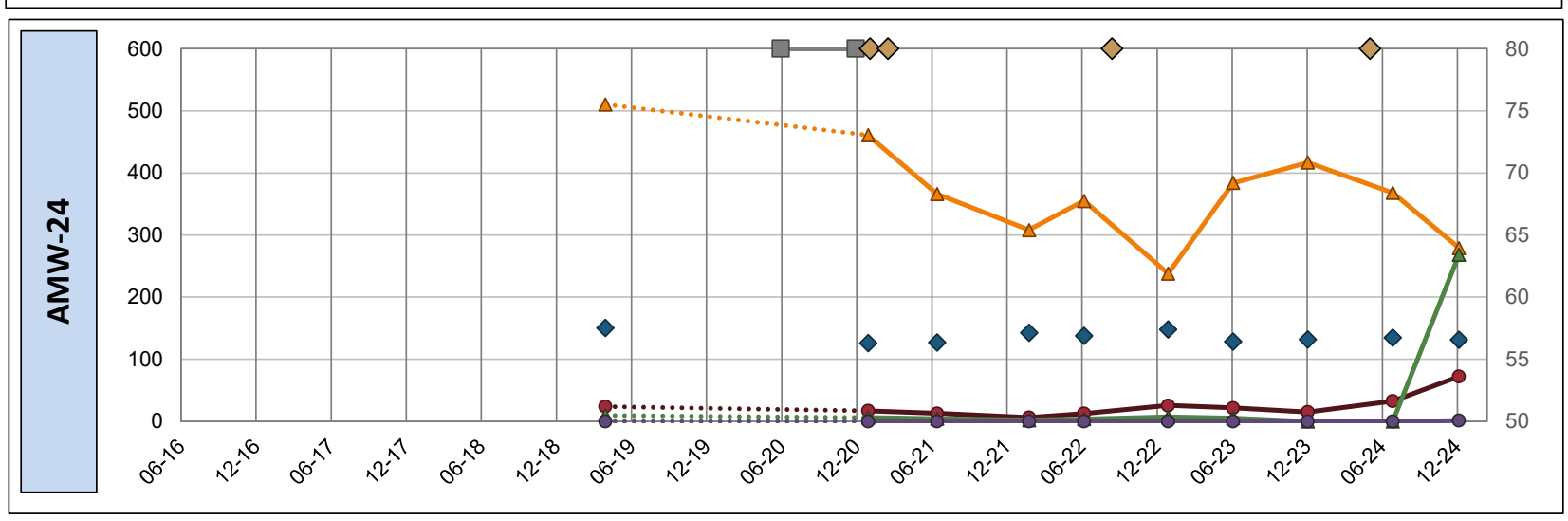
Notes

1. Groundwater elevation contours represent groundwater levels obtained in December 2024.
2. Nondetect results were graphed using a value of zero

[b] AMW-21 was decommisioned and replaced with AMW-25







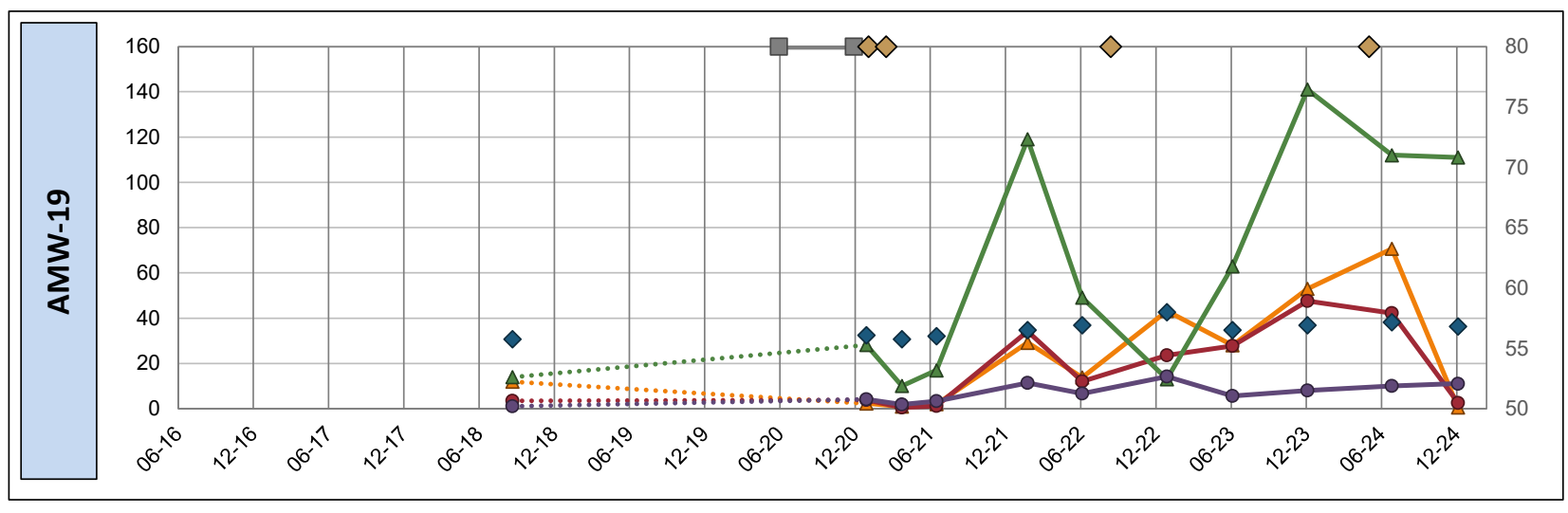


Figure 10. Groundwater Analytical Results – Absolute Molar cVOC Concentrations

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

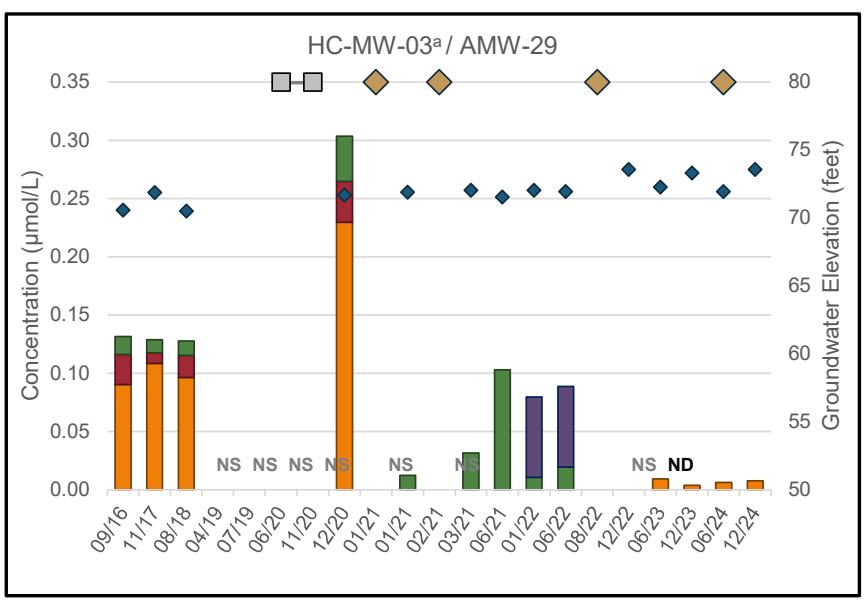
Legend

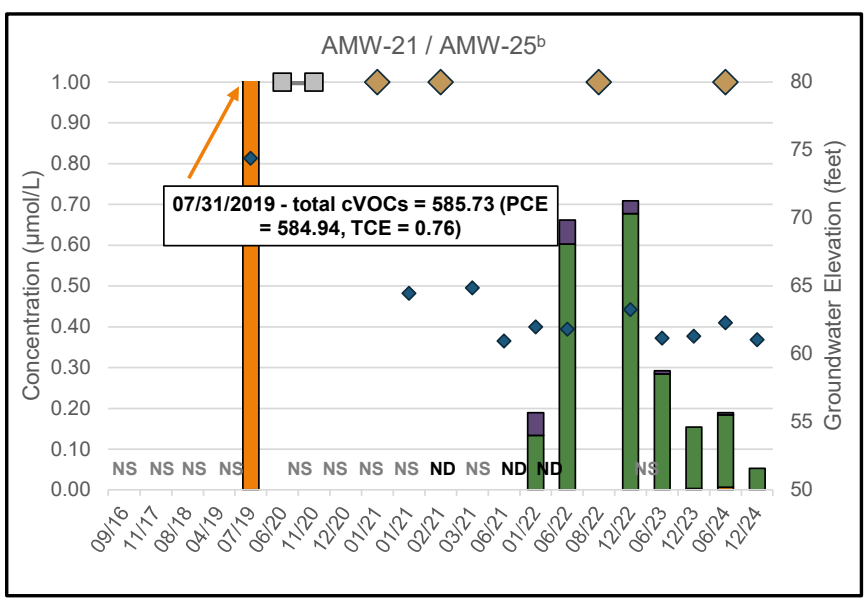
- PCE - tetrachloroethene
- TCE - trichloroethene
- cDCE - cis-1,2 dichloroethe
- VC - vinyl chloride
- ND Nondetect
- Groundwater Elevation (feet NAVD88)
- Date of Injection event
- Duration of Excavation
- NS Not sampled
- µmol/L - micromoles per liter

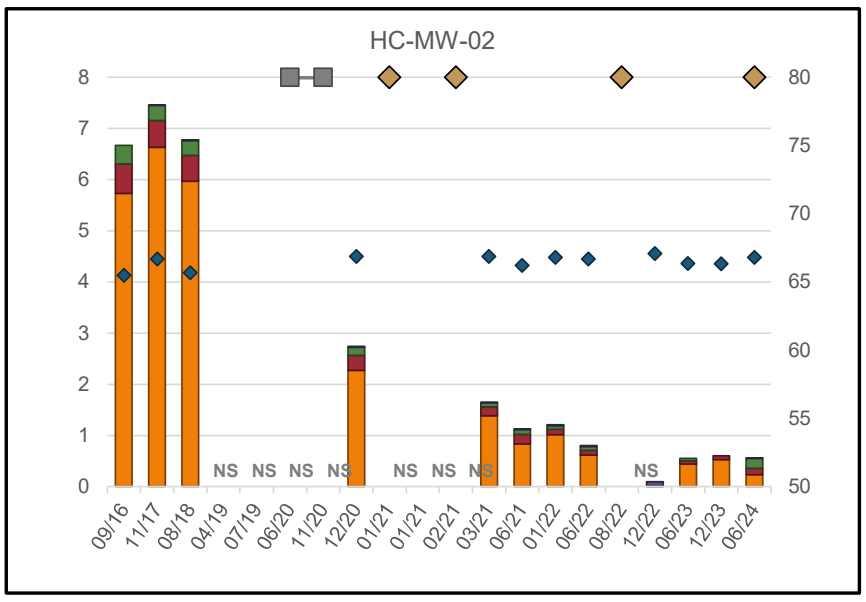
Notes

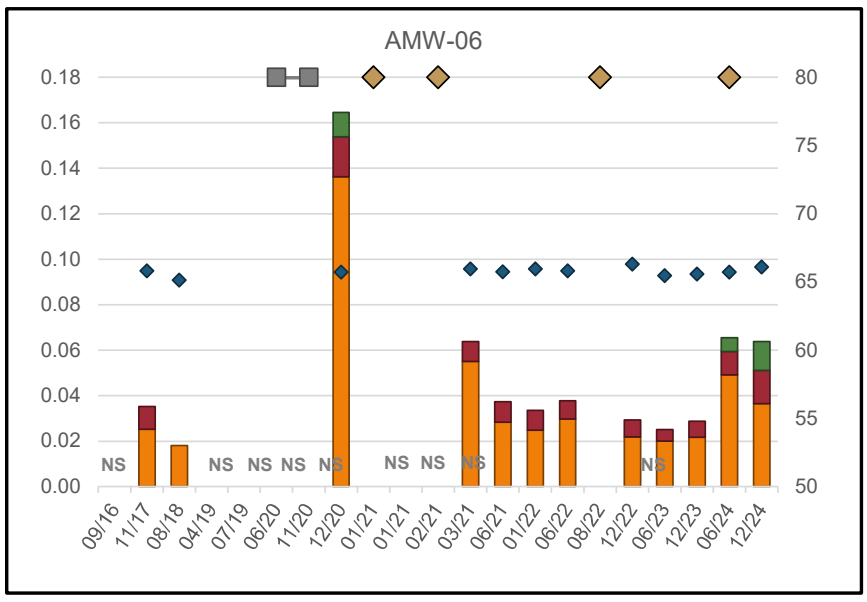
[a] HC-MW-03 was decommissioned and replaced with AMW-29

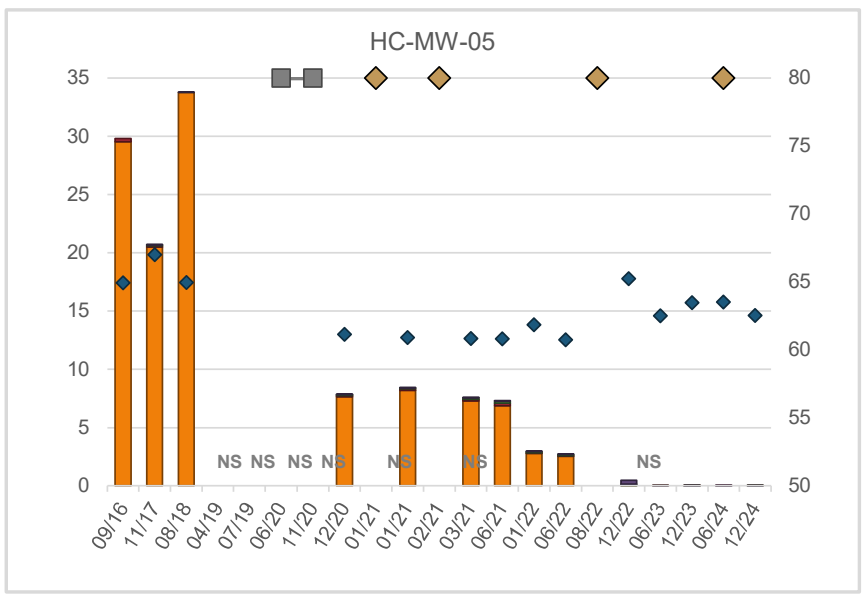
[b] AMW-21 was decommissioned and replaced with AMW-25

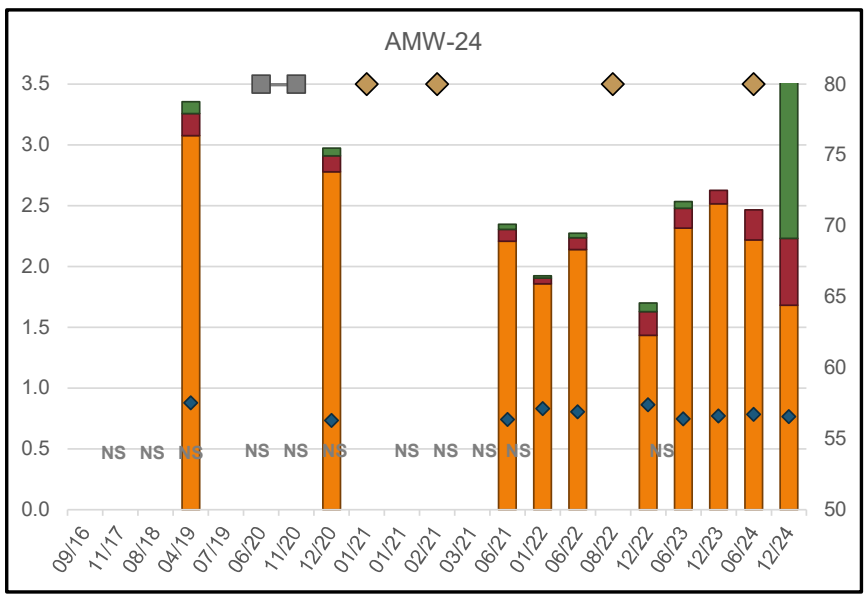


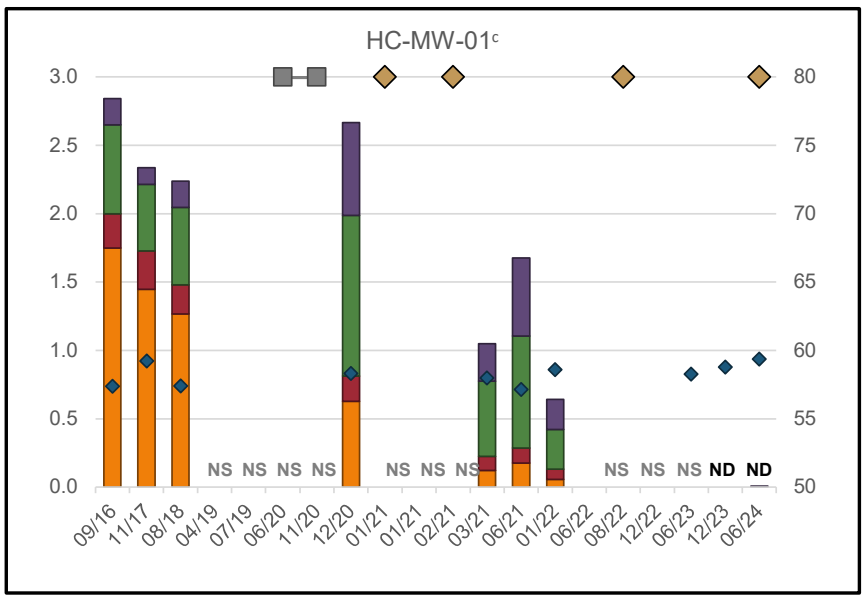












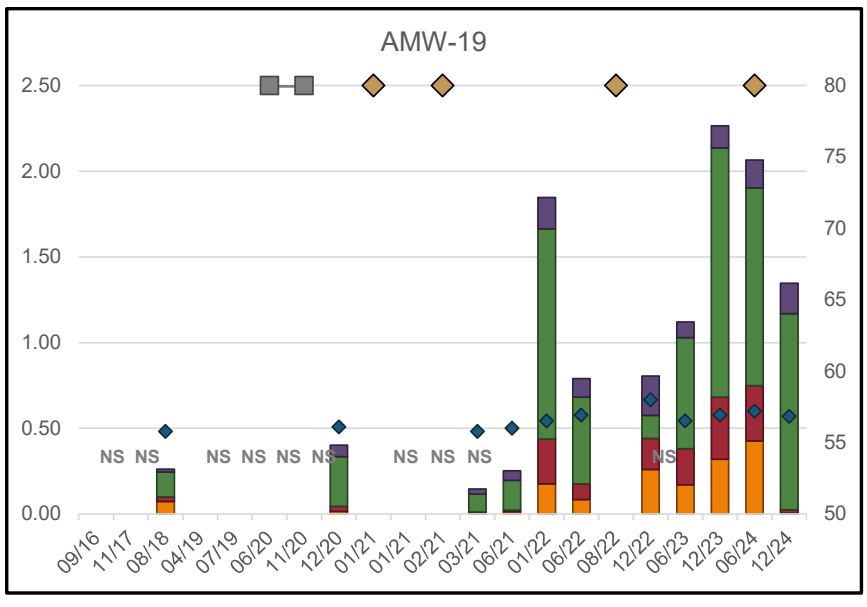


Figure 11. Groundwater Analytical Results – Relative Molar cVOC Concentrations

Project No. AS160324N, Mount Baker Properties Site, Seattle, Washington

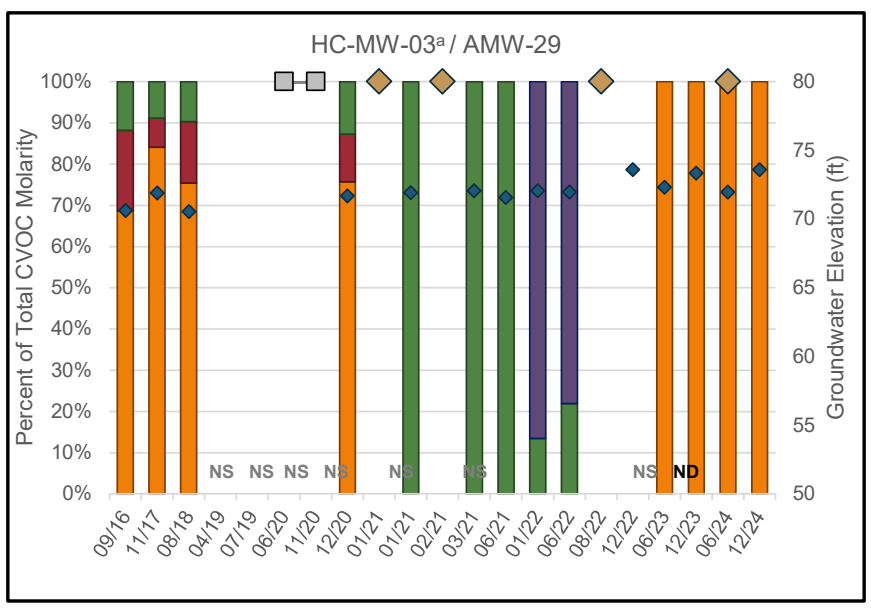
Legend

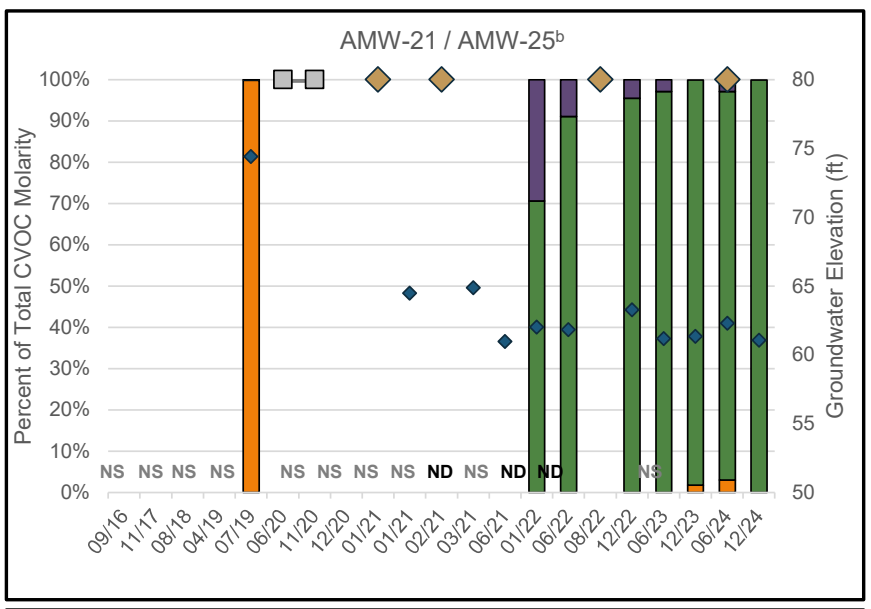
- PCE - tetrachloroethene
- TCE - trichloroethene
- cDCE - cis-1,2 dichloroethe
- VC - vinyl chloride
- ND Nondetect
- Groundwater Elevation (feet NAVD88)
- Date of Injection event
- Duration of Excavation
- NS Not sampled

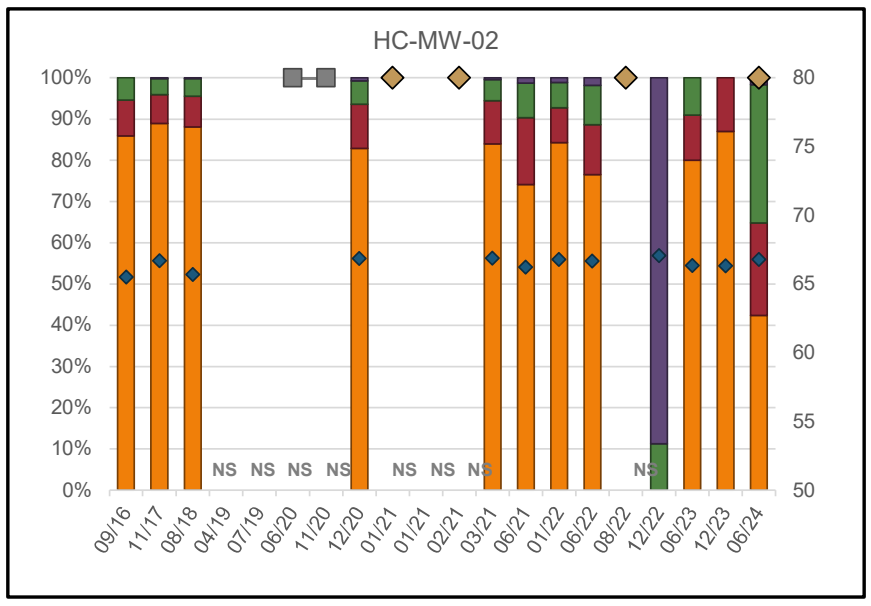
Notes

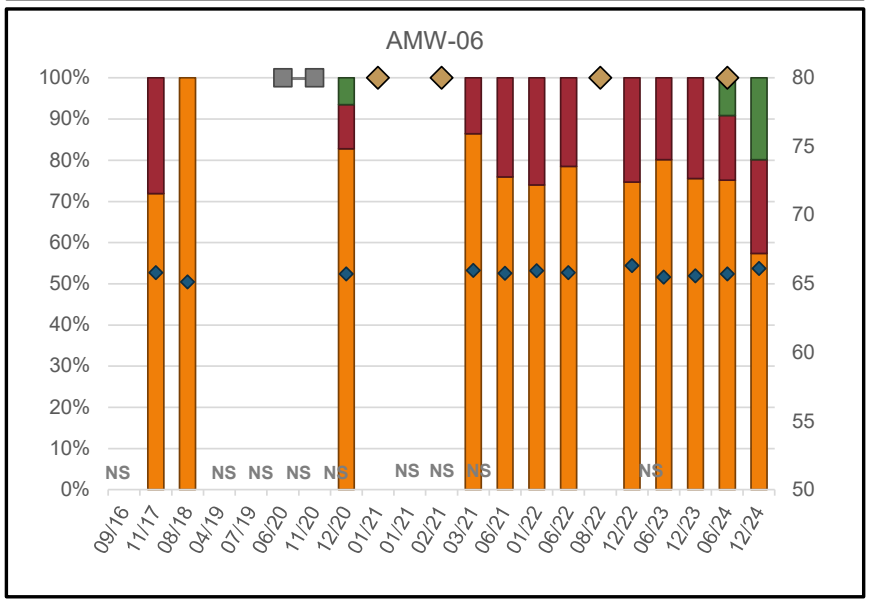
[a] HC-MW-03 was decommissioned and replaced with AMW-29

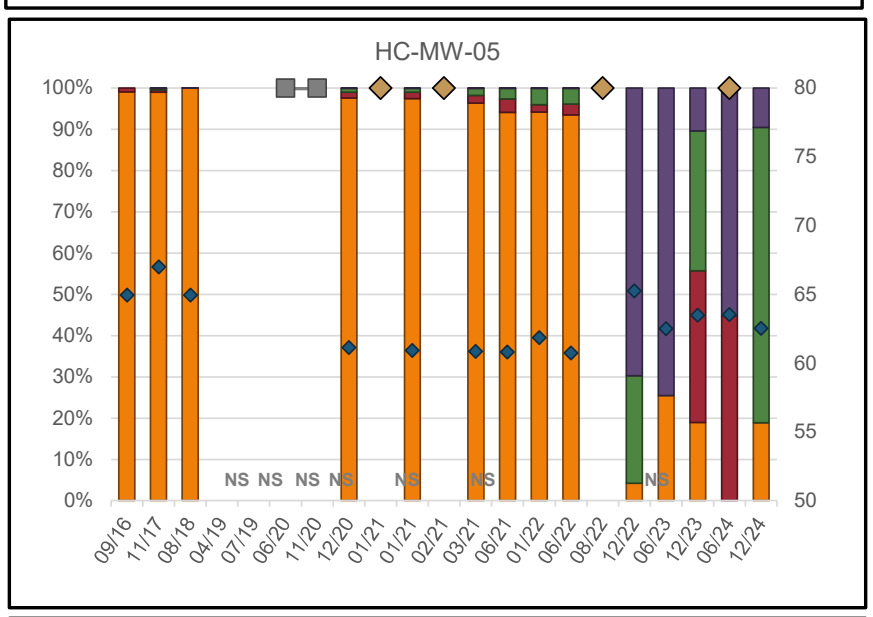
[b] AMW-21 was decommissioned and replaced with AMW-25

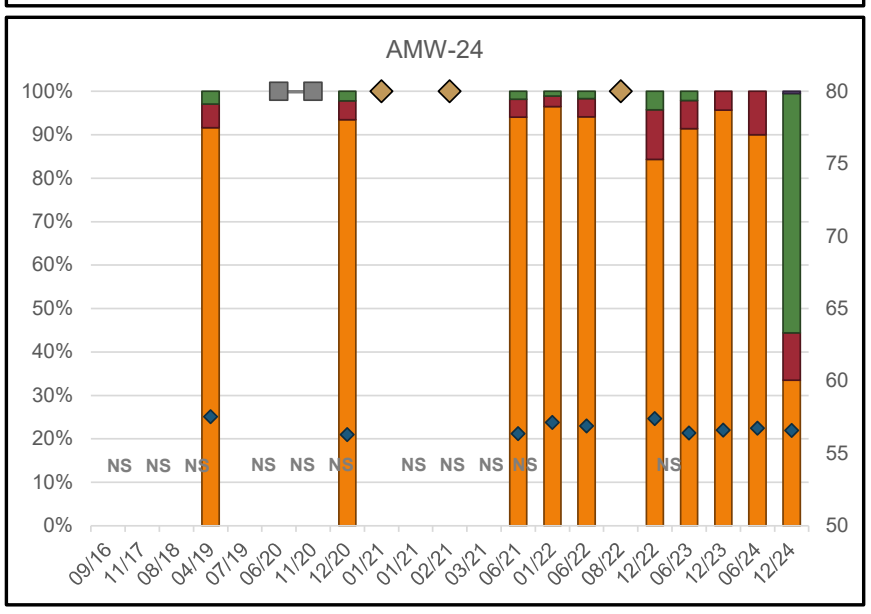


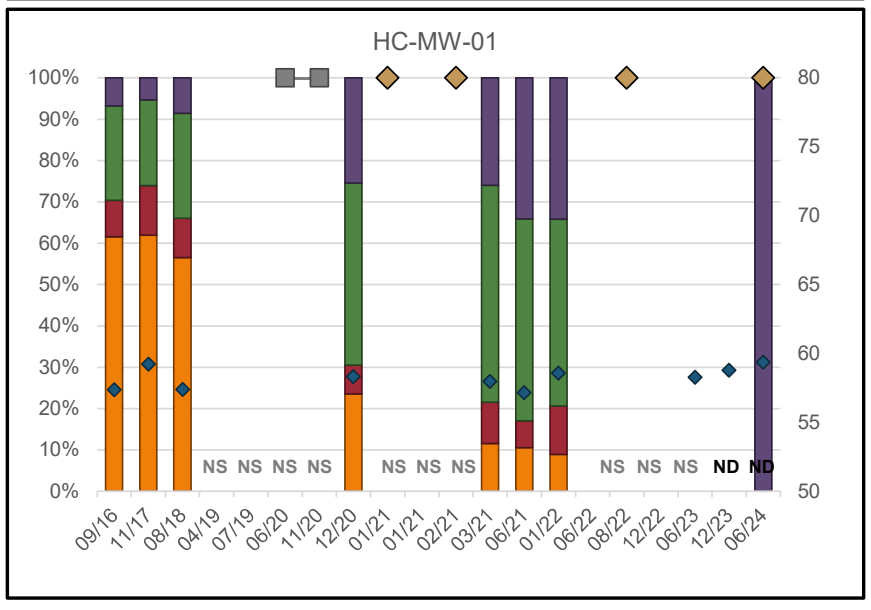


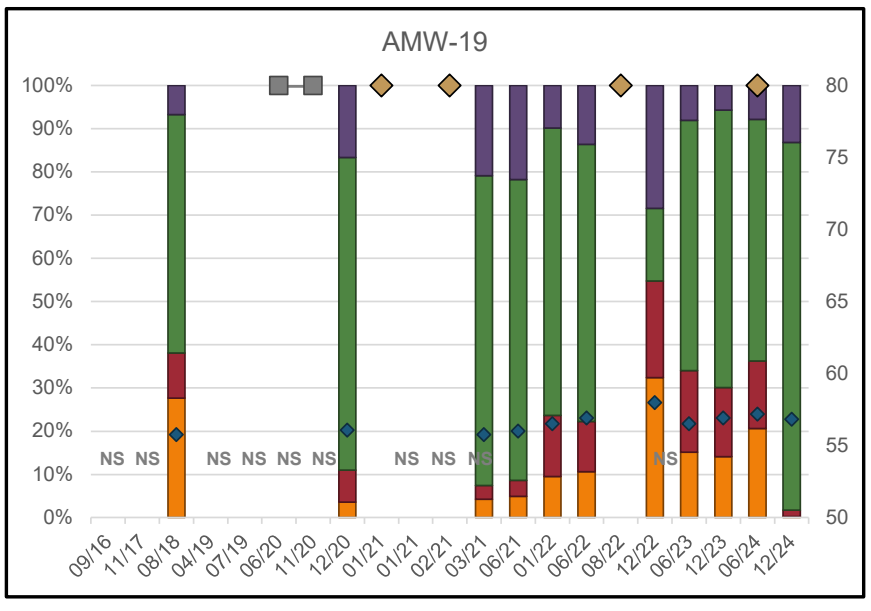












APPENDIX A

2024 ISCR Injection Logs

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-47	5/5/2024	13:20	5/5/2024	13:22	10	11	300	200	9	1.4	1.2	16	18	0	18	N	Refusal at 15'bgs. Inject double volume at each interval.
IJ-47	5/5/2024	13:24	5/5/2024	13:26	11	12	300	200	9	1.4	1.2	16	18	0	18	N	
IJ-47	5/5/2024	13:29	5/5/2024	13:31	12	13	350	270	9	1.4	1.2	16	18	0	18	N	
IJ-47	5/5/2024	13:33	5/5/2024	13:35	13	14	300	280	9	1.4	1.2	16	18	0	18	N	
IJ-47	5/5/2024	13:37	5/5/2024	13:40	14	15	300	300	9.3	1.4	1.2	16	18	10	28	N	
IJ-48	5/15/2024	10:50	5/15/2024	10:53	10	11	200	200	4.3	0.7	0.6	8	9	4	13	N	Flush line with water at start of day
IJ-48	5/15/2024	10:56	5/15/2024	10:58	11	12	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	10:59	5/15/2024	11:01	12	13	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	11:03	5/15/2024	11:06	13	14	250	200	3	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	11:09	5/15/2024	11:11	14	15	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	11:13	5/15/2024	11:14	15	16	200	100	9	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	11:18	5/15/2024	11:20	16	17	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	11:22	5/15/2024	11:24	17	18	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	11:26	5/15/2024	11:28	18	19	250	250	4.5	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	11:30	5/15/2024	11:34	19	20	300	250	2.3	0.7	0.6	8	9	0	9	N	
IJ-48	5/15/2024	11:43	5/15/2024	11:44	19	20	300	250	4	0.3	0.3	3.5	4	0	4	N	No daylighting
IJ-49	5/5/2024	12:24	5/5/2024	12:26	10	11	300	180	9	1.4	1.2	16	18	0	18	N	Refusal at 15'bgs. Inject double volume at each interval.
IJ-49	5/5/2024	12:28	5/5/2024	12:30	11	12	200	150	9	1.4	1.2	16	18	0	18	N	
IJ-49	5/5/2024	12:33	5/5/2024	12:36	12	13	350	350	6	1.4	1.2	16	18	0	18	N	Denser zone
IJ-49	5/5/2024	12:38	5/5/2024	12:41	13	14	350	350	6	1.4	1.2	16	18	0	18	Y	Daylighting observed through cracks in asphalt
IJ-49	5/5/2024	12:44	5/5/2024	12:47	14	15	150	150	6	1.4	1.2	16	18	0	18	Y	Daylighting observed through cracks in asphalt
IJ-50	5/14/2024	10:36	5/14/2024	10:38	10	11	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-50	5/14/2024	10:42	5/14/2024	10:44	11	12	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-50	5/14/2024	10:47	5/14/2024	10:48	12	13	200	200	9	0.7	0.6	8	9	0	9	N	
IJ-50	5/14/2024	10:50	5/14/2024	10:52	13	14	250	150	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed coming up through borehole
IJ-50	5/14/2024	10:58	5/14/2024	11:00	14	15	250	150	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed coming up through borehole
IJ-50	5/14/2024	11:04	5/14/2024	11:06	15	16	250	150	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed coming up through borehole
IJ-50	5/14/2024	11:14	5/14/2024	11:16	16	17	200	150	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed coming up through borehole
IJ-50	5/14/2024	11:25	5/14/2024	11:27	17	18	200	150	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed coming up through borehole
IJ-50	5/14/2024	11:34	5/14/2024	11:36	18	19	200	150	4.5	0.7	0.6	8	9	0	9	Y	
IJ-50	5/14/2024	10:40	5/14/2024	10:41	19	20	500	500	0	0	0	0	0	0	0	N	
IJ-50	5/14/2024	10:47	5/14/2024	10:49	18	19	300	200	4.5	0.7	0.6	8	9	0	9	N	Hit 500 psi attempting to inject at 19 ft bgs, double volume at 18 ft bgs

