

# 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. AS160324 • May 9, 2024 • DRAFT



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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

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

## Executive Summary

This 2023 Annual Compliance Monitoring Report (ACMR) has been prepared by Aspect Consulting, 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 units 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. Following the remedial excavations, in situ chemical reduction (ISCR) groundwater treatments were completed adjacent to Maddux North and compliance groundwater and soil gas sampling have been completed in accordance with the Compliance Monitoring Plan (CMP; Aspect 2020b), as described in Sections 1 and 2 of this report.

Based on the results of the 2023 groundwater and soil gas sampling, which are described in detail in Section 3, we have provided the following conclusions and recommendations regarding groundwater and soil gas quality and future sampling (Section 4):

- **Groundwater.** The groundwater quality at the Site has substantially improved following remedial excavation of contaminated soil on Maddux North and South, and the successful implementation of in situ groundwater treatment in areas where sidewall soil performance sampling indicated higher concentrations of tetrachloroethene (PCE) sorbed to soil. 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, we are recommending the discontinuation of groundwater sampling at eight monitoring wells in which Site COCs have either never been detected or have never been detected at concentrations above the Site cleanup levels.
- **Soil Gas.** The concentrations of Site COCs at the Maddux North and South soil gas monitoring points (ASG-01 through ASG-05) underneath the chemically resistant vapor barriers have been consistently below the Site cleanup levels during all four soil gas compliance monitoring events. Therefore, the vapor intrusion pathway for the Maddux buildings and surrounding private properties is considered adequately protected. Based on these results and further decreases in COC concentrations that are anticipated with 2024 ISCR injections, we are recommending the discontinuation of soil gas sampling at all soil gas monitoring points.

*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 2023 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<sup>1</sup>) 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 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. This ACMR summarizes groundwater and soil gas data collected as part of performance monitoring in June and December 2023 as required under the Compliance Monitoring Plan (CMP; Aspect, 2020b) for the Site. The contents of this ACMR are organized into the following sections:

- Section 2 – Performance Monitoring Program describes the methods of performance monitoring for groundwater and soil gas.
- Section 3 – Performance Monitoring Results describes the analytical laboratory results and evaluates performance of in situ chemical reduction (ISCR) injections at the Site.
- Section 4 – Conclusions and Recommendations summarizes compliance of groundwater and soil gas with the Site cleanup levels, recommendations for the 2024 performance monitoring program, and an update estimate of restoration time frame.

## 1.1 Background

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Under the PPCD and 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 the contaminated soil, groundwater, and soil gas at the Site, and 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

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

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) for the Site and included the following:

- 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, and significantly reducing the contaminant mass.
- 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, and significantly reducing contaminant mass.
- ISCR through emplacement of 6,000 pounds of S-MicroZVI reagent 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 4).
- Passive venting systems and chemically resistant chemical vapor barriers were constructed 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.

Following the remedial excavations, chlorinated solvents remained in soil 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 along the south and west sidewalls of Maddux South. The inaccessible, residual contaminated soil is located beneath public rights-of-way (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, and in situ treatment and long-term compliance monitoring (as further described in this report) are being completed to further remediate the Site and demonstrate that the remaining soil contamination is no longer an ongoing source of groundwater contamination.

Based on the results of performance monitoring completed in June and December 2022, the CAR (Aspect, 2023) included recommendations for additional ISCR groundwater treatment and ongoing performance monitoring of groundwater and soil gas in 2023. The additional ISCR treatment, as detailed in the 2024 ISCR Work Plan (Aspect, 2024) is expected to be completed in May 2024. This ACMR describes the results of the compliance groundwater and soil gas monitoring conducted in June and December 2023.

## 2 Performance Monitoring Program

### 2.1 Groundwater

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As outlined in the CMP (Aspect, 2020a), groundwater compliance monitoring consists of performance monitoring to track the reduction in contaminant concentrations following remedial activities, and once groundwater has reached cleanup levels, confirmation monitoring to demonstrate long-term compliance with cleanup levels. The monitoring well network is shown on Figure 3.

Each of the groundwater monitoring wells listed in Table A below were sampled in June and December 2023. The monitoring wells were gauged prior to each sampling event to evaluate groundwater elevation, gradient, and flow direction. The analyses for each 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:
  - Chlorinated volatile organic compounds (cVOCs) by United States Environmental Protection Agency (EPA) Method 8260E
- Petroleum hydrocarbons (PHs):
  - Gasoline-range total petroleum hydrocarbons (TPHg) by Ecology Method NWTPH-Gx
  - Diesel- and oil-range total petroleum hydrocarbons (TPHd and TPHo) by Ecology method NWTPH-Dx
  - Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260E
- Monitored natural attenuation (MNA) parameters:
  - Dissolved gases (ethane, ethene, and methane) by Method RSK-175
  - Total organic carbon (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 2022	Dec. 2022	June 2023	Dec. 2023
<b>AMW-03</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-06</b>	cVOCs, MNA	cVOCs, MNA	cVOCs	cVOCs
<b>AMW-07</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-08</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-09</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-11</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-14</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-15</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-16</b>	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs
<b>AMW-17</b>	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs
<b>AMW-18</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-19</b>	cVOCs, MNA	cVOCs, MNA	cVOCs, MNA	cVOCs, MNA
<b>AMW-20</b>	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs, MNA	cVOCs, PHs, MNA
<b>AMW-22</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-23</b>	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-24</b>	cVOCs, MNA	cVOCs, MNA	cVOCs	cVOCs
<b>AMW-25</b>	cVOCs, MNA	cVOCs, MNA	cVOCs	cVOCs
<b>AMW-26</b> (replaced AMW-10)	cVOCs	cVOCs	cVOCs	cVOCs
<b>AMW-27</b>	Not Installed	Not Installed	cVOCs, PHs	cVOCs, PHs
<b>AMW-28</b>	Not Installed	Not Installed	cVOCs, PHs	cVOCs, PHs
<b>AMW-29</b> (replaced HC-MW-03)	Not Installed	Not Installed	cVOCs, PHs	cVOCs, PHs
<b>HC-MW-01</b>	-	-	cVOCs	cVOCs
<b>HC-MW-02</b>	cVOCs, MNA	cVOCs, MNA	cVOCs	cVOCs
<b>HC-MW-03</b>	cVOCs, MNA	cVOCs, MNA	<i>((Decommissioned, replaced by AMW-29)</i>	<i>((Decommissioned, replaced by AMW-29)</i>
<b>HC-MW-04</b>	cVOCs	cVOCs	cVOCs	cVOCs

Well	June 2022	Dec. 2022	June 2023	Dec. 2023
HC-MW-05	cVOCs, MNA	cVOCs, MNA	cVOCs	cVOCs
HC-MW-06	cVOCs	cVOCs	cVOCs	cVOCs
HC-MW-07	cVOCs	cVOCs	cVOCs	cVOCs
MW-05	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs
MW-06	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs	cVOCs, PHs
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 3.1.

## 2.2 Soil Gas

Soil gas is a media of concern at the Site, representing the vapor intrusion (VI) exposure pathway. The VI pathway was addressed at the Maddux North and South buildings through cleanup action implementation as described in the CAR (Aspect, 2023), including remedial excavation, groundwater treatment, and installation of passive venting systems and chemically resistant vapor barriers beneath each building. Soil gas compliance monitoring was conducted to demonstrate that the VI into each building has been effectively mitigated through implementation of the cleanup action. Soil gas compliance monitoring began in 2022 and involved four sampling events in June 2022, December 2022, June 2023, and December 2023.

Five permanent soil gas probes were installed in July 2021 in the Maddux North and Maddux South buildings before the installation of the chemically resistant vapor barriers and construction of each building's concrete slab. The locations of the soil gas probes, shown on Figure 3, were determined based on the footprint of the proposed building foundation and internal building layout. Three soil gas probes (ASG-01, ASG-02, and ASG-03) are located beneath the ground floor of the Maddux North building, and the remaining two soil gas probes (ASG-04 and ASG-05) are located beneath the ground floor of the Maddux South building (Figure 3).

Soil gas samples were collected from each of the five probes and submitted for one or more of the following analyses:

- cVOCs, naphthalene, and BTEX by EPA Method TO-15
- Air-phase hydrocarbons by Massachusetts's Department of Environmental Protection Method Air-Phase Petroleum Hydrocarbons (MDEP APH)

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Maddux North building samples from probes (ASG-01, ASG-02, and ASG-03) were analyzed for cVOCs, and samples from the Maddux South building probes (ASG-04 and ASG-05) were analyzed for cVOCs, APH, naphthalene, and BTEX.

Samples were collected following sampling guidelines established in the SAP/QAPP (Appendix A of the CMP). Results of each of the soil gas monitoring events are described in Section 3.2.

## 3 Performance Monitoring Results

### 3.1 Groundwater

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The results from the groundwater monitoring events that occurred in June 2023 and December 2023 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 2023 and December 2023 monitoring events are included as Appendix A.

#### 3.1.1 Hydrogeology Results

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 1, and Figure 5 shows pre- and post-remedial excavation inferred groundwater elevation contours. At Maddux North, the eastern sidewall of the remedial excavation extended to elevations between 57 and 60 feet<sup>2</sup>, 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 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-21 and 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 0.5 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.

#### 3.1.2 Groundwater TPH Results

Groundwater samples were submitted for petroleum hydrocarbons during both 2023 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 6, and

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<sup>2</sup> All elevations in this report are referenced to the North American Vertical Datum of 1988 (NAVD88).

cumulative analytical results for petroleum hydrocarbons in groundwater are presented in Table 2.

Since the completion of the remedial excavation at Maddux South in 2020, which removed approximately 2,900 tons of petroleum-contaminated soil, BTEX and TPHg have not been detected in groundwater above the Site cleanup levels during any of the six subsequent compliance monitoring events. However, following completion of the remedial excavation in 2020, TPHd and/or TPHo was detected at concentrations above the Site cleanup level (500 micrograms per liter [ $\mu\text{g/L}$ ]) in four monitoring wells, AMW-16, AMW-17, AMW-20, and MW-10 (Table B). These exceedances of the Site cleanup levels for TPHd and TPHo<sup>3</sup> occurred during the December 2020, June 2021, and June 2022 monitoring events, and concentrations of TPHd/TPHo ranged from 528 to 715  $\mu\text{g/L}$ , compared to the Site cleanup level (500  $\mu\text{g/L}$ ). During the most recent two monitoring events in June 2023 and December 2023, TPHd and TPHo were not detected above the Site cleanup level. These results indicate that source removal followed by natural attenuation has effectively resulted in compliance with Site cleanup levels for petroleum hydrocarbons. As discussed in Section 4.1, 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	December 2020	June 2021	June 2022	December 2022	June 2023	December 2023
AMW-16	401	715	701 XJ	426 X	203 XJ	314 X
AMW-17	269 X	334	581 XJ	394	366 XJ	400 X
AMW-20	543	550	409	266 X	307 XJ	248 X
AMW-27	Not Yet Installed				120 XJ	< 93.5 U
AMW-28	Not Yet Installed				102 XJ	141 XJ
MW-05	Not Sampled	134	227 J	Not Sampled	< 187 U	< 193 U
MW-06	< 99.1 U	< 199 U	348 XJ	238 X	< 191 U	208 X
MW-10	123	558	528 XJ	675 X	393 XJ	436 X

Notes: Blue highlight indicates concentration exceeds the Site cleanup level (500  $\mu\text{g/L}$ ). See Table 2 for further information.

### 3.1.3 Groundwater CVOC Results

Groundwater samples from all monitoring wells during both 2023 monitoring events were submitted for chemical analysis of cVOCs (Table A). Cumulative analytical results for cVOCs in groundwater are summarized in Table 3, and the following figures present cVOC concentrations in groundwater:

<sup>3</sup> Depending on the analytical laboratory, detections of petroleum hydrocarbons in groundwater were either reported as TPHd or TPHo. In reviewing chromatograms, the dissolved-phase petroleum hydrocarbons appear to be the same, and the difference in reported concentration as TPHd or TPHo appears to be due to the range of hydrocarbons (e.g., C6-C12) used as cutoffs by the analytical laboratories. Therefore, the results for TPHd and TPHo are discussed together.

- Figure 7 presents cVOC (PCE, trichloroethene [TCE], cis-1,2-dichloroethene [cDCE], and vinyl chloride [VC]) concentrations from the four most recent sampling events (June 2022, December 2022, June 2023, and December 2023).
- Figure 8 presents cVOC concentration trends and groundwater elevations through time for select wells located in and immediately downgradient of the Maddux North source area.
- Figures 9 and 10 show the absolute and relative molar cVOC concentrations through time, respectively, in the same wells presented in Figure 8.

The following subsections summarize key variations and trends in cVOC concentrations by analyte.

### 3.1.3.1 Tetrachloroethene

PCE concentrations in wells downgradient of Maddux North decreased substantially following excavation, and again following the 29<sup>th</sup> Avenue and McClellan injections. In the source area, the concentration of PCE decreased from 97,000 µg/L (AMW-21) to nondetect (AMW-25). The maximum decrease observed downgradient of the source area was from 5,600 µg/L to 0.486 µg/L (less than the Site cleanup level) at HC-MW-05 (Table 3). As of December 2023, PCE exceedances in groundwater are currently limited to six wells (HC-MW-02, AMW-19, AMW-20, AMW-24, AMW-27, and AMW-28) located downgradient of the Maddux North source area and adjacent to Maddux South (Figure 7):

- Wells AMW-27 and AMW-28 were only installed and sampled during the 2023 monitoring events and showed slightly lower PCE concentrations from June to December 2023; these decreases were within the same order of magnitude, were not significant, and are likely a result of elevated groundwater elevations during the December 2023 event (Figure 8).
- Wells AMW-19, and AMW-24 showed slightly increasing PCE concentrations from June to December, but the concentrations are within the same order of magnitude for each well and therefore, are indicative of seasonal variation. Overall, PCE concentrations in groundwater remain lower than the pre-excavation and pre-injections results (Figure 8).
- Well HC-MW-02 showed a significant reduction in PCE concentrations in groundwater during the December 2022 event following the McClellan injections. However, concentrations of PCE in groundwater rebounded during the June and December 2023 events, indicating that treatment from the McClellan injections was limited due to the logistical constraints and layout of the injection points.

While PCE concentrations have declined at each of these locations post-remedial excavation, the exceedances of the Site cleanup levels in groundwater indicate that limited treatment from the 29<sup>th</sup> Avenue and McClellan injections is occurring downgradient of the injection areas. However, further treatment in these areas is planned as part of the 2024 ISCR injections (Aspect, 2024).

### 3.1.3.2 Trichloroethene and Cis-1,2-dichloroethene

TCE and cDCE exceedances, which were observed both north and south of Maddux South prior to remedial excavation, are now primarily collocated with the PCE exceedances downgradient of the injection treatment areas and in AMW-27. During the past year's compliance monitoring events (June and December 2023), TCE concentrations were above Site cleanup levels in wells AMW-19, AMW-24, AMW-27, HC-MW-02, indicating the migration of partially treated groundwater from the injection areas upgradient. While the concentrations of TCE in these wells relative to other cVOCs increased slightly following McClellan injections, their molar concentrations relative to total cVOCs currently appear stable (Figure 10). All other wells with detectable levels of TCE had decreasing concentrations. The only well with cDCE concentrations above the Site cleanup levels is AMW-19.

### 3.1.3.3 Vinyl Chloride

The VC plume footprint and concentrations downgradient of Maddux South remain stable following remedial excavations and 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 both the 29th Avenue South and McClellan ISCR injections. During the June and December 2023 monitoring events, VC concentrations increased at AMW-19, indicating the migration of treated groundwater from the McClellan injections. VC concentrations in the plume downgradient the ISCR injections have generally remained stable or decreased throughout the monitoring period. The planned 2024 injections include locations that target treatment of the remaining downgradient VC plume.

## 3.1.4 Geochemical Analysis

Geochemical analysis of groundwater samples was performed in June and December 2023 at AMW-19 and AMW-20 (Table 3) to monitor how quickly ISCR-treated groundwater was migrating downgradient from the 29th Avenue South and McClellan Injections.

Elevated ethane and dissolved iron concentrations at AMW-19 (Table 2), which is north-adjacent to the Maddux South parcel, indicate that treated groundwater has migrated from the McClellan injection area downgradient.

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 2023 and December 2023 sampling events was 1.32 mg/L; therefore, there is no risk of explosive conditions resulting from methane production. However, the bioremediation reagent to be injected in 2024, which was not previously injected, may elevate methane concentrations and warrants continued methane monitoring.

## 3.2 Soil Gas

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Five soil gas samples were obtained from the permanent soil gas monitoring points (ASG-01, ASG-02, and ASG-03 at Maddux North and ASG-04 and ASG-05 at Maddux South) in June 2023 and December 2023. The samples were submitted for chemical analysis of cVOCs, BTEX, naphthalene, and APH. Results from the four compliance monitoring events in June 2022, December 2022, June 2023, and December 2023 are presented in Table 4 and on Figure 11; laboratory analytical reports from the June 2023 and December 2023 monitoring events are included as Appendix A. No COCs from the Site were detected above their Site subslab soil gas screening levels, which were established in the CMP as five times the generic MTCA Method B subslab screening levels. These Site-specific subslab soil gas screening levels are still extremely conservative due to the chemically resistant vapor barriers which were installed beneath each building during redevelopment. Results are summarized by event below:

- **June 2022:** TCE and/or cDCE were detected in three soil gas samples (ASG-01 and ASG-03 at Maddux North and ASG-05 at Maddux South), but none of the five samples exceeded the Site subslab soil gas screening levels (Table 4).
- **December 2022:** PCE, TCE, and/or cDCE were detected in all five of the soil gas samples, but none of the samples exceeded the Site subslab soil gas screening levels (Table 4).
- **June 2023:** PCE, TCE, and cDCE were detected in all five of the soil gas samples, but none of the samples exceeded the Site subslab soil gas screening levels (Table 4).
- **December 2023:** PCE, TCE, and cDCE were detected in all five of the soil gas samples, but none of the samples exceeded the Site subslab soil gas screening levels (Table 4).

Conclusions and recommendations relating to soil gas sampling results are discussed below in Section 4.2.

## 4 Conclusions and Recommendations

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

### 4.1 Groundwater

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Groundwater quality has significantly improved following both remedial excavation of contaminated soil on Maddux North and South and the successful implementation of in situ groundwater treatment in areas where sidewall soil performance sampling indicated higher concentrations of PCE sorbed to soil. These improvements to groundwater quality are significant, most notably downgradient of the source area from the release of chlorinated solvents on Maddux North. For example, concentrations of PCE in groundwater at HC-MW-05, which is outside of the remedial excavation area and downgradient of the historical source area, have declined from 5,600 µg/L from before remediation to 0.486 µg/L, which is below the Site cleanup level.

Multiple wells downgradient of Maddux North (AMW-19, AMW-24, and AMW-25), have increased PCE and TCE concentrations since the December 2022 monitoring event. However, these concentrations are generally within the same order of magnitude as historical results (indicating only slight seasonal variation), and, excepting AMW-19, these wells have significantly reduced concentrations of PCE and TCE compared to before remedial excavation and injections.

The concentrations of PCE and TCE and groundwater elevations at AMW-27 and AMW-28 indicate the western subsurface shoring wall and CDF are hydraulically influencing groundwater flow beneath the Maddux South building.

### 4.2 Soil Gas and Vapor Intrusion

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The concentrations of cVOCs at the Maddux North soil gas monitoring points (ASG-01 through ASG-03) underneath the chemically resistant vapor barrier have been consistently below the Site cleanup levels during all four of the soil gas compliance monitoring events. Likewise, the concentrations of Site COCs (TPH, BTEX, naphthalene, and cVOCs) at the Maddux South soil gas monitoring points (ASG-04 and ASG-05) underneath the chemically resistant vapor barrier have been below the Site cleanup levels during all four of the soil gas compliance monitoring events.

Soil gas monitoring has not occurred at the private properties within the Site, including the dentist office which is east adjacent to Maddux South. However, soil gas concentrations measured during the RI indicated the VI pathway was not complete for that building. Since that time, concentrations of cVOCs in groundwater at AMW-24, which is located in the parking lot upgradient of the dentist office building, have remained stable: the concentration of PCE in 2019 prior to remediation was 510 µg/L, and the PCE concentration in groundwater varied between 238 and 417 µg/L during the most recent four monitoring events. Therefore, the VI pathway for the Maddux buildings and surrounding private properties is considered to still be adequately protected.

## 4.3 Recommendations

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Additional groundwater treatment will be completed as detailed in the 2024 ISCR Work Plan (Aspect, 2024). This additional treatment is expected to improve groundwater quality in the remaining PCE groundwater plume that surrounds the Maddux South parcel. As part of compliance monitoring, performance monitoring related to the groundwater treatment will be conducted in June 2024 and December 2024. It is expected that results from the June 2024 event will be used to evaluate the short-term performance of the 2024 injections, but long-term performance will be assessed based on the December 2024 results.

The following subsections detail recommendations for changes to the monitoring program beginning in June 2024 for groundwater and soil gas, in accordance with the CMP (Aspect, 2020a).

### 4.3.1 Groundwater Monitoring

Groundwater compliance monitoring will continue semiannually in June and December 2024, and the analytical results will be summarized in the next ACMR. However, it is recommended that the groundwater sampling program be reduced based on the results of pre-remediation and post-remediation compliance monitoring, which indicate the extent and concentrations of the contaminated groundwater plume are stable and decreasing following the cleanup actions at the Site. The following recommendations are made for changes to the groundwater sampling program originally detailed in the CMP (Aspect, 2020a):

- **Removal of wells from the sampling program:** Site COCs have never been detected in groundwater at concentrations exceeding the Site cleanup levels at AMW-03, AMW-07, AMW-08, AMW-09, AMW-14, AMW-17, AMW-18, AMW-23, HC-MW-04, HC-MW-07, or MW-06, and most of these locations are either up- or cross-gradient of the documented extents of the contaminated groundwater plume (Figure 7). Therefore, these wells are in compliance with MTCA, and groundwater sampling should be discontinued, in accordance with the CMP (Aspect, 2020a). However, AMW-14, AMW-17, and AMW-18 form the basis for delineating the downgradient edge of the groundwater plume; therefore, continued sampling is recommended at these locations to verify the plume is stable. Although the monitoring wells will be removed from the sampling program, the wells will remain intact and will continue to be gauged for groundwater elevation during each sampling event to verify the hydraulic gradient and groundwater flow direction.
- **MNA parameters:** Sampling for MNA parameters was not included in the CMP but is an important measure of performance for the 2024 ISCR injections. Sampling for TOC, iron, ethane, ethene, and methane is recommended at HC-MW-02, AMW-06, AMW-15, AMW-16, AMW-19, AMW-20, AMW-24, and AMW-27 for the two performance monitoring events in June and December 2024.
- **Compliance of Site COCs:** TPHg and BTEX have not been detected in groundwater during any six of the compliance monitoring events (December 2020, June 2021, June 2022, December 2022, June 2023, and December 2023) that have occurred following remedial excavation of the petroleum hydrocarbon source area on Maddux South.

Therefore, these Site COCs in groundwater have been confirmed to be in compliance, and sampling for these analytes will be discontinued. Groundwater samples from the petroleum hydrocarbon wells will continue to be analyzed for TPHd and TPHo.

### 4.3.2 Soil Gas

All Site COCs in soil gas have remained beneath the Site subslab soil gas screening levels over the four compliance monitoring events. The Site subslab soil gas screening levels are extremely conservative, as both the Maddux North and Maddux South buildings have chemically resistant vapor barriers installed beneath them, which greatly retard the diffusion of subslab soil gas into the buildings. In accordance with the CMP (Aspect, 2020a), **no further subslab soil gas sampling is required, and we recommend that soil gas sampling be ceased, with two potential contingency trigger conditions to restart sampling:**

- At Maddux North, the source for PCE contamination was removed during the remedial excavation. Recent increases in cVOC concentrations in soil gas are the result of groundwater migration beneath the building. Concentrations of cVOCs in groundwater at AMW-25 will be used to determine if soil gas sampling is necessary in the future. If groundwater concentrations of PCE at AMW-25 exceed the MTCA Method B screening level for VI (25 ug/L), soil gas sampling will be conducted during the next semiannual compliance monitoring event.
- At the dentist office, current concentrations of PCE in groundwater are lower than when the VI pathway was assessed as part of the RI, indicating that the VI pathway remains incomplete, and the 2024 injections are expected to improve groundwater quality in this area of the Site. However, if concentrations of PCE in groundwater at AMW-24 exceed 510 µg/L (the pre-remediation concentration), subslab soil gas sampling will be conducted from within the building to assess the VI pathway.