Appendix A. Injection Monitoring Log

Field Staff: ECR

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-51	5/5/2024	11:37	5/5/2024	11:39	10	11	500	100	9	1.4	1.2	16	18	0	18	N	Refusal at 15'bgs. Inject double volume at each interval.
IJ-51	5/5/2024	11:44	5/5/2024	11:46	11	12	150	150	9	1.4	1.2	16	18	0	18	N	
IJ-51	5/5/2024	11:48	5/5/2024	11:50	12	13	150	150	9	1.4	1.2	16	18	0	18	N	
IJ-51	5/5/2024	11:53	5/5/2024	11:55	13	14	150	150	9	1.4	1.2	16	18	0	18	N	
IJ-51	5/5/2024	11:58	5/5/2024	12:00	14	15	180	180	9	1.4	1.2	16	18	0	18	Y	Slight daylighting observed through cracks in asphalt
IJ-52	5/14/2024	12:13	5/14/2024	12:15	10	11	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-52	5/14/2024	12:19	5/14/2024	12:21	11	12	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-52	5/14/2024	12:23	5/14/2024	12:24	12	13	250	200	9	0.7	0.6	8	9	0	9	Y	Daylighting observed through borehole
IJ-52	5/14/2024	12:27	5/14/2024	12:29	13	14	200	200	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed through borehole
IJ-52	5/14/2024	12:32	5/14/2024	12:33	14	15	800	800	0	0	0	0	0	0	0	Y	Double volume at each interval from 10-13 and at 15 ft bgs. Hit 700 psi at 14 ft bgs - no volume injected.
IJ-52	5/14/2024	12:36	5/14/2024	12:40	15	16	250	250	4.5	1.4	1.2	15.9	18	0	18	N	
IJ-52	5/14/2024	13:15	5/14/2024	13:17	14	15	200	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-52	5/14/2024	13:21	5/14/2024	13:23	13	14	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-52	5/14/2024	13:28	5/14/2024	13:30	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-52	5/14/2024	13:33	5/14/2024	13:34	11	12	100	100	5	0.4	0.3	4.4	5	0	5	Y	
IJ-53	5/5/2024	10:20	5/5/2024	10:22	10	11	300	100	9	1.4	1.2	16	18	0	18	N	Refusal at 15'bgs. Inject double volume at each interval.
IJ-53	5/5/2024	10:28	5/5/2024	10:30	11	12	120	120	9	1.4	1.2	16	18	0	18	N	
IJ-53	5/5/2024	10:32	5/5/2024	10:34	12	13	150	150	9	1.4	1.2	16	18	0	18	N	
IJ-53	5/5/2024	10:36	5/5/2024	10:38	13	14	500	150	9	1.4	1.2	16	18	0	18	N	
IJ-53	5/5/2024	10:40	5/5/2024	10:42	14	15	200	180	9	1.4	1.2	16	18	0	18	Y	Daylighting observed through cracks in asphalt
IJ-54	5/13/2024	12:40	5/13/2024	12:43	10	11	900	900	0	0	0	0	0	0	0	N	High pressure, unable to inject at this interval
IJ-54	5/13/2024	12:46	5/13/2024	12:50	11	12	100	100	4.5	1.4	1.2	15.9	18	0	18	N	Inject double volume at this interval
IJ-54	5/13/2024	12:54	5/13/2024	12:56	12	13	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-54	5/13/2024	13:00	5/13/2024	13:02	13	14	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-54	5/13/2024	13:03	5/13/2024	13:05	14	15	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-54	5/13/2024	13:07	5/13/2024	13:08	15	16	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-54	5/13/2024	13:12	5/13/2024	13:14	16	17	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-54	5/13/2024	13:16	5/13/2024	13:18	17	18	100	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting through borehole
IJ-54	5/13/2024	13:25	5/13/2024	13:27	18	19	100	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting through borehole
IJ-54	5/13/2024	13:35	5/13/2024	13:37	19	20	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-55	5/5/2024	9:34	5/5/2024	9:36	10	11	300	100	9	1.4	1.2	16	18	0	18	N	Refusal at 15'bgs. Inject double volume at each interval.
IJ-55	5/5/2024	9:40	5/5/2024	9:42	11	12	100	100	9	1.4	1.2	16	18	0	18	N	
IJ-55	5/5/2024	9:45	5/5/2024	9:47	12	13	120	120	9	1.4	1.2	16	18	0	18	N	
IJ-55	5/5/2024	9:50	5/5/2024	9:52	13	14	120	120	9	1.4	1.2	16	18	0	18	N	
IJ-55	5/5/2024	9:54	5/5/2024	9:56	14	15	120	120	9	1.4	1.2	16	18	0	18	N	

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-56	5/13/2024	13:54	5/13/2024	13:56	10	11	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:03	5/13/2024	14:05	11	12	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:08	5/13/2024	14:10	12	13	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:13	5/13/2024	14:15	13	14	250	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:17	5/13/2024	14:18	14	15	200	100	9	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:20	5/13/2024	14:22	15	16	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:27	5/13/2024	14:28	16	17	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:30	5/13/2024	14:32	17	18	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:35	5/13/2024	14:36	18	19	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-56	5/13/2024	14:38	5/13/2024	14:40	19	20	200	150	9.5	0.7	0.6	8	9	10	19	Y	Daylighting through borehole
IJ-57	5/4/2024	15:43	5/4/2024	15:44	10	11	200	150	9	0.7	0.6	8	9	0	9	N	Refusal at 15'bgs. Inject double volume at each previous interval while pulling up.
IJ-57	5/4/2024	15:48	5/4/2024	15:49	11	12	200	150	9	0.7	0.6	8	9	0	9	N	Surfacing through borehole
IJ-57	5/4/2024	15:51	5/4/2024	15:53	12	13	500	180	9	1.4	1.2	15.9	18	0	18	Y	Surfacing through borehole
IJ-57	5/4/2024	15:55	5/4/2024	15:57	13	14	400	180	9	1.4	1.2	15.9	18	0	18	Y	Surfacing through borehole
IJ-57	5/4/2024	16:00	5/4/2024	16:02	14	15	400	200	9	1.4	1.2	15.9	18	0	18	Y	Surfacing through borehole
IJ-57	5/4/2024	16:05	5/4/2024	16:07	15	16	200	150	9	1.4	1.2	15.9	18	0	18	Y	Surfacing through borehole
IJ-58	5/15/2024	13:20	5/15/2024	13:22	10	11	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:25	5/15/2024	13:27	11	12	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:29	5/15/2024	13:31	12	13	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:32	5/15/2024	13:33	13	14	150	150	9	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:35	5/15/2024	13:37	14	15	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:38	5/15/2024	13:40	15	16	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:43	5/15/2024	13:44	16	17	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:46	5/15/2024	13:47	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:49	5/15/2024	13:51	18	19	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-58	5/15/2024	13:53	5/15/2024	13:55	19	20	150	100	7.5	0.7	0.6	8	9	6	15	N	No daylighting observed
IJ-59	5/4/2024	14:04	5/4/2024	14:06	10	11	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-59	5/4/2024	14:11	5/4/2024	14:13	11	12	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-59	5/4/2024	14:15	5/4/2024	14:17	12	13	100	100	4.5	0.7	0.6	8	9	0	9	Y	Slight daylighting observed at 14:20
IJ-59	5/4/2024	14:22	5/4/2024	14:24	13	14	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-59	5/4/2024	14:26	5/4/2024	14:28	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-59	5/4/2024	14:33	5/4/2024	14:35	15	16	400	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-59	5/4/2024	14:37	5/4/2024	14:40	16	17	700	700	0	0	0	0	0	0	0	N	
IJ-59	5/4/2024	14:45	5/4/2024	14:46	17	18	700	700	0	0	0	0	0	0	0	N	Achieved 700 psi, drill to 17' bgs to attempt to pump there, unsuccessful, pull up to double volume at other intervals
IJ-59	5/4/2024	15:06	5/4/2024	15:08	15	16	100	100	4.5	0.7	0.6	8	9	0	9	Y	
IJ-59	5/4/2024	12:00	5/4/2024	15:12	14	15	100	100	0	0.7	0.6	8	9	0	9	N	
IJ-59	5/4/2024	15:14	5/4/2024	15:16	13	14	100	100	4.5	0.7	0.6	8	9	0	9	Y	Surfacing observed coming through borehole

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-60	5/15/2024	12:25	5/15/2024	12:27	10	11	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-60	5/15/2024	12:30	5/15/2024	12:32	11	12	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-60	5/15/2024	12:34	5/15/2024	12:36	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-60	5/15/2024	12:38	5/15/2024	12:39	13	14	150	150	9	0.7	0.6	8	9	0	9	N	
IJ-60	5/15/2024	12:41	5/15/2024	12:43	14	15	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-60	5/15/2024	12:45	5/15/2024	12:47	15	16	250	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-60	5/15/2024	12:52	5/15/2024	12:54	16	17	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-60	5/15/2024	12:57	5/15/2024	12:59	17	18	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-60	5/15/2024	13:01	5/15/2024	13:02	18	19	600	600	0	0	0	0	0	0	0	N	No volume injected at this interval
IJ-60	5/15/2024	13:04	5/15/2024	13:08	19	20	150	100	4.5	1.4	1.2	15.9	18	0	18	N	
IJ-61	5/4/2024	12:25	5/4/2024	12:26	10	11	200	100	9	0.7	0.6	8	9	0	9	N	Begin injections at 12:24
IJ-61	5/4/2024	12:30	5/4/2024	12:31	11	12	120	120	9	0.7	0.6	8	9	0	9	N	
IJ-61	5/4/2024	12:34	5/4/2024	12:36	12	13	80	80	4.5	0.7	0.6	8	9	0	9	N	
IJ-61	5/4/2024	12:42	5/4/2024	12:44	13	14	80	80	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed coming through preferential pathways (cracks in asphalt) downgradient of injection point
IJ-61	5/4/2024	13:18	5/4/2024	13:20	14	15	80	80	4.5	0.7	0.6	8	9	0	9	Y	
IJ-61	5/4/2024	13:24	5/4/2024	13:25	15	16	80	80	9	0.7	0.6	8	9	0	9	Y	
IJ-61	5/4/2024	13:29	5/4/2024	13:31	16	17	50	50	4.5	0.7	0.6	8	9	0	9	Y	
IJ-61	5/4/2024	13:34	5/4/2024	13:36	17	18	60	60	4.5	0.7	0.6	8	9	0	9	Y	
IJ-61	5/4/2024	13:38	5/4/2024	13:40	18	19	50	50	4.5	0.7	0.6	8	9	0	9	Y	
IJ-61	5/4/2024	13:42	5/4/2024	13:44	19	20	50	50	4.5	0.7	0.6	8	9	0	9	Y	
IJ-62	5/16/2024	12:37	5/16/2024	12:39	10	11	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	12:42	5/16/2024	12:44	11	12	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	12:44	5/16/2024	12:46	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	12:48	5/16/2024	12:50	13	14	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	12:51	5/16/2024	12:53	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	12:54	5/16/2024	12:56	15	16	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	12:59	5/16/2024	13:01	16	17	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	13:02	5/16/2024	13:05	17	18	150	150	3	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	13:07	5/16/2024	13:09	18	19	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-62	5/16/2024	13:12	5/16/2024	13:13	19	20	600	600	0	0	0	0	0	0	0	Y	No volume injected at 19-20 ft bgs. Double volume at 18 ft bgs.
IJ-62	5/16/2024	13:15	5/16/2024	13:19	18	19	150	150	3.8	0.7	0.6	8	9	6	15	N	Hose connection broken at first lift, gravity feed

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-63	5/4/2024	11:00	5/4/2024	11:02	10	11	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-63	5/4/2024	11:20	5/4/2024	11:21	11	12	200	100	9	0.7	0.6	8	9	0	9	N	
IJ-63	5/4/2024	11:22	5/4/2024	11:23	12	13	100	100	9	0.7	0.6	8	9	0	9	Y	Begin observing daylighting through cracks in asphalt, Cascade to vac daylighting fluid
IJ-63	5/4/2024	11:25	5/4/2024	11:26	13	14	120	120	9	0.7	0.6	8	9	0	9	Y	
IJ-63	5/4/2024	11:32	5/4/2024	11:34	14	15	80	80	4.5	0.7	0.6	8	9	0	9	Y	
IJ-63	5/4/2024	11:37	5/4/2024	11:38	15	16	120	100	9	0.7	0.6	8	9	0	9	Y	
IJ-63	5/4/2024	11:46	5/4/2024	11:47	16	17	120	120	9	0.7	0.6	8	9	0	9	Y	
IJ-63	5/4/2024	11:49	5/4/2024	11:50	17	18	120	120	9	0.7	0.6	8	9	0	9	Y	
IJ-63	5/4/2024	11:57	5/4/2024	11:58	18	19	120	120	9	0.7	0.6	8	9	0	9	Y	
IJ-63	5/4/2024	12:07	5/4/2024	12:08	19	20	120	120	9	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	10:38	5/16/2024	10:40	10	11	150	100	7.5	0.7	0.6	8	9	6	15	N	
IJ-64	5/16/2024	10:44	5/16/2024	10:45	11	12	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	10:46	5/16/2024	10:48	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	10:49	5/16/2024	10:51	13	14	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	10:52	5/16/2024	10:54	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	10:54	5/16/2024	10:56	15	16	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	10:59	5/16/2024	11:00	16	17	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	11:02	5/16/2024	11:04	17	18	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	11:08	5/16/2024	11:10	18	19	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-64	5/16/2024	11:11	5/16/2024	11:13	19	20	150	100	4.5	0.7	0.6	8	9	0	9	N	No daylighting observed
IJ-65	5/16/2024	11:25	5/16/2024	11:26	10	11	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	11:39	5/16/2024	11:41	11	12	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	11:42	5/16/2024	11:43	12	13	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	11:44	5/16/2024	11:45	13	14	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	11:46	5/16/2024	11:48	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	11:49	5/16/2024	11:50	15	16	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	11:55	5/16/2024	11:56	16	17	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	11:57	5/16/2024	11:59	17	18	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	12:00	5/16/2024	12:02	18	19	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-65	5/16/2024	12:03	5/16/2024	12:05	19	20	200	100	4.5	0.7	0.6	8	9	0	9	N	No daylighting observed
IJ-66	5/6/2024	14:10	5/6/2024	14:11	10	11	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:14	5/6/2024	14:15	11	12	120	100	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:16	5/6/2024	14:17	12	13	120	100	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:20	5/6/2024	14:21	13	14	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:22	5/6/2024	14:23	14	15	150	150	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:25	5/6/2024	14:26	15	16	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:31	5/6/2024	14:32	16	17	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:33	5/6/2024	14:34	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:35	5/6/2024	14:36	18	19	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-66	5/6/2024	14:39	5/6/2024	14:41	19	20	150	100	9.5	0.7	0.6	8	9	10	19	N	

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-67	5/6/2024	13:10	5/6/2024	13:11	10	11	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-67	5/6/2024	13:17	5/6/2024	13:18	11	12	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-67	5/6/2024	13:19	5/6/2024	13:20	12	13	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-67	5/6/2024	13:22	5/6/2024	13:23	13	14	150	100	9	0.7	0.6	8	9	0	9	Y	Daylighting from borehole
IJ-67	5/6/2024	13:25	5/6/2024	13:26	14	15	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-67	5/6/2024	13:28	5/6/2024	13:29	15	16	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-67	5/6/2024	13:33	5/6/2024	13:34	16	17	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-67	5/6/2024	13:37	5/6/2024	13:38	17	18	800	800	0	0	0	0	0	0	0	N	High PSI this interval, couldn't inject
IJ-67	5/6/2024	13:44	5/6/2024	13:46	18	19	150	150	9	1.4	1.2	15.9	18	0	18	N	Double volume at this interval
IJ-67	5/6/2024	13:50	5/6/2024	13:51	19	20	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	11:13	5/6/2024	11:14	10	11	100	80	9	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	11:18	5/6/2024	11:19	11	12	100	80	9	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	11:36	5/6/2024	11:38	12	13	100	80	4.5	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	11:39	5/6/2024	11:40	13	14	100	80	9	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	11:42	5/6/2024	11:44	14	15	100	80	4.5	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	11:50	5/6/2024	11:52	15	16	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	11:57	5/6/2024	11:58	16	17	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	12:01	5/6/2024	12:02	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-68	5/6/2024	12:05	5/6/2024	12:06	18	19	150	100	9	0.7	0.6	8	9	0	9	Y	Daylighting through borehole
IJ-68	5/6/2024	12:11	5/6/2024	12:13	19	20	150	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting through borehole
IJ-69	5/6/2024	10:03	5/6/2024	10:05	10	11	300	250	4.5	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:08	5/6/2024	10:10	11	12	350	300	4.5	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:12	5/6/2024	10:14	12	13	400	350	4.5	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:15	5/6/2024	10:17	13	14	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:20	5/6/2024	10:22	14	15	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:24	5/6/2024	10:26	15	16	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:29	5/6/2024	10:31	16	17	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:33	5/6/2024	10:34	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:39	5/6/2024	10:41	18	19	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-69	5/6/2024	10:44	5/6/2024	10:46	19	20	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-70	5/3/2024	15:31	5/3/2024	15:32	10	11	150	120	9	0.7	0.6	8	9	0	9	N	No initial 10 gallon flush, partially inject well on 5/3/24, to complete on 5/4/24
IJ-70	5/3/2024	15:37	5/3/2024	15:38	11	12	100	60	9	0.7	0.6	8	9	0	9	N	
IJ-70	5/3/2024	15:41	5/3/2024	15:42	12	13	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-70	5/3/2024	15:46	5/3/2024	15:47	13	14	200	100	9	0.7	0.6	8	9	0	9	N	
IJ-70	5/3/2024	15:50	5/3/2024	15:51	14	15	200	100	19	0.7	0.6	8	9	10	19	N	
IJ-70	5/4/2024	9:15	5/4/2024	9:16	15	16	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-70	5/4/2024	9:20	5/4/2024	9:21	16	17	300	180	9	0.7	0.6	8	9	0	9	N	
IJ-70	5/4/2024	9:24	5/4/2024	9:25	17	18	300	180	9	0.7	0.6	8	9	0	9	N	
IJ-70	5/4/2024	9:27	5/4/2024	9:28	18	19	400	180	9	0.7	0.6	8	9	0	9	N	
IJ-70	5/4/2024	9:34	5/4/2024	9:35	19	20	200	150	9	0.7	0.6	8	9	0	9	N	

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-71	5/3/2024	14:06	5/3/2024	14:07	10	11	100	100	9	0.7	0.6	8	9	0	9	N	Troubleshooting leak with flush water, high pressure gauge unable to read low level pressures
IJ-71	5/3/2024	14:10	5/3/2024	14:11	11	12	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-71	5/3/2024	14:17	5/3/2024	14:19	12	13	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-71	5/3/2024	14:23	5/3/2024	14:24	13	14	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-71	5/3/2024	14:27	5/3/2024	14:28	14	15	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-71	5/3/2024	14:30	5/3/2024	14:31	15	16	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-71	5/3/2024	14:40	5/3/2024	14:42	16	17	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-71	5/3/2024	14:45	5/3/2024	14:46	17	18	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-71	5/3/2024	14:50	5/3/2024	14:51	18	19	100	100	9	0.7	0.6	8	9	0	9	N	Reach up to 100 psi to break through compaction in soil
IJ-71	5/3/2024	14:55	5/3/2024	14:57	19	20	100	100	9.5	0.7	0.6	8	9	10	19	N	
IJ-72	5/16/2024	15:22	5/16/2024	15:23	10	11	200	100	9	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	15:29	5/16/2024	15:31	11	12	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	15:32	5/16/2024	15:34	12	13	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	15:38	5/16/2024	15:40	13	14	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	15:41	5/16/2024	15:43	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	15:45	5/16/2024	15:47	15	16	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	15:50	5/16/2024	15:52	16	17	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	15:54	5/16/2024	15:55	17	18	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	15:57	5/16/2024	15:59	18	19	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-72	5/16/2024	16:00	5/16/2024	16:02	19	20	100	100	9.5	0.7	0.6	8	9	10	19	N	No daylighting observed
IJ-73	5/17/2024	9:41	5/17/2024	9:42	10	11	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	9:46	5/17/2024	9:48	11	12	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	9:50	5/17/2024	9:52	12	13	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	9:53	5/17/2024	9:55	13	14	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	9:56	5/17/2024	9:58	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	9:59	5/17/2024	10:01	15	16	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	10:04	5/17/2024	10:06	16	17	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	10:07	5/17/2024	10:09	17	18	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	10:11	5/17/2024	10:13	18	19	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-73	5/17/2024	10:14	5/17/2024	10:16	19	20	100	100	4.5	0.7	0.6	8	9	0	9	N	No daylighting observed
IJ-74	5/17/2024	8:39	5/17/2024	8:41	10	11	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	8:45	5/17/2024	8:46	11	12	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	8:48	5/17/2024	8:50	12	13	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	8:51	5/17/2024	8:53	13	14	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	8:54	5/17/2024	8:56	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	8:58	5/17/2024	9:00	15	16	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	9:05	5/17/2024	9:06	16	17	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	9:09	5/17/2024	9:10	17	18	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	9:12	5/17/2024	9:14	18	19	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-74	5/17/2024	9:15	5/17/2024	9:17	19	20	100	100	4.5	0.7	0.6	8	9	0	9	N	No daylighting observed

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-75	5/17/2024	10:35	5/17/2024	10:36	10	11	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	10:39	5/17/2024	10:41	11	12	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	10:42	5/17/2024	10:44	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	10:46	5/17/2024	10:47	13	14	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	10:50	5/17/2024	10:52	14	15	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	10:54	5/17/2024	10:56	15	16	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	11:00	5/17/2024	11:01	16	17	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	11:05	5/17/2024	11:06	17	18	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	11:08	5/17/2024	11:09	18	19	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-75	5/17/2024	11:10	5/17/2024	11:12	19	20	100	100	4.5	0.7	0.6	8	9	0	9	N	No daylighting observed
IJ-76	5/17/2024	11:28	5/17/2024	11:30	10	11	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	11:34	5/17/2024	11:36	11	12	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	11:40	5/17/2024	11:41	12	13	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	11:43	5/17/2024	11:44	13	14	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	11:45	5/17/2024	11:47	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	11:48	5/17/2024	11:50	15	16	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	11:55	5/17/2024	11:56	16	17	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	11:57	5/17/2024	11:58	17	18	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	11:59	5/17/2024	12:01	18	19	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-76	5/17/2024	12:03	5/17/2024	12:05	19	20	100	100	4.5	0.7	0.6	8	9	0	9	N	No daylighting observed
IJ-77	5/17/2024	12:38	5/17/2024	12:40	10	11	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	12:46	5/17/2024	12:48	11	12	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	12:49	5/17/2024	12:50	12	13	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	12:51	5/17/2024	12:53	13	14	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	12:54	5/17/2024	12:56	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	12:58	5/17/2024	12:59	15	16	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	13:03	5/17/2024	13:04	16	17	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	13:05	5/17/2024	13:06	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	13:08	5/17/2024	13:09	18	19	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-77	5/17/2024	13:11	5/17/2024	13:13	19	20	100	100	4.5	0.7	0.6	8	9	0	9	N	No daylighting observed
IJ-78	5/17/2024	13:31	5/17/2024	13:33	10	11	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:37	5/17/2024	13:38	11	12	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:39	5/17/2024	13:40	12	13	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:42	5/17/2024	13:43	13	14	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:44	5/17/2024	13:45	14	15	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:46	5/17/2024	13:48	15	16	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:50	5/17/2024	13:52	16	17	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:53	5/17/2024	13:54	17	18	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:55	5/17/2024	13:56	18	19	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-78	5/17/2024	13:58	5/17/2024	14:00	19	20	150	100	9.5	0.7	0.6	8	9	10	19	N	No daylighting observed

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-79	5/22/2024	8:36	5/22/2024	8:38	10	11	200	150	7.5	0.7	0.6	8	9	6	15	N	
IJ-79	5/22/2024	8:43	5/22/2024	8:45	11	12	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-79	5/22/2024	8:49	5/22/2024	8:51	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-79	5/22/2024	8:52	5/22/2024	8:54	13	14	250	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-79	5/22/2024	8:55	5/22/2024	8:57	14	15	200	150	4.5	0.7	0.6	8	9	0	9	Y	Daylighting via cracks in sidewalk/parking lot
IJ-79	5/22/2024	9:04	5/22/2024	9:06	15	16	200	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting via cracks in sidewalk/parking lot
IJ-79	5/22/2024	9:11	5/22/2024	9:13	16	17	100	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting via cracks in sidewalk/parking lot; daylighting slows
IJ-79	5/22/2024	9:15	5/22/2024	9:17	17	18	100	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting via cracks in sidewalk/parking lot; daylighting slows to a trickle
IJ-79	5/22/2024	9:19	5/22/2024	9:21	18	19	100	100	4.5	0.7	0.6	8	9	0	9	Y	Double volume at this interval, pressure when injecting at 19ft bgs reached 800 psi, pressure too high to continue injecting
IJ-79	5/22/2024	9:25	5/22/2024	9:26	19	20	800	800	0	0	0	0	0	0	0	N	
IJ-79	5/22/2024	9:28	5/22/2024	9:30	18	19	150	100	4.5	0.7	0.6	8	9	0	9	N	Double volume at this interval, pressure when injecting at 19ft bgs reached 800 psi, pressure too high to continue injecting
IJ-80	5/20/2024	11:24	5/20/2024	11:26	10	11	150	100	7.5	0.7	0.6	8	9	6	15	N	Injected flush water before injectate
IJ-80	5/20/2024	11:31	5/20/2024	11:34	11	12	100	100	3	0.7	0.6	8	9	0	9	N	
IJ-80	5/20/2024	11:36	5/20/2024	11:38	12	13	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-80	5/20/2024	11:40	5/20/2024	11:41	13	14	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-80	5/20/2024	11:44	5/20/2024	11:46	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-80	5/20/2024	11:49	5/20/2024	11:50	15	16	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-80	5/20/2024	11:54	5/20/2024	11:56	16	17	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-80	5/20/2024	11:58	5/20/2024	11:59	17	18	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-80	5/20/2024	12:01	5/20/2024	12:03	18	19	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-80	5/20/2024	12:04	5/20/2024	12:06	19	20	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:25	5/20/2024	12:27	10	11	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:32	5/20/2024	12:34	11	12	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:37	5/20/2024	12:39	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:41	5/20/2024	12:43	13	14	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:44	5/20/2024	12:46	14	15	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:47	5/20/2024	12:48	15	16	200	100	9	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:53	5/20/2024	12:54	16	17	250	100	9	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:56	5/20/2024	12:57	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	12:59	5/20/2024	13:01	18	19	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-81	5/20/2024	13:03	5/20/2024	13:05	19	20	250	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	13:31	5/20/2024	13:33	10	11	250	150	4.5	0.7	0.6	8	9	0	9	N	

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-82	5/20/2024	13:37	5/20/2024	13:38	11	12	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	13:41	5/20/2024	13:43	12	13	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	13:44	5/20/2024	13:46	13	14	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	13:48	5/20/2024	13:50	14	15	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	13:52	5/20/2024	13:54	15	16	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	13:58	5/20/2024	14:00	16	17	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	14:03	5/20/2024	14:04	17	18	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	14:07	5/20/2024	14:09	18	19	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-82	5/20/2024	14:11	5/20/2024	14:12	19	20	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	15:49	5/20/2024	15:50	10	11	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	15:53	5/20/2024	15:55	11	12	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	15:56	5/20/2024	15:58	12	13	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	16:00	5/20/2024	16:01	13	14	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	16:03	5/20/2024	16:05	14	15	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	16:07	5/20/2024	16:08	15	16	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	16:11	5/20/2024	16:13	16	17	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	16:15	5/20/2024	16:16	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	16:18	5/20/2024	16:20	18	19	100	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-83	5/20/2024	16:21	5/20/2024	16:24	19	20	200	200	6.3	0.7	0.6	8	9	10	19	N	End of day line flush
IJ-84	5/20/2024	14:49	5/20/2024	15:51	10	11	150	100	0.1	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	14:55	5/20/2024	14:57	11	12	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	14:59	5/20/2024	15:00	12	13	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	15:02	5/20/2024	15:04	13	14	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	15:07	5/20/2024	15:09	14	15	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	15:10	5/20/2024	15:12	15	16	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	15:17	5/20/2024	15:19	16	17	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	15:20	5/20/2024	15:22	17	18	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	15:24	5/20/2024	15:26	18	19	100	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-84	5/20/2024	15:29	5/20/2024	15:31	19	20	250	200	4.5	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:05	5/21/2024	9:06	10	11	100	100	15	0.7	0.6	8	9	6	15	N	Flush water before injecting
IJ-85	5/21/2024	9:11	5/21/2024	9:12	11	12	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:13	5/21/2024	9:15	12	13	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:16	5/21/2024	9:17	13	14	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:19	5/21/2024	9:20	14	15	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:22	5/21/2024	9:23	15	16	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:27	5/21/2024	9:28	16	17	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:30	5/21/2024	9:31	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:32	5/21/2024	9:33	18	19	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-85	5/21/2024	9:35	5/21/2024	9:36	19	20	200	150	9	0.7	0.6	8	9	0	9	N	

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-86	5/21/2024	10:09	5/21/2024	10:10	10	11	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:14	5/21/2024	10:16	11	12	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:21	5/21/2024	10:23	12	13	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:25	5/21/2024	10:27	13	14	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:28	5/21/2024	10:29	14	15	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:32	5/21/2024	10:33	15	16	200	100	9	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:37	5/21/2024	10:39	16	17	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:40	5/21/2024	10:42	17	18	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:43	5/21/2024	10:44	18	19	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-86	5/21/2024	10:46	5/21/2024	10:47	19	20	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	12:51	5/21/2024	12:53	10	11	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	12:57	5/21/2024	12:58	11	12	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	13:00	5/21/2024	13:02	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	13:04	5/21/2024	13:05	13	14	150	150	9	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	13:07	5/21/2024	13:08	14	15	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	13:09	5/21/2024	13:10	15	16	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	13:14	5/21/2024	13:15	16	17	150	150	9	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	13:16	5/21/2024	13:17	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	13:19	5/21/2024	13:20	18	19	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-87	5/21/2024	13:22	5/21/2024	13:23	19	20	100	100	9	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	11:47	5/21/2024	11:49	10	11	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	11:55	5/21/2024	11:57	11	12	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	12:00	5/21/2024	12:02	12	13	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	12:05	5/21/2024	12:07	13	14	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	12:09	5/21/2024	12:11	14	15	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	12:12	5/21/2024	12:14	15	16	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	12:17	5/21/2024	12:19	16	17	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	12:21	5/21/2024	12:22	17	18	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	12:24	5/21/2024	12:26	18	19	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-88	5/21/2024	12:27	5/21/2024	12:28	19	20	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	13:48	5/21/2024	13:50	10	11	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	13:55	5/21/2024	13:57	11	12	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	13:58	5/21/2024	14:00	12	13	100	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	14:01	5/21/2024	14:03	13	14	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	14:06	5/21/2024	14:08	14	15	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	14:10	5/21/2024	14:12	15	16	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	14:15	5/21/2024	14:17	16	17	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	14:19	5/21/2024	14:21	17	18	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	14:23	5/21/2024	14:24	18	19	150	150	9	0.7	0.6	8	9	0	9	N	
IJ-89	5/21/2024	14:26	5/21/2024	14:28	19	20	200	150	4.5	0.7	0.6	8	9	0	9	N	

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-90	5/21/2024	14:46	5/21/2024	14:47	10	11	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	14:53	5/21/2024	14:54	11	12	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	14:59	5/21/2024	15:01	12	13	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	15:03	5/21/2024	15:05	13	14	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	15:07	5/21/2024	15:09	14	15	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	15:11	5/21/2024	15:13	15	16	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	15:18	5/21/2024	15:20	16	17	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	15:22	5/21/2024	15:24	17	18	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	15:27	5/21/2024	15:29	18	19	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-90	5/21/2024	15:32	5/21/2024	15:34	19	20	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	15:54	5/21/2024	15:55	10	11	200	150	9	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:02	5/21/2024	16:04	11	12	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:07	5/21/2024	16:09	12	13	250	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:11	5/21/2024	16:13	13	14	200	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:15	5/21/2024	16:17	14	15	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:19	5/21/2024	16:21	15	16	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:24	5/21/2024	16:25	16	17	150	100	9	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:26	5/21/2024	16:28	17	18	150	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:29	5/21/2024	16:31	18	19	150	150	4.5	0.7	0.6	8	9	0	9	N	
IJ-91	5/21/2024	16:33	5/21/2024	16:35	19	20	100	100	4.5	0.7	0.6	8	9	0	9	N	End of day line flush
IJ-92	5/22/2024	15:25	5/22/2024	15:27	10	11	150	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed through cracks and trenchs in the asphalt
IJ-92	5/22/2024	15:33	5/22/2024	15:35	11	12	100	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed through cracks and trenchs in the asphalt
IJ-92	5/22/2024	15:43	5/22/2024	16:45	12	13	100	100	0.1	0.7	0.6	8	9	0	9	Y	Daylighting observed through cracks and trenchs in the asphalt
IJ-92	5/22/2024	15:52	5/22/2024	15:54	13	14	150	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed through cracks and trenchs in the asphalt
IJ-92	5/22/2024	15:59	5/22/2024	16:01	14	15	100	100	4.5	0.7	0.6	8	9	0	9	Y	
IJ-92	5/22/2024	16:06	5/22/2024	16:10	15	16	150	100	2.2	0.7	0.6	8	9	0	9	Y	
IJ-92	5/22/2024	16:15	5/22/2024	16:17	16	17	150	100	4.5	0.7	0.6	8	9	0	9	Y	
IJ-92	5/22/2024	16:18	5/22/2024	16:20	17	18	150	100	4.5	0.7	0.6	8	9	0	9	N	Daylighting has stopped
IJ-92	5/22/2024	16:24	5/22/2024	16:26	18	19	100	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-92	5/22/2024	16:28	5/22/2024	16:31	19	20	100	100	6.3	0.7	0.6	8	9	10	19	N	End of day line flush