## 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.
- Aspect Consulting, LLC (Aspect), 2023, Cleanup Action Report, Mount Baker Properties Site, Prepared for Mt. Baker Housing Association, Final, dated September 28, 2023.
- Aspect Consulting (Aspect), 2024, 2024 In Situ Chemical Reduction Work Plan, Mount Baker Properties Site, Prepared for Mt. Baker Housing Association, dated March 25, 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](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. 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		
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		
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
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		
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		
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		
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
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		
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		

**Table 1. Groundwater Elevation Data**

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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-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
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
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
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		
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		
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
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
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		
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		
AMW-26	65.36	6/5/2023	4.58	60.78
		12/4/2023	4.03	61.33
AMW-27	61.86	6/5/2023	10.64	51.22
		12/4/2023	10.91	50.95
AMW-28	61.18	6/5/2023	9.98	51.20
		12/4/2023	10.23	50.95
AMW-29	78.82	6/5/2023	6.54	72.28
		12/4/2023	5.51	73.31

**Table 1. 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-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 <sup>a</sup>	--	--
		12/27/2022 <sup>a</sup>	--	--
		6/7/2023	8.97	58.26
		12/4/2023	8.45	58.78
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
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		
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		
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
	72.07 <sup>b</sup>	1/25/2022	10.70	61.84
		6/7/2022	11.81	60.73
		12/27/2022	7.30	64.77
		6/5/2023	9.56	62.51
12/4/2023	8.59	63.48		
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
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
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		

**Table 1. Groundwater Elevation Data**

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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-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
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
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
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 2. Groundwater TPH Analytical Data**

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

Sample Location				AMW-01		AMW-02	AMW-04			AMW-05			AMW-09	AMW-11		AMW-12		AMW-13		
Sample Date				03/24/17	11/27/17	11/27/17	11/29/17	08/27/18	12/04/18	11/29/2017	08/22/18	12/04/18	08/21/18	11/28/17	08/23/18	11/29/17	08/21/18	11/29/17	08/27/18	
Sample Name				AMW-1-032417	AMW-01-112717	AMW-02-112717	AMW-04-20171129	AMW-04-082718	GW-120418-NT-AMW-4	AMW-05-112917	AMW-05-082218	GW-120418-NT-AMW-5	AMW-09-082118	AMW-11-112817	AMW-11-082318	AMW-12-112917	AMW-12-082118	AMW-13-20171129	AMW-13-082718	
Analyte	Fraction	Unit	Site Cleanup Levels																	
<b>Benzene, Toluene, Ethylbenzene, and Total Xylenes</b>																				
Benzene	T	ug/L	5	< 0.35 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	1.3	< 1 U	< 1 U	< 1 U
Toluene	T	ug/L	1000	< 1 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	4.6	4.8	< 1 U	< 1 U
Ethylbenzene	T	ug/L	700	< 1 U	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	T	ug/L	1000	< 2 U	--	--	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	3.3	3.8	< 3 U	< 3 U
<b>Total Petroleum Hydrocarbons</b>																				
Gasoline Range Organics	T	ug/L	800	< 780 X	--	--	100 X	150 X	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	870	720	< 100 U	< 100 U
Diesel Range Organics	T	ug/L	500	7000	< 50 U	< 50 U	< 50 U	< 50 U	< 380 U	< 50 U	< 50 U	< 370 U	< 50 U	< 50 U	< 50 U	< 50 U	570 X	400 X	< 50 U	< 50 U
Motor Oil Range Organics	T	ug/L	500	400 X	< 250 U	< 250 U	< 250 U	< 250 U	< 380 U	< 250 U	< 250 U	< 370 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	T	ug/L	500	7400 X	< 250 U	< 250 U	< 250 U	< 250 U	--	< 250 U	< 250 U	--	< 250 U	< 250 U	< 250 U	< 250 U	570 X	400 X	< 250 U	< 250 U
<b>Field Parameters</b>																				
Temperature	T	deg C		13.5	--	16.9	14.4	15.1	--	16.1	18.2	--	19.4	16.3	16.9	15.5	16.6	14.1	15.2	
Specific Conductance	T	uS/cm		292.2	--	365.6	459.8	575.4	--	366.8	798	--	952	786	1035	393.8	460.2	450.8	512.7	
Dissolved Oxygen	T	mg/L		7.68	--	4.73	0.55	1.97	--	2.61	0.26	--	0.26	0.39	0.11	0.1	0.29	5	0.21	
Total Dissolved Solids	T	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
pH	T	pH units		6.83	--	7.04	6.36	6.58	--	6.73	6.22	--	6.54	6.71	6.59	6.54	6.48	6.45	6.45	
Oxidation Reduction Potential	T	mV		102.3	--	94.7	22.9	12.8	--	26.6	107.7	--	0.3	-98.4	-106.5	16.3	57.6	82.5	23.3	
Turbidity	T	NTU		94.1	--	7.41	16	96.8	--	3.58	2.69	--	1.72	9.92	--	7.17	5.03	67.1	2.81	

**Notes:**

- Bold** - detected
- \*MTCA A/B Cleanup L evels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- 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
- 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
- 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
- T - total

**Table 2. Groundwater TPH Analytical Data**

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

Sample Location				AMW-14		AMW-15		AMW-16						AMW-17					
Sample Date				11/28/17	08/23/18	11/28/17	08/23/18	08/23/18	12/29/20	06/16/21	06/08/22	12/28/22	06/05/23	12/05/23	06/17/21	06/08/22	12/29/22	06/05/23	12/05/23
Sample Name				AMW-14-112817	AMW-14-082318	AMW-15-112817	AMW-15-082318	AMW-16-082318	AMW-16-122920	AMW-16-061621	AMW-16-20220608	AMW-16-20221228	AMW-16-20230605	AMW-16-20231205	AMW-17-061721	AMW-17-20220608	AMW-17-20221229	AMW-17-20230605	AMW-17-20231205
Analyte	Fraction	Unit	Site Cleanup Levels																
<b>Benzene, Toluene, Ethylbenzene, and Total Xylenes</b>																			
Benzene	T	ug/L	5	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	< 0.440 U	< 0.44 U	< 0.440 U	< 0.440 U	< 0.440 U	<b>1.50</b>	< 0.44 U	< 0.440 U	< 0.440 U	< 0.440 U
Toluene	T	ug/L	1000	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	< 0.750 U	< 0.75 U	< 1.00 U	< 1.00 U	< 1.00 U	<b>0.979</b>	< 0.75 U	< 1.00 U	< 1.00 U	< 1.00 U
Ethylbenzene	T	ug/L	700	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.4 U	< 0.400 U	< 0.400 U	< 0.400 U
Total Xylenes	T	ug/L	1000	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	<b>4.95</b>	< 1 U	< 1 U	< 1 U	< 1 U
<b>Total Petroleum Hydrocarbons</b>																			
Gasoline Range Organics	T	ug/L	800	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 50.0 U	< 50.0 U	< 50 U	< 50.0 U	< 50.0 U	< 50.0 U	<b>277</b>	<b>238</b>	<b>177</b>	<b>162</b>	<b>107 X</b>
Diesel Range Organics	T	ug/L	500	< 50 U	< 50 U	< 50 U	< 50 U	<b>290 X</b>	< 49.4 U	< 98.8 U	<b>667 X</b>	<b>426 X</b>	<b>203 XJ</b>	<b>314 X</b>	<b>202</b>	<b>581 X</b>	<b>394</b>	<b>366 XJ</b>	<b>400 X</b>
Motor Oil Range Organics	T	ug/L	500	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	<b>401</b>	<b>715</b>	< 94.8 U	< 95.1 U	< 94.0 U	< 93.6 U	<b>132</b>	< 92.4 U	< 93.2 U	< 95.1 U	< 94.3 U
Diesel and Oil Extended Range Organics	T	ug/L	500	< 250 U	< 250 U	< 250 U	< 250 U	<b>290 X</b>	<b>401</b>	<b>715</b>	<b>701 XJ</b>	<b>426 X</b>	<b>203 XJ</b>	<b>314 X</b>	<b>334</b>	<b>581 XJ</b>	<b>394</b>	<b>366 XJ</b>	<b>400 X</b>
<b>Field Parameters</b>																			
Temperature	T	deg C		<b>15.9</b>	<b>17.1</b>	<b>16.7</b>	<b>19.6</b>	<b>18.5</b>	<b>14.8</b>	<b>16.4</b>	<b>14.4</b>	<b>15.94</b>	<b>16.48</b>	<b>16.38</b>	<b>17</b>	<b>15.7</b>	<b>16.24</b>	<b>16.96</b>	<b>16.34</b>
Specific Conductance	T	uS/cm		<b>1052</b>	<b>1142</b>	<b>567.3</b>	<b>484.1</b>	<b>1613</b>	<b>1929</b>	<b>1146</b>	<b>996</b>	<b>1382.7</b>	<b>1046.9</b>	<b>0.46</b>	<b>647</b>	<b>272.9</b>	<b>493.96</b>	<b>701.95</b>	<b>0.26</b>
Dissolved Oxygen	T	mg/L		<b>0.48</b>	<b>0.23</b>	<b>0.32</b>	<b>0.11</b>	<b>0.19</b>	<b>0.28</b>	<b>0.16</b>	<b>0.41</b>	<b>0.14</b>	<b>0.08</b>	<b>7.4</b>	<b>0.07</b>	<b>0.42</b>	<b>0.13</b>	<b>0.06</b>	<b>7.42</b>
Total Dissolved Solids	T	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	T	pH units		<b>6.63</b>	<b>5.56</b>	<b>6.97</b>	<b>6.65</b>	<b>6.4</b>	<b>6.74</b>	<b>6.6</b>	<b>6.42</b>	<b>6.64</b>	<b>6.75</b>	<b>4.61</b>	<b>6.39</b>	<b>6.53</b>	<b>6.73</b>	<b>6.69</b>	<b>4.58</b>
Oxidation Reduction Potential	T	mV		<b>-96.4</b>	<b>-91.9</b>	<b>-128</b>	<b>-115.6</b>	<b>8.1</b>	<b>-74.3</b>	<b>-75.6</b>	<b>-94.8</b>	<b>-90.6</b>	<b>-67.2</b>	<b>198.7</b>	<b>-55.3</b>	<b>-82.4</b>	<b>-58</b>	<b>-34.2</b>	<b>210.6</b>
Turbidity	T	NTU		<b>7.4</b>	<b>1.46</b>	<b>11.6</b>	--	<b>4.91</b>	<b>8.9</b>	<b>2.35</b>	<b>2.78</b>	<b>7.46</b>	<b>1.88</b>	<b>3.4</b>	<b>12.3</b>	<b>1.87</b>	<b>2.14</b>	<b>0.48</b>	<b>2.15</b>

**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
- T - total

**Table 2. Groundwater TPH Analytical Data**

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

DRAFT

Sample Location				AMW-18	AMW-20					AMW-27		AMW-28		MW-01			MW-02				
Sample Date				08/23/18	08/22/18	12/29/20	06/17/21	06/09/22	12/27/22	06/06/23	12/04/23	06/06/23	12/04/23	06/06/23	12/05/23	11/29/17	08/24/18	12/05/18	11/28/17	08/21/18	
Sample Name				AMW-18-082318	AMW-20-082218	AMW-20-122920	AMW-20-061721	AMW-20-20220609	AMW-20-20221227	AMW-20-20230606	AMW-20-20231204	AMW-27-20230606	AMW-27-20231204	AMW-28-20230606	AMW-28-20231205	MW-1-20171129	MW-1-082418	GW-120518-NT-MW-1	MW-2-112817	MW-2-082118	
Analyte	Fraction	Unit	Site Cleanup Levels																		
<b>Benzene, Toluene, Ethylbenzene, and Total Xylenes</b>																					
Benzene	T	ug/L	5	< 1 U	<b>5.4</b>	< 1.00 U	< 0.440 U	< 0.44 U	< 0.440 U	< 0.440 U	< 0.440 U	< 0.440 U	< 0.440 U	< 0.440 U	< 0.440 U	< 0.440 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Toluene	T	ug/L	1000	< 1 U	<b>3.9</b>	< 1.00 U	< 0.750 U	< 0.75 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1 U	<b>4.4</b>	< 1 U	<b>2.5</b>	<b>2.5</b>
Ethylbenzene	T	ug/L	700	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.400 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	T	ug/L	1000	< 3 U	<b>7.1</b>	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U
<b>Total Petroleum Hydrocarbons</b>																					
Gasoline Range Organics	T	ug/L	800	< 100 U	<b>540</b>	< 50.0 U	< 50.0 U	< 50 U	<b>57.5</b>	< 50.0 U	< 50.0 U	<b>58.9 X</b>	<b>78.6 X</b>	<b>59.6 X</b>	< 50.0 U	< 100 U	< 100 U	< 100 U	<b>350</b>	<b>350</b>	
Diesel Range Organics	T	ug/L	500	<b>68 X</b>	<b>360 X</b>	< 49.1 U	< 99.7 U	< 92.3 U	<b>266 X</b>	<b>307 XJ</b>	<b>248 X</b>	<b>120 XJ</b>	< 93.5 U	<b>102 XJ</b>	<b>141 X</b>	< 50 U	< 50 U	< 370 U	<b>250 X</b>	<b>300 X</b>	
Motor Oil Range Organics	T	ug/L	500	< 250 U	< 250 U	<b>543</b>	<b>550</b>	<b>409</b>	< 96.9 U	< 94.9 U	< 93.8 U	< 96.0 U	< 93.5 U	< 97.5 U	< 95.2 U	< 250 U	< 250 U	< 370 U	< 250 U	< 250 U	
Diesel and Oil Extended Range Organics	T	ug/L	500	<b>68 X</b>	<b>360 X</b>	<b>543</b>	<b>550</b>	<b>409</b>	<b>266 X</b>	<b>307 XJ</b>	<b>248 X</b>	<b>120 XJ</b>	< 93.5 U	<b>102 XJ</b>	<b>141 XJ</b>	< 250 U	< 250 U	--	<b>250 X</b>	<b>300 X</b>	
<b>Field Parameters</b>																					
Temperature	T	deg C		<b>18.4</b>	<b>17.3</b>	<b>12.3</b>	<b>15.7</b>	<b>14.1</b>	<b>13.34</b>	<b>17.04</b>	<b>15.77</b>	<b>16.76</b>	<b>16.14</b>	<b>16.18</b>	<b>15.83</b>	<b>14.3</b>	<b>16.6</b>	--	<b>15.3</b>	<b>17.9</b>	
Specific Conductance	T	uS/cm		<b>1098</b>	<b>501.8</b>	<b>814</b>	<b>801</b>	<b>669</b>	<b>885.06</b>	<b>601.84</b>	<b>668.22</b>	<b>442.13</b>	<b>748.99</b>	<b>492.17</b>	<b>0.44</b>	<b>423.2</b>	<b>514.7</b>	--	<b>340.9</b>	<b>420.4</b>	
Dissolved Oxygen	T	mg/L		<b>0.14</b>	<b>0.12</b>	<b>2.47</b>	<b>0.86</b>	<b>1.01</b>	<b>1.26</b>	<b>0.34</b>	<b>1.21</b>	<b>1.3</b>	<b>0.21</b>	<b>0.26</b>	<b>8.53</b>	<b>0.44</b>	<b>0.36</b>	--	<b>0.13</b>	<b>0.13</b>	
Total Dissolved Solids	T	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
pH	T	pH units		<b>6.59</b>	<b>6.64</b>	<b>7.84</b>	<b>7.48</b>	<b>7.41</b>	<b>7.56</b>	<b>7.62</b>	<b>7.9</b>	<b>7.6</b>	<b>7.72</b>	<b>7.65</b>	<b>4.41</b>	<b>6.38</b>	<b>6.55</b>	--	<b>6.68</b>	<b>6.55</b>	
Oxidation Reduction Potential	T	mV		<b>-114.9</b>	<b>-39.4</b>	<b>-4.3</b>	<b>48.3</b>	<b>60.4</b>	<b>107.6</b>	<b>3.7</b>	<b>14.2</b>	<b>46.1</b>	<b>4.5</b>	<b>29.8</b>	<b>208.6</b>	<b>46.3</b>	<b>24.5</b>	--	<b>-28.3</b>	<b>-15.7</b>	
Turbidity	T	NTU		--	<b>3.09</b>	<b>7.73</b>	<b>1.96</b>	<b>1.42</b>	<b>0.86</b>	<b>4.85</b>	<b>0.53</b>	<b>2.19</b>	<b>0.44</b>	<b>13.7</b>	<b>6.84</b>	<b>45.7</b>	<b>7</b>	--	<b>13.5</b>	<b>12.7</b>	