Appendix A. Injection Monitoring Log

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Field Staff: ECR

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-93	5/22/2024	10:16	5/22/2024	10:17	10	11	250	100	9	0.7	0.6	8	9	0	9	N	
IJ-93	5/22/2024	10:20	5/22/2024	10:21	11	12	200	100	9	0.7	0.6	8	9	0	9	N	
IJ-93	5/22/2024	10:22	5/22/2024	10:24	12	13	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-93	5/22/2024	10:26	5/22/2024	10:28	13	14	200	100	4.5	0.7	0.6	8	9	0	9	N	
IJ-93	5/22/2024	10:30	5/22/2024	10:31	14	15	150	100	9	0.7	0.6	8	9	0	9	Y	Daylighting through nearby cracks and coming up through borehole
IJ-93	5/22/2024	10:34	5/22/2024	10:36	15	16	150	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting through nearby cracks and coming up through borehole
IJ-93	5/22/2024	10:42	5/22/2024	10:44	16	17	150	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting through nearby cracks and coming up through borehole
IJ-93	5/22/2024	10:47	5/22/2024	10:49	17	18	150	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting through nearby cracks and coming up through borehole
IJ-93	5/22/2024	10:51	5/22/2024	10:53	18	19	100	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting slows to a trickle
IJ-93	5/22/2024	10:57	5/22/2024	10:59	19	20	100	100	4.5	0.7	0.6	8	9	0	9	Y	
IJ-94	5/22/2024	11:32	5/22/2024	11:33	10	11	150	100	9	0.7	0.6	8	9	0	9	Y	Significant daylighting observed
IJ-94	5/22/2024	11:40	5/22/2024	11:41	11	12	0	0	0	0	0	0	0	0	0	N	Skip 11 ft bgs interval, slowing injection flow rate and skipping 11 ft bgs interval reduced daylighting
IJ-94	5/22/2024	11:46	5/22/2024	11:51	12	13	100	100	1.4	0.5	0.5	6.2	7	0	7	N	
IJ-94	5/22/2024	11:54	5/22/2024	11:58	13	14	100	100	2.8	0.8	0.7	9.7	11	0	11	N	
IJ-94	5/22/2024	12:00	5/22/2024	12:08	14	15	100	100	1.1	0.7	0.6	8	9	0	9	N	
IJ-94	5/22/2024	12:10	5/22/2024	12:15	15	16	100	50	1.8	0.7	0.6	8	9	0	9	Y	Slow daylighting observed through spots in asphalt
IJ-94	5/22/2024	12:19	5/22/2024	12:28	16	17	100	50	1	0.7	0.6	8	9	0	9	Y	increased daylighting observed coming up through borehole
IJ-94	5/22/2024	12:31	5/22/2024	12:35	17	18	100	50	2.3	0.7	0.6	8	9	0	9	Y	Increased daylighting while injecting at 17 ft bgs
IJ-94	5/22/2024	12:46	5/22/2024	12:49	18	19	100	50	3	0.7	0.6	8	9	0	9	Y	Double volume at 19 ft bgs
IJ-94	5/22/2024	12:51	5/22/2024	13:10	19	20	100	50	0.9	1.4	1.2	15.9	18	0	18	Y	Daylighting observed through cracks in asphalt, and spine between new sidewalk

Appendix A. Injection Monitoring Log

Field Staff: ECR

Project #AS160324, Mount Baker Properties Site, Seattle, WA

Injection Point ID	Start		End		Injection Lift (ft bgs)		Injection Pressure (PSI)		Average Flow Rate (gpm)	Injection Mix			Injected Volume (gal)			Surfacing	Notes
	Date	Time	Date	Time	Top	Bottom	Initial	Sustained		SMZVI (gal)	3DME (gal)	Water (gal)	Mixture	Flush Water	Total		
IJ-95	5/22/2024	13:45	5/22/2024	13:47	10	11	200	100	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed through cracks in asphalt, and spine between new sidewalk
IJ-95	5/22/2024	13:53	5/22/2024	14:03	11	12	100	50	0.9	0.7	0.6	8	9	0	9	Y	Daylighting observed through cracks in asphalt, and spine between new sidewalk
IJ-95	5/22/2024	14:05	5/22/2024	2:09 PM	12	13	100	50	2.3	0.7	0.6	8	9	0	9	Y	Daylighting observed through cracks in asphalt, and spine between new sidewalk
IJ-95	5/22/2024	14:11	5/22/2024	14:15	13	14	100	50	2.3	0.7	0.6	8	9	0	9	Y	
IJ-95	5/22/2024	-	5/22/2024	-	14	15	0	0	0	0	0	0	0	0	0	Y	Skip injections at 14 and 15 ft bgs due to daylighting issues
IJ-95	5/22/2024	-	5/22/2024	-	15	16	0	0	0	0	0	0	0	0	0	Y	Skip injections at 14 and 15 ft bgs due to daylighting issues
IJ-95	5/22/2024	14:26	5/22/2024	14:28	16	17	100	50	4.5	0.7	0.6	8	9	0	9	Y	
IJ-95	5/22/2024	14:33	5/22/2024	14:35	17	18	100	50	4.5	0.7	0.6	8	9	0	9	Y	Daylighting observed coming through cracks and through IJ-94
IJ-95	5/22/2024	14:36	5/22/2024	14:44	18	19	100	50	2.2	1.4	1.2	15.9	18	0	18	Y	Double volume at 18 ft bgs, and daylighting observed coming up through cracks in asphalt and IJ-94
IJ-95	5/22/2024	14:46	5/22/2024	14:54	19	20	100	50	3.5	1.4	1.2	15.9	18	10	28	Y	Double volume at 19 ft bgs, and daylighting observed coming up through cracks in asphalt and IJ-94

APPENDIX B

Laboratory Analytical Reports & Chromatography Results

3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Aspect Consulting
Andrew Yonkofski
710 2nd Ave, Suite 550
Seattle, WA 98104

RE: Maddux, AS160324N
Work Order Number: 2412118

December 16, 2024

Attention Andrew Yonkofski:

Fremont Analytical, Inc, an Alliance Technical Group company, received 24 sample(s) on 12/6/2024 for the analyses presented in the following report.

Diesel & Oil by NWTPH-Dx with Silica Gel Treatment
Diesel and Heavy Oil by NWTPH-Dx
Dissolved Gases by RSK-175
Dissolved Metals by EPA 6020B
Ion Chromatography by EPA 300.0
Total Alkalinity by EPA 310.2
Total Organic Carbon by SM 5310C
Volatile Organic Compounds by EPA 8260D

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Brianna Barnes
Project Manager

CC:
Hannah Cohen
Marc Chalfant

Date: *12/16/2024*

CLIENT: Aspect Consulting
Project: Maddux
Work Order: 2412118

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2412118-001	AMW-06-20241205	12/05/2024 1:50 PM	12/06/2024 1:56 PM
2412118-002	AMW-11-20241204	12/04/2024 2:18 PM	12/06/2024 1:56 PM
2412118-003	AMW-15-20241205	12/05/2024 9:10 AM	12/06/2024 1:56 PM
2412118-004	AMW-16-20241205	12/05/2024 10:25 AM	12/06/2024 1:56 PM
2412118-005	AMW-17-20241206	12/06/2024 11:00 AM	12/06/2024 1:56 PM
2412118-006	AMW-18-20241204	12/04/2024 1:45 PM	12/06/2024 1:56 PM
2412118-007	AMW-19-20241205	12/05/2024 2:55 PM	12/06/2024 1:56 PM
2412118-008	AMW-20-20241205	12/05/2024 12:35 PM	12/06/2024 1:56 PM
2412118-009	AMW-22-20241204	12/04/2024 2:10 PM	12/06/2024 1:56 PM
2412118-010	AMW-23-20241204	12/04/2024 3:32 PM	12/06/2024 1:56 PM
2412118-011	AMW-24-20241205	12/05/2024 8:45 AM	12/06/2024 1:56 PM
2412118-012	AMW-25-20241204	12/04/2024 3:10 PM	12/06/2024 1:56 PM
2412118-013	AMW-26-20241205	12/05/2024 10:55 AM	12/06/2024 1:56 PM
2412118-014	AMW-27-20241206	12/06/2024 10:02 AM	12/06/2024 1:56 PM
2412118-015	AMW-28-20241205	12/05/2024 1:52 PM	12/06/2024 1:56 PM
2412118-016	AMW-29-20241205	12/05/2024 10:05 AM	12/06/2024 1:56 PM
2412118-017	HC-MW-05-20241205	12/05/2024 12:25 PM	12/06/2024 1:56 PM
2412118-018	HC-MW-06-20241204	12/04/2024 4:15 PM	12/06/2024 1:56 PM
2412118-019	MW-05-20241205	12/05/2024 2:50 PM	12/06/2024 1:56 PM
2412118-020	MW-07-20241204	12/04/2024 4:35 PM	12/06/2024 1:56 PM
2412118-021	MW-10-20241205	12/05/2024 11:49 AM	12/06/2024 1:56 PM
2412118-022	DUP-1-20241205	12/05/2024 12:00 PM	12/06/2024 1:56 PM
2412118-023	DUP-2-20241204	12/04/2024 12:00 PM	12/06/2024 1:56 PM
2412118-024	Trip Blank	11/26/2024 8:30 AM	12/06/2024 1:56 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2412118**

Date: **12/16/2024**

CLIENT: Aspect Consulting
Project: Maddux

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 1:50:00 PM
Project: Maddux
Lab ID: 2412118-001
Matrix: Groundwater
Client Sample ID: AMW-06-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	0.259	0.00500		mg/L	1	12/11/2024 11:55:00 AM
Ethene	ND	0.0100		mg/L	1	12/11/2024 11:55:00 AM
Ethane	ND	0.0100		mg/L	1	12/11/2024 11:55:00 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/12/2024 11:42:11 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2024 11:42:11 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/12/2024 11:42:11 PM
cis-1,2-Dichloroethene	1.23	0.500		µg/L	1	12/12/2024 11:42:11 PM
Trichloroethene (TCE)	1.91	0.500		µg/L	1	12/12/2024 11:42:11 PM
Tetrachloroethene (PCE)	6.07	0.500		µg/L	1	12/12/2024 11:42:11 PM
Surr: Dibromofluoromethane	101	81.7 - 121.7		%Rec	1	12/12/2024 11:42:11 PM
Surr: Toluene-d8	102	82.2 - 122.2		%Rec	1	12/12/2024 11:42:11 PM
Surr: 1-Bromo-4-fluorobenzene	97.8	80.9 - 120.9		%Rec	1	12/12/2024 11:42:11 PM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	34.1	6.00	D	mg/L	10	12/6/2024 6:42:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 6:42:00 PM
Nitrate (as N)	2.19	1.50	D	mg/L	10	12/6/2024 6:42:00 PM
Sulfate	27.2	10.0	D	mg/L	10	12/6/2024 6:42:00 PM
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	365	30.0		µg/L	1	12/12/2024 2:18:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	1.62	0.700		mg/L	1	12/13/2024 1:52:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	168	25.0	D	mg/L	10	12/10/2024 1:31:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/4/2024 2:18:00 PM
Project: Maddux
Lab ID: 2412118-002
Matrix: Groundwater
Client Sample ID: AMW-11-20241204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	0.528	0.200		µg/L	1	12/13/2024 12:48:17 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 12:48:17 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 12:48:17 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 12:48:17 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 12:48:17 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 12:48:17 AM
Surr: Dibromofluoromethane	104	81.7 - 121.7		%Rec	1	12/13/2024 12:48:17 AM
Surr: Toluene-d8	102	82.2 - 122.2		%Rec	1	12/13/2024 12:48:17 AM
Surr: 1-Bromo-4-fluorobenzene	96.6	80.9 - 120.9		%Rec	1	12/13/2024 12:48:17 AM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 9:10:00 AM
Project: Maddux
Lab ID: 2412118-003
Matrix: Groundwater
Client Sample ID: AMW-15-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	1.63	0.0500	D	mg/L	10	12/11/2024 12:29:00 PM
Ethene	ND	0.0100		mg/L	1	12/11/2024 12:01:00 PM
Ethane	ND	0.0100		mg/L	1	12/11/2024 12:01:00 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	3.01	0.200		µg/L	1	12/13/2024 1:21:22 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:21:22 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:21:22 AM
cis-1,2-Dichloroethene	0.738	0.500		µg/L	1	12/13/2024 1:21:22 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 1:21:22 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 1:21:22 AM
Surr: Dibromofluoromethane	103	81.7 - 121.7		%Rec	1	12/13/2024 1:21:22 AM
Surr: Toluene-d8	101	82.2 - 122.2		%Rec	1	12/13/2024 1:21:22 AM
Surr: 1-Bromo-4-fluorobenzene	96.9	80.9 - 120.9		%Rec	1	12/13/2024 1:21:22 AM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	48.2	6.00	D	mg/L	10	12/6/2024 6:55:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 6:55:00 PM
Nitrate (as N)	ND	1.50	D	mg/L	10	12/6/2024 6:55:00 PM
Sulfate	24.1	10.0	D	mg/L	10	12/6/2024 6:55:00 PM
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	26,600	30.0		µg/L	1	12/16/2024 4:23:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	2.99	0.700		mg/L	1	12/13/2024 2:53:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	546	50.0	D	mg/L	20	12/10/2024 4:06:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 10:25:00 AM
Project: Maddux
Lab ID: 2412118-004
Matrix: Groundwater
Client Sample ID: AMW-16-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	4.84	0.100	D	mg/L	20	12/11/2024 12:39:00 PM
Ethene	ND	0.0100		mg/L	1	12/11/2024 12:04:00 PM
Ethane	ND	0.0100		mg/L	1	12/11/2024 12:04:00 PM
Diesel and Heavy Oil by NWTPH-Dx				Batch ID: 46096		Analyst: AP
Diesel Range Organics	456	94.1		µg/L	1	12/12/2024 8:52:28 PM
Heavy Oil	ND	141		µg/L	1	12/12/2024 8:52:28 PM
Total Petroleum Hydrocarbons	456	235		µg/L	1	12/12/2024 8:52:28 PM
Surr: 2-Fluorobiphenyl	76.1	50 - 150		%Rec	1	12/12/2024 8:52:28 PM
Surr: o-Terphenyl	82.0	50 - 150		%Rec	1	12/12/2024 8:52:28 PM
NOTES: Chromatographic pattern indicates an unresolved complex mixture, which may be weathered and/or organic material						
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 1:54:29 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:54:29 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:54:29 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:54:29 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 1:54:29 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 1:54:29 AM
Surr: Dibromofluoromethane	104	81.7 - 121.7		%Rec	1	12/13/2024 1:54:29 AM
Surr: Toluene-d8	103	82.2 - 122.2		%Rec	1	12/13/2024 1:54:29 AM
Surr: 1-Bromo-4-fluorobenzene	96.5	80.9 - 120.9		%Rec	1	12/13/2024 1:54:29 AM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	15.9	6.00	D	mg/L	10	12/6/2024 7:08:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 7:08:00 PM
Nitrate (as N)	0.860	0.750	D	mg/L	5	12/10/2024 4:02:00 PM
Sulfate	ND	10.0	D	mg/L	10	12/6/2024 7:08:00 PM
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	27,700	30.0		µg/L	1	12/16/2024 4:26:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 10:25:00 AM
Project: Maddux
Lab ID: 2412118-004
Matrix: Groundwater
Client Sample ID: AMW-16-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	30.7	0.700		mg/L	1	12/13/2024 3:14:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	1,100	75.0	D	mg/L	30	12/10/2024 4:21:00 PM

Analytical Report

Work Order: **2412118**

Date Reported: **12/16/2024**

Client: Aspect Consulting **Collection Date:** 12/6/2024 11:00:00 AM

Project: Maddux

Lab ID: 2412118-005 **Matrix:** Groundwater

Client Sample ID: AMW-17-20241206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	5.00	0.250	D	mg/L	50	12/11/2024 3:10:00 PM
Ethene	ND	0.0100		mg/L	1	12/11/2024 12:05:00 PM
Ethane	ND	0.0100		mg/L	1	12/11/2024 12:05:00 PM
Diesel and Heavy Oil by NWTPH-Dx				Batch ID: 46096		Analyst: AP
Diesel Range Organics	295	94.2		µg/L	1	12/12/2024 9:04:12 PM
Heavy Oil	ND	141		µg/L	1	12/12/2024 9:04:12 PM
Total Petroleum Hydrocarbons	295	235		µg/L	1	12/12/2024 9:04:12 PM
Surr: 2-Fluorobiphenyl	75.5	50 - 150		%Rec	1	12/12/2024 9:04:12 PM
Surr: o-Terphenyl	79.3	50 - 150		%Rec	1	12/12/2024 9:04:12 PM
NOTES: Chromatographic pattern indicates an unresolved complex mixture, which may be weathered and/or organic material						
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 2:27:28 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 2:27:28 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 2:27:28 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 2:27:28 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 2:27:28 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 2:27:28 AM
Surr: Dibromofluoromethane	105	81.7 - 121.7		%Rec	1	12/13/2024 2:27:28 AM
Surr: Toluene-d8	102	82.2 - 122.2		%Rec	1	12/13/2024 2:27:28 AM
Surr: 1-Bromo-4-fluorobenzene	98.1	80.9 - 120.9		%Rec	1	12/13/2024 2:27:28 AM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	47.2	6.00	D	mg/L	10	12/6/2024 7:20:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 7:20:00 PM
Nitrate (as N)	ND	1.50	D	mg/L	10	12/6/2024 7:20:00 PM
Sulfate	ND	10.0	D	mg/L	10	12/6/2024 7:20:00 PM
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	6,630	30.0		µg/L	1	12/16/2024 4:29:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/6/2024 11:00:00 AM
Project: Maddux
Lab ID: 2412118-005
Matrix: Groundwater
Client Sample ID: AMW-17-20241206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	7.62	0.700		mg/L	1	12/13/2024 3:35:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	217	25.0	D	mg/L	10	12/10/2024 1:39:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/4/2024 1:45:00 PM
Project: Maddux
Lab ID: 2412118-006
Matrix: Groundwater
Client Sample ID: AMW-18-20241204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 3:00:31 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 3:00:31 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 3:00:31 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 3:00:31 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 3:00:31 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 3:00:31 AM
Surr: Dibromofluoromethane	105	81.7 - 121.7		%Rec	1	12/13/2024 3:00:31 AM
Surr: Toluene-d8	104	82.2 - 122.2		%Rec	1	12/13/2024 3:00:31 AM
Surr: 1-Bromo-4-fluorobenzene	96.9	80.9 - 120.9		%Rec	1	12/13/2024 3:00:31 AM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 2:55:00 PM
Project: Maddux
Lab ID: 2412118-007
Matrix: Groundwater
Client Sample ID: AMW-19-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	4.86	0.100	D	mg/L	20	12/11/2024 3:15:00 PM
Ethene	ND	0.0100		mg/L	1	12/11/2024 12:08:00 PM
Ethane	0.0451	0.0100		mg/L	1	12/11/2024 12:08:00 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	11.1	0.200		µg/L	1	12/13/2024 2:31:12 PM
1,1-Dichloroethene	0.505	0.500		µg/L	1	12/13/2024 2:31:12 PM
trans-1,2-Dichloroethene	8.71	0.500		µg/L	1	12/13/2024 2:31:12 PM
cis-1,2-Dichloroethene	111	5.00	D	µg/L	10	12/13/2024 3:33:36 AM
Trichloroethene (TCE)	2.65	0.500		µg/L	1	12/13/2024 2:31:12 PM
Tetrachloroethene (PCE)	0.562	0.500		µg/L	1	12/13/2024 2:31:12 PM
Surr: Dibromofluoromethane	110	81.7 - 121.7		%Rec	1	12/13/2024 2:31:12 PM
Surr: Toluene-d8	106	82.2 - 122.2		%Rec	1	12/13/2024 2:31:12 PM
Surr: 1-Bromo-4-fluorobenzene	95.9	80.9 - 120.9		%Rec	1	12/13/2024 2:31:12 PM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	61.9	6.00	D	mg/L	10	12/6/2024 7:33:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 7:33:00 PM
Nitrate (as N)	ND	1.50	D	mg/L	10	12/6/2024 7:33:00 PM
Sulfate	10.2	10.0	D	mg/L	10	12/6/2024 7:33:00 PM
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	15,000	30.0		µg/L	1	12/16/2024 4:32:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	8.10	0.700		mg/L	1	12/13/2024 3:57:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	313	25.0	D	mg/L	10	12/10/2024 1:42:00 PM

Analytical Report

Work Order: **2412118**

Date Reported: **12/16/2024**

Client: Aspect Consulting **Collection Date:** 12/5/2024 12:35:00 PM

Project: Maddux

Lab ID: 2412118-008 **Matrix:** Groundwater

Client Sample ID: AMW-20-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	8.59	0.250	D	mg/L	50	12/11/2024 3:18:00 PM
Ethene	ND	0.0100		mg/L	1	12/11/2024 12:10:00 PM
Ethane	0.0380	0.0100		mg/L	1	12/11/2024 12:10:00 PM
Diesel and Heavy Oil by NWTPH-Dx				Batch ID: 46096		Analyst: AP
Diesel Range Organics	742	97.7		µg/L	1	12/12/2024 9:16:18 PM
Heavy Oil	ND	147		µg/L	1	12/12/2024 9:16:18 PM
Total Petroleum Hydrocarbons	742	244		µg/L	1	12/12/2024 9:16:18 PM
Surr: 2-Fluorobiphenyl	69.4	50 - 150		%Rec	1	12/12/2024 9:16:18 PM
Surr: o-Terphenyl	69.4	50 - 150		%Rec	1	12/12/2024 9:16:18 PM
NOTES: Chromatographic pattern indicates an unresolved complex mixture, which may be weathered and/or organic material						
Diesel & Oil by NWTPH-Dx with Silica Gel Treatment				Batch ID: 46096		Analyst: AP
Diesel Range Organics	ND	97.7		µg/L	1	12/13/2024 1:32:50 PM
Heavy Oil	ND	147		µg/L	1	12/13/2024 1:32:50 PM
Total Petroleum Hydrocarbons	ND	244		µg/L	1	12/13/2024 1:32:50 PM
Surr: 2-Fluorobiphenyl	87.6	50 - 150		%Rec	1	12/13/2024 1:32:50 PM
Surr: o-Terphenyl	89.4	50 - 150		%Rec	1	12/13/2024 1:32:50 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 4:06:38 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 4:06:38 AM
trans-1,2-Dichloroethene	0.552	0.500		µg/L	1	12/13/2024 4:06:38 AM
cis-1,2-Dichloroethene	2.40	0.500		µg/L	1	12/13/2024 4:06:38 AM
Trichloroethene (TCE)	1.03	0.500		µg/L	1	12/13/2024 4:06:38 AM
Tetrachloroethene (PCE)	0.650	0.500		µg/L	1	12/13/2024 4:06:38 AM
Surr: Dibromofluoromethane	106	81.7 - 121.7		%Rec	1	12/13/2024 4:06:38 AM
Surr: Toluene-d8	102	82.2 - 122.2		%Rec	1	12/13/2024 4:06:38 AM
Surr: 1-Bromo-4-fluorobenzene	97.0	80.9 - 120.9		%Rec	1	12/13/2024 4:06:38 AM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	65.6	6.00	D	mg/L	10	12/6/2024 7:46:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 7:46:00 PM
Nitrate (as N)	1.73	1.50	D	mg/L	10	12/6/2024 7:46:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Project: Maddux
Lab ID: 2412118-008
Client Sample ID: **AMW-20-20241205**

Collection Date: 12/5/2024 12:35:00 PM
Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Sulfate	15.2	10.0	D	mg/L	10	12/6/2024 7:46:00 PM
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	3,160	30.0		µg/L	1	12/12/2024 2:48:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	10.8	0.700		mg/L	1	12/13/2024 4:18:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	434	50.0	D	mg/L	20	12/10/2024 4:10:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/4/2024 2:10:00 PM
Project: Maddux
Lab ID: 2412118-009
Matrix: Groundwater
Client Sample ID: AMW-22-20241204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 4:39:46 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 4:39:46 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 4:39:46 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 4:39:46 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 4:39:46 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 4:39:46 AM
Surr: Dibromofluoromethane	106	81.7 - 121.7		%Rec	1	12/13/2024 4:39:46 AM
Surr: Toluene-d8	103	82.2 - 122.2		%Rec	1	12/13/2024 4:39:46 AM
Surr: 1-Bromo-4-fluorobenzene	95.7	80.9 - 120.9		%Rec	1	12/13/2024 4:39:46 AM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/4/2024 3:32:00 PM
Project: Maddux
Lab ID: 2412118-010
Matrix: Groundwater
Client Sample ID: AMW-23-20241204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 5:12:46 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 5:12:46 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 5:12:46 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 5:12:46 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 5:12:46 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 5:12:46 AM
Surr: Dibromofluoromethane	104	81.7 - 121.7		%Rec	1	12/13/2024 5:12:46 AM
Surr: Toluene-d8	103	82.2 - 122.2		%Rec	1	12/13/2024 5:12:46 AM
Surr: 1-Bromo-4-fluorobenzene	97.3	80.9 - 120.9		%Rec	1	12/13/2024 5:12:46 AM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 8:45:00 AM
Project: Maddux
Lab ID: 2412118-011
Matrix: Groundwater
Client Sample ID: AMW-24-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	0.673	0.0250	D	mg/L	5	12/11/2024 3:20:00 PM
Ethene	0.0207	0.0100		mg/L	1	12/11/2024 12:18:00 PM
Ethane	0.103	0.0100		mg/L	1	12/11/2024 12:18:00 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	1.53	0.200		µg/L	1	12/13/2024 3:04:12 PM
1,1-Dichloroethene	2.10	0.500		µg/L	1	12/13/2024 3:04:12 PM
trans-1,2-Dichloroethene	0.619	0.500		µg/L	1	12/13/2024 3:04:12 PM
cis-1,2-Dichloroethene	268	5.00	D	µg/L	10	12/13/2024 5:45:53 AM
Trichloroethene (TCE)	72.0	5.00	D	µg/L	10	12/13/2024 5:45:53 AM
Tetrachloroethene (PCE)	279	5.00	D	µg/L	10	12/13/2024 5:45:53 AM
Surr: Dibromofluoromethane	111	81.7 - 121.7		%Rec	1	12/13/2024 3:04:12 PM
Surr: Toluene-d8	106	82.2 - 122.2		%Rec	1	12/13/2024 3:04:12 PM
Surr: 1-Bromo-4-fluorobenzene	97.2	80.9 - 120.9		%Rec	1	12/13/2024 3:04:12 PM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	158	6.00	D	mg/L	10	12/6/2024 7:58:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 7:58:00 PM
Nitrate (as N)	ND	1.50	D	mg/L	10	12/6/2024 7:58:00 PM
Sulfate	13.6	10.0	D	mg/L	10	12/6/2024 7:58:00 PM
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	5,180	30.0		µg/L	1	12/16/2024 4:34:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	3.52	0.700		mg/L	1	12/13/2024 4:39:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	382	25.0	D	mg/L	10	12/10/2024 1:48:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/4/2024 3:10:00 PM
Project: Maddux
Lab ID: 2412118-012
Matrix: Groundwater
Client Sample ID: AMW-25-20241204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 6:18:53 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 6:18:53 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 6:18:53 AM
cis-1,2-Dichloroethene	5.04	0.500		µg/L	1	12/13/2024 6:18:53 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 6:18:53 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 6:18:53 AM
Surr: Dibromofluoromethane	106	81.7 - 121.7		%Rec	1	12/13/2024 6:18:53 AM
Surr: Toluene-d8	103	82.2 - 122.2		%Rec	1	12/13/2024 6:18:53 AM
Surr: 1-Bromo-4-fluorobenzene	94.9	80.9 - 120.9		%Rec	1	12/13/2024 6:18:53 AM

Analytical Report

Work Order: **2412118**

Date Reported: **12/16/2024**

Client: Aspect Consulting

Collection Date: 12/5/2024 10:55:00 AM

Project: Maddux

Lab ID: 2412118-013

Matrix: Groundwater

Client Sample ID: AMW-26-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	1.39	0.200		µg/L	1	12/13/2024 10:06:35 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 10:06:35 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 10:06:35 AM
cis-1,2-Dichloroethene	12.2	0.500		µg/L	1	12/13/2024 10:06:35 AM
Trichloroethene (TCE)	1.65	0.500		µg/L	1	12/13/2024 10:06:35 AM
Tetrachloroethene (PCE)	1.65	0.500		µg/L	1	12/13/2024 10:06:35 AM
Surr: Dibromofluoromethane	104	81.7 - 121.7		%Rec	1	12/13/2024 10:06:35 AM
Surr: Toluene-d8	106	82.2 - 122.2		%Rec	1	12/13/2024 10:06:35 AM
Surr: 1-Bromo-4-fluorobenzene	96.6	80.9 - 120.9		%Rec	1	12/13/2024 10:06:35 AM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/6/2024 10:02:00 AM
Project: Maddux
Lab ID: 2412118-014
Matrix: Groundwater
Client Sample ID: AMW-27-20241206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	4.55	0.100	D	mg/L	20	12/11/2024 3:23:00 PM
Ethene	ND	0.0100		mg/L	1	12/11/2024 12:20:00 PM
Ethane	ND	0.0100		mg/L	1	12/11/2024 12:20:00 PM
Diesel and Heavy Oil by NWTPH-Dx				Batch ID: 46132		Analyst: AP
Diesel Range Organics	ND	96.9		µg/L	1	12/13/2024 5:44:41 PM
Heavy Oil	ND	145		µg/L	1	12/13/2024 5:44:41 PM
Total Petroleum Hydrocarbons	ND	242		µg/L	1	12/13/2024 5:44:41 PM
Surr: 2-Fluorobiphenyl	72.8	50 - 150		%Rec	1	12/13/2024 5:44:41 PM
Surr: o-Terphenyl	74.3	50 - 150		%Rec	1	12/13/2024 5:44:41 PM
Diesel & Oil by NWTPH-Dx with Silica Gel Treatment				Batch ID: 46132		Analyst: LN
Diesel Range Organics	ND	96.9		µg/L	1	12/16/2024 1:17:57 PM
Heavy Oil	ND	145		µg/L	1	12/16/2024 1:17:57 PM
Total Petroleum Hydrocarbons	ND	242		µg/L	1	12/16/2024 1:17:57 PM
Surr: 2-Fluorobiphenyl	88.5	50 - 150		%Rec	1	12/16/2024 1:17:57 PM
Surr: o-Terphenyl	92.6	50 - 150		%Rec	1	12/16/2024 1:17:57 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 10:39:41 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 10:39:41 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 10:39:41 AM
cis-1,2-Dichloroethene	9.00	0.500		µg/L	1	12/13/2024 10:39:41 AM
Trichloroethene (TCE)	2.92	0.500		µg/L	1	12/13/2024 10:39:41 AM
Tetrachloroethene (PCE)	2.33	0.500		µg/L	1	12/13/2024 10:39:41 AM
Surr: Dibromofluoromethane	106	81.7 - 121.7		%Rec	1	12/13/2024 10:39:41 AM
Surr: Toluene-d8	104	82.2 - 122.2		%Rec	1	12/13/2024 10:39:41 AM
Surr: 1-Bromo-4-fluorobenzene	96.5	80.9 - 120.9		%Rec	1	12/13/2024 10:39:41 AM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	79.2	6.00	D	mg/L	10	12/6/2024 8:11:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 8:11:00 PM
Nitrate (as N)	ND	1.50	D	mg/L	10	12/6/2024 8:11:00 PM
Sulfate	49.3	10.0	D	mg/L	10	12/6/2024 8:11:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/6/2024 10:02:00 AM
Project: Maddux
Lab ID: 2412118-014
Matrix: Groundwater
Client Sample ID: AMW-27-20241206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	1,450	30.0		µg/L	1	12/12/2024 2:54:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	5.40	0.700		mg/L	1	12/13/2024 5:57:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	352	25.0	D	mg/L	10	12/10/2024 1:57:00 PM

Client: Aspect Consulting
Collection Date: 12/5/2024 1:52:00 PM
Project: Maddux
Lab ID: 2412118-015
Matrix: Groundwater
Client Sample ID: AMW-28-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx				Batch ID: 46132		Analyst: AP
Diesel Range Organics	6,540	94.6		µg/L	1	12/13/2024 6:08:15 PM
Heavy Oil	ND	142		µg/L	1	12/13/2024 6:08:15 PM
Total Petroleum Hydrocarbons	6,540	236		µg/L	1	12/13/2024 6:08:15 PM
Surr: 2-Fluorobiphenyl	212	50 - 150	S	%Rec	1	12/13/2024 6:08:15 PM
Surr: o-Terphenyl	82.4	50 - 150		%Rec	1	12/13/2024 6:08:15 PM

NOTES:
S - Outlying surrogate recovery attributed to matrix interference.
Chromatographic pattern is not consistent with a petroleum standard

Diesel & Oil by NWTPH-Dx with Silica Gel Treatment				Batch ID: 46132		Analyst: LN
Diesel Range Organics	2,530	94.6		µg/L	1	12/16/2024 2:29:04 PM
Heavy Oil	ND	142		µg/L	1	12/16/2024 2:29:04 PM
Total Petroleum Hydrocarbons	2,530	236		µg/L	1	12/16/2024 2:29:04 PM
Surr: 2-Fluorobiphenyl	126	50 - 150		%Rec	1	12/16/2024 2:29:04 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	12/16/2024 2:29:04 PM

NOTES:
Chromatographic pattern is not consistent with a petroleum standard

Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 11:12:45 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 11:12:45 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 11:12:45 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 11:12:45 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 11:12:45 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 11:12:45 AM
Surr: Dibromofluoromethane	109	81.7 - 121.7		%Rec	1	12/13/2024 11:12:45 AM
Surr: Toluene-d8	105	82.2 - 122.2		%Rec	1	12/13/2024 11:12:45 AM
Surr: 1-Bromo-4-fluorobenzene	97.5	80.9 - 120.9		%Rec	1	12/13/2024 11:12:45 AM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 10:05:00 AM
Project: Maddux
Lab ID: 2412118-016
Matrix: Groundwater
Client Sample ID: AMW-29-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 11:45:48 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 11:45:48 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 11:45:48 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 11:45:48 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 11:45:48 AM
Tetrachloroethene (PCE)	1.28	0.500		µg/L	1	12/13/2024 11:45:48 AM
Surr: Dibromofluoromethane	106	81.7 - 121.7		%Rec	1	12/13/2024 11:45:48 AM
Surr: Toluene-d8	104	82.2 - 122.2		%Rec	1	12/13/2024 11:45:48 AM
Surr: 1-Bromo-4-fluorobenzene	95.2	80.9 - 120.9		%Rec	1	12/13/2024 11:45:48 AM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 12:25:00 PM
Project: Maddux
Lab ID: 2412118-017
Matrix: Groundwater
Client Sample ID: **HC-MW-05-20241205**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dissolved Gases by RSK-175				Batch ID: R96285		Analyst: CO
Methane	8.89	0.250	D	mg/L	50	12/11/2024 3:25:00 PM
Ethene	0.0183	0.0100		mg/L	1	12/11/2024 12:22:00 PM
Ethane	0.138	0.0100		mg/L	1	12/11/2024 12:22:00 PM
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 12:18:54 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 12:18:54 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 12:18:54 PM
cis-1,2-Dichloroethene	1.17	0.500		µg/L	1	12/13/2024 12:18:54 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 12:18:54 PM
Tetrachloroethene (PCE)	0.529	0.500		µg/L	1	12/13/2024 12:18:54 PM
Surr: Dibromofluoromethane	107	81.7 - 121.7		%Rec	1	12/13/2024 12:18:54 PM
Surr: Toluene-d8	104	82.2 - 122.2		%Rec	1	12/13/2024 12:18:54 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	80.9 - 120.9		%Rec	1	12/13/2024 12:18:54 PM
Ion Chromatography by EPA 300.0				Batch ID: 46071		Analyst: OP
Chloride	31.4	6.00	D	mg/L	10	12/6/2024 8:49:00 PM
Nitrite (as N)	ND	2.50	D	mg/L	10	12/6/2024 8:49:00 PM
Nitrate (as N)	ND	1.50	D	mg/L	10	12/6/2024 8:49:00 PM
Sulfate	ND	10.0	D	mg/L	10	12/6/2024 8:49:00 PM
Dissolved Metals by EPA 6020B				Batch ID: 46112		Analyst: ME
Iron	ND	30.0		µg/L	1	12/12/2024 2:56:00 PM
Total Organic Carbon by SM 5310C				Batch ID: R96305		Analyst: SS
Total Organic Carbon	16.5	0.700		mg/L	1	12/13/2024 6:19:00 AM
Total Alkalinity by EPA 310.2				Batch ID: R96280		Analyst: NR
Alkalinity, Total (As CaCO3)	195	25.0	D	mg/L	10	12/10/2024 1:59:00 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/4/2024 4:15:00 PM
Project: Maddux
Lab ID: 2412118-018
Matrix: Groundwater
Client Sample ID: **HC-MW-06-20241204**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	2.55	0.200		µg/L	1	12/13/2024 12:51:56 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 12:51:56 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 12:51:56 PM
cis-1,2-Dichloroethene	1.63	0.500		µg/L	1	12/13/2024 12:51:56 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 12:51:56 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 12:51:56 PM
Surr: Dibromofluoromethane	105	81.7 - 121.7		%Rec	1	12/13/2024 12:51:56 PM
Surr: Toluene-d8	105	82.2 - 122.2		%Rec	1	12/13/2024 12:51:56 PM
Surr: 1-Bromo-4-fluorobenzene	95.9	80.9 - 120.9		%Rec	1	12/13/2024 12:51:56 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 2:50:00 PM
Project: Maddux
Lab ID: 2412118-019
Matrix: Groundwater
Client Sample ID: MW-05-20241205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx				Batch ID: 46132		Analyst: AP
Diesel Range Organics	ND	95.1		µg/L	1	12/16/2024 11:39:15 AM
Heavy Oil	ND	143		µg/L	1	12/16/2024 11:39:15 AM
Total Petroleum Hydrocarbons	ND	238		µg/L	1	12/16/2024 11:39:15 AM
Surr: 2-Fluorobiphenyl	89.6	50 - 150		%Rec	1	12/16/2024 11:39:15 AM
Surr: o-Terphenyl	89.6	50 - 150		%Rec	1	12/16/2024 11:39:15 AM
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/13/2024 1:24:59 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:24:59 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:24:59 PM
cis-1,2-Dichloroethene	3.77	0.500		µg/L	1	12/13/2024 1:24:59 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 1:24:59 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 1:24:59 PM
Surr: Dibromofluoromethane	107	81.7 - 121.7		%Rec	1	12/13/2024 1:24:59 PM
Surr: Toluene-d8	105	82.2 - 122.2		%Rec	1	12/13/2024 1:24:59 PM
Surr: 1-Bromo-4-fluorobenzene	96.3	80.9 - 120.9		%Rec	1	12/13/2024 1:24:59 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/4/2024 4:35:00 PM
Project: Maddux
Lab ID: 2412118-020
Matrix: Groundwater
Client Sample ID: MW-07-20241204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46122		Analyst: FG
Vinyl chloride	7.57	0.200		µg/L	1	12/13/2024 1:58:04 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:58:04 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/13/2024 1:58:04 PM
cis-1,2-Dichloroethene	7.16	0.500		µg/L	1	12/13/2024 1:58:04 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/13/2024 1:58:04 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/13/2024 1:58:04 PM
Surr: Dibromofluoromethane	110	81.7 - 121.7		%Rec	1	12/13/2024 1:58:04 PM
Surr: Toluene-d8	106	82.2 - 122.2		%Rec	1	12/13/2024 1:58:04 PM
Surr: 1-Bromo-4-fluorobenzene	95.9	80.9 - 120.9		%Rec	1	12/13/2024 1:58:04 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 11:49:00 AM
Project: Maddux
Lab ID: 2412118-021
Matrix: Groundwater
Client Sample ID: **MW-10-20241205**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx				Batch ID: 46132		Analyst: AP
Diesel Range Organics	357	95.0		µg/L	1	12/16/2024 11:51:08 AM
Heavy Oil	ND	143		µg/L	1	12/16/2024 11:51:08 AM
Total Petroleum Hydrocarbons	357	238		µg/L	1	12/16/2024 11:51:08 AM
Surr: 2-Fluorobiphenyl	96.2	50 - 150		%Rec	1	12/16/2024 11:51:08 AM
Surr: o-Terphenyl	106	50 - 150		%Rec	1	12/16/2024 11:51:08 AM

NOTES:
Chromatographic pattern indicates an unresolved complex mixture, which may be weathered and/or organic material

Volatile Organic Compounds by EPA 8260D				Batch ID: 46129		Analyst: FG
Vinyl chloride	0.232	0.200		µg/L	1	12/12/2024 9:57:32 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2024 9:57:32 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/12/2024 9:57:32 PM
cis-1,2-Dichloroethene	0.584	0.500		µg/L	1	12/12/2024 9:57:32 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/12/2024 9:57:32 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/12/2024 9:57:32 PM
Surr: Dibromofluoromethane	112	81.7 - 121.7		%Rec	1	12/12/2024 9:57:32 PM
Surr: Toluene-d8	109	82.2 - 122.2		%Rec	1	12/12/2024 9:57:32 PM
Surr: 1-Bromo-4-fluorobenzene	107	80.9 - 120.9		%Rec	1	12/12/2024 9:57:32 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/5/2024 12:00:00 PM
Project: Maddux
Lab ID: 2412118-022
Matrix: Groundwater
Client Sample ID: **DUP-1-20241205**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx				Batch ID: 46132		Analyst: AP
Diesel Range Organics	508	95.4		µg/L	1	12/13/2024 7:30:45 PM
Heavy Oil	ND	143		µg/L	1	12/13/2024 7:30:45 PM
Total Petroleum Hydrocarbons	508	238		µg/L	1	12/13/2024 7:30:45 PM
Surr: 2-Fluorobiphenyl	77.6	50 - 150		%Rec	1	12/13/2024 7:30:45 PM
Surr: o-Terphenyl	78.1	50 - 150		%Rec	1	12/13/2024 7:30:45 PM
NOTES: Chromatographic pattern indicates an unresolved complex mixture, which may be weathered and/or organic material						
Volatile Organic Compounds by EPA 8260D				Batch ID: 46129		Analyst: FG
Vinyl chloride	2.74	0.200		µg/L	1	12/12/2024 10:28:04 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2024 10:28:04 PM
trans-1,2-Dichloroethene	0.545	0.500		µg/L	1	12/12/2024 10:28:04 PM
cis-1,2-Dichloroethene	2.32	0.500		µg/L	1	12/12/2024 10:28:04 PM
Trichloroethene (TCE)	0.880	0.500		µg/L	1	12/12/2024 10:28:04 PM
Tetrachloroethene (PCE)	0.644	0.500		µg/L	1	12/12/2024 10:28:04 PM
Surr: Dibromofluoromethane	109	81.7 - 121.7		%Rec	1	12/12/2024 10:28:04 PM
Surr: Toluene-d8	102	82.2 - 122.2		%Rec	1	12/12/2024 10:28:04 PM
Surr: 1-Bromo-4-fluorobenzene	109	80.9 - 120.9		%Rec	1	12/12/2024 10:28:04 PM

Analytical Report

Work Order: **2412118**

Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 12/4/2024 12:00:00 PM
Project: Maddux
Lab ID: 2412118-023
Matrix: Groundwater
Client Sample ID: **DUP-2-20241204**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46129		Analyst: FG
Vinyl chloride	ND	0.200		µg/L	1	12/12/2024 10:58:30 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2024 10:58:30 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	12/12/2024 10:58:30 PM
cis-1,2-Dichloroethene	4.99	0.500		µg/L	1	12/12/2024 10:58:30 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	12/12/2024 10:58:30 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	12/12/2024 10:58:30 PM
Surr: Dibromofluoromethane	106	81.7 - 121.7		%Rec	1	12/12/2024 10:58:30 PM
Surr: Toluene-d8	94.1	82.2 - 122.2		%Rec	1	12/12/2024 10:58:30 PM
Surr: 1-Bromo-4-fluorobenzene	102	80.9 - 120.9		%Rec	1	12/12/2024 10:58:30 PM

Analytical Report

Work Order: **2412118**
Date Reported: **12/16/2024**

Client: Aspect Consulting
Collection Date: 11/26/2024 8:30:00 AM
Project: Maddux
Lab ID: 2412118-024
Matrix: Groundwater
Client Sample ID: **Trip Blank**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA 8260D				Batch ID: 46129		Analyst: FG
Vinyl chloride	ND	0.200	H	µg/L	1	12/12/2024 5:23:08 PM
1,1-Dichloroethene	ND	0.500	H	µg/L	1	12/12/2024 5:23:08 PM
trans-1,2-Dichloroethene	ND	0.500	H	µg/L	1	12/12/2024 5:23:08 PM
cis-1,2-Dichloroethene	ND	0.500	H	µg/L	1	12/12/2024 5:23:08 PM
Trichloroethene (TCE)	ND	0.500	H	µg/L	1	12/12/2024 5:23:08 PM
Tetrachloroethene (PCE)	ND	0.500	H	µg/L	1	12/12/2024 5:23:08 PM
Surr: Dibromofluoromethane	102	81.7 - 121.7	H	%Rec	1	12/12/2024 5:23:08 PM
Surr: Toluene-d8	101	82.2 - 122.2	H	%Rec	1	12/12/2024 5:23:08 PM
Surr: 1-Bromo-4-fluorobenzene	102	80.9 - 120.9	H	%Rec	1	12/12/2024 5:23:08 PM

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Total Alkalinity by EPA 310.2

Sample ID: **MB-96280**	SampType: **MBLK**			Units: **mg/L**		Prep Date: **12/10/2024**		RunNo: **96280**		
Client ID: **MBLKW**	Batch ID: **R96280**					Analysis Date: **12/10/2024**		SeqNo: **2008631**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.50									

Sample ID: **LCS-96280**	SampType: **LCS**			Units: **mg/L**		Prep Date: **12/10/2024**		RunNo: **96280**		
Client ID: **LCSW**	Batch ID: **R96280**					Analysis Date: **12/10/2024**		SeqNo: **2008632**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	27.4	2.50	25.00	0	110	83.8	121				

Sample ID: **2412118-001BDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/10/2024**		RunNo: **96280**		
Client ID: **AMW-06-20241205**	Batch ID: **R96280**					Analysis Date: **12/10/2024**		SeqNo: **2008635**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	67.7	2.50						67.00	1.04	20	E

Sample ID: **2412118-011BDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/10/2024**		RunNo: **96280**		
Client ID: **AMW-24-20241205**	Batch ID: **R96280**					Analysis Date: **12/10/2024**		SeqNo: **2008644**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	64.6	2.50						64.10	0.777	20	E

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: **MB-46071** SampType: **MBLK** Units: **mg/L** Prep Date: **12/6/2024** RunNo: **96294**
Client ID: **MBLKW** Batch ID: **46071** Analysis Date: **12/6/2024** SeqNo: **2009075**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.600									
Nitrite (as N)	ND	0.250									
Nitrate (as N)	ND	0.150									
Sulfate	ND	1.00									

Sample ID: **LCS-46071** SampType: **LCS** Units: **mg/L** Prep Date: **12/6/2024** RunNo: **96294**
Client ID: **LCSW** Batch ID: **46071** Analysis Date: **12/6/2024** SeqNo: **2009036**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	10.2	0.600	10.00	0	102	90	110				
Nitrite (as N)	3.06	0.250	3.045	0	101	90	110				
Nitrate (as N)	2.13	0.150	2.259	0	94.4	90	110				
Sulfate	9.26	1.00	10.00	0	92.6	90	110				

Sample ID: **2412086-002BDUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/6/2024** RunNo: **96294**
Client ID: **BATCH** Batch ID: **46071** Analysis Date: **12/6/2024** SeqNo: **2009038**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	15.3	6.00						14.01	9.00	20	D
Nitrite (as N)	ND	2.50						0		20	D
Nitrate (as N)	ND	1.50						1.750	200	20	D
Sulfate	ND	10.0						0		20	D

Sample ID: **2412086-002BMS** SampType: **MS** Units: **mg/L** Prep Date: **12/6/2024** RunNo: **96294**
Client ID: **BATCH** Batch ID: **46071** Analysis Date: **12/6/2024** SeqNo: **2009039**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	116	6.00	100.0	14.01	102	80	120				D
Nitrite (as N)	31.4	2.50	30.45	0.9600	100	80	120				D
Nitrate (as N)	21.3	1.50	22.59	1.750	86.5	80	120				D

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Ion Chromatography by EPA 300.0

Sample ID: **2412086-002BMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/6/2024**		RunNo: **96294**		
Client ID: **BATCH**	Batch ID: **46071**					Analysis Date: **12/6/2024**		SeqNo: **2009039**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	91.6	10.0	100.0	7.360	84.2	80	120				D

Sample ID: **2412086-002BMSD**	SampType: **MSD**			Units: **mg/L**		Prep Date: **12/6/2024**		RunNo: **96294**		
Client ID: **BATCH**	Batch ID: **46071**					Analysis Date: **12/6/2024**		SeqNo: **2009040**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	115	6.00	100.0	14.01	101	80	120	115.7	0.225	20	D
Nitrite (as N)	31.4	2.50	30.45	0.9600	100	80	120	31.44	0.0318	20	D
Nitrate (as N)	21.3	1.50	22.59	1.750	86.4	80	120	21.28	0.0940	20	D
Sulfate	92.3	10.0	100.0	7.360	85.0	80	120	91.59	0.816	20	D

Sample ID: **2412104-001DDUP**	SampType: **DUP**			Units: **mg/L**		Prep Date: **12/6/2024**		RunNo: **96294**		
Client ID: **BATCH**	Batch ID: **46071**					Analysis Date: **12/6/2024**		SeqNo: **2009051**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	14.4	0.600						14.38	0.132	20	
Nitrite (as N)	ND	0.250						0		20	
Nitrate (as N)	0.288	0.150						0.2920	1.38	20	
Sulfate	2.05	1.00						2.050	0.0488	20	

Sample ID: **2412104-001DMS**	SampType: **MS**			Units: **mg/L**		Prep Date: **12/6/2024**		RunNo: **96294**		
Client ID: **BATCH**	Batch ID: **46071**					Analysis Date: **12/6/2024**		SeqNo: **2009052**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24.2	0.600	10.00	14.38	98.5	80	120				
Nitrite (as N)	3.16	0.250	3.045	0	104	80	120				
Nitrate (as N)	2.31	0.150	2.259	0.2920	89.4	80	120				
Sulfate	10.5	1.00	10.00	2.050	84.6	80	120				

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **LCS** SampType: **LCS** Units: **mg/L** Prep Date: **12/12/2024** RunNo: **96305**
Client ID: **LCSW** Batch ID: **R96305** Analysis Date: **12/12/2024** SeqNo: **2009335**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	24.2	0.700	25.00	0	97.0	87.6	109				

Sample ID: **MB** SampType: **MBLK** Units: **mg/L** Prep Date: **12/12/2024** RunNo: **96305**
Client ID: **MBLKW** Batch ID: **R96305** Analysis Date: **12/12/2024** SeqNo: **2009337**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.700									

Sample ID: **2412043-001BDUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/12/2024** RunNo: **96305**
Client ID: **BATCH** Batch ID: **R96305** Analysis Date: **12/12/2024** SeqNo: **2009339**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	7.19	0.700						10.13	33.9	20	R

NOTES:
R - High RPD observed.

Sample ID: **2412043-001BMS** SampType: **MS** Units: **mg/L** Prep Date: **12/12/2024** RunNo: **96305**
Client ID: **BATCH** Batch ID: **R96305** Analysis Date: **12/12/2024** SeqNo: **2009340**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	31.6	0.700	25.00	10.13	85.9	73.1	113				

Sample ID: **2412043-001BMSD** SampType: **MSD** Units: **mg/L** Prep Date: **12/12/2024** RunNo: **96305**
Client ID: **BATCH** Batch ID: **R96305** Analysis Date: **12/12/2024** SeqNo: **2009341**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	30.8	0.700	25.00	10.13	82.9	73.1	113	31.61	2.47	30	

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **2412118-001EDUP** SampType: **DUP** Units: **mg/L** Prep Date: **12/13/2024** RunNo: **96305**
Client ID: **AMW-06-20241205** Batch ID: **R96305** Analysis Date: **12/13/2024** SeqNo: **2009351**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1.52	0.700						1.620	6.11	20	

Sample ID: **2412118-001EMS** SampType: **MS** Units: **mg/L** Prep Date: **12/13/2024** RunNo: **96305**
Client ID: **AMW-06-20241205** Batch ID: **R96305** Analysis Date: **12/13/2024** SeqNo: **2009352**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	25.8	0.700	25.00	1.620	96.8	73.1	113				

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Dissolved Metals by EPA 6020B

Sample ID: **MB-46112**	SampType: **MBLK**			Units: **µg/L**		Prep Date: **12/12/2024**		RunNo: **96306**		
Client ID: **MBLKW**	Batch ID: **46112**					Analysis Date: **12/12/2024**		SeqNo: **2009382**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	30.0									

Sample ID: **LCS-46112**	SampType: **LCS**			Units: **µg/L**		Prep Date: **12/12/2024**		RunNo: **96306**		
Client ID: **LCSW**	Batch ID: **46112**					Analysis Date: **12/12/2024**		SeqNo: **2009383**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1,020	30.0	1,000	0	102	80	120				

Sample ID: **2412118-001CDUP**	SampType: **DUP**			Units: **µg/L**		Prep Date: **12/12/2024**		RunNo: **96306**		
Client ID: **AMW-06-20241205**	Batch ID: **46112**					Analysis Date: **12/12/2024**		SeqNo: **2009385**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	364	30.0						365.4	0.390	20	

Sample ID: **2412118-001CMS**	SampType: **MS**			Units: **µg/L**		Prep Date: **12/12/2024**		RunNo: **96306**		
Client ID: **AMW-06-20241205**	Batch ID: **46112**					Analysis Date: **12/12/2024**		SeqNo: **2009386**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1,390	30.0	1,000	365.4	102	75	125				

Sample ID: **2412118-001CMSD**	SampType: **MSD**			Units: **µg/L**		Prep Date: **12/12/2024**		RunNo: **96306**		
Client ID: **AMW-06-20241205**	Batch ID: **46112**					Analysis Date: **12/12/2024**		SeqNo: **2009387**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1,380	30.0	1,000	365.4	101	75	125	1,386	0.613	20	

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx

Sample ID: **MB-46096** SampType: **MBLK** Units: **µg/L** Prep Date: **12/10/2024** RunNo: **96251**
Client ID: **MBLKW** Batch ID: **46096** Analysis Date: **12/11/2024** SeqNo: **2008199**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	100									
Heavy Oil	ND	150									
Total Petroleum Hydrocarbons	ND	250									
Surr: 2-Fluorobiphenyl	20.2		25.00		80.8	50	150				
Surr: o-Terphenyl	20.8		25.00		83.3	50	150				

Sample ID: **LCS-46096** SampType: **LCS** Units: **µg/L** Prep Date: **12/10/2024** RunNo: **96251**
Client ID: **LCSW** Batch ID: **46096** Analysis Date: **12/11/2024** SeqNo: **2008200**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,110	250	1,250	0	88.6	42.5	123				
Surr: 2-Fluorobiphenyl	20.4		25.00		81.5	50	150				
Surr: o-Terphenyl	23.6		25.00		94.5	50	150				

Sample ID: **LCSD-46096** SampType: **LCSD** Units: **µg/L** Prep Date: **12/10/2024** RunNo: **96251**
Client ID: **LCSW02** Batch ID: **46096** Analysis Date: **12/11/2024** SeqNo: **2008201**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,130	250	1,250	0	90.4	42.5	123	1,107	2.02	30	
Surr: 2-Fluorobiphenyl	21.2		25.00		84.9	50	150		0		
Surr: o-Terphenyl	25.3		25.00		101	50	150		0		

Sample ID: **MB-46132** SampType: **MBLK** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96321**
Client ID: **MBLKW** Batch ID: **46132** Analysis Date: **12/13/2024** SeqNo: **2009723**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	99.0									
Heavy Oil	ND	149									
Total Petroleum Hydrocarbons	ND	248									
Surr: 2-Fluorobiphenyl	16.9		24.75		68.2	50	150				

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx

Sample ID: **MB-46132** SampType: **MBLK** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96321**
Client ID: **MBLKW** Batch ID: **46132** Analysis Date: **12/13/2024** SeqNo: **2009723**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: o-Terphenyl	18.3		24.75		74.1	50	150				

Sample ID: **LCS-46132** SampType: **LCS** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96321**
Client ID: **LCSW** Batch ID: **46132** Analysis Date: **12/13/2024** SeqNo: **2009724**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	878	243	1,216	0	72.2	42.5	123				
Surr: 2-Fluorobiphenyl	17.7		24.32		72.6	50	150				
Surr: o-Terphenyl	19.7		24.32		81.1	50	150				

Sample ID: **LCSD-46132** SampType: **LCSD** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96321**
Client ID: **LCSW02** Batch ID: **46132** Analysis Date: **12/13/2024** SeqNo: **2009725**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	891	246	1,232	0	72.3	42.5	123	877.8	1.49	30	
Surr: 2-Fluorobiphenyl	18.8		24.64		76.4	50	150		0		
Surr: o-Terphenyl	20.0		24.64		81.0	50	150		0		

Sample ID: **2412118-014FDUP** SampType: **DUP** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96321**
Client ID: **AMW-27-20241206** Batch ID: **46132** Analysis Date: **12/13/2024** SeqNo: **2009994**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	95.5						0		30	
Heavy Oil	ND	143						0		30	
Total Petroleum Hydrocarbons	ND	239						0		30	
Surr: 2-Fluorobiphenyl	20.0		23.89		83.9	50	150		0		
Surr: o-Terphenyl	20.9		23.89		87.3	50	150		0		

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Diesel & Oil by NWTPH-Dx with Silica Gel Treatment

Sample ID: **MB-46096** SampType: **MBLK** Units: **µg/L** Prep Date: **12/10/2024** RunNo: **96328**
Client ID: **MBLKW** Batch ID: **46096** Analysis Date: **12/13/2024** SeqNo: **2009818**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	100									
Heavy Oil	ND	150									
Total Petroleum Hydrocarbons	ND	250									
Surr: 2-Fluorobiphenyl	25.3		25.00		101	50	150				
Surr: o-Terphenyl	27.5		25.00		110	50	150				

Sample ID: **LCS-46096** SampType: **LCS** Units: **µg/L** Prep Date: **12/10/2024** RunNo: **96328**
Client ID: **LCSW** Batch ID: **46096** Analysis Date: **12/13/2024** SeqNo: **2009819**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,240	250	1,250	0	99.0	42.5	123				
Surr: 2-Fluorobiphenyl	24.2		25.00		96.8	50	150				
Surr: o-Terphenyl	30.4		25.00		121	50	150				

Sample ID: **LCSD-46096** SampType: **LCSD** Units: **µg/L** Prep Date: **12/10/2024** RunNo: **96328**
Client ID: **LCSW02** Batch ID: **46096** Analysis Date: **12/13/2024** SeqNo: **2009820**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,160	250	1,250	0	92.8	42.5	123	1,238	6.47	30	
Surr: 2-Fluorobiphenyl	22.9		25.00		91.6	50	150		0		
Surr: o-Terphenyl	28.9		25.00		116	50	150		0		

Sample ID: **MB-46132** SampType: **MBLK** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96356**
Client ID: **MBLKW** Batch ID: **46132** Analysis Date: **12/16/2024** SeqNo: **2010397**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	99.0									
Heavy Oil	ND	149									
Total Petroleum Hydrocarbons	ND	248									
Surr: 2-Fluorobiphenyl	19.2		24.75		77.7	50	150				

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Diesel & Oil by NWTPH-Dx with Silica Gel Treatment

Sample ID: **MB-46132** SampType: **MBLK** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96356**
Client ID: **MBLKW** Batch ID: **46132** Analysis Date: **12/16/2024** SeqNo: **2010397**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: o-Terphenyl	21.6		24.75		87.2	50	150				

Sample ID: **LCS-46132** SampType: **LCS** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96356**
Client ID: **LCSW** Batch ID: **46132** Analysis Date: **12/16/2024** SeqNo: **2010398**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,030	243	1,216	0	84.7	42.5	123				
Surr: 2-Fluorobiphenyl	19.9		24.32		81.7	50	150				
Surr: o-Terphenyl	22.1		24.32		90.9	50	150				

Sample ID: **LCSD-46132** SampType: **LCSD** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96356**
Client ID: **LCSW02** Batch ID: **46132** Analysis Date: **12/16/2024** SeqNo: **2010399**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	1,150	246	1,232	0	93.5	42.5	123	1,030	11.1	30	
Surr: 2-Fluorobiphenyl	23.0		24.64		93.5	50	150		0		
Surr: o-Terphenyl	24.5		24.64		99.3	50	150		0		

Sample ID: **2412118-014FDUP** SampType: **DUP** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96356**
Client ID: **AMW-27-20241206** Batch ID: **46132** Analysis Date: **12/16/2024** SeqNo: **2010401**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	95.5						0		30	
Heavy Oil	ND	143						0		30	
Total Petroleum Hydrocarbons	ND	239						0		30	
Surr: 2-Fluorobiphenyl	20.8		23.89		87.0	50	150		0		
Surr: o-Terphenyl	21.7		23.89		90.7	50	150		0		

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Dissolved Gases by RSK-175

Sample ID: **LCS-R96285** SampType: **LCS** Units: **ppmv** Prep Date: **12/11/2024** RunNo: **96285**
Client ID: **LCSW** Batch ID: **R96285** Analysis Date: **12/11/2024** SeqNo: **2008859**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1,030	0.00500	1,000	0	103	73.6	124				
Ethene	936	0.0100	1,000	0	93.6	76.3	122				
Ethane	963	0.0100	1,000	0	96.3	76.1	123				

Sample ID: **MB-R96285** SampType: **MBLK** Units: **mg/L** Prep Date: **12/11/2024** RunNo: **96285**
Client ID: **MBLKW** Batch ID: **R96285** Analysis Date: **12/11/2024** SeqNo: **2008841**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00500									
Ethene	ND	0.0100									
Ethane	ND	0.0100									

Sample ID: **2412118-001DREP** SampType: **REP** Units: **mg/L** Prep Date: **12/11/2024** RunNo: **96285**
Client ID: **AMW-06-20241205** Batch ID: **R96285** Analysis Date: **12/11/2024** SeqNo: **2008824**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.260	0.00500						0.2587	0.666	30	
Ethene	ND	0.0100						0		30	
Ethane	ND	0.0100						0		30	

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **LCS-46129** SampType: **LCS** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96304**
Client ID: **LCSW** Batch ID: **46129** Analysis Date: **12/12/2024** SeqNo: **2009518**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	17.2	0.200	20.00	0	86.1	80	120				
1,1-Dichloroethene	21.2	0.500	20.00	0	106	80	120				
trans-1,2-Dichloroethene	21.4	0.500	20.00	0	107	80	120				
cis-1,2-Dichloroethene	21.2	0.500	20.00	0	106	80	120				
Trichloroethene (TCE)	21.9	0.500	20.00	0	109	80	120				
Tetrachloroethene (PCE)	20.4	0.500	20.00	0	102	80	120				
Surr: Dibromofluoromethane	27.3		25.00		109	81.7	122				
Surr: Toluene-d8	25.0		25.00		99.9	82.2	122				
Surr: 1-Bromo-4-fluorobenzene	24.7		25.00		98.8	80.9	121				

Sample ID: **MB-46129** SampType: **MBLK** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96304**
Client ID: **MBLKW** Batch ID: **46129** Analysis Date: **12/12/2024** SeqNo: **2009309**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	0.500									
trans-1,2-Dichloroethene	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
Trichloroethene (TCE)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.500									
Surr: Dibromofluoromethane	27.6		25.00		110	80	120				
Surr: Toluene-d8	26.3		25.00		105	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.8		25.00		99.0	80	120				

Sample ID: **2412217-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96304**
Client ID: **BATCH** Batch ID: **46129** Analysis Date: **12/12/2024** SeqNo: **2009527**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	0.500						0		30	
trans-1,2-Dichloroethene	ND	0.500						0		30	

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2412217-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96304**
Client ID: **BATCH** Batch ID: **46129** Analysis Date: **12/12/2024** SeqNo: **2009527**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	ND	0.500						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
Tetrachloroethene (PCE)	ND	0.500						0		30	
Surr: Dibromofluoromethane	24.4		25.00		97.5	81.7	121.7		0		
Surr: Toluene-d8	28.1		25.00		112	82.2	122.2		0		
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	80.9	120.9		0		

Sample ID: **LCS-46122** SampType: **LCS** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96349**
Client ID: **LCSW** Batch ID: **46122** Analysis Date: **12/12/2024** SeqNo: **2010266**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	19.2	0.200	20.00	0	95.9	80	120				
1,1-Dichloroethene	19.5	0.500	20.00	0	97.6	80	120				
trans-1,2-Dichloroethene	19.5	0.500	20.00	0	97.3	80	120				
cis-1,2-Dichloroethene	19.4	0.500	20.00	0	97.1	80	120				
Trichloroethene (TCE)	20.0	0.500	20.00	0	100	80	120				
Tetrachloroethene (PCE)	20.9	0.500	20.00	0	104	80	120				
Surr: Dibromofluoromethane	25.9		25.00		104	81.7	122				
Surr: Toluene-d8	26.2		25.00		105	82.2	122				
Surr: 1-Bromo-4-fluorobenzene	26.0		25.00		104	80.9	121				

Sample ID: **MB-46122** SampType: **MBLK** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96349**
Client ID: **MBLKW** Batch ID: **46122** Analysis Date: **12/12/2024** SeqNo: **2010267**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	0.500									
trans-1,2-Dichloroethene	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
Trichloroethene (TCE)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.500									

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **MB-46122** SampType: **MBLK** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96349**
Client ID: **MBLKW** Batch ID: **46122** Analysis Date: **12/12/2024** SeqNo: **2010267**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.2		25.00		96.7	80	120				

Sample ID: **2412118-001ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96349**
Client ID: **AMW-06-20241205** Batch ID: **46122** Analysis Date: **12/13/2024** SeqNo: **2010232**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	0.500						0		30	
trans-1,2-Dichloroethene	ND	0.500						0		30	
cis-1,2-Dichloroethene	1.30	0.500						1.232	5.72	30	
Trichloroethene (TCE)	2.23	0.500						1.911	15.6	30	
Tetrachloroethene (PCE)	6.59	0.500						6.069	8.29	30	
Surr: Dibromofluoromethane	25.1		25.00		101	81.7	121.7		0		
Surr: Toluene-d8	25.2		25.00		101	82.2	122.2		0		
Surr: 1-Bromo-4-fluorobenzene	24.1		25.00		96.4	80.9	120.9		0		

Sample ID: **2412192-001BMS** SampType: **MS** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96304**
Client ID: **BATCH** Batch ID: **46129** Analysis Date: **12/13/2024** SeqNo: **2009538**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	18.7	0.200	20.00	0	93.7	63.7	160				
1,1-Dichloroethene	21.0	0.500	20.00	0	105	70	160				
trans-1,2-Dichloroethene	20.8	0.500	20.00	0	104	59.5	171				
cis-1,2-Dichloroethene	20.2	0.500	20.00	0	101	47.3	158				
Trichloroethene (TCE)	19.9	0.500	20.00	0	99.4	61.2	157				
Tetrachloroethene (PCE)	19.9	0.500	20.00	0	99.3	68.3	160				
Surr: Dibromofluoromethane	27.1		25.00		108	81.7	122				
Surr: Toluene-d8	24.0		25.00		96.0	82.2	122				
Surr: 1-Bromo-4-fluorobenzene	24.8		25.00		99.1	80.9	121				

Work Order: 2412118
CLIENT: Aspect Consulting
Project: Maddux

QC SUMMARY REPORT

Volatile Organic Compounds by EPA 8260D

Sample ID: **2412192-001BMS** SampType: **MS** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96304**
Client ID: **BATCH** Batch ID: **46129** Analysis Date: **12/13/2024** SeqNo: **2009538**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: **2412118-002AMS** SampType: **MS** Units: **µg/L** Prep Date: **12/12/2024** RunNo: **96349**
Client ID: **AMW-11-20241204** Batch ID: **46122** Analysis Date: **12/13/2024** SeqNo: **2010244**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	29.5	0.200	20.00	0.5277	145	63.7	160				
1,1-Dichloroethene	27.3	0.500	20.00	0	136	70	160				
trans-1,2-Dichloroethene	23.4	0.500	20.00	0	117	59.5	171				
cis-1,2-Dichloroethene	22.9	0.500	20.00	0	115	47.3	158				
Trichloroethene (TCE)	23.6	0.500	20.00	0	118	61.2	157				
Tetrachloroethene (PCE)	27.7	0.500	20.00	0	138	68.3	160				
Surr: Dibromofluoromethane	26.7		25.00		107	81.7	122				
Surr: Toluene-d8	27.0		25.00		108	82.2	122				
Surr: 1-Bromo-4-fluorobenzene	25.6		25.00		102	80.9	121				

Sample Log-In Check List

Client Name:	AC	Work Order Number:	2412118
Logged by:	Clare Griggs	Date Received:	12/6/2024 1:56:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Courier		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☑	NA ☐
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☑ No ☐ NA ☐

Person Notified:	Risi Naa	Date:	12/6/2024
By Whom:	Lyann Rivera	Via:	☐ eMail ☑ Phone ☐ Fax ☐ In Person
Regarding:	Confirming anions & alkalinity method.		
Client Instructions:	Report Nitrate and Nitrite, not N+N. Alkalinity by 310 okay.		