**Notes:**

- Bold** - detected
- \*MTCA A/B Cleanup L evels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- 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
- 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
- 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
- T - total

**Table 2. Groundwater TPH Analytical Data**

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

Sample Location				MW-03		MW-04		MW-05				MW-06									
Sample Date				11/28/17	08/22/18	11/29/17	08/22/18	11/28/17	08/22/18	06/17/21	06/08/22	06/06/23	12/04/23	11/28/17	08/22/18	12/29/20	06/17/21	06/07/22	12/28/22	06/07/23	12/05/23
Sample Name				MW-3-112817	MW-3-082218	MW-4-112917	MW-4-082218	MW-5-112917	MW-05-082218	MW-5-061721	MW-5-20220608	MW-05-20230606	MW-05-20231204	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	Fraction	Unit	Site Cleanup Levels																		
<b>Benzene, Toluene, Ethylbenzene, and Total Xylenes</b>																					
Benzene	T	ug/L	5	< 1 U	<b>2.6</b>	< 1 U	< 1 U	< 1 U	<b>2.8</b>	< 0.440 U	< 0.44 U	< 0.440 U	< 0.440 U	< 1 U	< 1 U	< 1.00 U	< 0.440 U	< 0.44 U	< 0.440 U	< 0.440 U	< 0.440 U
Toluene	T	ug/L	1000	<b>12</b>	<b>19</b>	< 1 U	< 1 U	<b>3.1</b>	< 1 U	< 0.750 U	< 0.75 U	< 1.00 U	< 1.00 U	< 1 U	< 1 U	< 1.00 U	< 0.750 U	< 0.75 U	< 1.00 U	< 1.00 U	< 1.00 U
Ethylbenzene	T	ug/L	700	<b>15</b>	<b>86</b>	< 1 U	< 1 U	<b>1.4</b>	<b>12</b>	< 0.400 U	< 0.4 U	< 0.400 U	< 0.400 U	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.400 U	< 0.400 U	< 0.400 U
Total Xylenes	T	ug/L	1000	<b>43</b>	<b>57</b>	< 3 U	< 3 U	< 3 U	<b>8.8</b>	< 1 U	< 1 U	< 1 U	< 1 U	< 3 U	< 3 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
<b>Total Petroleum Hydrocarbons</b>																					
Gasoline Range Organics	T	ug/L	800	<b>2400</b>	<b>3800</b>	< 100 U	< 100 U	<b>500</b>	<b>3400</b>	<b>440</b>	<b>77.1</b>	<b>85.9</b>	< 50.0 U	< 100 U	< 100 U	< 50.0 U	<b>85.1</b>	< 50 U	< 50.0 U	< 50.0 U	< 50.0 U
Diesel Range Organics	T	ug/L	500	<b>480 X</b>	<b>1100 X</b>	< 50 U	< 50 U	<b>140 X</b>	<b>1300 X</b>	<b>134</b>	< 93 U	<b>107 XJ</b>	< 96.7 U	<b>61 X</b>	<b>53 X</b>	< 49.6 U	< 99.3 U	<b>348 X</b>	<b>238 X</b>	<b>175 XJ</b>	<b>208 X</b>
Motor Oil Range Organics	T	ug/L	500	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 98.3 U	<b>167</b>	< 93.6 U	< 96.7 U	< 250 U	< 250 U	< 99.1 U	<b>190</b>	< 93.2 U	< 95.7 U	< 95.7 U	< 93.7 U
Diesel and Oil Extended Range Organics	T	ug/L	500	<b>480 X</b>	<b>1100 X</b>	< 250 U	< 250 U	<b>140 X</b>	<b>1300 X</b>	<b>134</b>	<b>227 J</b>	< 187 U	< 193 U	<b>61 X</b>	<b>53 X</b>	< 99.1 U	< 199 U	<b>348 XJ</b>	<b>238 X</b>	< 191 U	<b>208 X</b>
<b>Field Parameters</b>																					
Temperature	T	deg C		<b>15.6</b>	<b>17.1</b>	<b>15.8</b>	<b>17</b>	<b>15.8</b>	<b>19.5</b>	<b>15.7</b>	<b>14.1</b>	<b>17.07</b>	<b>16.04</b>	<b>15.7</b>	<b>19.3</b>	<b>15.4</b>	<b>16.4</b>	<b>17</b>	<b>13.95</b>	<b>16.49</b>	<b>16.43</b>
Specific Conductance	T	uS/cm		<b>272.5</b>	<b>375.2</b>	<b>499.8</b>	<b>520.5</b>	<b>304.9</b>	<b>460.7</b>	<b>321.2</b>	<b>520</b>	<b>456.53</b>	<b>379.58</b>	<b>923</b>	<b>883</b>	<b>1032</b>	<b>864</b>	<b>803</b>	<b>965.31</b>	<b>1154.3</b>	<b>0.27</b>
Dissolved Oxygen	T	mg/L		<b>1.27</b>	<b>0.22</b>	<b>0.08</b>	<b>0.11</b>	<b>1.93</b>	<b>1.42</b>	<b>1.06</b>	<b>2.43</b>	<b>1.3</b>	<b>5.21</b>	<b>0.46</b>	<b>0.11</b>	<b>0.18</b>	<b>0.18</b>	<b>3.6</b>	<b>0.18</b>	<b>0.04</b>	<b>9.62</b>
Total Dissolved Solids	T	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	T	pH units		<b>6.65</b>	<b>6.24</b>	<b>6.69</b>	<b>6.57</b>	<b>6.53</b>	<b>6.16</b>	<b>6.57</b>	<b>6.6</b>	<b>6.72</b>	<b>7.3</b>	<b>6.62</b>	<b>6.68</b>	<b>6.87</b>	<b>6.59</b>	<b>6.7</b>	<b>6.8</b>	<b>6.78</b>	<b>4.37</b>
Oxidation Reduction Potential	T	mV		<b>13.7</b>	<b>39.5</b>	<b>-57.2</b>	<b>-72.8</b>	<b>17.6</b>	<b>101.7</b>	<b>35.3</b>	<b>-10.8</b>	<b>38.8</b>	<b>-3.8</b>	<b>-110.6</b>	<b>-103.4</b>	<b>-106.1</b>	<b>-32.6</b>	<b>-66.2</b>	<b>-121.4</b>	<b>-92.6</b>	<b>201.3</b>
Turbidity	T	NTU		<b>5.26</b>	<b>2.26</b>	<b>12.3</b>	<b>5.47</b>	<b>2.32</b>	<b>15.4</b>	<b>5</b>	<b>4</b>	<b>5.58</b>	<b>4.66</b>	<b>144</b>	<b>5.75</b>	<b>8.94</b>	<b>12.4</b>	<b>10.3</b>	<b>8.93</b>	<b>1.34</b>	<b>10.1</b>

**Notes:**

- Bold** - detected
- \*MTCA A/B Cleanup L evels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- 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
- 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
- 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
- T - total

**Table 2. Groundwater TPH Analytical Data**

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

Sample Location				MW-07		MW-08			MW-09			MW-10							
Sample Date				11/28/17	08/22/18	11/29/17	08/22/18	12/05/18	11/29/17	08/27/18	12/05/18	11/28/17	08/23/18	12/29/20	06/16/21	06/07/22	12/28/22	06/05/23	12/05/23
Sample Name				MW-07-112817	MW-7-082218	MW-8-20171129	MW-8-082218	GW-120518-NT-MW-8	MW-9-20171129	MW-09-082718	GW-120518-NT-MW-9	MW-10-112817	AMW-10-082318	MW-10-122920	MW-10-061621	MW-10-20220607	MW-10-20221228	MW-10-20230605	MW-10-20231205
Analyte	Fraction	Unit	Site Cleanup Levels																
<b>Benzene, Toluene, Ethylbenzene, and Total Xylenes</b>																			
Benzene	T	ug/L	5	< 1 U	< 1 U	1.3	< 5 U	< 2 U	< 1 U	< 1 U	< 1 U	4.6	< 1 U	1.69	0.793	0.894	1.53	0.482	0.496
Toluene	T	ug/L	1000	< 1 U	< 1 U	14	< 10 U	< 2 U	< 1 U	< 1 U	< 1 U	6.7	< 1 U	< 1.00 U	< 0.750 U	< 0.75 U	< 1.00 U	< 1.00 U	< 1.00 U
Ethylbenzene	T	ug/L	700	< 1 U	< 1 U	44	98	47	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.400 U	< 0.400 U	< 0.400 U
Total Xylenes	T	ug/L	1000	< 3 U	< 3 U	110	360	131	< 3 U	< 3 U	< 3 U	11	< 3 U	3.21	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
<b>Total Petroleum Hydrocarbons</b>																			
Gasoline Range Organics	T	ug/L	800	< 100 U	< 100 U	5400	9000	6450	100 X	< 100 U	< 100 U	1000	120	448	160	122	167	50.1	< 50.0 U
Diesel Range Organics	T	ug/L	500	< 50 U	< 50 U	7100	2700 X	790	140 X	< 50 U	< 370 U	570 X	260 X	140 X	< 99.4 U	528 X	675 X	393 XJ	436 X
Motor Oil Range Organics	T	ug/L	500	< 250 U	< 250 U	420 X	< 250 U	< 370 U	< 250 U	< 250 U	< 370 U	< 250 U	< 250 U	123	484	< 92.4 U	< 92.4 U	< 93.6 U	< 93.9 U
Diesel and Oil Extended Range Organics	T	ug/L	500	< 250 U	< 250 U	7520 X	2700 X	--	140 X	< 250 U	--	570 X	260 X	263	558	528 XJ	675 X	393 XJ	436 X
<b>Field Parameters</b>																			
Temperature	T	deg C		16.8	18.8	14.8	17	--	14.1	14.9	--	16.3	16.8	15.2	16.8	15.8	15.85	16.57	15.83
Specific Conductance	T	uS/cm		404.9	435.3	480.3	398.8	--	455.3	520.8	--	851	2156	1441	1210	1655	1038.8	1374.3	0.29
Dissolved Oxygen	T	mg/L		0.42	0.18	0.41	0.09	--	1.02	0.3	--	0.49	0.15	0.18	0.2	4.3	0.17	0.18	8.16
Total Dissolved Solids	T	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	T	pH units		6.57	6.36	6.3	6.41	--	6.36	6.48	--	6.38	6.46	6.78	6.67	6.68	6.7	6.76	4.61
Oxidation Reduction Potential	T	mV		-74	72.2	28.5	-54.6	--	86.6	12.1	--	-24.6	-109.6	-75.4	-101.8	-56.3	-103.1	-73.1	199
Turbidity	T	NTU		14	1.1	13.7	5.53	--	6.18	5.08	--	9.1	--	9.56	8.22	10.1	2.95	1.68	2.21

**Notes:**

- Bold** - detected
- \*MTCA A/B Cleanup L evels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- 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
- 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
- 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
- T - total