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	6.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 12/06/2024 Page: 1 of: 3

Laboratory Project No (internal): 2412118

Project Name: Maddux Groundwater Monitoring

Special Remarks:
(*) Dissolved Fe were field-filtered (FF)
- Report ORO as DRO if chromatogram resembles diesel
- ~~Analyze AMW-07 and AMW-17 for Dx with and without Silica Gel Cleanup~~. RN 12/06/24

Client: Aspect Consulting

Project No: AS160324 N

Address: 710 2nd Ave Suite #550

Collected by: Risi Naa, Kelden Larsen

City, State, Zip: Seattle, WA 98104

Location: 2810 S. McClellan St, Seattle, WA

Telephone: (206) 780-7724

Report To (PM): Andrew Yonkofski; Hannah Cohen

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): Andrew.yonkofski; Hannah.Cohen@aspectconsulting.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	* Dissolved Fe EPA 6020	Ethene, Ethane, Methane RSK 175	TOC EPA 415.1/SW 8465 9060	Alkalinity by SM2320B	Comments
1	AMW-06-20241205	12/05/24	1350	GW	8	X									X		X	X	X	X		
2	AMW-11-20241204	12/04/24	1418		3	X																
3	AMW-15-20241205	12/05/24	0910		8	X									X		X	X	X	X		
4	AMW-16-20241205	12/05/24	1025		9	X					X				X		X	X	X	X		
5	AMW-17-20241206	12/06/24	1100		10	X					X				X		X	X	X	X		~~NWTPH-Dx With and w/out Silica Gel Cleanup~~ RN 12/06/24
6	AMW-18-20241204	12/04/24	1345		3	X																
7	AMW-19-20241205	12/05/24	1455		8	X									X		X	X	X	X		
8	AMW-20-20241205	12/05/24	1235		9	X					X				X		X	X	X	X		NWTPH-Dx With and w/out Silica Gel Cleanup
9	AMW-22-20241204	12/04/24	1410		3	X																
10	AMW-23-20241204	12/04/24	1532	↓		X																

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, (GW = Ground Water), SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite (Chloride) (Sulfate) Bromide O-Phosphate Fluoride (Nitrate+Nitrite)

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Risi Naa	12/06/24 / 1245	x	Clare Griggs	12/6/24 14:35
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical — An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 12/06/2024 Page: 2 of: 3

Laboratory Project No (internal): 2412118

Project Name: Maddux Groundwater Monitoring

Special Remarks:
(*) Dissolved Fe - Field Filtered (FF)
- Report ORO as DRO if Chromatogram resembles diesel
- ~~Analyze AMW-27 and AMW-17 for Dx with and without Silica Gel Cleanup~~ RW 12/06/24

Client: Aspect Consulting

Project No: AS160324 N

Address: 710 2nd Ave Suite #550

Collected by: Risi Naa; Kelden Larsen

City, State, Zip: Seattle, WA 98104

Location: 2810 S McClellan St., Seattle, WA

Telephone: (206) 780-7724

Report To (PM): Andrew Yonkofski; Hannah Cohen

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): Andrew.Yonkofski; Hannah.Cohen@aspectconsulting.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) / Dissolved (D)	Anions (IC)**	EDB (8011)	(*) Dissolved Fe EPA 6020	Ethane, Ethene, Methane RSK 175	TOC EPA 415.1/SW 9060	Alkalinity by SM2320B	Comments
1 AMW-24-20241205	12/05/24	0845	GW	8	X								X			X	X	X	X	NWTPH-Dx with and w/out Silica Gel cleanup
2 AMW-25-20241204	12/04/24	1510		3	X															
3 AMW-26-20241205	12/05/24	1055		3	X															
4 AMW-27-20241206	12/06/24	1002		10	X			X					X			X	X	X	X	NWTPH-Dx with and w/out Silica Gel cleanup
5 AMW-28-20241205	12/05/24	1352		4	X			X												NWTPH-Dx with and w/out Silica Gel Cleanup
6 AMW-29-20241205	12/05/24	1005		3	X															
7 HC-MW-05-20241205	12/05/24	1225		8	X								X			X	X	X	X	
8 HC-MW-06-20241206	12/06/24	1615		.	X															
9 MW-05-20241205	12/05/24	1450		4	X			X												
10 MW-07-20241204	12/04/24	1635	↓	3	X															

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, (GW = Ground Water), SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

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Chain of Custody Record & Laboratory Services Agreement

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An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 12/06/2024 Page: 3 of: 3

Laboratory Project No (internal): 2412118

Project Name: Maddux Groundwater Monitoring

Special Remarks: (*) Dissolved Fe - Field Filtered (FF)
- Report ORO as DRO if chromatogram resembles diesel.
- Analyte AMW-~~20~~, AMW-24, AMW-~~28~~ and AMW-24 for DX with and without Silica Gel Cleanup

Client: Aspect Consulting

Project No: AS160324N

Address: 710 2nd Ave Suite #550

Collected by: Risi Naa; Kelden Larsen

City, State, Zip: Seattle, WA 98104

Location: 2810 S. McClellan St, Seattle, WA

Telephone: (206) 780-7724

Report To (PM): Andrew.Yonkofski; Hannah Cohen

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): Andrew.Yonkofski; Hannah.Cohen@aspectconsulting.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	cVOCs (EPA 8260D / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	(*) Dissolved Fe EPA 6020	Ethane, Ethene, Methane RSK 175	TOC EPA 415.1 / SW 846 9060	Alkalinity SM 2320 B	Comments
1 MW-10-20241205	12/05/24	1149	GW	4	X				X											
2 DUP-1-20241205	12/05/24	1200		9	X				X				X		X	X	X	X	X	RN 12/06/24
3 DUP-2-20241204	12/04/24	1200	↓	3	X															
4 Trip Blank				1	X															
5																				
6																				
7																				
8																				
9																				
10																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, (GW = Ground Water), SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite (Chloride) (Sulfate) Bromide O-Phosphate Fluoride (~~Nitrate+Nitrite~~)

Turn-around Time:
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x	Risi Naa	12/05/24 1245	x	Clare Griggs	12/6/24 14:35
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x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical — An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 12/06/2024 Page: 1 of: 3

Laboratory Project No (internal): 2412118

Project Name: Maddux Groundwater Monitoring

Special Remarks:
(*) Dissolved Fe were field-filtered (FF)
- Report ORO as DRO if chromatogram resembles diesel
- ~~Analyze AMW-07 and AMW-17 for Dx with and without Silica Gel Cleanup~~. RN 12/06/24

edits per RN 12/6/24 -cg

Client: Aspect Consulting

Project No: AS160324 N

Address: 710 2nd Ave Suite #550

Collected by: Risi Naa, Kelden Larsen

City, State, Zip: Seattle, WA 98104

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Email(s): Andrew.yonkofski; Hannah.Cohen@aspectconsulting.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	cVOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	* Dissolved Fe EPA 6020	Ethane, Ethene, Methane RSK 175	TOC EPA 415.1/SW 8465 9060	Alkalinity by SM2320B	Comments
1	AMW-06-20241205	12/05/24	1350	GW	8	X								X		X	X	X	X		
2	AMW-11-20241204	12/04/24	1418		3	X															
3	AMW-15-20241205	12/05/24	0910		8	X								X		X	X	X	X		
4	AMW-16-20241205	12/05/24	1025		9	X				X				X		X	X	X	X		
5	AMW-17-20241206	12/06/24	1100		10	X				X				X		X	X	X	X		~~NWTPH-Dx With and w/out Silica Gel Cleanup~~ RN 12/06/24
6	AMW-18-20241204	12/04/24	1345		3	X															
7	AMW-19-20241205	12/05/24	1455		8	X								X		X	X	X	X		
8	AMW-20-20241205	12/05/24	1235		9	X				X				X		X	X	X	X		NWTPH-Dx With and w/our Silica Gel Cleanup
9	AMW-22-20241204	12/04/24	1410		3	X															
10	AMW-23-20241204	12/04/24	1532	↓		X															

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, (GW = Ground Water), SW = Storm Water, WW = Waste Water

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***Anions (Circle): (Nitrate) (Nitrite) (Chloride) (Sulfate) Bromide O-Phosphate Fluoride ~~Nitrate-Nitrite~~

Turn-around Time:
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Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 12/06/2024 Page: 2 of: 3

Laboratory Project No (internal): 2412118

Project Name: Maddux Groundwater Monitoring

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Project No: AS160324 N

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Collected by: Risi Naa; Kelden Larsen

City, State, Zip: Seattle, WA 98104

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Email(s): Andrew.Yonkofski; Hannah.Cohen@aspectconsulting.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	cVOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	(*) Dissolved Fe EPA 6020	Ethane, Ethene, Methane RSK 175	TOC EPA 415.1 / SW 9060	Alkalinity by SM2320B	Comments
1	AMW-24-20241205	12/05/24	0845	GW	8	X									X		X	X	X	X	NWTPH-Dx with and w/out Silica Gel cleanup
2	AMW-25-20241204	12/04/24	1510		3	X															
3	AMW-26-20241205	12/05/24	1055		3	X															
4	AMW-27-20241206	12/06/24	1002		10	X			X						X		X	X	X	X	NWTPH-Dx with and w/out Silica Gel cleanup
5	AMW-28-20241205	12/05/24	1352		4	X			X												NWTPH-Dx with and w/out Silica Gel Cleanup
6	AMW-29-20241205	12/05/24	1005		3	X															
7	HC-MW-05-20241205	12/05/24	1225		8	X									X		X	X	X	X	
8	HC-MW-06-20241206	12/06/24	1615			X															
9	MW-05-20241205	12/05/24	1450		4	X			X												
10	MW-07-20241204	12/04/24	1635	↓	3	X															

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, (GW = Ground Water), SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): (Nitrate) (Nitrite) (Chloride) (Sulfate) Bromide O-Phosphate Fluoride ~~Nitrate-Nitrite~~

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Risi Naa	12/06/24 / 1245	x	Clare Griggs	12/6/24 14:35
Relinquished (Signature) x	Print Name	Date/Time	Received (Signature) x	Print Name	Date/Time

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 12/06/2024 Page: 3 of: 3

Laboratory Project No (internal): 2412118

Project Name: Maddux Groundwater Monitoring

Special Remarks: (1) Dissolved Fe - Field Filtered (FF)
- Report ORO as DRO if chromatogram resembles diesel.
- Analyte AMW-~~20~~, AMW-24, AMW-~~28~~ 24 for DX with and without Silica Gel Cleanup

Client: Aspect Consulting

Project No: AS160324N

Address: 710 2nd Ave Suite #550

Collected by: Risi Naa; Kelden Larsen

City, State, Zip: Seattle, WA 98104

Location: 2810 S. McClellan St, Seattle, WA

Telephone: (206) 780-7724

Report To (PM): Andrew.Yonkofski; Hannah Cohen

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): Andrew.Yonkofski; Hannah.Cohen@aspectconsulting.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260D / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	(1) Dissolved Fe EPA 6020	Ethane, Ethene, Methane RSK 175	TIC EPA 415.1 / SW 846 9060	Alkalinity SM 2320 B	Comments
1 MW-10 - 20241205	12/05/24	1149	GW	4	X				X											
2 DUP-1-20241205	12/05/24	1200	↓	9	X				X				X		X	X	X	X	X	RN 12/06/24
3 DUP-2-20241204	12/04/24	1200	↓	3	X															
4 Trip Blank				1	X															
5																				
6																				
7																				
8																				
9																				
10																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, (GW = Ground Water), SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): (Nitrate) (Nitrite) (Chloride) (Sulfate) Bromide O-Phosphate Fluoride ~~Nitrate+Nitrite~~

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x [signature]	Risi Naa	12/05/24 | 1245	x [signature]	Clare Griggs	12/6/24 14:35
Relinquished (Signature) x	Print Name	Date/Time	Received (Signature) x	Print Name	Date/Time

Andrew Yonkofski

From: Matt Langston <matt.langston@AllianceTG.com>
Sent: Thursday, January 30, 2025 10:25 AM
To: Hannah Cohen; Risi Naa
Cc: Fremont Analytical Info
Subject: Review of Maddux Chromatography
Attachments: 118_CR_96321.pdf; 118_SGT_CR_96328.pdf; 118_SGT_CR_96356.pdf; 118_CR_96251.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Hannah,

As requested, I've reviewed the attached chromatography from the latest round of testing at the Maddux site. Sample well AMW-28-20241205 was analyzed for diesel- and oil-range organics by NWTPH-Dx, both with and without silica gel treatment. The chromatography associated with the untreated extract does not match a fuel pattern, but rather is consistent with chromatography I've observed in wells containing EOX or similar bioremediation products. The silica gel treatment removed much of the material, however a quantity of material remained—the chromatography of this remaining material is consistent with that observed in the untreated extract, revealing no indication of product that could have been masked in the untreated extract.

Alliance Technical Group exclusively uses the silica gel column technique endorsed by Ecology in the November 2023 memo, and favored that technique for its robustness in advance of the memo. However, a sufficient quantity of polar material may still saturate the column and pass through into the treated extract. Given the decrease in abundance but similarity in appearance of the material observed, it is likely that successive treatments with silica gel would have removed additional material, up to the entirety of the material observed.

Let me know if you have any additional questions or if I can provide anything further.

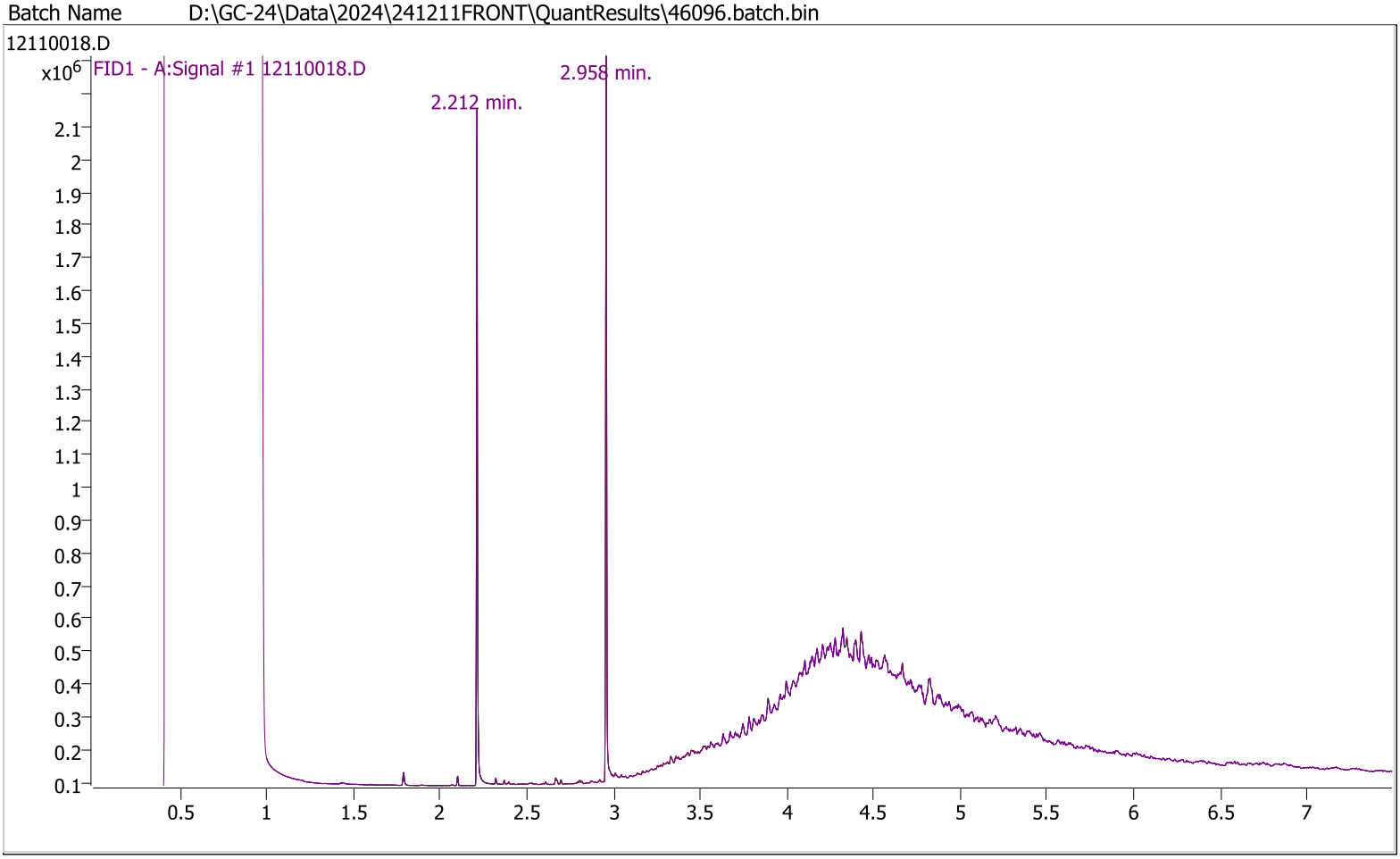
Thank you!

Matt Langston
Laboratory Director (he/him)
Office: 206-352-3790 | **Mobile:** 206-853-2818
Address: 3600 Fremont Ave N, Seattle, WA 98103
www.alliancetg.com

Quantitation Results Report

Agilent Technologies

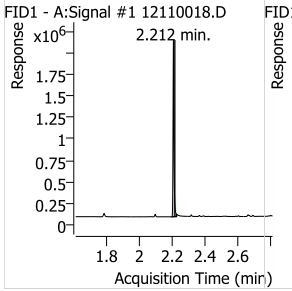
Data File	12110018.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/11/2024 10:41:48 AM
Sample Name:	OIL-CCV		dualfid
Vial	2	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241211FRONT\QuantResults\46096.batch.bin		



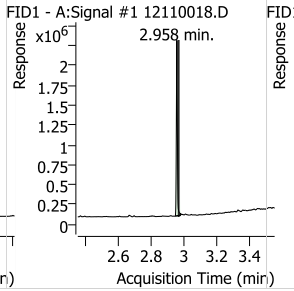
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.212	829940	8.759	ug/mL	-0.004
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	2.958	962105	9.057	ug/mL	0.004
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	2.195	0		md	
Heavy Oil	2.958	30859529	505.016	ug/mL	m

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

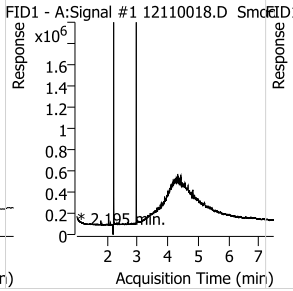
2-Fluorobiphenyl



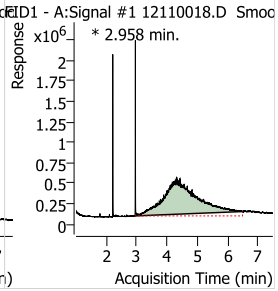
O-Terphenyl



Diesel



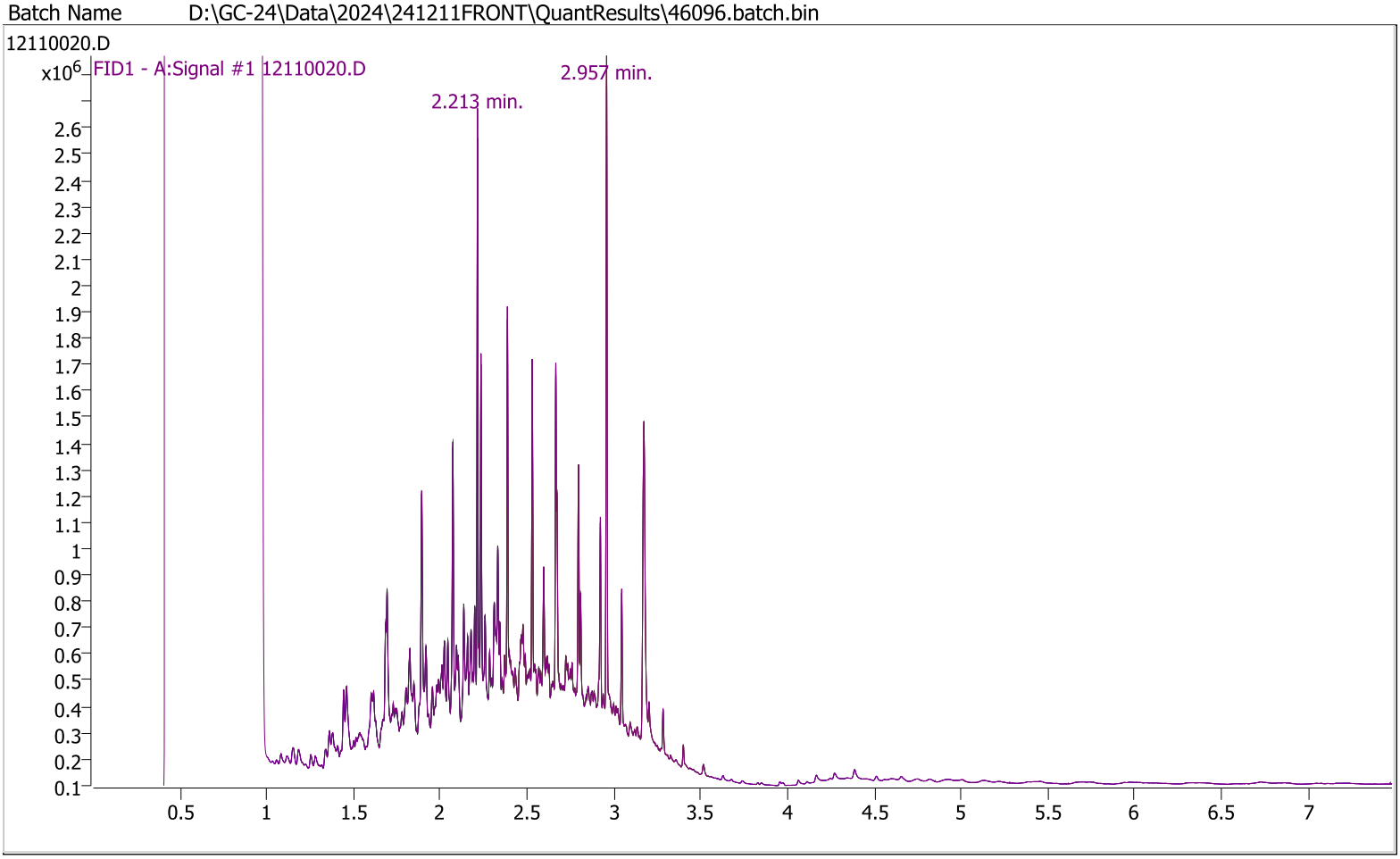
Heavy Oil



Quantitation Results Report

Agilent Technologies

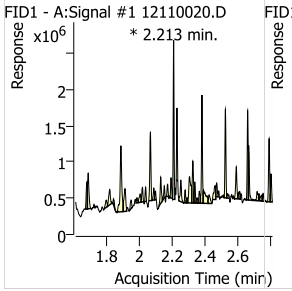
Data File	12110020.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/11/2024 10:53:31 AM
Sample Name:	DX-CCV		dualfid
Vial	1	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241211FRONT\QuantResults\46096.batch.bin		



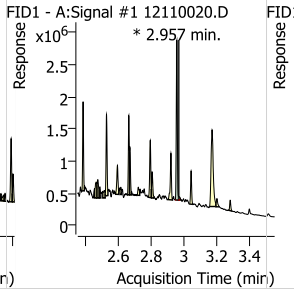
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.213	762461	8.047	ug/mL	m	-0.003
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	2.957	1091538	10.275	ug/mL	m	0.004
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.957	44376178	473.752	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

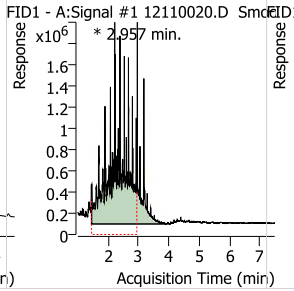
2-Fluorobiphenyl



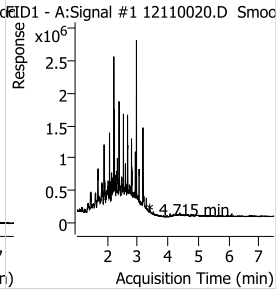
O-Terphenyl



Diesel



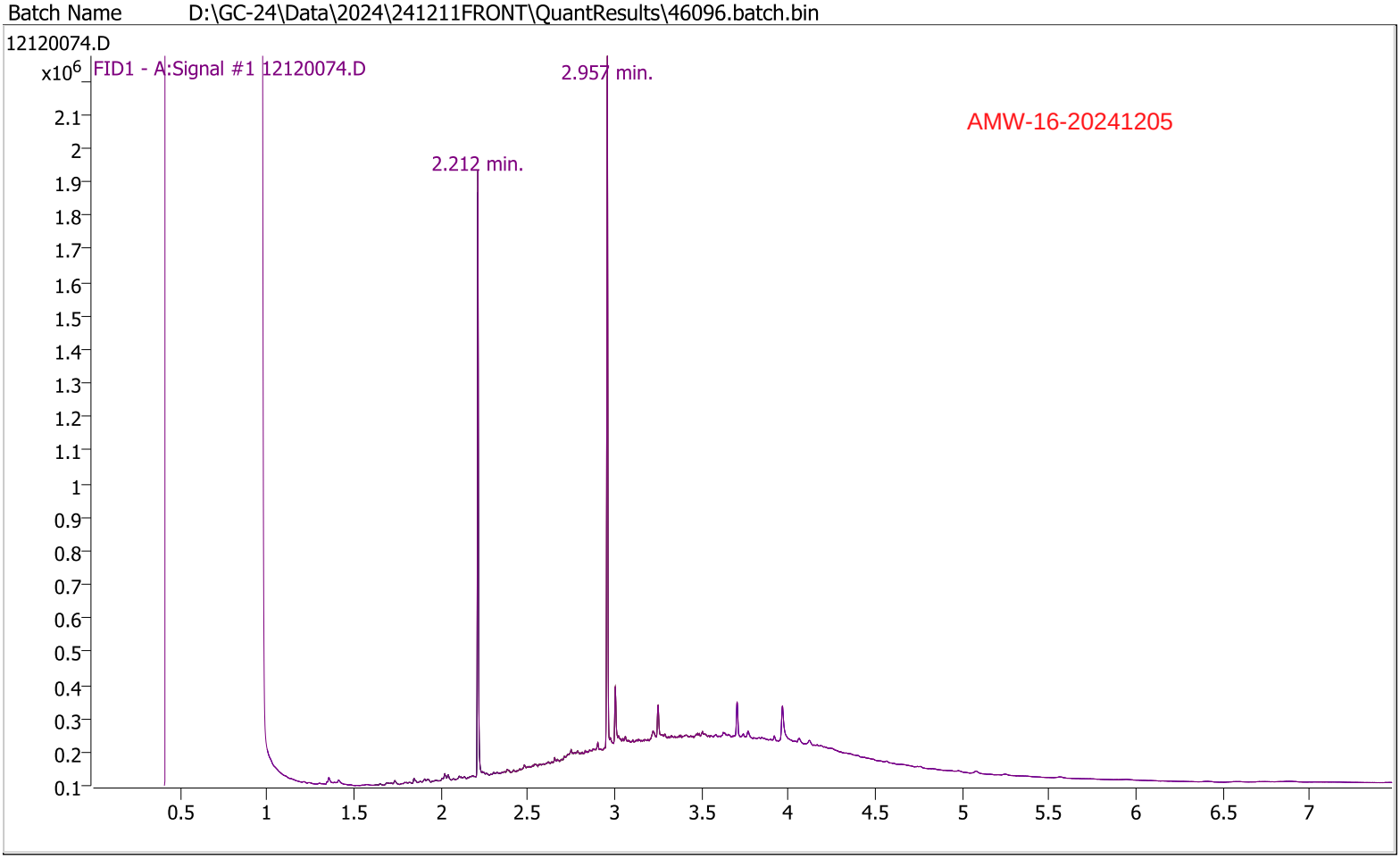
Heavy Oil



Quantitation Results Report

Agilent Technologies

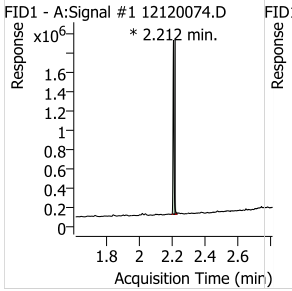
Data File	12120074.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/12/2024 8:52:28 PM
Sample Name:	2412118-004F		dualfid
Vial	57	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241211FRONT\QuantResults\46096.batch.bin		



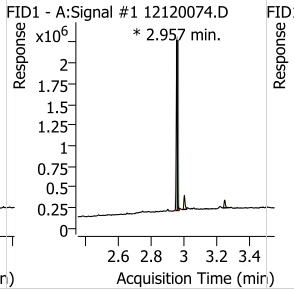
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.212	721158	7.611	ug/mL	m	-0.004
Spiked Amount:	Range: - %			Recovery =	NA%	
O-Terphenyl	2.957	871563	8.205	ug/mL	m	0.004
Spiked Amount:	Range: - %			Recovery =	NA%	
Target Compounds						
Diesel	2.957	18181870	194.106	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

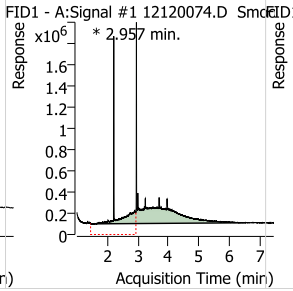
2-Fluorobiphenyl



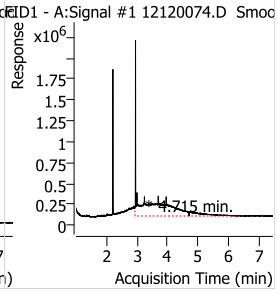
O-Terphenyl



Diesel



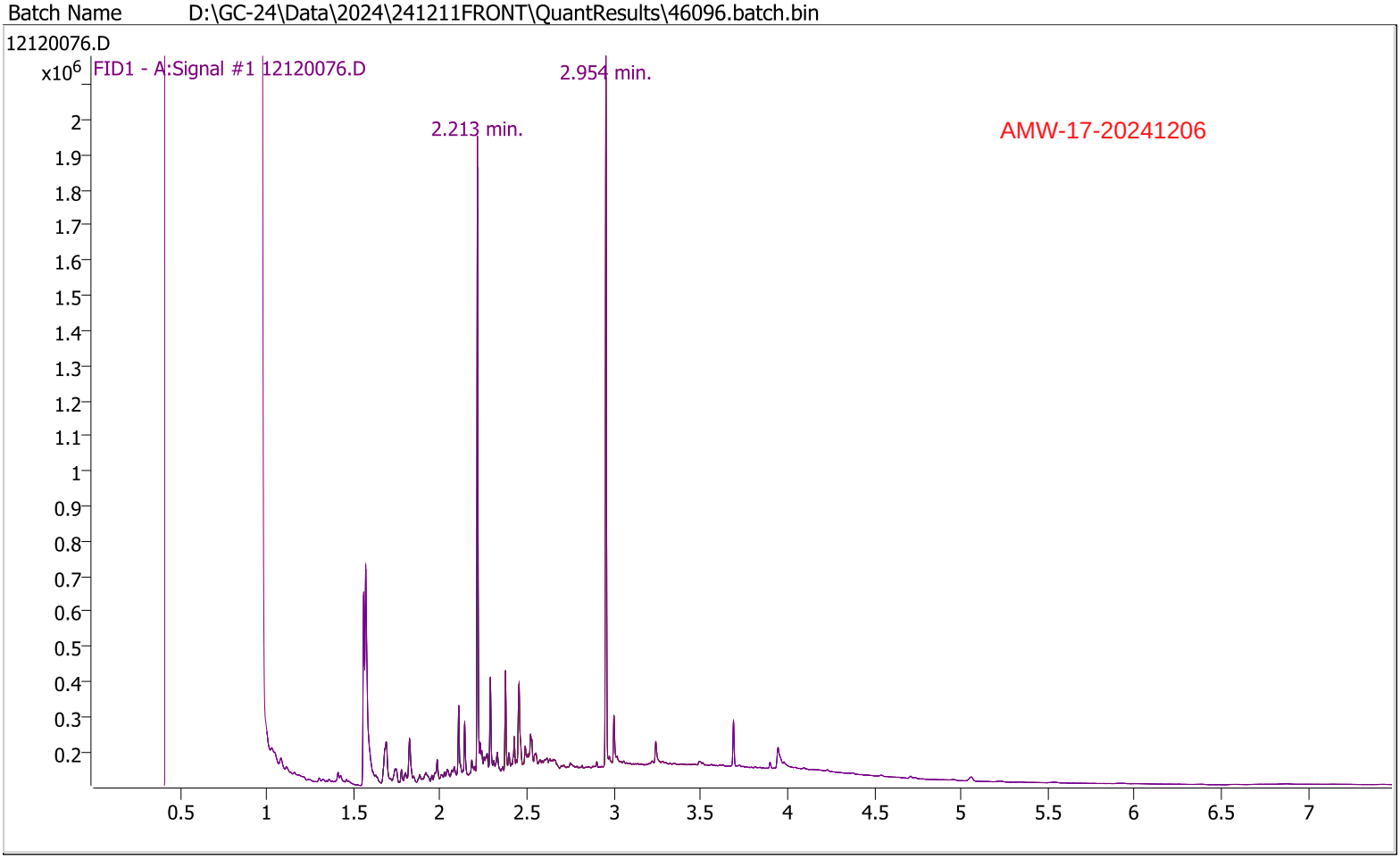
Heavy Oil



Quantitation Results Report

Agilent Technologies

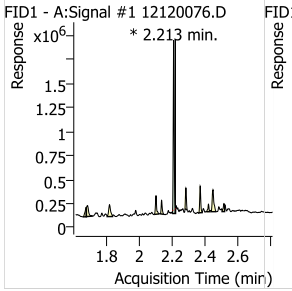
Data File	12120076.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/12/2024 9:04:12 PM
Sample Name:	2412118-005F		dualfid
Vial	58	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241211FRONT\QuantResults\46096.batch.bin		



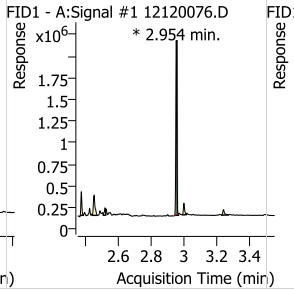
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.213	715116	7.547	ug/mL	m	-0.003
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	2.954	842838	7.934	ug/mL	m	0.000
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.954	11731366	125.242	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

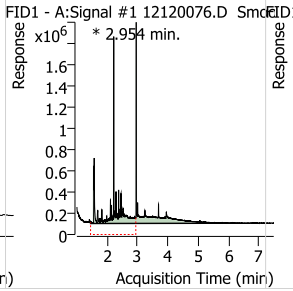
2-Fluorobiphenyl



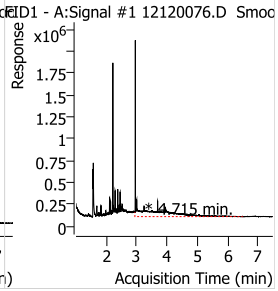
O-Terphenyl



Diesel



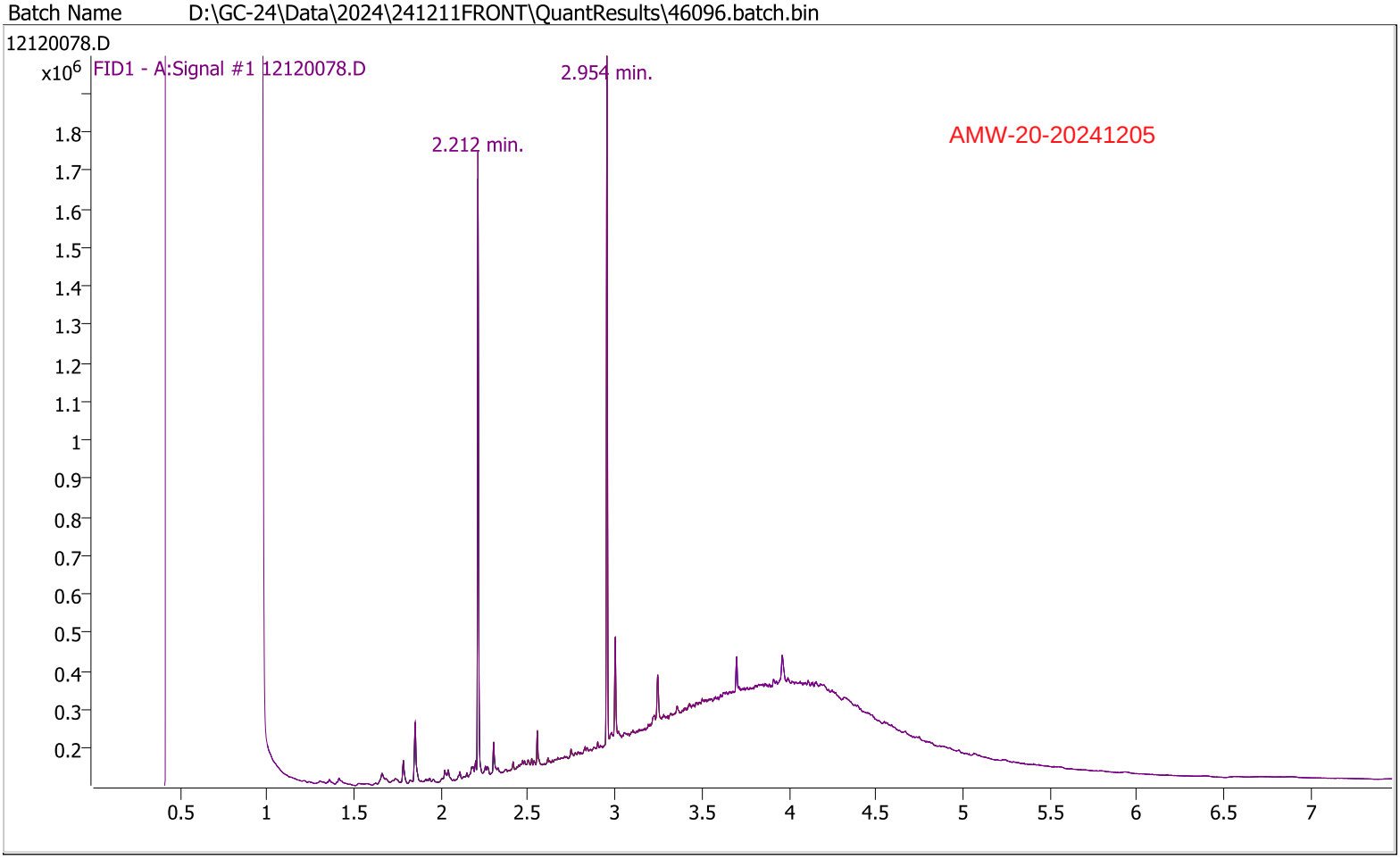
Heavy Oil



Quantitation Results Report

Agilent Technologies

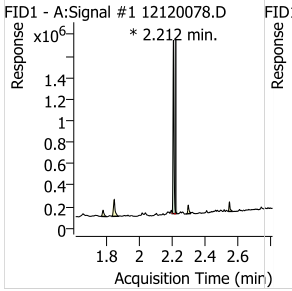
Data File	12120078.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/12/2024 9:16:18 PM
Sample Name:	2412118-008F		dualfid
Vial	59	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241211FRONT\QuantResults\46096.batch.bin		



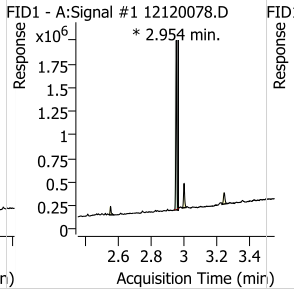
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.212	657633	6.940	ug/mL	m	-0.004
Spiked Amount:	Range: - %			Recovery =	NA%	
O-Terphenyl	2.954	737031	6.938	ug/mL	m	0.000
Spiked Amount:	Range: - %			Recovery =	NA%	
Target Compounds						
Diesel	2.954	28435640	303.574	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

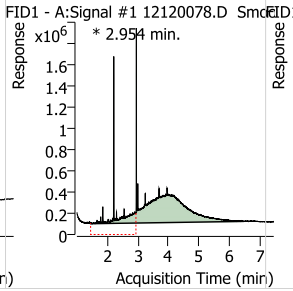
2-Fluorobiphenyl



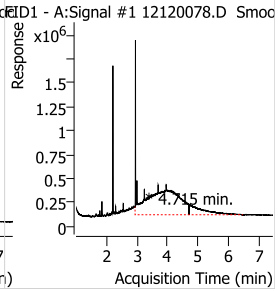
O-Terphenyl



Diesel



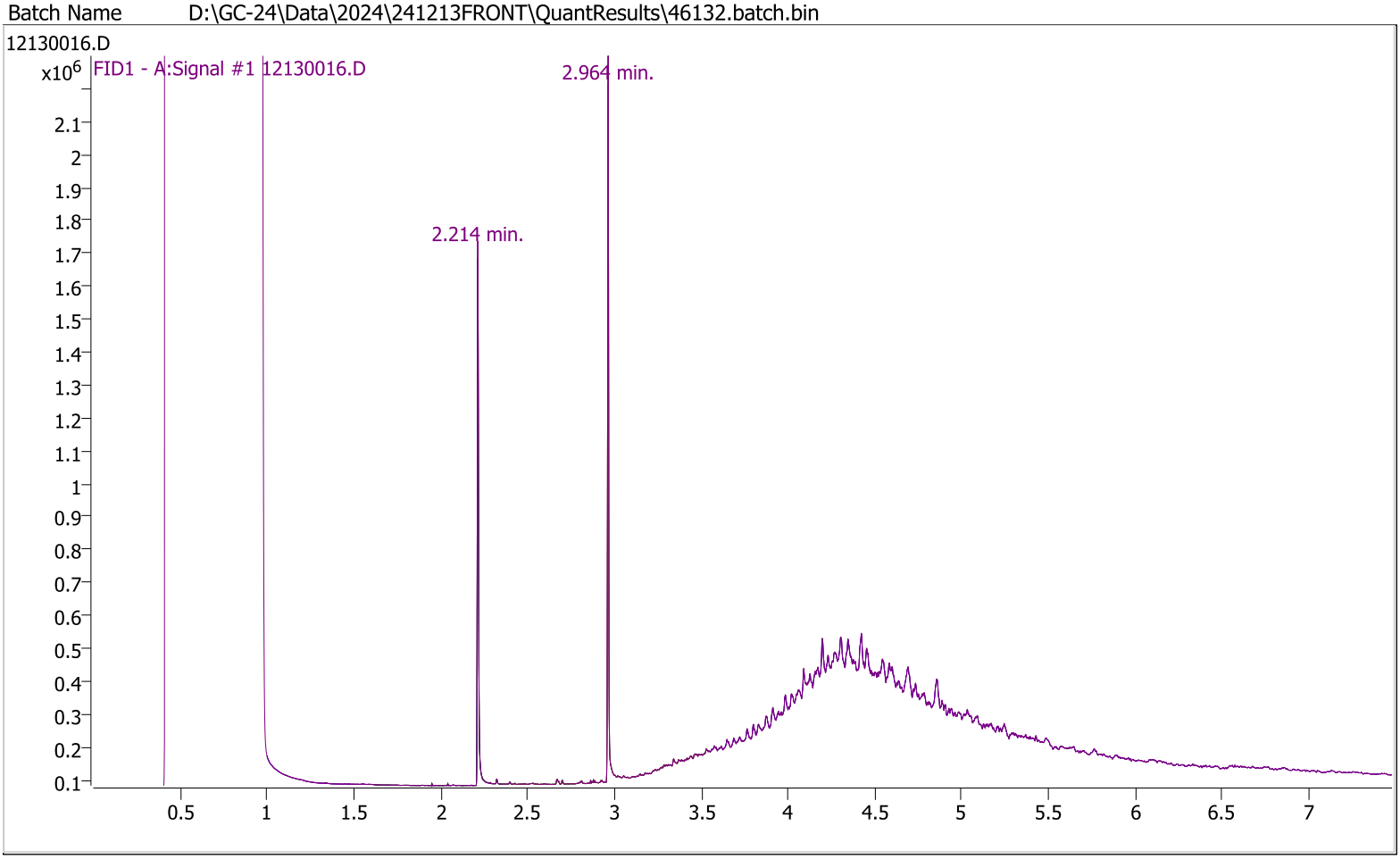
Heavy Oil



Quantitation Results Report

Agilent Technologies

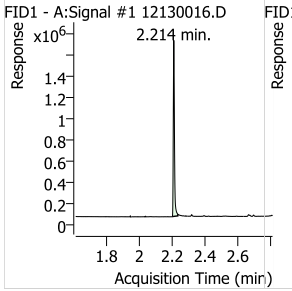
Data File	12130016.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 11:32:54 AM
Sample Name:	OIL-CCV		dualfid
Vial	2	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



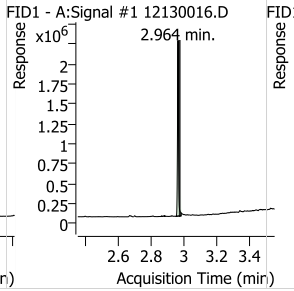
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.214	808925	8.537	ug/mL	-0.002
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	2.964	928397	8.740	ug/mL	0.011
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	2.195	0		md	
Heavy Oil	2.964	28823045	471.689	ug/mL	m

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

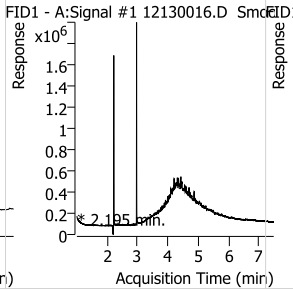
2-Fluorobiphenyl



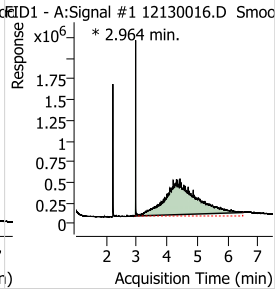
O-Terphenyl



Diesel



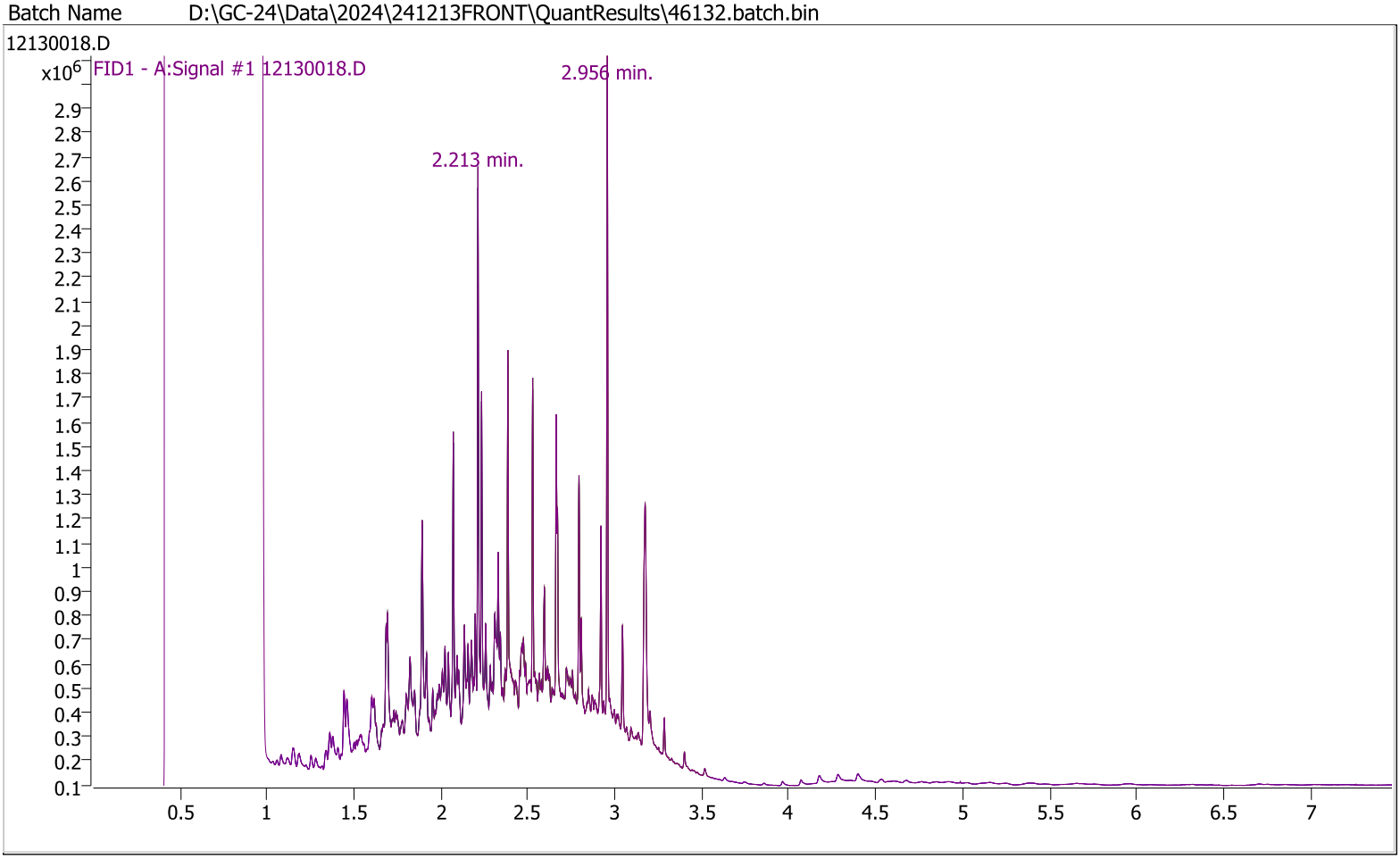
Heavy Oil



Quantitation Results Report

Agilent Technologies

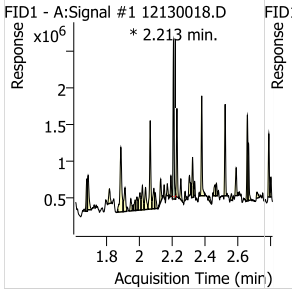
Data File	12130018.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 11:44:39 AM
Sample Name:	DX-CCV		dualfid
Vial	1	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



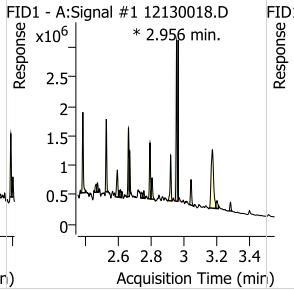
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.213	877763	9.263	ug/mL	m	-0.003
Spiked Amount:	Range: - %			Recovery =	NA%	
O-Terphenyl	2.956	1140087	10.732	ug/mL	m	0.003
Spiked Amount:	Range: - %			Recovery =	NA%	
Target Compounds						
Diesel	2.956	44638092	476.548	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

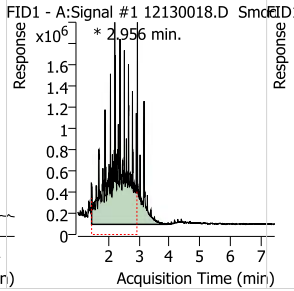
2-Fluorobiphenyl



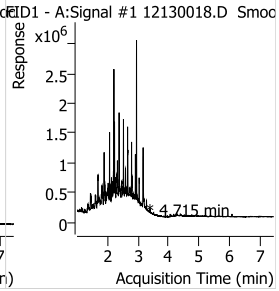
O-Terphenyl



Diesel



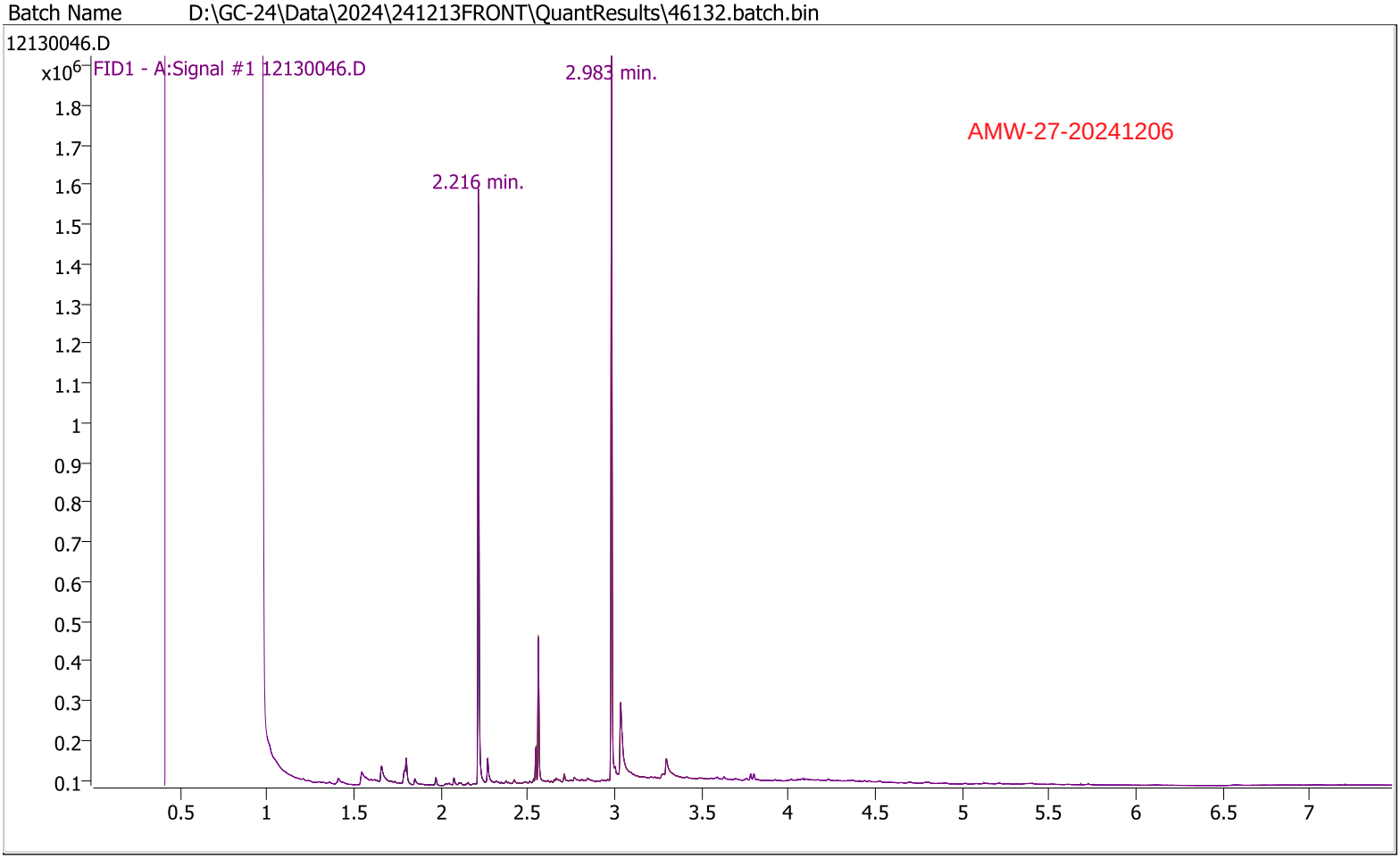
Heavy Oil



Quantitation Results Report

Agilent Technologies

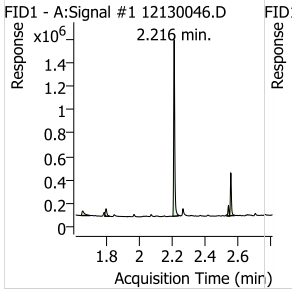
Data File	12130046.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 5:44:41 PM
Sample Name:	2412118-014F		dualfid
Vial	104	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



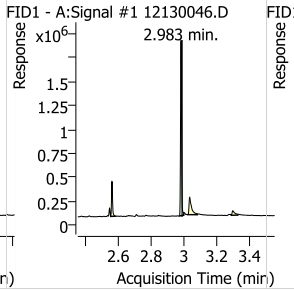
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.216	690009	7.282	ug/mL	0.000
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	2.983	789249	7.430	ug/mL	0.030
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	2.983	3084098	32.925	ug/mL	m
Heavy Oil	4.715	0			md

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

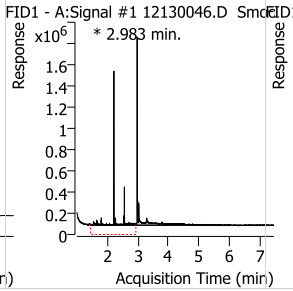
2-Fluorobiphenyl



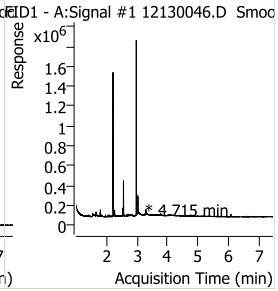
O-Terphenyl



Diesel



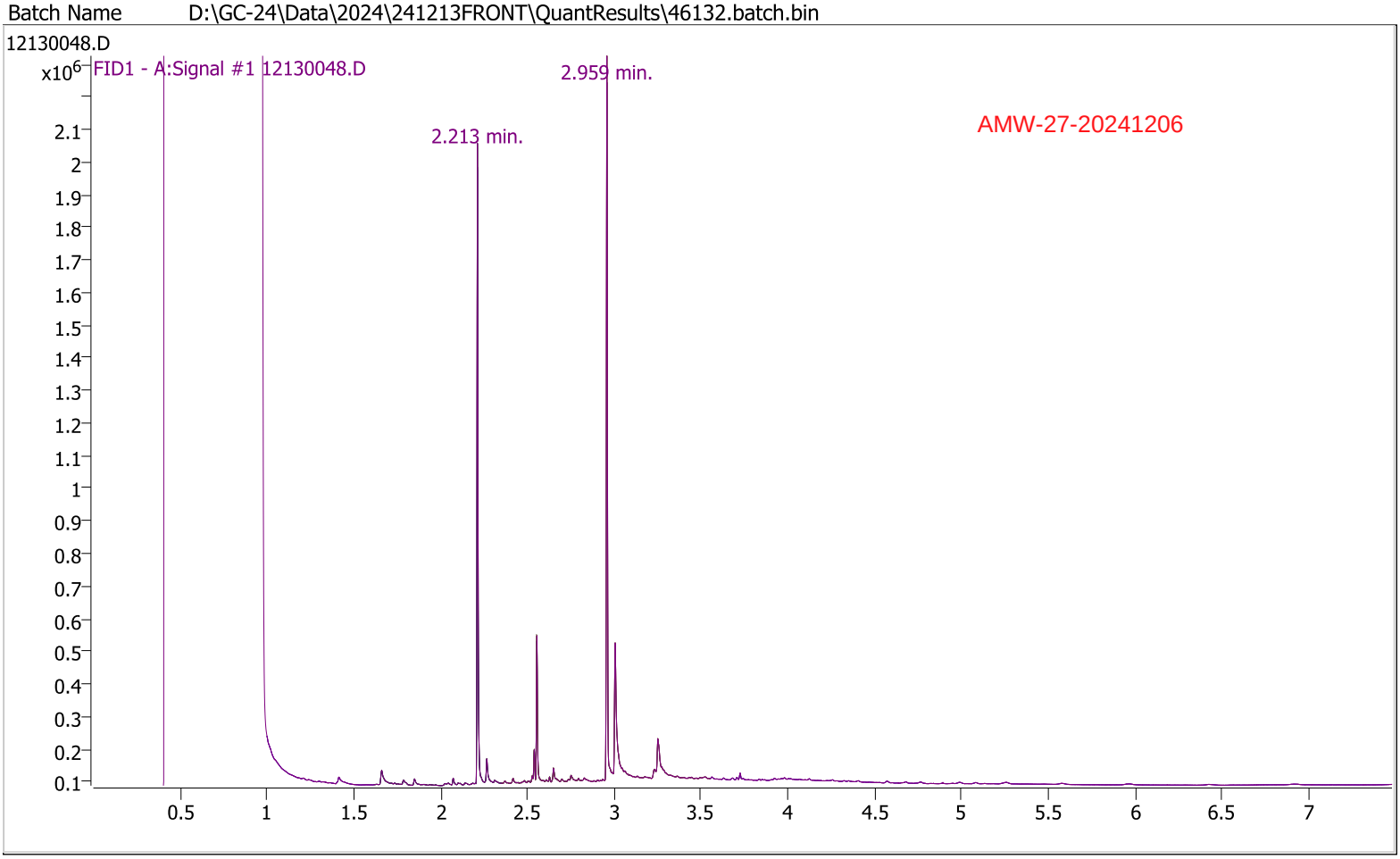
Heavy Oil



Quantitation Results Report

Agilent Technologies

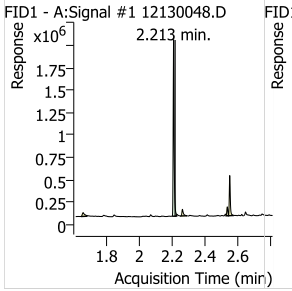
Data File	12130048.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 5:56:28 PM
Sample Name:	2412118-014FDUP		dualfid
Vial	105	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



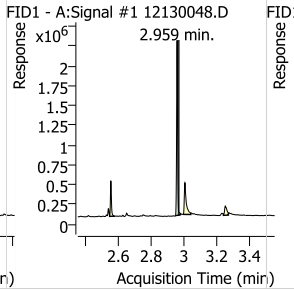
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.213	794936	8.389	ug/mL		-0.003
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	2.959	927353	8.730	ug/mL		0.005
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.959	3650496	38.972	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

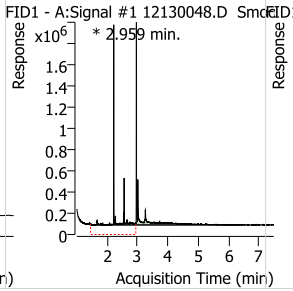
2-Fluorobiphenyl



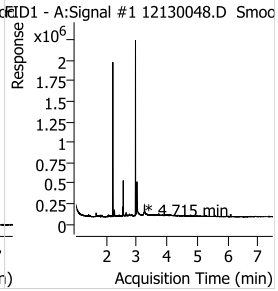
O-Terphenyl



Diesel



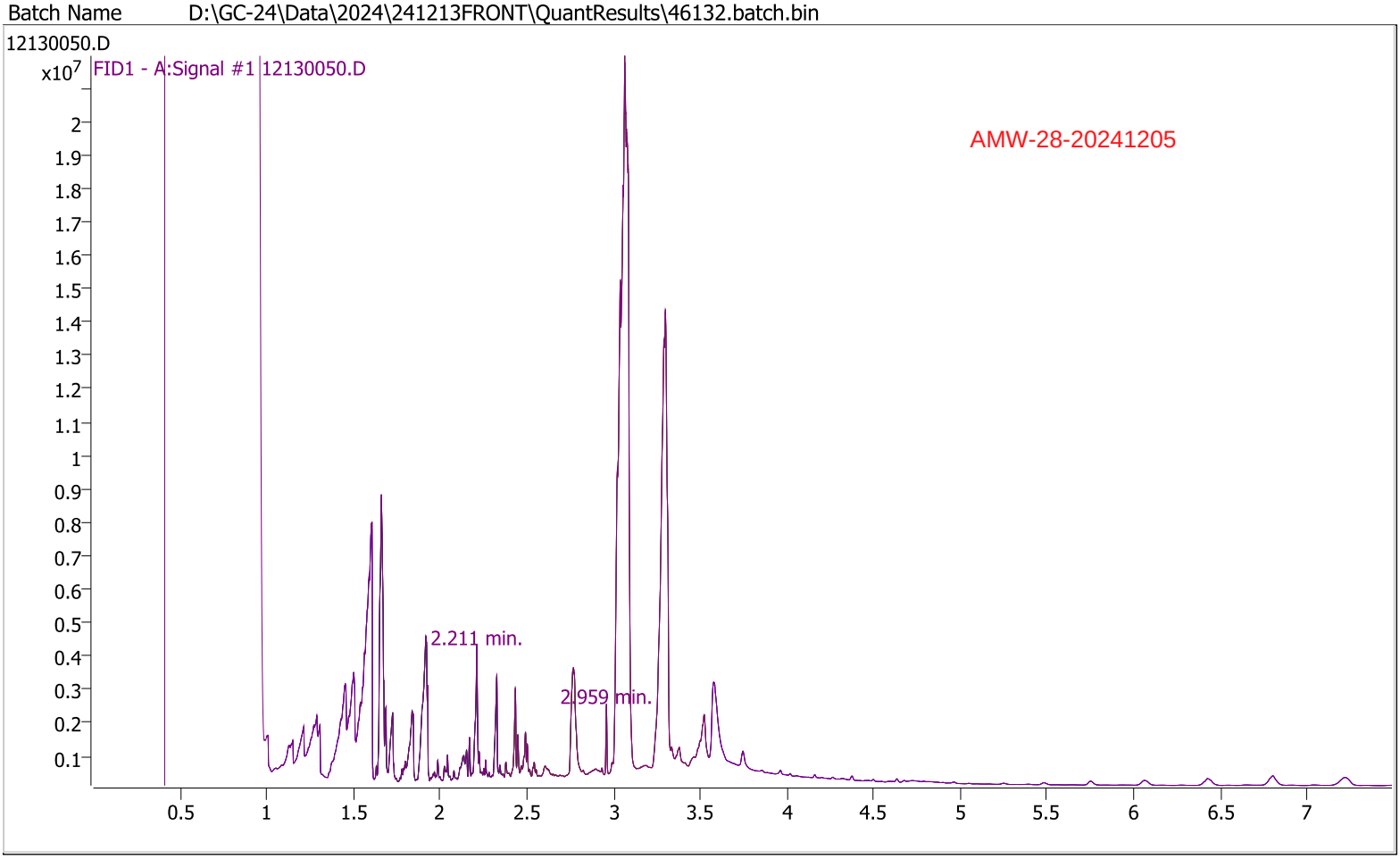
Heavy Oil



Quantitation Results Report

Agilent Technologies

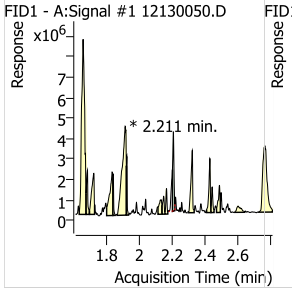
Data File	12130050.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 6:08:15 PM
Sample Name:	2412118-015B		dualfid
Vial	106	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



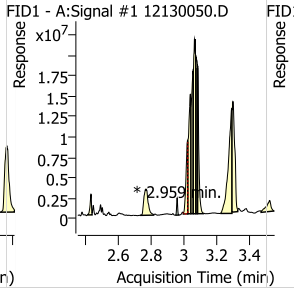
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.211	2009743	21.210	ug/mL	m	-0.005
Spiked Amount:	Range: - %			Recovery =	NA%	
O-Terphenyl	2.959	875819	8.245	ug/mL	m	0.006
Spiked Amount:	Range: - %			Recovery =	NA%	
Target Compounds						
Diesel	3.065	259149146	2766.627	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