**Table 2. Groundwater TPH Analytical Data**

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

Sample Location				MW-11			MW-12		MW-13		
Sample Date				11/29/17	08/22/18	12/04/18	11/28/17	08/22/18	11/29/17	08/27/18	12/04/18
Sample Name				MW-11-112917	MW-11-082218	GW-120418-NT-MW-11	MW-12-20171129	MW-12-082218	MW-13-112917	MW-13-082718	GW-120418-NT-MW-13
Analyte	Fraction	Unit	Site Cleanup Levels								
<b>Benzene, Toluene, Ethylbenzene, and Total Xylenes</b>											
Benzene	T	ug/L	5	< 1 U	< 1 U	< 1 U	<b>2.1</b>	< 5 U	< 1 U	< 1 U	< 1 U
Toluene	T	ug/L	1000	< 1 U	< 1 U	< 1 U	<b>11</b>	< 10 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	T	ug/L	700	< 1 U	< 1 U	< 1 U	<b>380</b>	<b>710</b>	< 1 U	< 1 U	< 1 U
Total Xylenes	T	ug/L	1000	< 3 U	< 3 U	< 3 U	<b>1600</b>	<b>3000</b>	< 3 U	< 3 U	< 3 U
<b>Total Petroleum Hydrocarbons</b>											
Gasoline Range Organics	T	ug/L	800	<b>650 X</b>	<b>690</b>	<b>620</b>	<b>15000</b>	<b>24000</b>	< 100 U	< 100 U	< 100 U
Diesel Range Organics	T	ug/L	500	< 50 U	< 50 U	< 370 U	<b>3800 X</b>	<b>4600 X</b>	< 50 U	< 50 U	< 370 U
Motor Oil Range Organics	T	ug/L	500	< 250 U	< 250 U	< 370 U	<b>290 X</b>	< 250 U	< 250 U	< 250 U	< 370 U
Diesel and Oil Extended Range Organics	T	ug/L	500	< 250 U	< 250 U	--	<b>4090 X</b>	<b>4600 X</b>	< 250 U	< 250 U	--
<b>Field Parameters</b>											
Temperature	T	deg C		<b>16</b>	<b>17.8</b>	--	<b>15.5</b>	<b>17.1</b>	<b>15.6</b>	<b>18</b>	--
Specific Conductance	T	uS/cm		<b>389.8</b>	<b>452.5</b>	--	<b>403.5</b>	<b>356</b>	<b>612</b>	<b>781</b>	--
Dissolved Oxygen	T	mg/L		<b>0.24</b>	<b>0.17</b>	--	<b>0.46</b>	<b>0.07</b>	<b>0.12</b>	<b>0.22</b>	--
Total Dissolved Solids	T	mg/L		--	--	--	--	--	--	--	--
pH	T	pH units		<b>6.99</b>	<b>6.52</b>	--	<b>0.31</b>	<b>6.3</b>	<b>6.63</b>	<b>6.53</b>	--
Oxidation Reduction Potential	T	mV		<b>81.9</b>	<b>90.4</b>	--	<b>15.9</b>	<b>-64.6</b>	<b>10.9</b>	<b>-3.2</b>	--
Turbidity	T	NTU		<b>18.8</b>	<b>2.96</b>	--	<b>13.8</b>	<b>9.71</b>	<b>40.5</b>	<b>28.2</b>	--

**Notes:**

- Bold** - detected
- \*MTCA A/B Cleanup L levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- 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
- 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
- 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
- T - total

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

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Sample Location			AMW-01		AMW-02		AMW-03								AMW-04			AMW-05				
Sample Date			03/24/17	11/27/17	11/27/17	08/24/18	11/27/17	08/22/18	12/29/20	03/26/21	06/17/21	01/25/22	06/08/22	12/27/22	06/05/23	12/04/23	11/29/17	08/27/18	12/04/18	11/29/17	08/22/18	12/04/18
Sample Name			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	AMW-05-112917	AMW-05-082218	GW-120418-NT-AMW-5
Analyte	Unit	Site Cleanup Levels																				
<b>cVOCs</b>																						
Tetrachloroethene (PCE)	ug/L	5	<b>1500</b>	<b>1100</b>	<b>1800</b>	<b>2100</b>	< 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	<b>110</b>	<b>210</b>	<b>153</b>	< 1 U	< 1 U	< 1 U
Trichloroethene (TCE)	ug/L	5	<b>1.8</b>	<b>1.4</b>	<b>58</b>	<b>68</b>	< 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	<b>18</b>	<b>36</b>	<b>40.2</b>	< 1 U	< 1 U	< 0.4 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 1 U	< 1 U	<b>58</b>	<b>72</b>	< 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	<b>45</b>	<b>68</b>	<b>88.7</b>	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 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	< 1 U	< 1 U	< 1 U
Vinyl Chloride (VC)	ug/L	0.2	< 0.2 U	< 0.2 U	<b>0.21</b>	< 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	<b>8</b>	<b>6.5</b>	<b>11.1</b>	< 0.2 U	< 0.2 U	<b>0.0414</b>
<b>Anions</b>																						
Chloride	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																						
Ethane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																						
Iron	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																						
Temperature	deg C		<b>13.5</b>	--	<b>16.9</b>	<b>18.7</b>	<b>15.7</b>	<b>21.3</b>	<b>13</b>	<b>12.7</b>	<b>18.2</b>	<b>11.6</b>	<b>16.4</b>	<b>12.06</b>	<b>18.25</b>	<b>14.43</b>	<b>14.4</b>	<b>15.1</b>	--	<b>16.1</b>	<b>18.2</b>	--
Specific Conductance	uS/cm		<b>292.2</b>	--	<b>365.6</b>	<b>413.2</b>	<b>319</b>	<b>312.4</b>	<b>344.5</b>	<b>345</b>	<b>335.2</b>	<b>366.1</b>	<b>291.3</b>	<b>363.6</b>	<b>377.9</b>	<b>247.99</b>	<b>459.8</b>	<b>575.4</b>	--	<b>366.8</b>	<b>798</b>	--
Dissolved Oxygen	mg/L		<b>7.68</b>	--	<b>4.73</b>	<b>0.4</b>	<b>5.85</b>	<b>51.4</b>	<b>4.42</b>	<b>6.95</b>	<b>2.94</b>	<b>4.99</b>	<b>4.35</b>	<b>5.67</b>	<b>4.55</b>	<b>5.11</b>	<b>0.55</b>	<b>1.97</b>	--	<b>2.61</b>	<b>0.26</b>	--
pH	pH units		<b>6.83</b>	--	<b>7.04</b>	<b>6.62</b>	<b>7.15</b>	<b>6.71</b>	<b>6.84</b>	<b>6.91</b>	<b>6.94</b>	<b>6.9</b>	<b>6.77</b>	<b>7.13</b>	<b>7.05</b>	<b>7.02</b>	<b>6.36</b>	<b>6.58</b>	--	<b>6.73</b>	<b>6.22</b>	--
Oxidation Reduction Potential	mV		<b>102.3</b>	--	<b>94.7</b>	<b>43.5</b>	<b>94.2</b>	<b>95.7</b>	<b>56.2</b>	<b>103.7</b>	<b>75.5</b>	<b>31.3</b>	<b>44</b>	<b>131.6</b>	<b>116.6</b>	<b>109.4</b>	<b>22.9</b>	<b>12.8</b>	--	<b>26.6</b>	<b>107.7</b>	--
Turbidity	NTU		<b>94.1</b>	--	<b>7.41</b>	<b>2</b>	<b>24</b>	<b>42.8</b>	<b>10.6</b>	<b>53.6</b>	<b>17.1</b>	<b>5.31</b>	<b>6.37</b>	<b>78.43</b>	<b>5.57</b>	<b>15.9</b>	<b>16</b>	<b>96.8</b>	--	<b>3.58</b>	<b>2.69</b>	--

**Notes:**

- Bold** - detected
- Blue Shaded - Detected result or nondetected RL exceeded screening level
- \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- cVOCs - chlorinated volatile organic compounds
- 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.
- D - Dissolved Fraction (filtered) sample result
- T - Total Fraction (unfiltered) sample result
- "--" - 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 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-06										AMW-07								
Sample Date			11/28/17	08/22/18	12/30/20	03/26/21	06/18/21	01/25/22	06/08/22	12/28/22	06/05/23	12/05/23	11/28/17	08/20/18	12/29/20	06/16/21	06/07/22	12/27/22	06/05/23	12/04/23	
Sample Name			AMW-06-112817	AMW-06-082218	AMW-6-123020	AMW-6-20210326	AMW-6-061821	AMW-06-012522	AMW-06-20220608	AMW-06-20221228	AMW-06-20230605	AMW-06-20231205	AMW-07-112817	AMW-07-082018	AMW-07-122920	AMW-7-061621	AMW-7-20220607	AMW-07-20221227	AMW-07-20230605	AMW-07-20231204	
Analyte	Unit	Site Cleanup Levels																			
<b>cVOCs</b>																					
Tetrachloroethene (PCE)	ug/L	5	4.2	3	22.6	9.15	4.71	4.13	4.93	3.64	3.34	3.62	< 1 U	< 1.0 U	< 1.00 U	0.625	0.767	0.810	0.436	0.773	
Trichloroethene (TCE)	ug/L	5	1.3	< 1 U	2.31	1.14	1.18	1.15	1.07	0.978	0.654	0.926	< 1 U	< 1.0 U	0.587	< 0.500 U	0.602	0.565	< 0.400 U	0.714	
cis-1,2-Dichloroethene (cDCE)	ug/L	16	< 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	< 1 U	< 1.0 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1 U	< 1.00 U	< 0.500 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 1.0 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	
Vinyl Chloride (VC)	ug/L	0.2	< 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	< 0.2 U	< 0.20 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	
<b>Anions</b>																					
Chloride	mg/L		--	--	--	--	--	--	34.2	54.0	--	--	--	--	--	--	--	--	--	--	
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	1.51	1.66	--	--	--	--	--	--	--	--	--	--	
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	< 1 U	< 1.20 U	--	--	--	--	--	--	--	--	--	--	
Sulfate	mg/L		--	--	--	--	--	--	26.5	28.0	--	--	--	--	--	--	--	--	--	--	
<b>Dissolved Gases</b>																					
Ethane	mg/L		--	--	--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	--	--	--	--	--	--	--	--	
Ethene	mg/L		--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	--	--	--	--	--	--	--	--	
Methane	mg/L		--	--	--	--	--	--	< 0.00675 U	< 0.00675 U	--	--	--	--	--	--	--	--	--	--	
<b>Other</b>																					
Iron	ug/L		--	--	--	--	--	--	< 100 U	< 250 U	--	--	--	--	--	--	--	--	--	--	
Alkalinity, Total	mg/L		--	--	--	--	--	--	126	124	--	--	--	--	--	--	--	--	--	--	
Total Organic Carbon	mg/L		--	--	--	--	--	--	0.988	0.951	--	--	--	--	--	--	--	--	--	--	
<b>Field Parameters</b>																					
Temperature	deg C		14	17.6	14.1	12.8	15.7	12.6	14.6	12.5	14.69	15.75	15	17.8	14.9	16.8	15.6	14.06	14.66	15.97	
Specific Conductance	uS/cm		333	362.6	388.2	401	343	470.7	168.9	389.24	471.9	359.79	385.2	319.4	537.4	564.3	488.5	593.23	631.95	490.09	
Dissolved Oxygen	mg/L		1.86	2.23	0.31	3.64	2.83	2.94	3.99	4.98	3.26	4.03	3.47	4.91	2.79	3.43	38.6	3.35	4.43	3.92	
pH	pH units		6.91	6.29	6.55	6.89	6.75	4.47	6.6	6.84	6.79	6.89	6.88	6.67	6.6	6.66	6.61	6.79	6.73	6.73	
Oxidation Reduction Potential	mV		22.9	79.3	61.7	-3.1	34.8	-104.5	78.6	19	79.4	34.1	45.8	71.2	51.7	93.3	29	131.3	59	117.3	
Turbidity	NTU		7.04	0.32	12.6	15.2	4.39	7.2	8.84	33.75	15.2	7.05	2.95	1.32	10.5	1.56	2.37	0	1.05	1.1	

**Notes:**

- Bold** - detected
- Blue Shaded - Detected result or nondetected RL exceeded screening level
- \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- cVOCs - chlorinated volatile organic compounds
- U - Analyte not detected at or above Reporting Limit (RL) shown
- J - Result value estimated
- UU - Analyte not detected and the Reporting Limit (RL) is an estimate.
- D - Dissolved Fraction (filtered) sample result
- T - Total Fraction (unfiltered) sample result
- "--" - indicates results not available
- mV - millivolts
- ppm -- parts per million
- uS/cm - microSiemens per centimeter
- deg C - degrees Celsius
- NTU - Nephelometric Turbidity Units
- mg/L - milligram per liter
- ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-08							AMW-09							AMW-10 / AMW-26					
Sample Date			11/28/17	08/20/18	12/29/20	06/16/21	06/07/22	12/27/22	06/05/23	12/04/23	11/27/17	08/21/18	12/30/20	06/17/21	06/07/22	12/27/22	06/07/23	12/04/23	11/27/17	08/24/18	06/07/23	12/05/23
Sample Name			AMW-08-112817	AMW-08-082018	AMW-08-122920	AMW-8-061621	AMW-8-20220607	AMW-08-20221227	AMW-08-20230605	AMW-08-20231204	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	AMW-26-20230607	AMW-26-20231205
Analyte	Unit	Site Cleanup Levels																				
<b>cVOCs</b>																						
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1.0 U	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 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	<b>310</b>	<b>650</b>	< 0.350 U	< 0.350 U
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1.0 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 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	<b>25</b>	<b>52</b>	<b>1.12</b>	<b>1.54</b>
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 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U	<b>31</b>	<b>69</b>	<b>4.81</b>	<b>1.23</b>
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1.0 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 10 U	<b>0.607</b>	< 0.350 U
Vinyl Chloride (VC)	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	< 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	<b>2.00</b>	<b>0.352</b>
<b>Anions</b>																						
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																						
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																						
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																						
Temperature	deg C		<b>13.9</b>	<b>16.2</b>	<b>13.2</b>	<b>15.5</b>	<b>13.9</b>	<b>13.46</b>	<b>13.61</b>	<b>14.62</b>	<b>17.2</b>	<b>19.4</b>	<b>12.1</b>	<b>15.8</b>	<b>16.2</b>	<b>16.79</b>	<b>15.97</b>	<b>17.3</b>	<b>15.7</b>	<b>17.5</b>	<b>16.67</b>	<b>13.99</b>
Specific Conductance	uS/cm		<b>404.3</b>	<b>423.6</b>	<b>278.3</b>	<b>414.5</b>	<b>382.6</b>	<b>442.69</b>	<b>313.8</b>	<b>303.75</b>	<b>797</b>	<b>952</b>	<b>817</b>	<b>864</b>	<b>759</b>	<b>776.59</b>	<b>942</b>	<b>957.09</b>	<b>389.7</b>	<b>312.6</b>	<b>739.93</b>	<b>231.02</b>
Dissolved Oxygen	mg/L		<b>3.23</b>	<b>0.59</b>	<b>4.87</b>	<b>1.07</b>	<b>10.8</b>	<b>0.3</b>	<b>0.49</b>	<b>0.18</b>	<b>0.3</b>	<b>0.26</b>	<b>0.98</b>	<b>0.23</b>	<b>4.3</b>	<b>0.13</b>	<b>0.05</b>	<b>0.34</b>	<b>1.49</b>	<b>0.45</b>	<b>0.11</b>	<b>4.27</b>
pH	pH units		<b>8.33</b>	<b>6.82</b>	<b>6.01</b>	<b>6.69</b>	<b>6.76</b>	<b>7.2</b>	<b>6.6</b>	<b>7.58</b>	<b>6.76</b>	<b>6.54</b>	<b>6.43</b>	<b>6.35</b>	<b>6.66</b>	<b>6.73</b>	<b>6.52</b>	<b>6.76</b>	<b>6.52</b>	<b>6.35</b>	<b>7</b>	<b>7.76</b>
Oxidation Reduction Potential	mV		<b>83.8</b>	<b>83.4</b>	<b>33.4</b>	<b>85.3</b>	<b>46.7</b>	<b>131.3</b>	<b>44</b>	<b>56.6</b>	<b>-30.5</b>	<b>0.3</b>	<b>51.2</b>	<b>21.1</b>	<b>-42.7</b>	<b>-86.9</b>	<b>-56.1</b>	<b>-45.7</b>	<b>106.3</b>	<b>64.6</b>	<b>-28.5</b>	<b>-20.4</b>
Turbidity	NTU		<b>4.35</b>	<b>2.85</b>	<b>11.3</b>	<b>1.26</b>	<b>2.64</b>	<b>0</b>	<b>1.85</b>	<b>4.16</b>	<b>7.85</b>	<b>1.72</b>	<b>10.3</b>	<b>0</b>	<b>3.64</b>	<b>0.28</b>	<b>0.99</b>	<b>12</b>	<b>16.7</b>	<b>1</b>	<b>2.27</b>	<b>5.47</b>

**Notes:**

- Bold** - detected
- Blue Shaded - Detected result or nondetected RL exceeded screening level
- \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- cVOCs - chlorinated volatile organic compounds
- U - Analyte not detected at or above Reporting Limit (RL) shown
- J - Result value estimated
- UU - Analyte not detected and the Reporting Limit (RL) is an estimate.
- D - Dissolved Fraction (filtered) sample result
- T - Total Fraction (unfiltered) sample result
- "--" - indicates results not available
- mV - millivolts
- ppm -- parts per million
- uS/cm - microSiemens per centimeter
- deg C - degrees Celsius
- NTU - Nephelometric Turbidity Units
- mg/L - milligram per liter
- ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-11							AMW-12		AMW-13		AMW-14								
Sample Date			11/28/17	08/23/18	12/30/20	06/16/21	06/08/22	12/29/22	06/06/23	12/05/23	11/29/17	08/21/18	11/29/17	08/27/18	11/28/17	08/23/18	12/29/20	06/16/21	06/08/22	12/28/22	06/05/23	12/05/23
Sample Name			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-12-112917	AMW-12-082118	AMW-13-20171129	AMW-13-082718	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 Levels																				
<b>cVOCs</b>																						
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	< 1 U	< 1 U	<b>20</b>	<b>93</b>	< 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	< 1 U	< 1 U	<b>59</b>	<b>41</b>	< 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	<b>0.738</b>	<b>0.565</b>	< 0.500 U	< 0.500 U	<b>0.659</b>	< 1 U	< 1 U	<b>110</b>	<b>84</b>	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 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	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride (VC)	ug/L	0.2	<b>0.22</b>	<b>0.24</b>	<b>0.920</b>	<b>1.94</b>	<b>1.20</b>	<b>0.854</b>	<b>0.441</b>	<b>0.924</b>	< 0.2 U	< 0.2 U	<b>15</b>	<b>7.6</b>	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U
<b>Anions</b>																						
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																						
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																						
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																						
Temperature	deg C		<b>16.3</b>	<b>16.9</b>	<b>13</b>	<b>15.7</b>	<b>13.7</b>	<b>14.06</b>	<b>16.41</b>	<b>15.06</b>	<b>15.5</b>	<b>16.6</b>	<b>14.1</b>	<b>15.2</b>	<b>15.9</b>	<b>17.1</b>	<b>13.9</b>	<b>17.4</b>	<b>13.8</b>	<b>15</b>	<b>17.27</b>	<b>14.99</b>
Specific Conductance	uS/cm		<b>786</b>	<b>1035</b>	<b>686</b>	<b>465.1</b>	<b>1182</b>	<b>839</b>	<b>747.09</b>	<b>0.42</b>	<b>393.8</b>	<b>460.2</b>	<b>450.8</b>	<b>512.7</b>	<b>1052</b>	<b>1142</b>	<b>1138</b>	<b>594</b>	<b>446.4</b>	<b>822.87</b>	<b>1008.8</b>	<b>0.37</b>
Dissolved Oxygen	mg/L		<b>0.39</b>	<b>0.11</b>	<b>0.32</b>	<b>0.22</b>	<b>1.71</b>	<b>0.15</b>	<b>0.08</b>	<b>7.71</b>	<b>0.1</b>	<b>0.29</b>	<b>5</b>	<b>0.21</b>	<b>0.48</b>	<b>0.23</b>	<b>0.66</b>	<b>0.17</b>	<b>0.42</b>	<b>0.35</b>	<b>0.09</b>	<b>7.7</b>
pH	pH units		<b>6.71</b>	<b>6.59</b>	<b>7.68</b>	<b>6.9</b>	<b>6.82</b>	<b>7.02</b>	<b>7.05</b>	<b>4.64</b>	<b>6.54</b>	<b>6.48</b>	<b>6.45</b>	<b>6.45</b>	<b>6.63</b>	<b>5.56</b>	<b>7</b>	<b>6.89</b>	<b>6.68</b>	<b>6.95</b>	<b>6.96</b>	<b>4.74</b>
Oxidation Reduction Potential	mV		<b>-98.4</b>	<b>-106.5</b>	<b>-129</b>	<b>-62.8</b>	<b>-125.8</b>	<b>-91.2</b>	<b>-102.2</b>	<b>206.8</b>	<b>16.3</b>	<b>57.6</b>	<b>82.5</b>	<b>23.3</b>	<b>-96.4</b>	<b>-91.9</b>	<b>-100.1</b>	<b>-87.1</b>	<b>-105.8</b>	<b>-115</b>	<b>-91.9</b>	<b>200.4</b>
Turbidity	NTU		<b>9.92</b>	--	<b>2.88</b>	<b>1.81</b>	<b>1.65</b>	<b>2.73</b>	<b>4.72</b>	<b>1.78</b>	<b>7.17</b>	<b>5.03</b>	<b>67.1</b>	<b>2.81</b>	<b>7.4</b>	<b>1.46</b>	<b>2.19</b>	<b>2.47</b>	<b>1.55</b>	<b>9.65</b>	<b>4.88</b>	<b>4.88</b>

**Notes:**

- Bold** - detected
- Blue Shaded - Detected result or nondetected RL exceeded screening level
- \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- cVOCs - chlorinated volatile organic compounds
- U - Analyte not detected at or above Reporting Limit (RL) shown
- J - Result value estimated
- UU - Analyte not detected and the Reporting Limit (RL) is an estimate.
- D - Dissolved Fraction (filtered) sample result
- T - Total Fraction (unfiltered) sample result
- - indicates results not available
- mV - millivolts
- ppm -- parts per million
- uS/cm - microSiemens per centimeter
- deg C - degrees Celsius
- NTU - Nephelometric Turbidity Units
- mg/L - milligram per liter
- ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-15							AMW-16							
Sample Date			11/28/17	08/23/18	12/30/20	06/16/21	06/08/22	12/29/22	06/06/23	12/05/23	08/23/18	12/29/20	06/16/21	06/08/22	12/28/22	06/05/23	12/05/23
Sample Name			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-16-082318	AMW-16-122920	AMW-16-061621	AMW-16-20220608	AMW-16-20221228	AMW-16-20230605	AMW-16-20231205
Analyte	Unit	Site Cleanup Levels															
<b>cVOCs</b>																	
Tetrachloroethene (PCE)	ug/L	5	< 1 U	<b>1</b>	< 1.00 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 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	<b>4.6</b>	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 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	<b>1.4</b>	<b>6.1</b>	<b>1.63</b>	<b>1.74</b>	<b>0.893</b>	<b>1.01</b>	<b>0.694</b>	<b>1.24</b>	<b>2.8</b>	< 1.00 U	<b>0.558</b>	<b>0.515</b>	<b>0.522</b>	< 0.500 U	<b>0.513</b>
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride (VC)	ug/L	0.2	<b>4.1</b>	<b>2.8</b>	<b>6.06</b>	<b>6.01</b>	<b>4.04</b>	<b>5.02</b>	<b>3.27</b>	<b>4.53</b>	<b>1.9</b>	<b>1.40</b>	<b>0.833</b>	< 0.2 U	<b>1.19</b>	< 0.200 U	< 0.200 U
<b>Anions</b>																	
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																	
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																	
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																	
Temperature	deg C		<b>16.7</b>	<b>19.6</b>	<b>14.8</b>	<b>16.7</b>	<b>14.8</b>	<b>15.66</b>	<b>17.12</b>	<b>15.1</b>	<b>18.5</b>	<b>14.8</b>	<b>16.4</b>	<b>14.4</b>	<b>15.94</b>	<b>16.48</b>	<b>16.38</b>
Specific Conductance	uS/cm		<b>567.3</b>	<b>484.1</b>	<b>711</b>	<b>471.8</b>	<b>341.9</b>	<b>562.55</b>	<b>734.32</b>	<b>0.5</b>	<b>1613</b>	<b>1929</b>	<b>1146</b>	<b>996</b>	<b>1382.7</b>	<b>1046.9</b>	<b>0.46</b>
Dissolved Oxygen	mg/L		<b>0.32</b>	<b>0.11</b>	<b>0.44</b>	<b>0.23</b>	<b>0.44</b>	<b>0.32</b>	<b>0.08</b>	<b>8.01</b>	<b>0.19</b>	<b>0.28</b>	<b>0.16</b>	<b>0.41</b>	<b>0.14</b>	<b>0.08</b>	<b>7.4</b>
pH	pH units		<b>6.97</b>	<b>6.65</b>	<b>7.69</b>	<b>7</b>	<b>6.96</b>	<b>7.13</b>	<b>6.96</b>	<b>4.68</b>	<b>6.4</b>	<b>6.74</b>	<b>6.6</b>	<b>6.42</b>	<b>6.64</b>	<b>6.75</b>	<b>4.61</b>
Oxidation Reduction Potential	mV		<b>-128</b>	<b>-115.6</b>	<b>-131.6</b>	<b>-82.3</b>	<b>-125.9</b>	<b>-101.3</b>	<b>-106.9</b>	<b>206</b>	<b>8.1</b>	<b>-74.3</b>	<b>-75.6</b>	<b>-94.8</b>	<b>-90.6</b>	<b>-67.2</b>	<b>198.7</b>
Turbidity	NTU		<b>11.6</b>	--	<b>8.24</b>	<b>2.85</b>	<b>3.74</b>	<b>2.87</b>	<b>3.93</b>	<b>3.1</b>	<b>4.91</b>	<b>8.9</b>	<b>2.35</b>	<b>2.78</b>	<b>7.46</b>	<b>1.88</b>	<b>3.4</b>

**Notes:**

**Bold** - detected

**Blue Shaded** - Detected result or nondetected RL exceeded screening level

\*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.