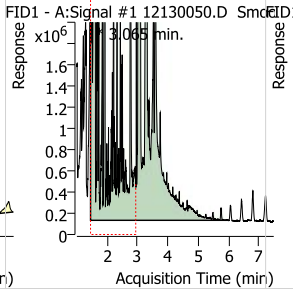
2-Fluorobiphenyl



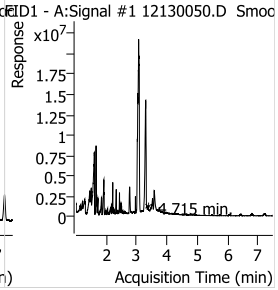
O-Terphenyl



Diesel



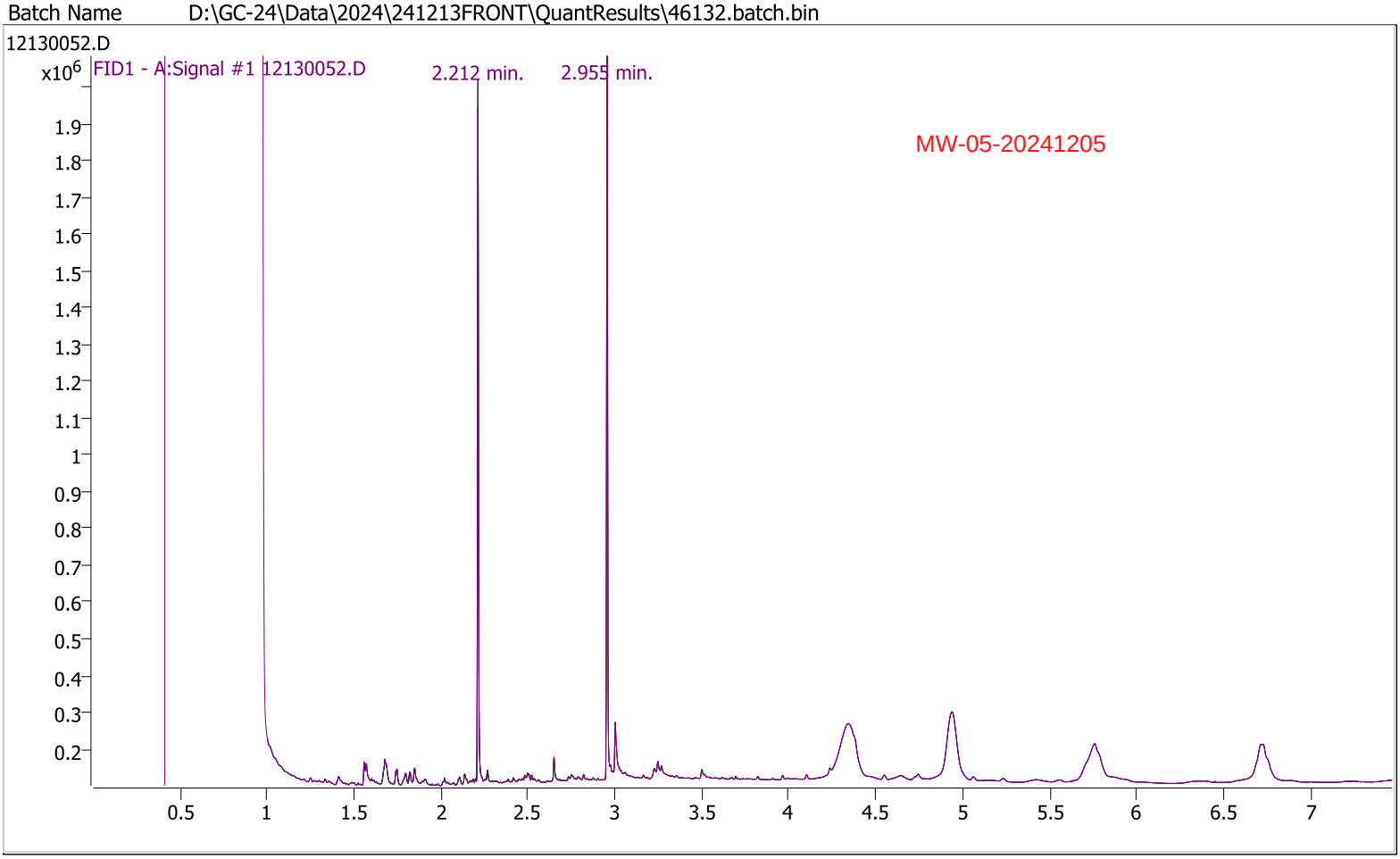
Heavy Oil



Quantitation Results Report

Agilent Technologies

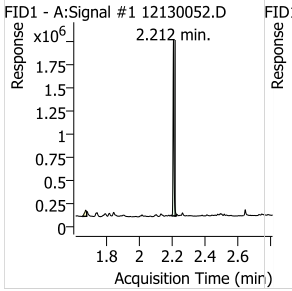
Data File	12130052.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 6:20:03 PM
Sample Name:	2412118-019B		dualfid
Vial	107	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



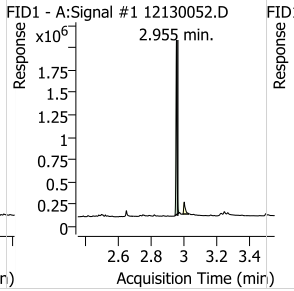
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.212	749279	7.907	ug/mL	-0.004
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	2.955	817056	7.692	ug/mL	0.001
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	2.955	5453039	58.216	ug/mL	m
Heavy Oil	4.715	0			md

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

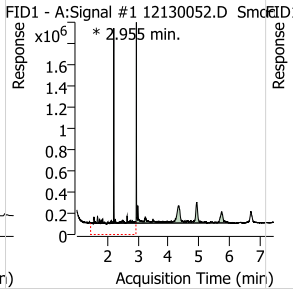
2-Fluorobiphenyl



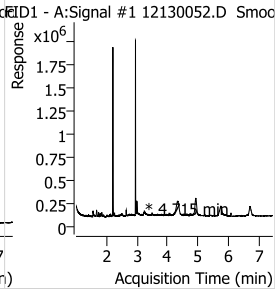
O-Terphenyl



Diesel



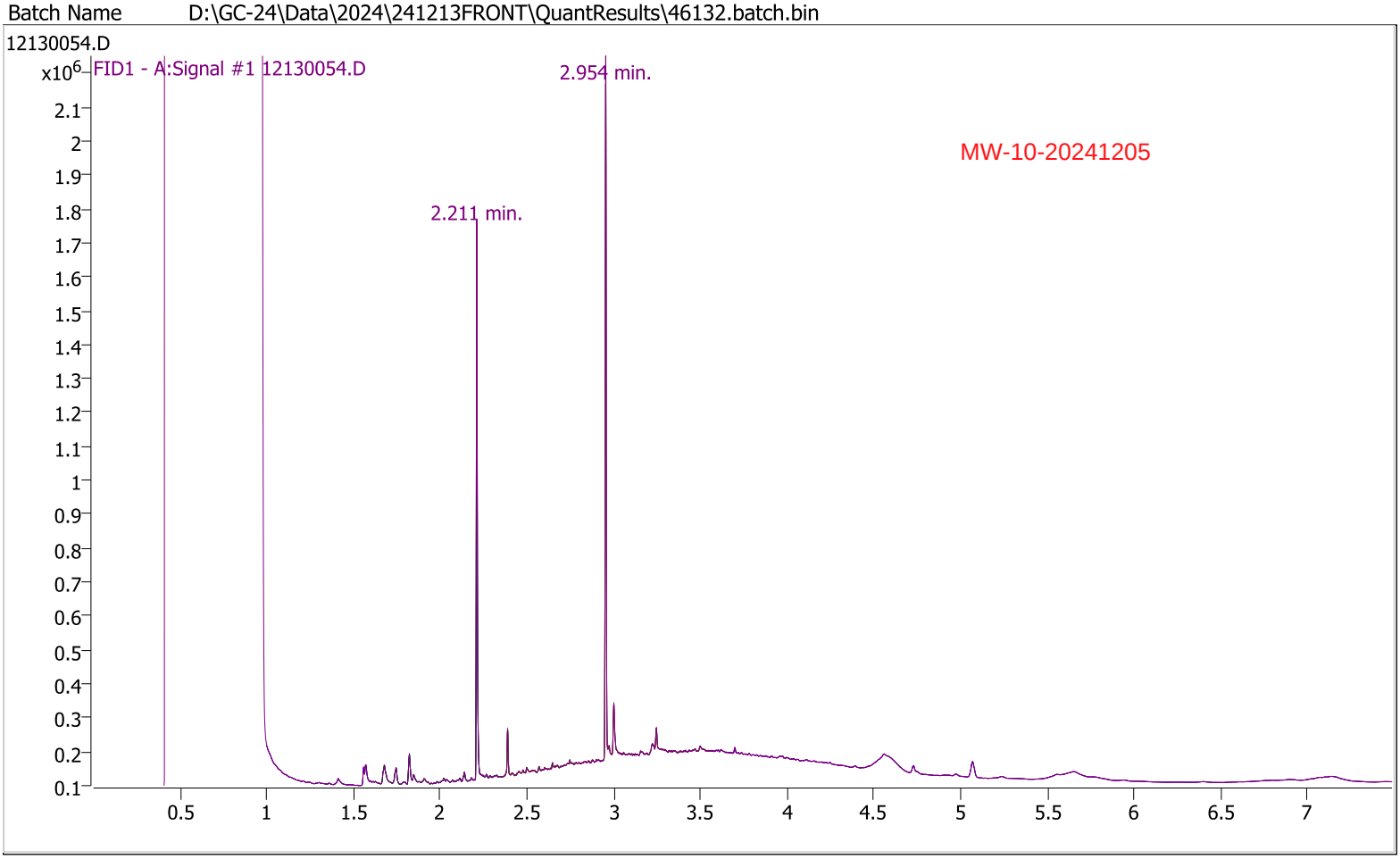
Heavy Oil



Quantitation Results Report

Agilent Technologies

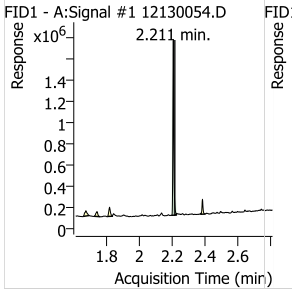
Data File	12130054.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 6:31:48 PM
Sample Name:	2412118-021B		dualfid
Vial	108	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



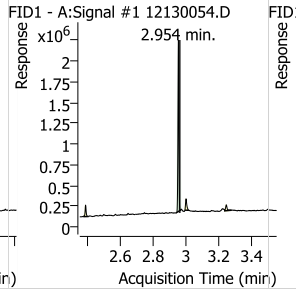
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.211	662564	6.992	ug/mL		-0.005
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	2.954	799376	7.525	ug/mL		0.001
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.954	13220959	141.144	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

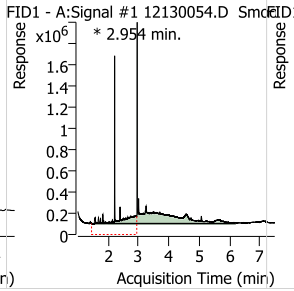
2-Fluorobiphenyl



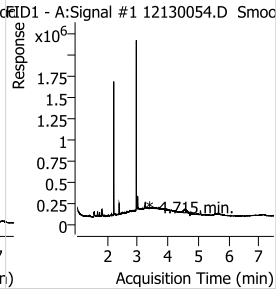
O-Terphenyl



Diesel



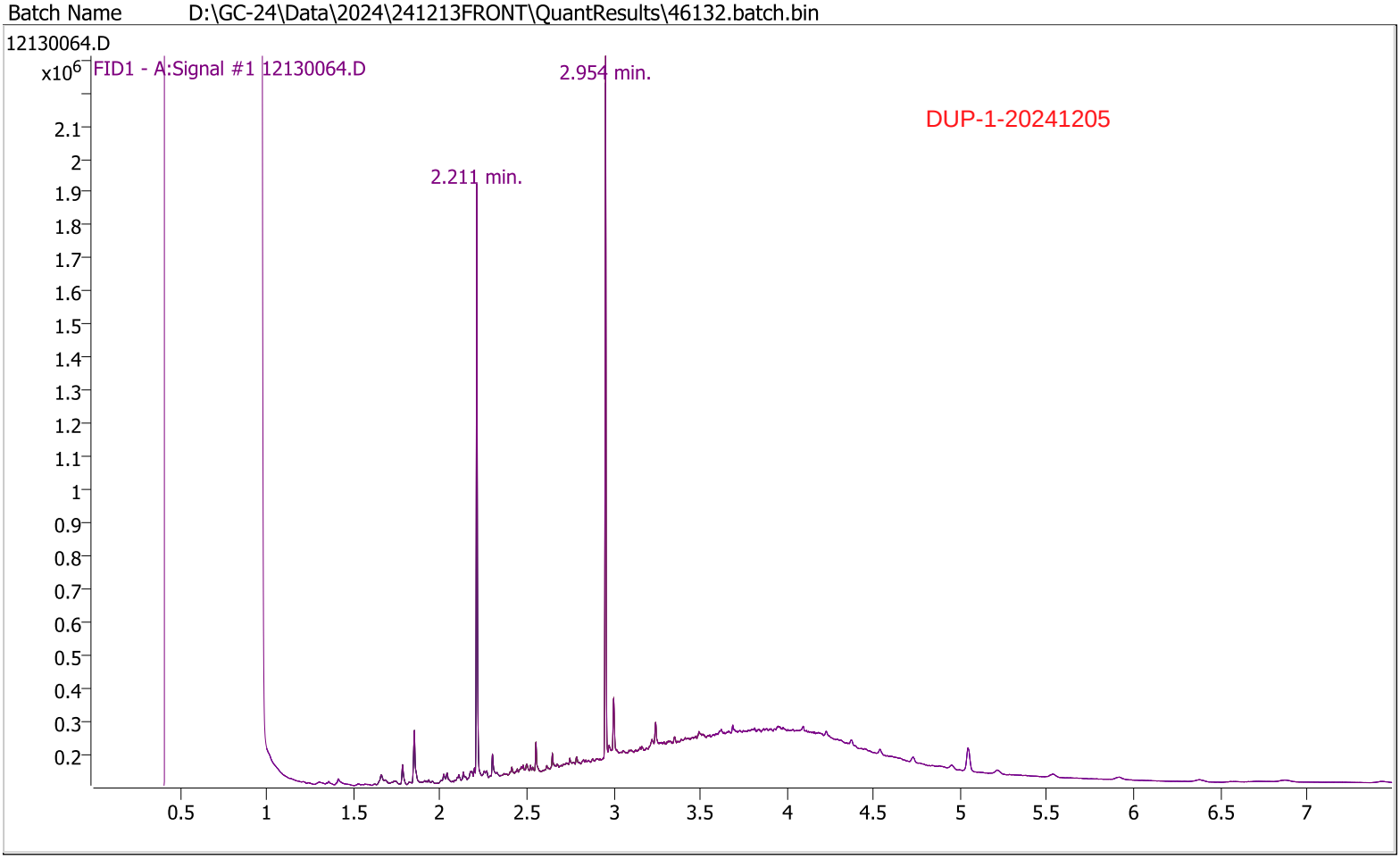
Heavy Oil



Quantitation Results Report

Agilent Technologies

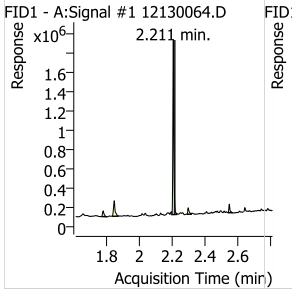
Data File	12130064.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 7:30:45 PM
Sample Name:	2412118-022F		dualfid
Vial	109	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



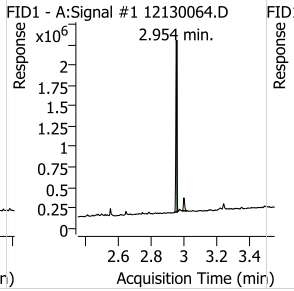
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.211	735711	7.764	ug/mL	-0.005
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	2.954	829348	7.807	ug/mL	0.001
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	2.954	19945984	212.940	ug/mL	m
Heavy Oil	4.715	0			md

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

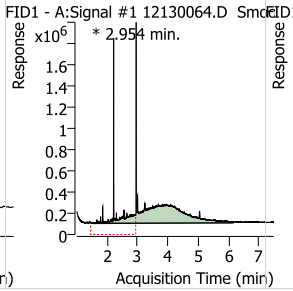
2-Fluorobiphenyl



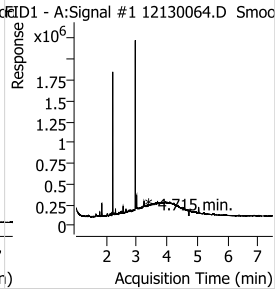
O-Terphenyl



Diesel



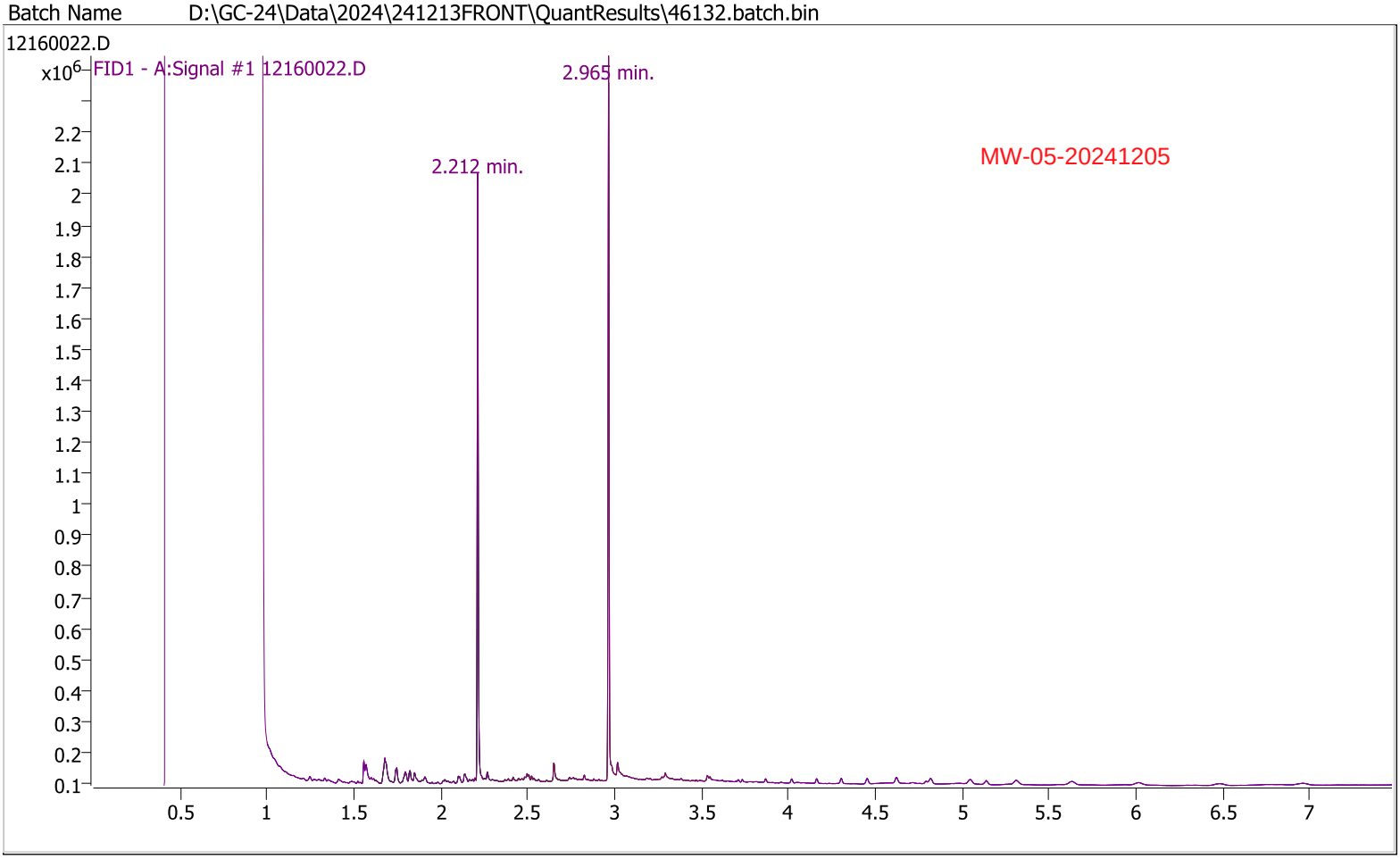
Heavy Oil



Quantitation Results Report

Agilent Technologies

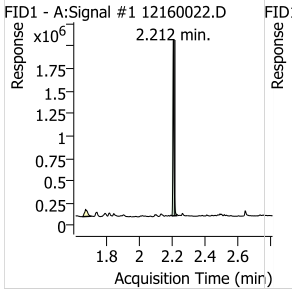
Data File	12160022.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/16/2024 11:39:15 AM
Sample Name:	2412118-019Brr		dualfid
Vial	107	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



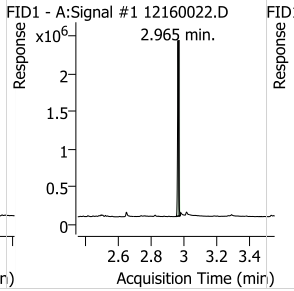
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.212	849113	8.961	ug/mL		-0.004
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	2.965	951416	8.956	ug/mL		0.011
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.965	3129348	33.408	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

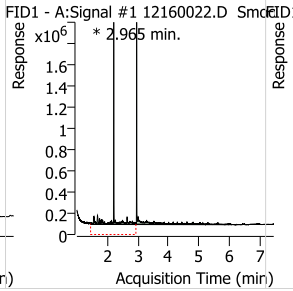
2-Fluorobiphenyl



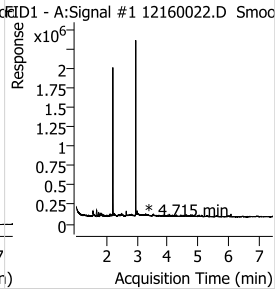
O-Terphenyl



Diesel



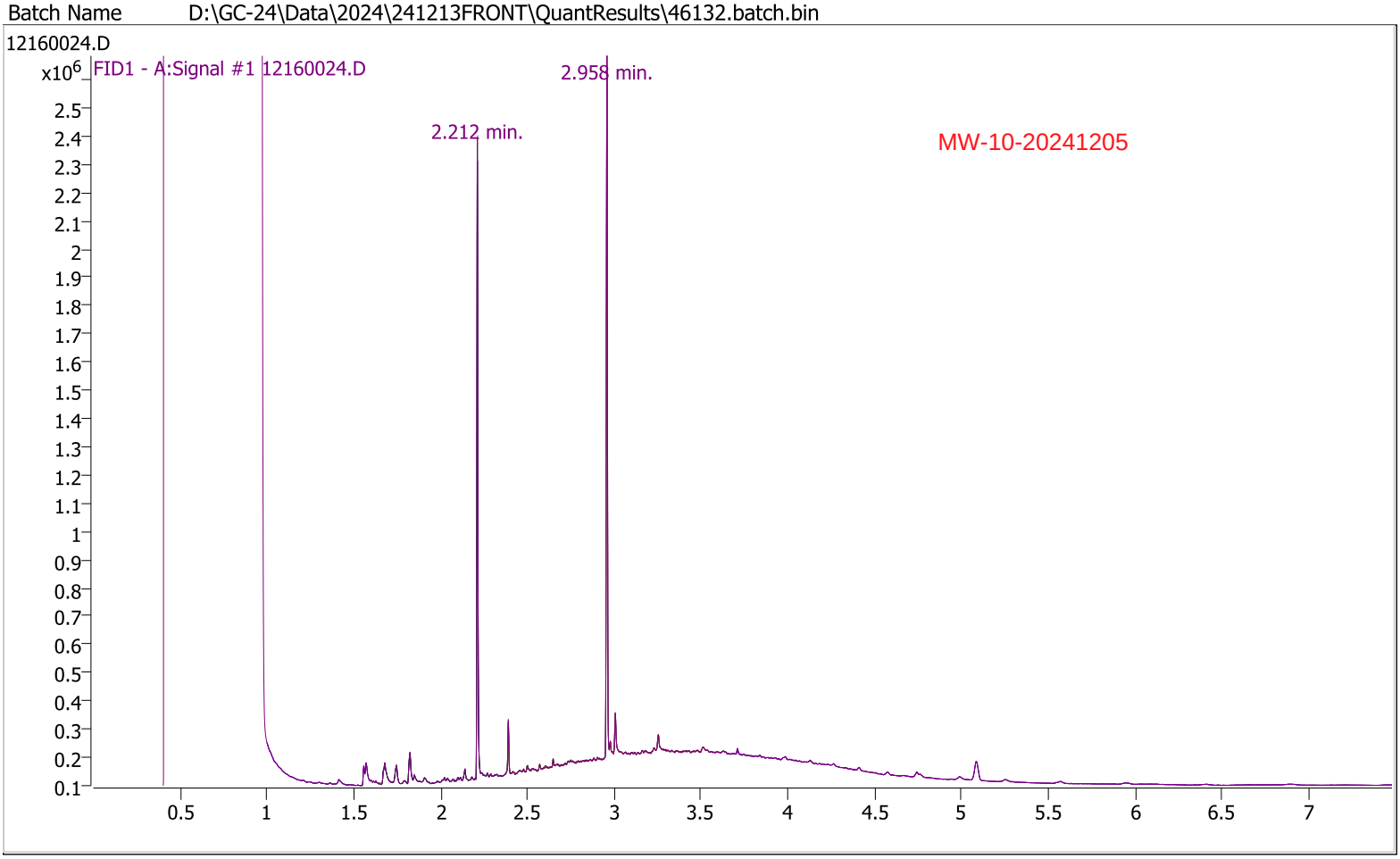
Heavy Oil



Quantitation Results Report

Agilent Technologies

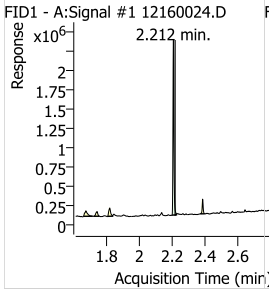
Data File	12160024.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/16/2024 11:51:08 AM
Sample Name:	2412118-021Brr		dualfid
Vial	108	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W		
Batch Name	D:\GC-24\Data\2024\241213FRONT\QuantResults\46132.batch.bin		



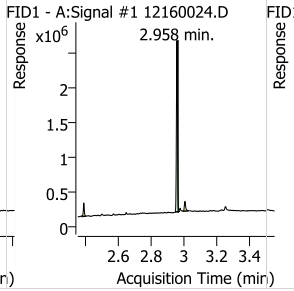
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.212	911885	9.624	ug/mL		-0.004
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	2.958	1130798	10.645	ug/mL		0.005
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.958	14081402	150.330	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

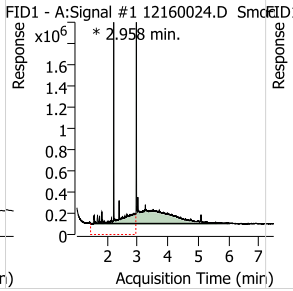
2-Fluorobiphenyl



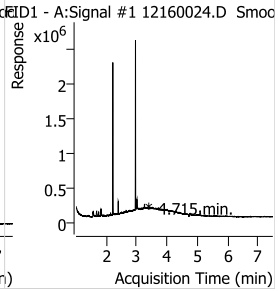
O-Terphenyl



Diesel



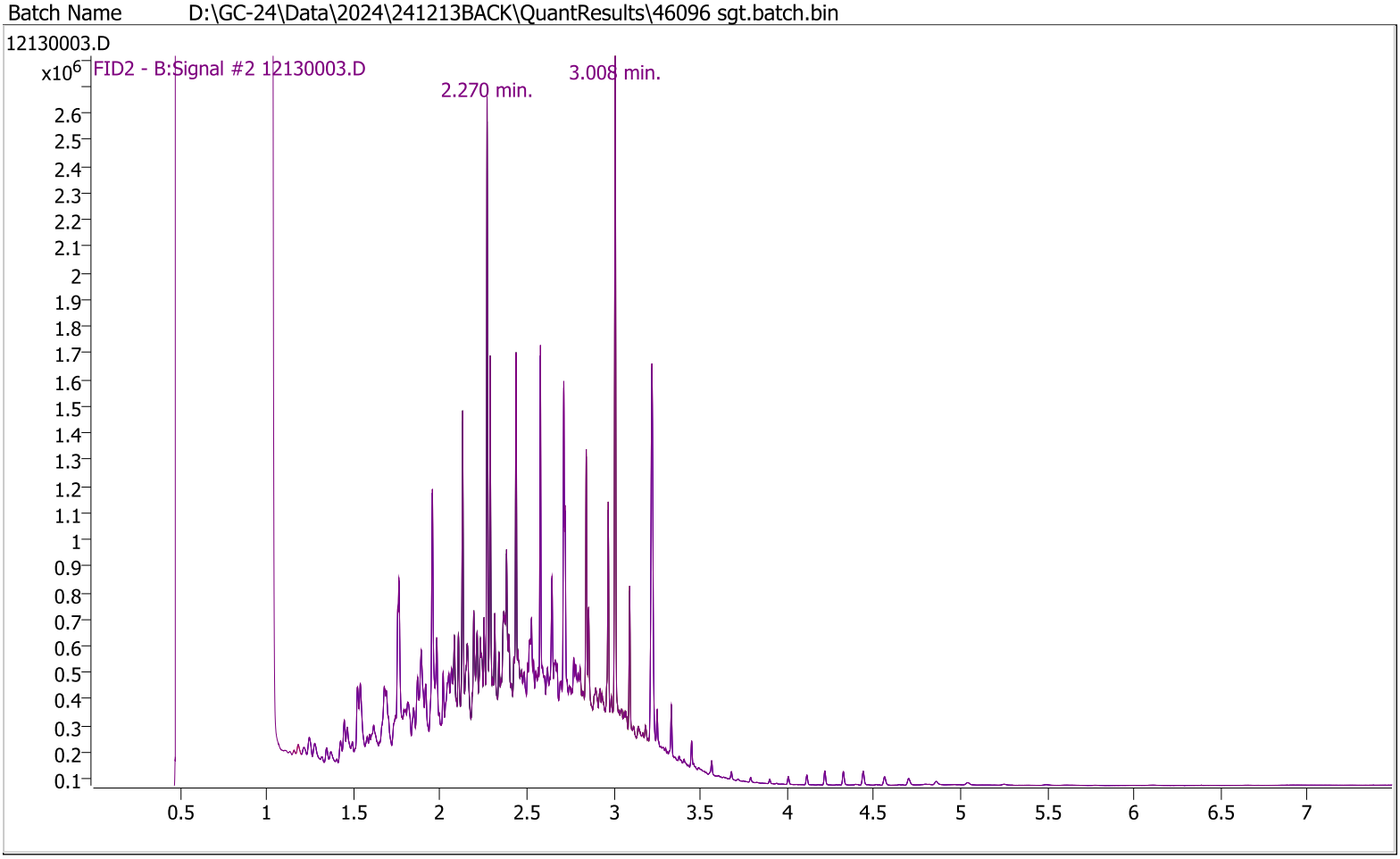
Heavy Oil



Quantitation Results Report

Agilent Technologies

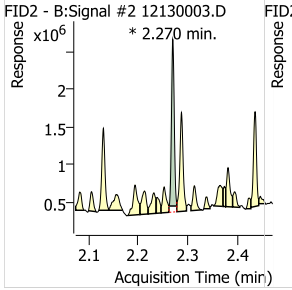
Data File	12130003.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 8:53:03 AM
Sample Name:	DX-CCV		dualfid
Vial	1	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/10/2024 4:42:49 PM
	O-DXEX-W-SGT		
Batch Name	D:\GC-24\Data\2024\241213BACK\QuantResults\46096 sgt.batch.bin		



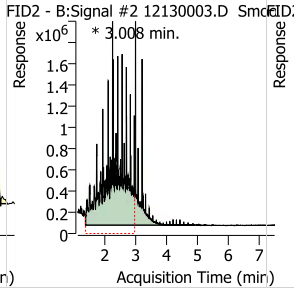
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.270	841961	9.303	ug/mL	m	-0.003
Spiked Amount:	Range: - %			Recovery =	NA%	
O-Terphenyl	3.008	1172199	11.759	ug/mL	m	0.003
Spiked Amount:	Range: - %			Recovery =	NA%	
Target Compounds						
Diesel	3.008	43929937	455.722	ug/mL	m	
Heavy Oil	4.735	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

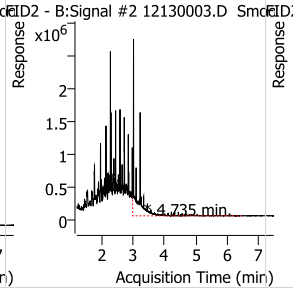
2-Fluorobiphenyl



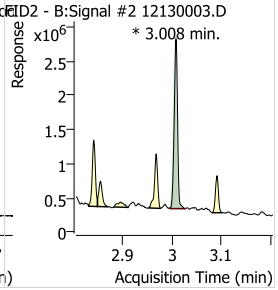
Diesel



Heavy Oil



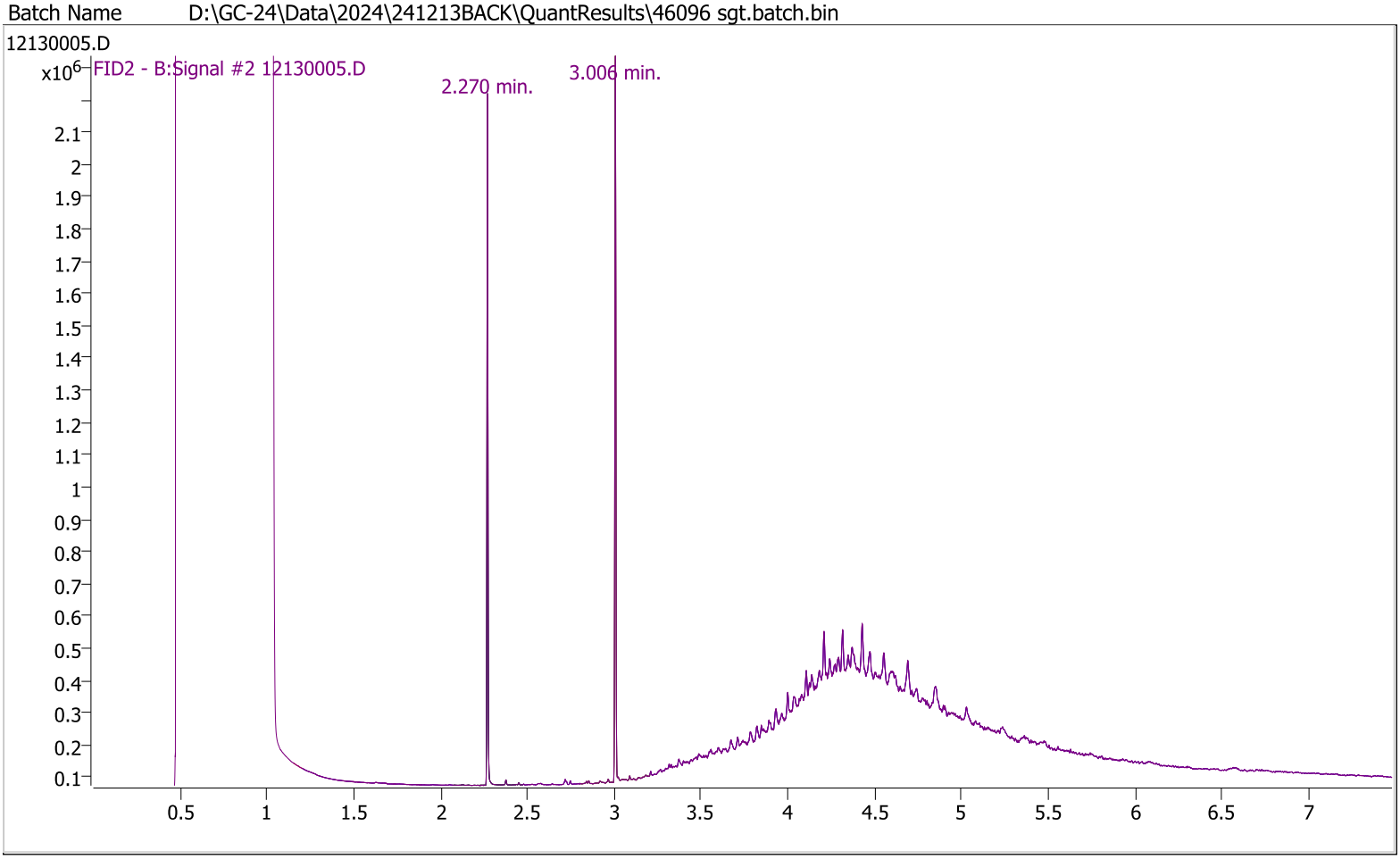
O-Terphenyl



Quantitation Results Report

Agilent Technologies

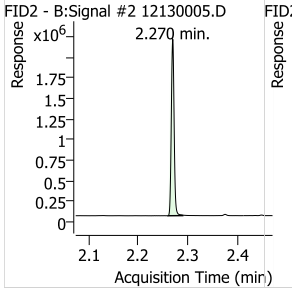
Data File	12130005.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 9:04:50 AM
Sample Name:	OIL-CCV		dualfid
Vial	2	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/10/2024 4:42:49 PM
	O-DXEX-W-SGT		
Batch Name	D:\GC-24\Data\2024\241213BACK\QuantResults\46096 sgt.batch.bin		