cVOCs - chlorinated volatile organic compounds

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

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

D - Dissolved Fraction (filtered) sample result

T - Total Fraction (unfiltered) sample result

-- - indicates results not available

mV - millivolts

ppm -- parts per million

uS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-17						AMW-18							
Sample Date			08/23/18	12/30/20	06/17/21	06/08/22	12/29/22	06/05/23	12/05/23	08/23/18	12/29/20	06/16/21	06/08/22	12/28/22	06/06/23	12/05/23
Sample Name			AMW-17-082318	AMW-17-123020	AMW-17-061721	AMW-17-20220608	AMW-17-20221229	AMW-17-20230605	AMW-17-20231205	AMW-18-082318	AMW-18-122920	AMW-18-061621	AMW-18-20220608	AMW-18-20221228	AMW-18-20230606	AMW-18-20231205
Analyte	Unit	Site Cleanup Levels														
<b>cVOCs</b>																
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1.00 U	< 0.400 U	<b>1.60</b>	< 0.350 U	< 0.350 U	< 0.350 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	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 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	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	<b>0.848</b>	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride (VC)	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	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U
<b>Anions</b>																
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																
Temperature	deg C		<b>19.5</b>	<b>16.1</b>	<b>17</b>	<b>15.7</b>	<b>16.24</b>	<b>16.96</b>	<b>16.34</b>	<b>18.4</b>	<b>14.8</b>	<b>16.3</b>	<b>14.8</b>	<b>15.76</b>	<b>17.54</b>	<b>15.52</b>
Specific Conductance	uS/cm		<b>614</b>	<b>495.8</b>	<b>647</b>	<b>272.9</b>	<b>493.96</b>	<b>701.95</b>	<b>0.26</b>	<b>1098</b>	<b>1197</b>	<b>735</b>	<b>2122</b>	<b>706.78</b>	<b>1099.3</b>	<b>0.41</b>
Dissolved Oxygen	mg/L		<b>0.15</b>	<b>0.82</b>	<b>0.07</b>	<b>0.42</b>	<b>0.13</b>	<b>0.06</b>	<b>7.42</b>	<b>0.14</b>	<b>0.35</b>	<b>0.31</b>	<b>1.66</b>	<b>0.18</b>	<b>0.05</b>	<b>8.01</b>
pH	pH units		<b>6.31</b>	<b>7.1</b>	<b>6.39</b>	<b>6.53</b>	<b>6.73</b>	<b>6.69</b>	<b>4.58</b>	<b>6.59</b>	<b>6.98</b>	<b>6.68</b>	<b>6.53</b>	<b>6.87</b>	<b>6.78</b>	<b>4.73</b>
Oxidation Reduction Potential	mV		<b>-48.1</b>	<b>-42.1</b>	<b>-55.3</b>	<b>-82.4</b>	<b>-58</b>	<b>-34.2</b>	<b>210.6</b>	<b>-114.9</b>	<b>-101.3</b>	<b>-17.3</b>	<b>-114.5</b>	<b>-104.7</b>	<b>-81</b>	<b>207.4</b>
Turbidity	NTU		--	<b>3.5</b>	<b>12.3</b>	<b>1.87</b>	<b>2.14</b>	<b>0.48</b>	<b>2.15</b>	--	<b>3.53</b>	<b>2.29</b>	<b>1.95</b>	<b>3.76</b>	<b>2.55</b>	<b>3.82</b>

**Notes:**

- Bold** - detected
- Blue Shaded - Detected result or nondetected RL exceeded screening level
- \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- cVOCs - chlorinated volatile organic compounds
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**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-19								AMW-20						AMW-21			
Sample Date	Sample Name	Site Cleanup Levels	08/24/18	12/31/20	03/26/21	06/18/21	01/25/22	06/07/22	12/28/22	06/05/23	12/05/23	08/22/18	12/29/20	06/17/21	06/09/22	12/27/22	06/06/23	12/04/23	07/31/19	
Analyte	Unit		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-20-082218	AMW-20-122920	AMW-20-061721	AMW-20-20220609	AMW-20-20221227	AMW-20-20230606	AMW-20-20231204	AMW-21-073119	
<b>cVOCs</b>																				
Tetrachloroethene (PCE)	ug/L	5	12	2.39	1.03	2.06	29.2	13.9	43.2	28.1	53.0	< 1 U	4.10	4.52	7.87	7.84	13.6	12.9	97000	
Trichloroethene (TCE)	ug/L	5	3.6	3.91	0.609	1.22	34.2	12.1	23.6	27.8	47.6	< 1 U	< 0.500 U	0.637	2.39 J	3.52	3.05	4.84	100	
cis-1,2-Dichloroethene (cDCE)	ug/L	16	14	28.2	10.1	17.0	119	49.1	13.1	62.9	141	< 1 U	< 1.00 U	1.05	4.00	4.92	3.48	6.20	3.3	
trans-1,2-Dichloroethene (tDCE)	ug/L	160	3	3.91	2.84	--	--	6.23	14.1	11.2	11.4	< 1 U	< 1.00 U	--	--	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	
Vinyl Chloride (VC)	ug/L	0.2	1.1	4.18	1.90	3.43	11.4	6.74	14.3	5.66	8.09	0.32	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U	< 0.2 U	
<b>Anions</b>																				
Chloride	mg/L		--	--	--	--	--	207	106	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	15.2	< 2.00 U	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	< 1 U	< 2.40 U	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	21.9	34.3	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																				
Ethane	mg/L		--	--	--	--	--	0.0175	< 0.0151 U	< 0.0151 U	0.0211	--	--	--	--	--	--	< 0.0151 U	< 0.0151 U	--
Ethene	mg/L		--	--	--	--	--	< 0.0146 U	< 0.0146 U	< 0.0146 U	< 0.0146 U	--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--
Methane	mg/L		--	--	--	--	--	2.16	0.247	0.765	1.32	--	--	--	--	--	--	0.00681	0.0122	--
<b>Other</b>																				
Iron	ug/L		--	--	--	--	--	8,340	882	17,300	18,900	--	--	--	--	--	--	< 60.0 U	< 60.0 U	--
Alkalinity, Total	mg/L		--	--	--	--	--	219	285	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	5.00	4.80	6.60	6.22	--	--	--	--	--	--	9.65	5.72	--
<b>Field Parameters</b>																				
Temperature	deg C		19.6	14	13.1	16.1	12.5	14.4	12.68	14.11	15.51	17.3	12.3	15.7	14.1	13.34	17.04	15.77	18.5	
Specific Conductance	uS/cm		1087	1101	1298	1129	859	2360	703.15	811.18	821.42	501.8	814	801	669	885.06	601.84	668.22	521	
Dissolved Oxygen	mg/L		0.25	0.34	0.18	0.14	0.24	1.7	0.1	0.17	0.09	0.12	2.47	0.86	1.01	1.26	0.34	1.21	1.09	
pH	pH units		6.61	7.25	6.69	6.57	6.37	6.42	6.57	6.48	6.59	6.64	7.84	7.48	7.41	7.56	7.62	7.9	7.39	
Oxidation Reduction Potential	mV		36.3	-87.5	-28.2	-75.7	-341.9	-71.5	37.1	-3.8	-50.4	-39.4	-4.3	48.3	60.4	107.6	3.7	14.2	54.5	
Turbidity	NTU		2.85	0.57	21	28.3	17	3.71	28.81	16.4	2.62	3.09	7.73	1.96	1.42	0.86	4.85	0.53	0.02	

**Notes:**

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded screening level

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cVOCs - chlorinated volatile organic compounds

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mV - millivolts

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ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-22						AMW-23							
Sample Date	Sample Name	Site Cleanup Levels	04/01/19 AMW-22-040119	12/29/20 AMW-22-122920	06/16/21 AMW-22-061621	06/07/22 AMW-22-20220607	12/28/22 AMW-22-20221228	06/06/23 AMW-22-20230606	12/06/23 AMW-22-20231206	07/31/19 AMW-23-073119	12/30/20 AMW-23-123020	06/17/21 AMW-23-061721	06/08/22 AMW-23-20220608	12/28/22 AMW-23-20221228	06/06/23 AMW-23-20230606	12/06/23 MW-23-20231206
Analyte	Unit	Site Cleanup Levels														
<b>cVOCs</b>																
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	<b>1.2</b>	< 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	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 2.00 U	< 0.400 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	<b>2.7</b>	< 1.00 U	<b>0.762</b>	< 0.5 U	< 0.500 U	< 2.50 U	< 0.500 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 1.75 U	< 0.350 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride (VC)	ug/L	0.2	<b>5.3</b>	<b>1.19</b>	<b>1.36</b>	<b>0.985</b>	<b>0.974</b>	<b>0.784 J</b>	<b>0.262</b>	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U
<b>Anions</b>																
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																
Temperature	deg C		<b>11</b>	<b>11.2</b>	<b>15.5</b>	<b>14.3</b>	<b>11.28</b>	<b>14.97</b>	<b>13.38</b>	<b>18.4</b>	<b>13.7</b>	<b>17.1</b>	<b>15.8</b>	<b>14.77</b>	<b>18.08</b>	<b>16.56</b>
Specific Conductance	uS/cm		<b>612.5</b>	<b>421.3</b>	<b>554.7</b>	<b>978</b>	<b>360.86</b>	<b>559.17</b>	<b>0.07</b>	<b>1127</b>	<b>1229</b>	<b>1363</b>	<b>570</b>	<b>849.69</b>	<b>1036.8</b>	<b>0.19</b>
Dissolved Oxygen	mg/L		<b>0.97</b>	<b>0.63</b>	<b>0.18</b>	<b>1.73</b>	<b>1.27</b>	<b>2.19</b>	<b>10.24</b>	<b>0.12</b>	<b>0.23</b>	<b>0.09</b>	<b>0.42</b>	<b>0.22</b>	<b>0.14</b>	<b>9.55</b>
pH	pH units		<b>6.59</b>	<b>6.18</b>	<b>6.38</b>	<b>6.24</b>	<b>6.47</b>	<b>6.7</b>	<b>7.02</b>	<b>6.82</b>	<b>7.42</b>	<b>6.74</b>	<b>6.64</b>	<b>6.93</b>	<b>6.82</b>	<b>5.94</b>
Oxidation Reduction Potential	mV		<b>-33.1</b>	<b>63.3</b>	<b>10.9</b>	<b>-71.7</b>	<b>26</b>	<b>-46.9</b>	<b>161.3</b>	<b>-74.7</b>	<b>-60.9</b>	<b>-80</b>	<b>-56.5</b>	<b>-93.4</b>	<b>-97.9</b>	<b>207.6</b>
Turbidity	NTU		<b>135</b>	<b>11.7</b>	<b>4.45</b>	<b>12.5</b>	<b>14.3</b>	<b>5.81</b>	<b>22.5</b>	<b>5.11</b>	<b>16.4</b>	<b>117</b>	<b>44.3</b>	<b>5.05</b>	<b>150</b>	<b>69.6</b>

**Notes:**

- Bold** - detected
- Blue Shaded - Detected result or nondetected RL exceeded screening level
- \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- cVOCs - chlorinated volatile organic compounds
- 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.
- D - Dissolved Fraction (filtered) sample result
- T - Total Fraction (unfiltered) sample result
- "--" - 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 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-24								AMW-25								AMW-27	
Sample Date			04/01/19	12/30/20	06/16/21	01/25/22	06/08/22	12/29/22	06/05/23	12/04/23	01/25/21	03/26/21	06/16/21	01/25/22	06/08/22	12/27/22	06/07/23	12/06/23	06/06/23	12/04/23
Sample Name			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-25-012521	AMW-25-20210326	AMW-25-061621	AMW-25-012522	AMW-25-20220608	AMW-25-20221227	AMW-25-20230607	AMW-25-20231206	AMW-27-20230606	AMW-27-20231204
Analyte	Unit	Site Cleanup Levels																		
<b>cVOCs</b>																				
Tetrachloroethene (PCE)	ug/L	5	510	461	366	308	355 J	238 E	384 E	417	< 1.00 U	< 0.400 U	< 0.400 U	< 0.400 U	< 0.4 U	< 0.350 U	< 0.350 U	0.454	34.3	31.9
Trichloroethene (TCE)	ug/L	5	24	17.0	12.8	6.20	12.6	25.5	21.6	14.8	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.5 U	< 0.400 U	< 0.400 U	< 0.400 U	5.16	11.8
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	< 1.00 U	< 0.500 U	< 0.500 U	12.9	58.4	65.6	27.5	14.6	6.57	14.9
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1.00 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 7.00 U	< 1.00 U	< 0.500 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride (VC)	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	< 0.350 U	< 0.200 U	3.46	3.65	1.97	0.509	< 0.200 U	< 0.200 U	< 0.200 U
<b>Anions</b>																				
Chloride	mg/L		--	--	--	--	76.1	86.2	--	--	--	--	--	--	27.7	31.1	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	4.19	3.89	--	--	--	--	--	--	< 1 U	< 2.00 U	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	< 1 U	< 0.240 U	--	--	--	--	--	--	< 1 U	< 2.40 U	--	--	--	--
Sulfate	mg/L		--	--	--	--	22.0	23.8	--	--	--	--	--	--	131	281	--	--	--	--
<b>Dissolved Gases</b>																				
Ethane	mg/L		--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	--	--
Ethene	mg/L		--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	--	--
Methane	mg/L		--	--	--	--	< 0.00675 U	< 0.00675 U	--	--	--	--	--	--	0.00963	0.0484	--	--	--	--
<b>Other</b>																				
Iron	ug/L		--	--	--	--	< 100 U	< 250 U	--	--	--	--	--	--	102	< 250 U	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	134	138	--	--	--	--	--	--	347	334	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	1.39	1.33	--	--	--	--	--	--	1.53	1.63	--	--	--	--
<b>Field Parameters</b>																				
Temperature	deg C		15.4	14.1	15.6	13.6	14.8	13.87	14.55	15.4	8.4	11.6	15.9	11.9	12.6	14.81	16.5	16.55	16.76	16.14
Specific Conductance	uS/cm		2098	768	665	661	448.2	389.14	630.89	472.42	503.7	555	483.6	1099	506.7	1051.4	488.12	0.07	442.13	748.99
Dissolved Oxygen	mg/L		6.62	0.57	3.06	2.48	3.41	2.94	3.87	3.98	4.95	8.55	0.6	0.43	3.83	0.57	0.59	9.48	1.3	0.21
pH	pH units		7.25	6.26	6.58	6.37	6.15	6.42	6.38	6.39	7.84	7.68	7.72	7.38	7.46	7.86	7.62	7.06	7.6	7.72
Oxidation Reduction Potential	mV		49.4	51.8	66.7	-215.6	52.2	194.1	101.7	146.7	98.8	-6.2	43.5	29.9	78.3	124.6	53.8	168.6	46.1	4.5
Turbidity	NTU		5.05	20.3	8.54	8.86	5.17	2.26	0.27	1.54	4.86	21.1	35.2	4.96	109	7.91	6.84	3.64	2.19	0.44