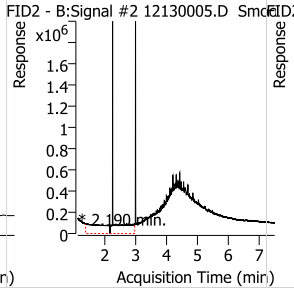
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.270	853661	9.432	ug/mL	-0.003
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	3.006	966311	9.694	ug/mL	0.001
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	2.190	0		md	
Heavy Oil	3.006	28007718	465.619	ug/mL	m

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

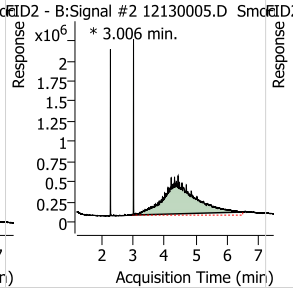
2-Fluorobiphenyl



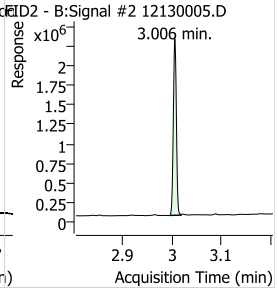
Diesel



Heavy Oil



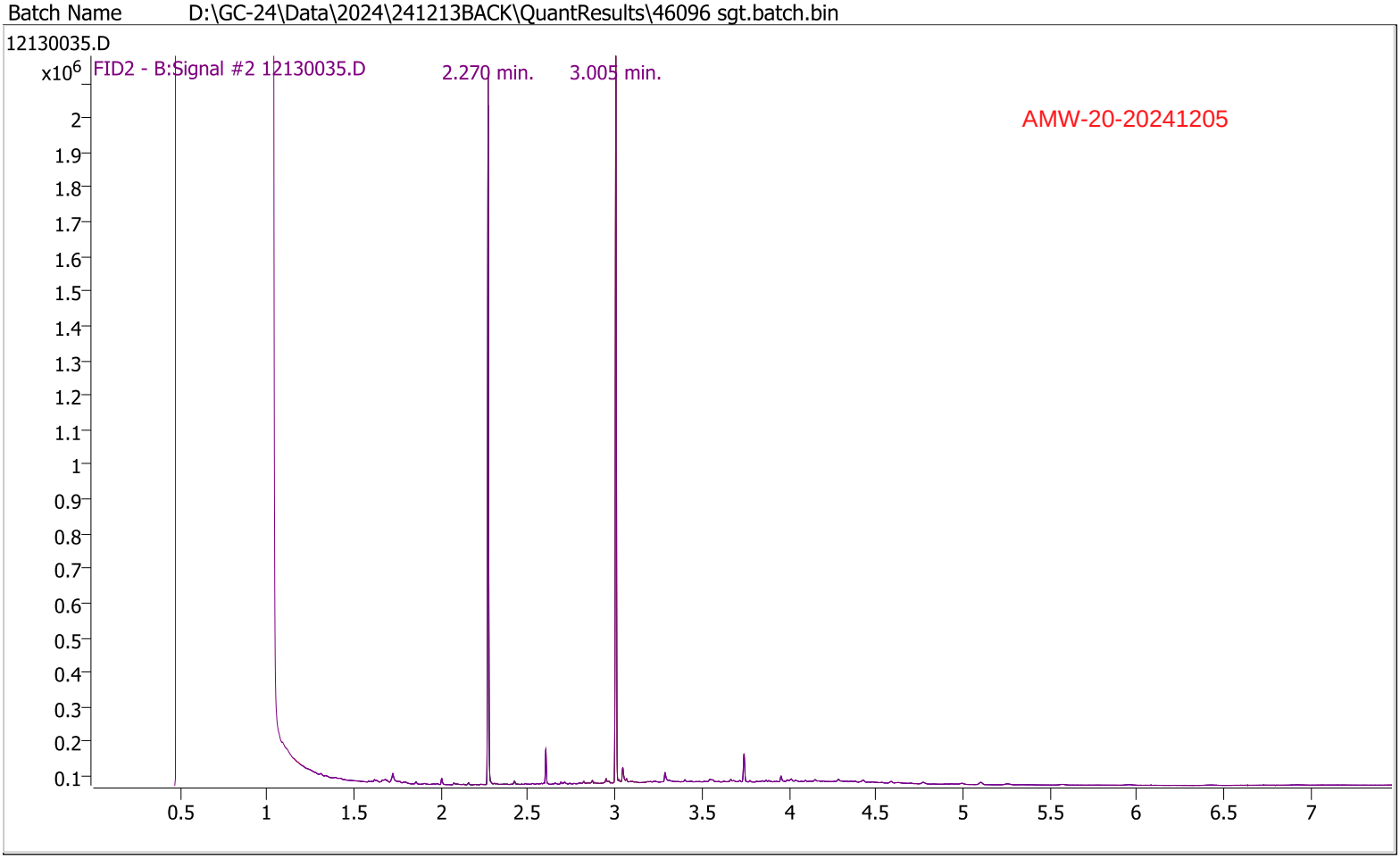
O-Terphenyl



Quantitation Results Report

Agilent Technologies

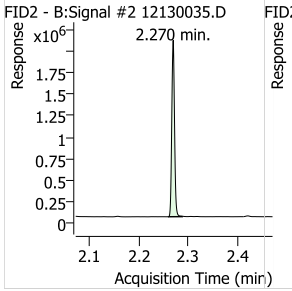
Data File	12130035.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/13/2024 1:32:50 PM
Sample Name:	2412118-008F SGT		dualfid
Vial	59	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/10/2024 4:42:49 PM
	O-DXEX-W-SGT		
Batch Name	D:\GC-24\Data\2024\241213BACK\QuantResults\46096 sgt.batch.bin		



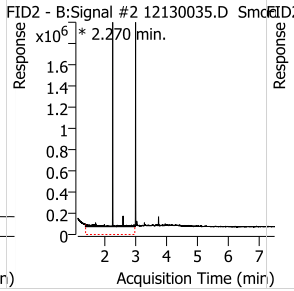
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.270	792793	8.759	ug/mL		-0.002
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	3.005	890797	8.936	ug/mL		0.000
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.270	534220	5.542	ug/mL	m	
Heavy Oil	3.005	1419696	23.602	ug/mL	m	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

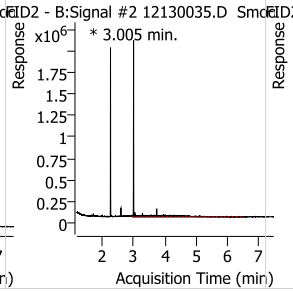
2-Fluorobiphenyl



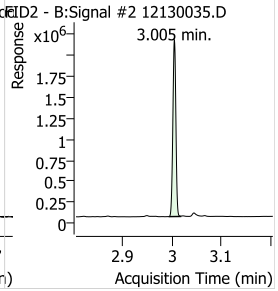
Diesel



Heavy Oil



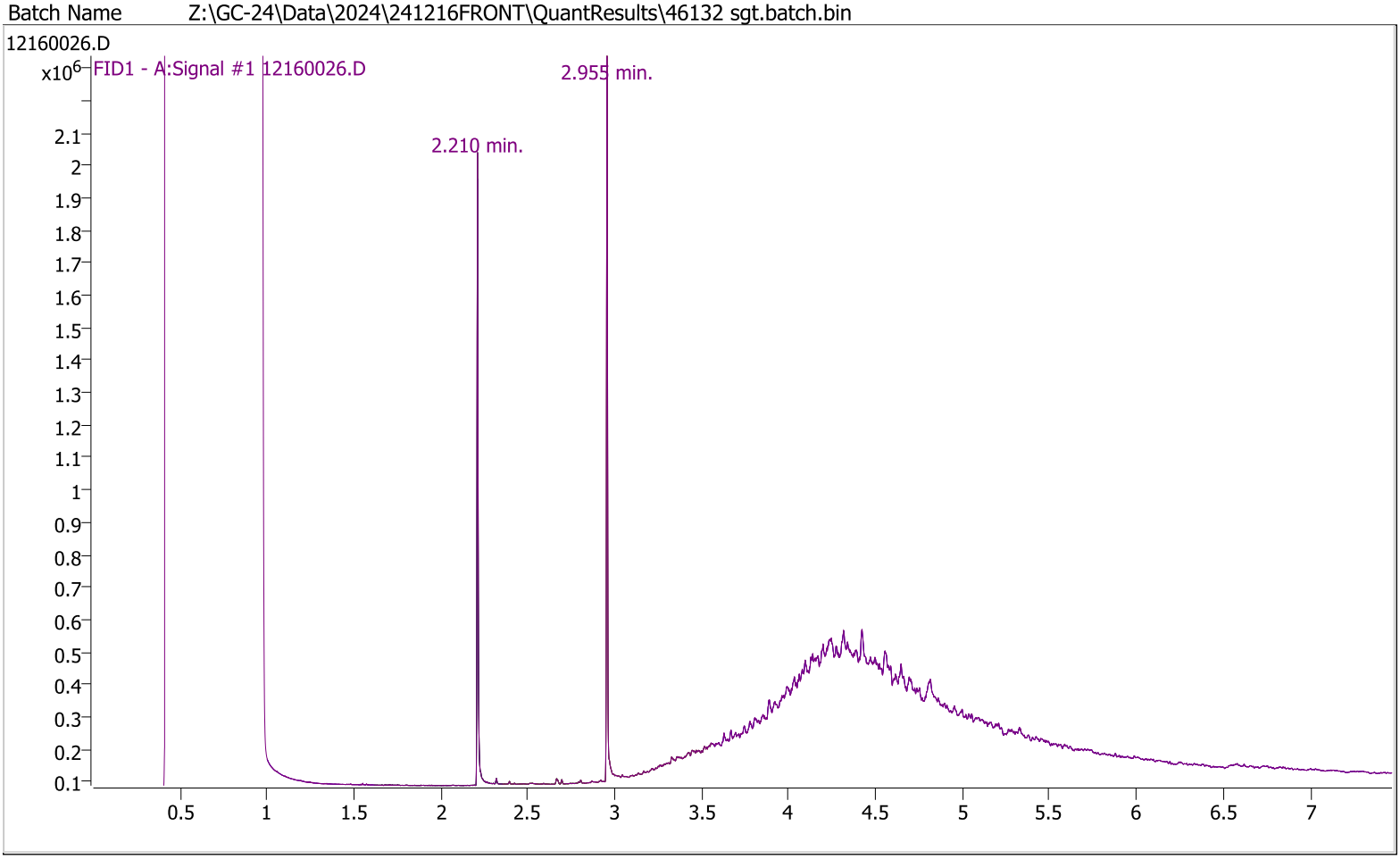
O-Terphenyl



Quantitation Results Report

Agilent Technologies

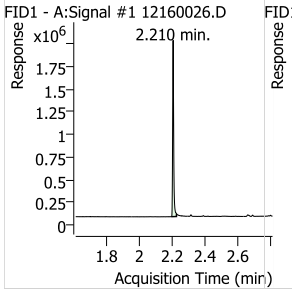
Data File	12160026.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/16/2024 12:02:53 PM
Sample Name:	OIL-CCV		dualfid
Vial	4	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W-SGT		
Batch Name	Z:\GC-24\Data\2024\241216FRONT\QuantResults\46132 sgt.batch.bin		



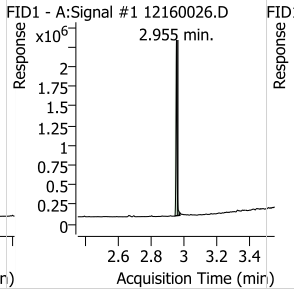
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.210	859593	9.072	ug/mL	-0.006
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	2.955	981957	9.244	ug/mL	0.002
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	2.195	0		md	
Heavy Oil	2.955	31081759	508.653	ug/mL	m

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

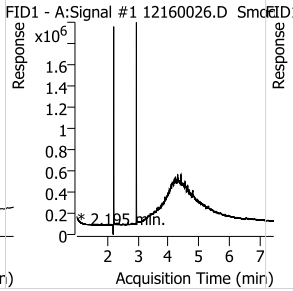
2-Fluorobiphenyl



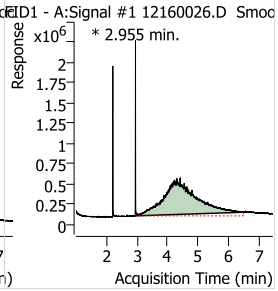
O-Terphenyl



Diesel



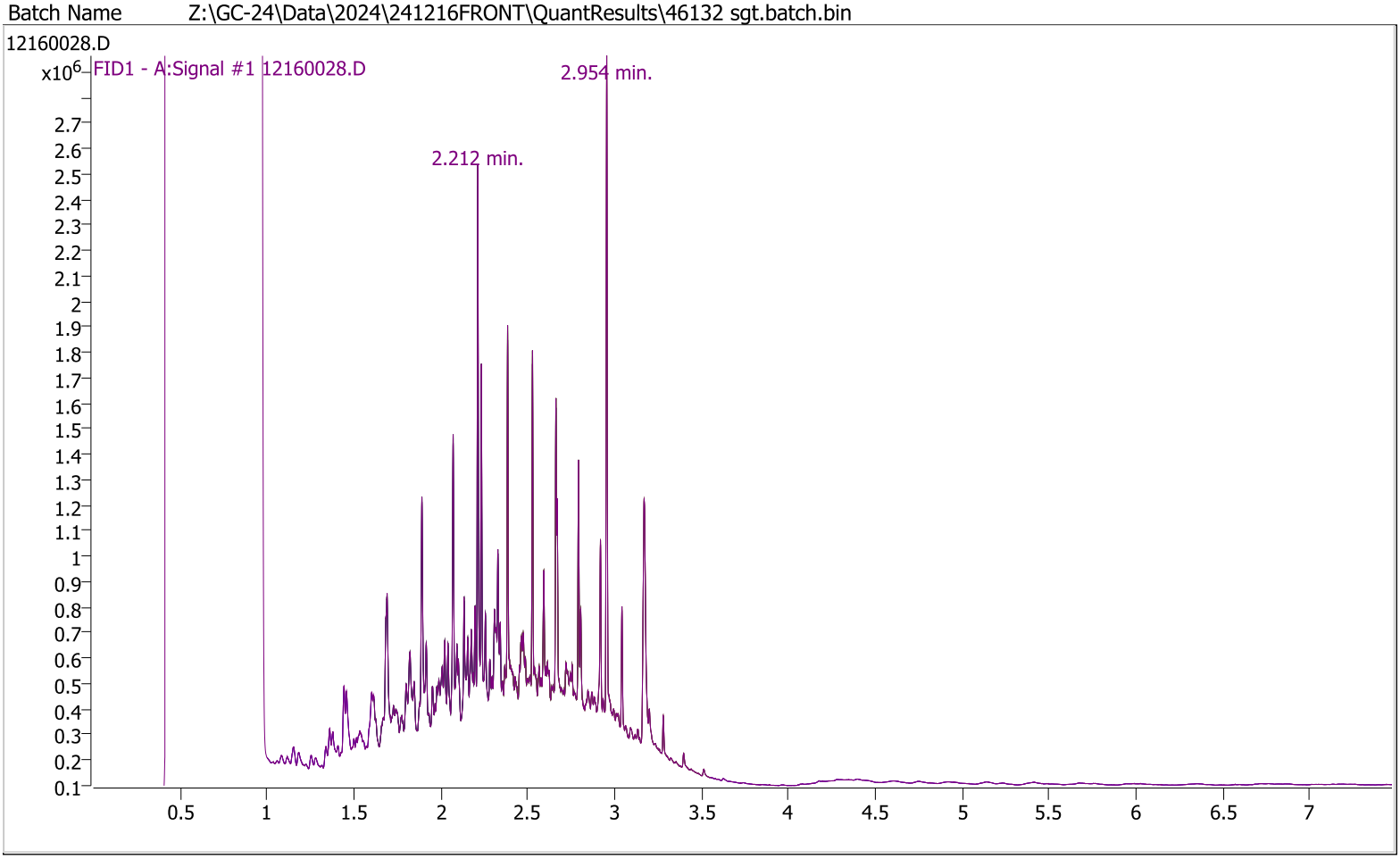
Heavy Oil



Quantitation Results Report

Agilent Technologies

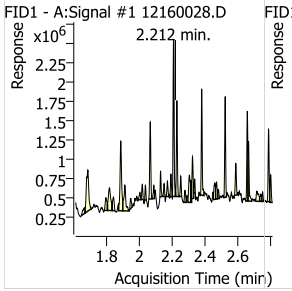
Data File	12160028.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/16/2024 12:14:40 PM
Sample Name:	DX-CCV		dualfid
Vial	3	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W-SGT		
Batch Name	Z:\GC-24\Data\2024\241216FRONT\QuantResults\46132 sgt.batch.bin		



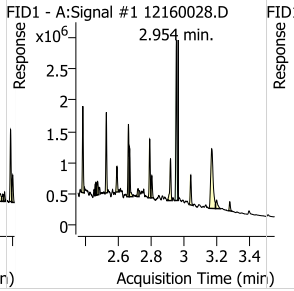
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.212	847974	8.949	ug/mL	-0.004
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	2.954	1121871	10.561	ug/mL	0.001
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	2.954	44235956	472.255	ug/mL	m
Heavy Oil	4.715	0			md

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

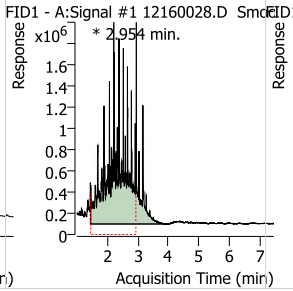
2-Fluorobiphenyl



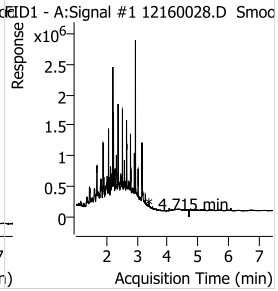
O-Terphenyl



Diesel



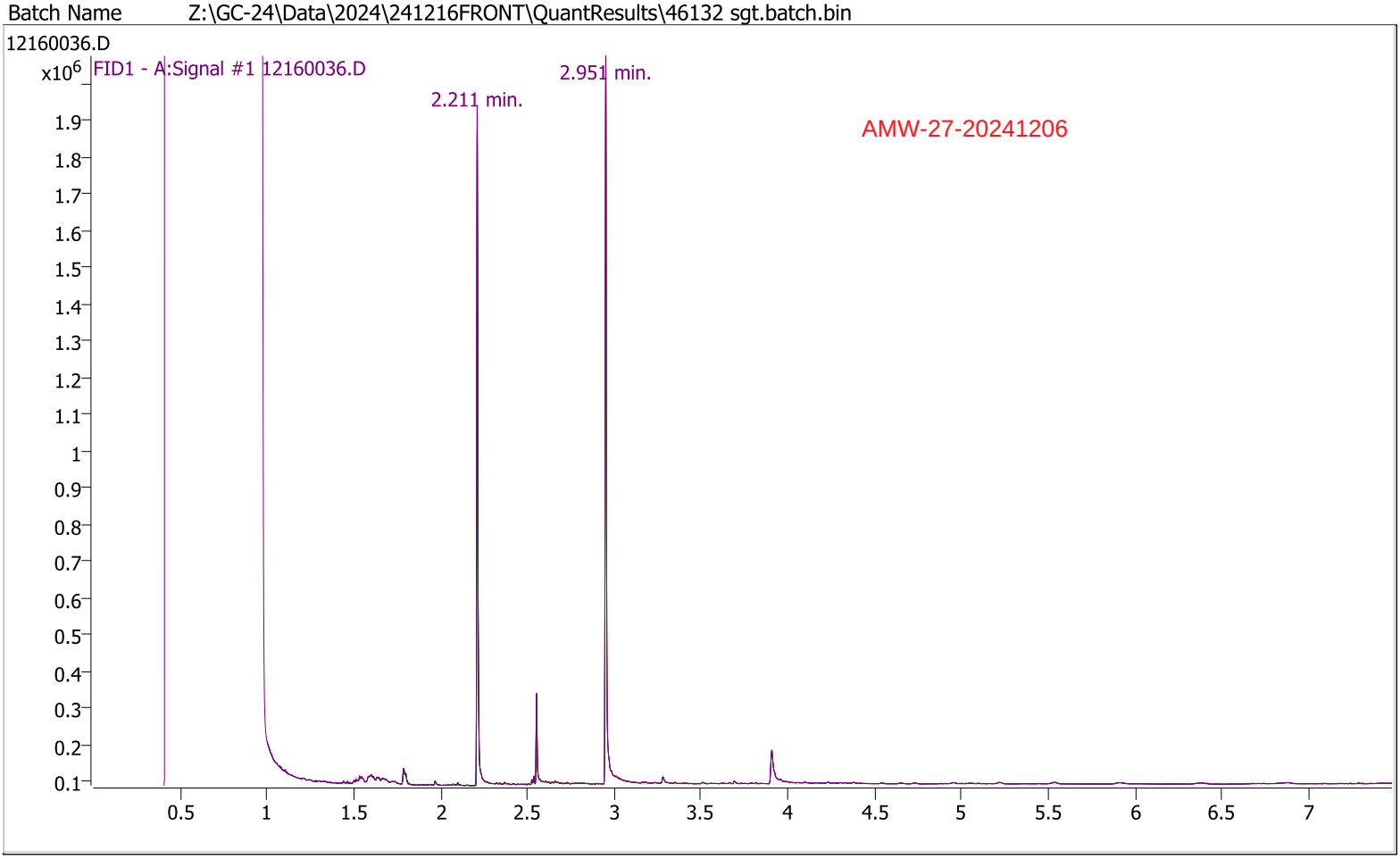
Heavy Oil



Quantitation Results Report

Agilent Technologies

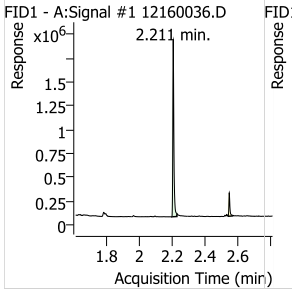
Data File	12160036.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/16/2024 1:17:57 PM
Sample Name:	2412118-014F		dualfid
Vial	134	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W-SGT		
Batch Name	Z:\GC-24\Data\2024\241216FRONT\QuantResults\46132 sgt.batch.bin		



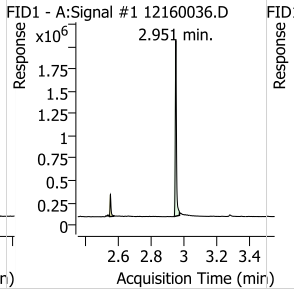
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.211	838591	8.850	ug/mL		-0.005
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	2.951	983250	9.256	ug/mL		-0.002
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.951	998084	10.655	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

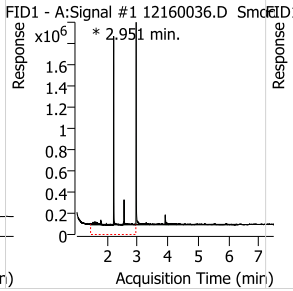
2-Fluorobiphenyl



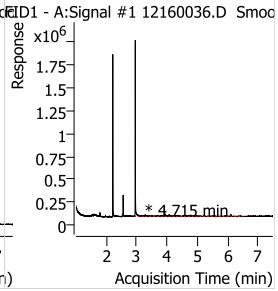
O-Terphenyl



Diesel



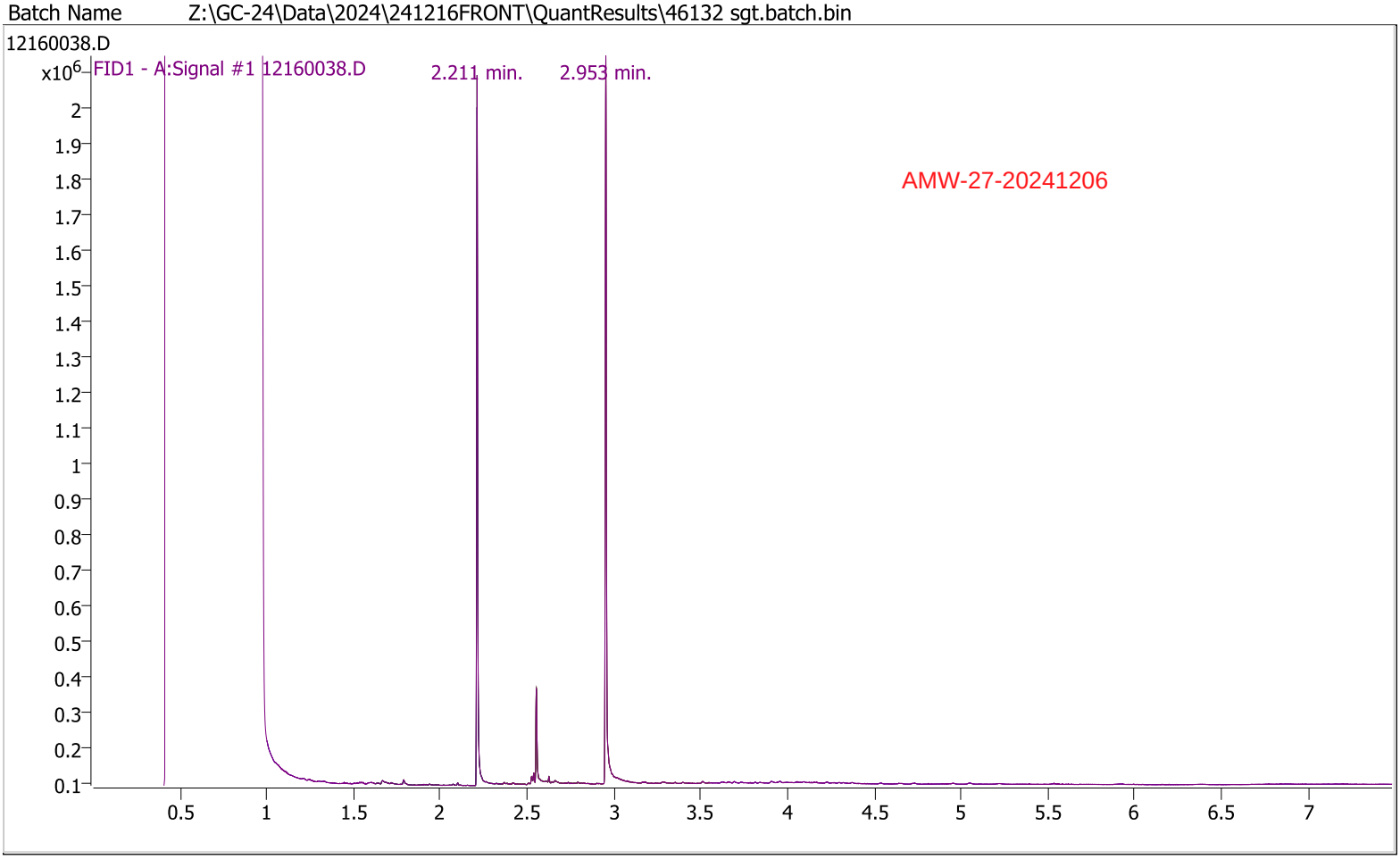
Heavy Oil



Quantitation Results Report

Agilent Technologies

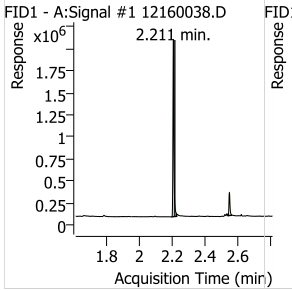
Data File	12160038.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/16/2024 1:29:46 PM
Sample Name:	2412118-014FDUP		dualfid
Vial	135	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W-SGT		
Batch Name	Z:\GC-24\Data\2024\241216FRONT\QuantResults\46132 sgt.batch.bin		



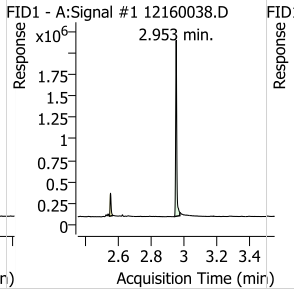
Compound	RT	Resp.	Conc.	Units		Dev(Min)
Internal Standards						
System Monitoring Compounds						
2-Fluorobiphenyl	2.211	824751	8.704	ug/mL		-0.005
Spiked Amount:	Range: - %			Recovery = NA%		
O-Terphenyl	2.953	963032	9.066	ug/mL		0.000
Spiked Amount:	Range: - %			Recovery = NA%		
Target Compounds						
Diesel	2.953	1143596	12.209	ug/mL	m	
Heavy Oil	4.715	0			md	

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

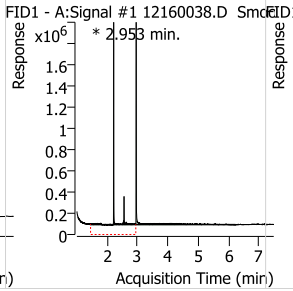
2-Fluorobiphenyl



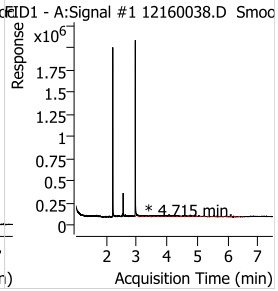
O-Terphenyl



Diesel



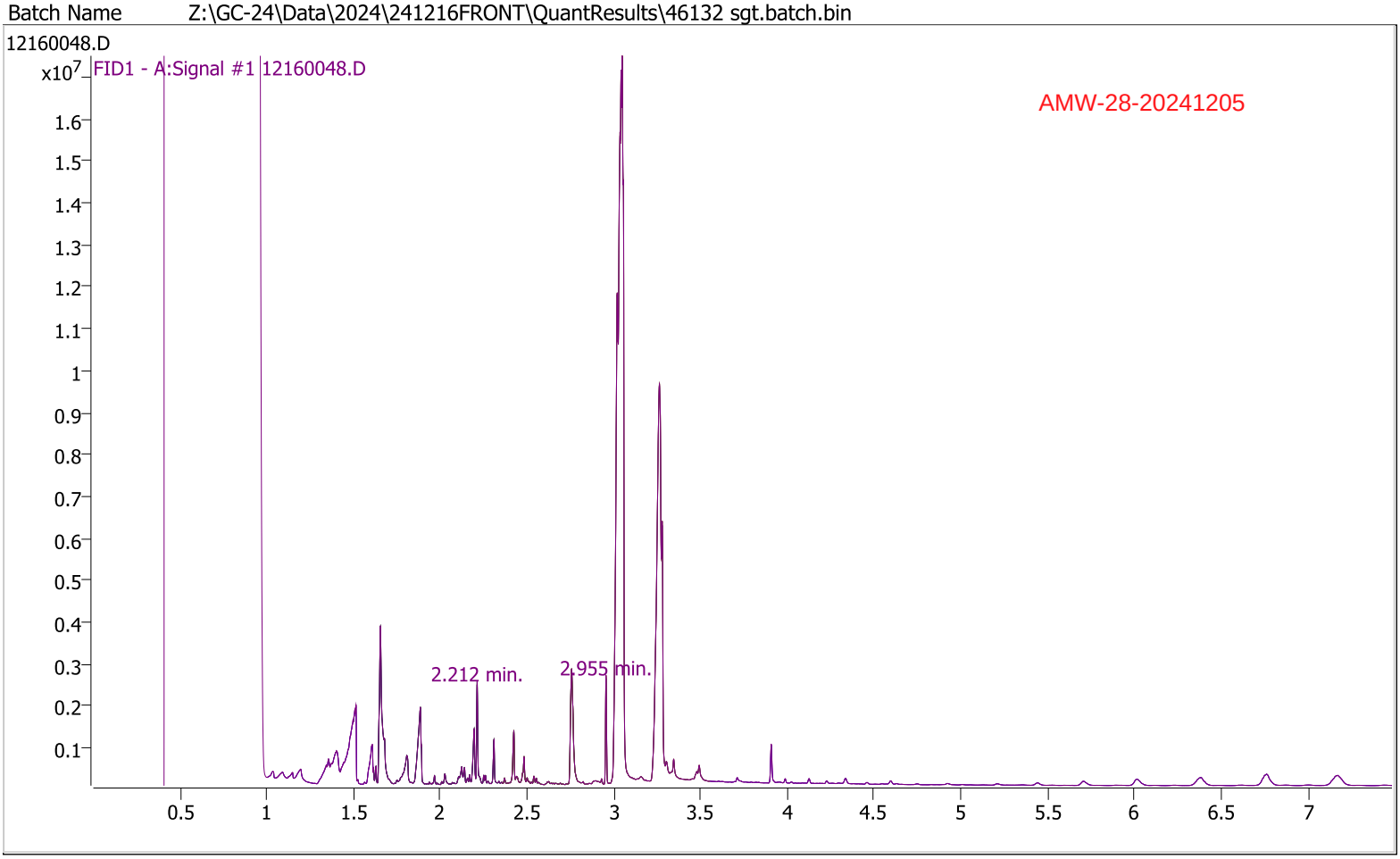
Heavy Oil



Quantitation Results Report

Agilent Technologies

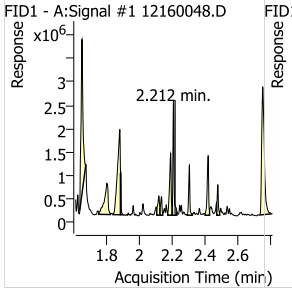
Data File	12160048.D	Operator	AP
Acq. Method	DX_220112	Acq. Date-Time	12/16/2024 2:29:04 PM
Sample Name:	2412118-015BSGT		dualfid
Vial	140	Multiplier	1.00
DA Method File	DX_240409.m	Last Calib Update	4/9/2024 3:34:13 PM
	O-DXEX-W-SGT		
Batch Name	Z:\GC-24\Data\2024\241216FRONT\QuantResults\46132 sgt.batch.bin		



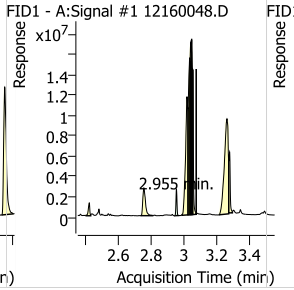
Compound	RT	Resp.	Conc.	Units	Dev(Min)
Internal Standards					
System Monitoring Compounds					
2-Fluorobiphenyl	2.212	1195047	12.612	ug/mL	-0.004
Spiked Amount:	Range: - %			Recovery = NA%	
O-Terphenyl	2.955	1100545	10.360	ug/mL	0.002
Spiked Amount:	Range: - %			Recovery = NA%	
Target Compounds					
Diesel	3.048	100418017	1072.044	ug/mL	m
Heavy Oil	4.715	0			md

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

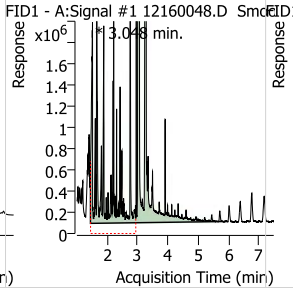
2-Fluorobiphenyl



O-Terphenyl



Diesel



Heavy Oil