**Notes:**

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded screening level

\*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.

cVOCs - chlorinated volatile organic compounds

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

J - Result value estimated

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

D - Dissolved Fraction (filtered) sample result

T - Total Fraction (unfiltered) sample result

"--" - indicates results not available

mV - millivolts

ppm -- parts per million

uS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			AMW-28		HC-MW-01							HC-MW-02											
Sample Date			06/06/23	12/05/23	11/27/17	08/27/18	12/31/20	03/26/21	06/17/21	01/25/22	06/07/23	12/05/23	11/27/17	08/27/18	12/31/20	03/26/21	06/17/21	01/25/22	06/07/22	12/29/22	06/05/23	12/05/23	
Sample Name			AMW-28-20230606	AMW-28-20231205	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-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	
Analyte	Unit	Site Cleanup Levels																					
<b>cVOCs</b>																							
Tetrachloroethene (PCE)	ug/L	5	<b>15.3</b>	<b>6.45</b>	<b>240</b>	<b>210</b>	<b>104</b>	<b>20.1</b>	<b>29.4</b>	<b>9.47</b>	< 0.350 U	< 0.350 U	<b>1100</b>	<b>990</b>	<b>377</b>	<b>230</b>	<b>139</b>	<b>169</b>	<b>102</b>	< 0.350 U	<b>73.6</b>	<b>87.7</b>	
Trichloroethene (TCE)	ug/L	5	<b>3.77</b>	<b>4.54</b>	<b>37</b>	<b>28</b>	<b>24.4</b>	<b>13.7</b>	<b>14.2</b>	<b>9.86</b>	< 0.400 U	< 0.400 U	<b>69</b>	<b>66</b>	<b>38.5</b>	<b>22.7</b>	<b>24.2</b>	<b>13.5</b>	<b>12.8</b>	< 0.400 U	<b>7.96</b>	<b>10.4</b>	
cis-1,2-Dichloroethene (cDCE)	ug/L	16	<b>6.40</b>	<b>6.55</b>	<b>47</b>	<b>55</b>	<b>114</b>	<b>53.4</b>	<b>79.5</b>	<b>28.1</b>	< 0.500 U	< 0.500 U	<b>28</b>	<b>28</b>	<b>15.1</b>	<b>8.14</b>	<b>9.20</b>	<b>7.13</b>	<b>7.41</b>	<b>1.06</b>	<b>4.86</b>	< 5.00 U	
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 0.350 U	< 0.350 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	--	--	< 0.350 U	< 0.350 U	< 1 U	< 1 U	< 1.00 U	< 0.500 U	--	--	< 0.5 U	< 0.350 U	< 0.350 U	< 3.50 U	
Vinyl Chloride (VC)	ug/L	0.2	< 0.200 U	< 0.200 U	<b>7.7</b>	<b>12</b>	<b>42.3</b>	<b>17.0</b>	<b>35.7</b>	<b>13.7</b>	< 0.200 U	< 0.200 U	<b>0.75</b>	<b>0.82</b>	<b>1.25</b>	<b>0.460</b>	<b>0.867</b>	<b>0.865</b>	<b>0.912</b>	<b>5.38</b>	< 0.200 U	< 2.00 U	
<b>Anions</b>																							
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>82.5</b>	<b>68.7</b>	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1 U	< 0.200 U	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1 U	< 0.240 U	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>29.4</b>	<b>31.9</b>	--	--
<b>Dissolved Gases</b>																							
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0151 U	< 0.0151 U	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>0.0195</b>	< 0.00675 U	--	--
<b>Other</b>																							
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>178</b>	< 250 U	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>204</b>	<b>193</b>	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>1.78</b>	<b>1.34</b>	--	--
<b>Field Parameters</b>																							
Temperature	deg C		<b>16.18</b>	<b>15.83</b>	<b>16.7</b>	<b>18.9</b>	<b>15.3</b>	<b>13.3</b>	<b>16.2</b>	<b>13.2</b>	<b>15.41</b>	<b>15.91</b>	<b>16.8</b>	<b>18.8</b>	<b>15.1</b>	<b>13.3</b>	<b>16.8</b>	<b>13.2</b>	<b>15</b>	<b>15.39</b>	<b>16.12</b>	<b>16.63</b>	
Specific Conductance	uS/cm		<b>492.17</b>	<b>0.44</b>	<b>626</b>	<b>732</b>	<b>1047</b>	<b>1292</b>	<b>1145</b>	<b>1347</b>	<b>1512.8</b>	<b>1824.3</b>	<b>407.9</b>	<b>497.2</b>	<b>454.1</b>	<b>508</b>	<b>506.2</b>	<b>654</b>	<b>1183</b>	<b>460.2</b>	<b>646.18</b>	<b>491.04</b>	
Dissolved Oxygen	mg/L		<b>0.26</b>	<b>8.53</b>	<b>0.12</b>	<b>0.23</b>	<b>0.33</b>	<b>0.18</b>	<b>0.15</b>	<b>0.2</b>	<b>0.1</b>	<b>0.04</b>	<b>0.11</b>	<b>0.23</b>	<b>2.45</b>	<b>0.13</b>	<b>0.1</b>	<b>0.22</b>	<b>1.59</b>	<b>0.12</b>	<b>0.06</b>	<b>0.11</b>	
pH	pH units		<b>7.65</b>	<b>4.41</b>	<b>6.64</b>	<b>6.34</b>	<b>7.29</b>	<b>6.74</b>	<b>6.43</b>	<b>6.61</b>	<b>6.7</b>	<b>6.76</b>	<b>7.34</b>	<b>6.97</b>	<b>7.02</b>	<b>7.42</b>	<b>7.3</b>	<b>7.32</b>	<b>7.26</b>	<b>7.51</b>	<b>7.41</b>	<b>7.42</b>	
Oxidation Reduction Potential	mV		<b>29.8</b>	<b>208.6</b>	<b>-12</b>	<b>54.2</b>	<b>-51.1</b>	<b>52.6</b>	<b>23.1</b>	<b>-26.1</b>	<b>-90.7</b>	<b>-106.3</b>	<b>19.1</b>	<b>67.4</b>	<b>68.9</b>	<b>16.1</b>	<b>34</b>	<b>-64.4</b>	<b>-84.9</b>	<b>-27.6</b>	<b>-2.1</b>	<b>-54.8</b>	
Turbidity	NTU		<b>13.7</b>	<b>6.84</b>	<b>5.6</b>	<b>2.32</b>	<b>9.73</b>	<b>4.97</b>	<b>0</b>	<b>2.73</b>	<b>19.4</b>	<b>3.61</b>	<b>2.06</b>	<b>0.47</b>	<b>30.5</b>	<b>19.8</b>	<b>19</b>	<b>12</b>	<b>18.9</b>	<b>80.8</b>	<b>11.6</b>	<b>4.29</b>	

**Notes:**

**Bold** - detected

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T - Total Fraction (unfiltered) sample result

"--" - 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 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			HC-MW-03 / AMW-29										HC-MW-04								
Sample Date	Sample Name	Site Cleanup Levels	11/27/17	08/24/18	12/30/20	01/25/21	03/26/21	06/18/21	01/25/22	06/09/22	12/28/22	06/06/23	12/05/23	11/27/17	08/24/18	12/29/20	06/16/21	06/07/22	12/28/22	06/06/23	12/05/23
Analyte	Unit	Site Cleanup Levels	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-3-012522	HCMW-3-20220609	HC-MW-3-20221228	AMW-29-20230606	AMW-29-20231205	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-4-20230606	HC-MW-4-20231205
<b>cVOCs</b>																					
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	1.59	0.641	< 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	< 0.400 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	< 0.500 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
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1 U	< 1.00 U	< 1.00 U	< 0.500 U	--	--	--	< 0.350 U	< 0.350 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 (VC)	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	< 0.200 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
<b>Anions</b>																					
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	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	46.0	49.5	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																					
Ethane	mg/L		--	--	--	--	--	--	--	< 0.0151 U	< 0.0151 U	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	1.41	< 0.00675 U	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																					
Iron	ug/L		--	--	--	--	--	--	--	6,270	1,530	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	149	117	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	1.19	1.46	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																					
Temperature	deg C		15.1	19	13.4	12.8	11.9	15.7	11.3	13.8	12.2	16.34	12.35	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	797.9	623.37	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	0.55	8.4	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	11.7	7.62	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	-152.8	157.9	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	5.32	13.4	10.3	1.5	10.3	0.01	2.94	18.75	3.88	1.3

**Notes:**

- Bold** - detected
- Blue Shaded - Detected result or nondetected RL exceeded screening level
- \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- cVOCs - chlorinated volatile organic compounds
- U - Analyte not detected at or above Reporting Limit (RL) shown
- J - Result value estimated
- UU - Analyte not detected and the Reporting Limit (RL) is an estimate.
- D - Dissolved Fraction (filtered) sample result
- T - Total Fraction (unfiltered) sample result
- - indicates results not available
- mV - millivolts
- ppm -- parts per million
- uS/cm - microSiemens per centimeter
- deg C - degrees Celsius
- NTU - Nephelometric Turbidity Units
- mg/L - milligram per liter
- ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			HC-MW-05										HC-MW-06								
Sample Date	Sample Name	Site Cleanup Levels	11/27/17	08/24/18	12/31/20	01/25/21	03/26/21	06/18/21	01/25/22	06/08/22	12/28/22	06/06/23	12/06/23	11/28/17	08/22/18	12/30/20	06/17/21	06/08/22	12/28/22	06/06/23	12/06/23
Analyte	Unit	Site Cleanup Levels	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-5-012522	HC-MW-5-20220608	HC-MW-5-20221228	HC-MW-5-20230606	HC-MW-5-20231206	HC-MW-6-112817	HC-MW-6-082218	HC-MW-6-123020	HC-MW-6-061721	HC-MW-6-20220608	HC-MW-6-20221228	HC-MW-6-20230606	HC-MW-6-20231206
<b>cVOCs</b>																					
Tetrachloroethene (PCE)	ug/L	5	<b>3400</b>	<b>5600</b>	<b>1,270</b>	<b>1,360</b>	<b>1,210</b>	<b>1,140</b>	<b>461</b>	<b>420</b>	<b>3.37</b>	<b>0.631</b>	<b>0.486</b>	< 1 U	< 1 U	< 1.00 U	< 0.400 U	<b>19.0</b>	< 0.350 U	< 0.350 U	< 0.350 U
Trichloroethene (TCE)	ug/L	5	<b>16</b>	< 50 U	<b>14.5</b>	<b>17.0</b>	<b>19.1</b>	<b>31.0</b>	<b>6.93</b>	<b>9.35</b>	< 0.400 U	< 0.400 U	<b>0.748</b>	< 1 U	< 1 U	< 0.500 U	< 0.500 U	<b>3.56</b>	<b>1.24</b>	<b>0.455</b>	<b>0.411</b>
cis-1,2-Dichloroethene (cDCE)	ug/L	16	<b>8</b>	< 50 U	<b>7.20</b>	<b>8.04</b>	<b>12.6</b>	<b>18.3</b>	<b>11.2</b>	<b>9.93</b>	<b>12.1</b>	< 0.500 U	<b>0.508</b>	<b>2.4</b>	<b>13</b>	< 1.00 U	< 0.500 U	<b>51.2</b>	<b>11.6</b>	<b>5.79</b>	<b>2.42</b>
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 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	< 1 U	<b>3.1</b>	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride (VC)	ug/L	0.2	<b>0.38</b>	< 10 U	< 0.200 U	< 0.200 U	< 0.350 U	< 0.200 U	< 4.00 U	< 0.2 U	<b>20.9</b>	<b>0.695</b>	< 0.200 U	<b>0.85</b>	<b>3.5</b>	< 0.200 U	< 0.200 U	< 0.2 U	<b>9.02</b>	<b>4.03</b>	<b>1.55</b>
<b>Anions</b>																					
Chloride	mg/L		--	--	--	--	--	--	--	<b>127</b>	<b>109 J</b>	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	<b>1.19</b>	< 20.0 U	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	< 1 U	< 24.0 U	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	<b>40.5</b>	< 120 U	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																					
Ethane	mg/L		--	--	--	--	--	--	--	< 0.0151 U	<b>0.0166</b>	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	< 0.0146 U	< 0.0146 U	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	< 0.00675 U	<b>0.979</b>	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																					
Iron	ug/L		--	--	--	--	--	--	--	< 100 U	<b>266,000</b>	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	<b>124</b>	<b>624</b>	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	<b>1.07</b>	<b>610</b>	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																					
Temperature	deg C		<b>16.9</b>	<b>20</b>	<b>14.2</b>	<b>12.6</b>	<b>12.7</b>	<b>15.6</b>	<b>12.7</b>	<b>15</b>	<b>13.09</b>	<b>16.45</b>	<b>15.34</b>	<b>15</b>	<b>17.7</b>	<b>13.1</b>	<b>16.4</b>	<b>13.2</b>	<b>9.75</b>	<b>15.04</b>	<b>15.63</b>
Specific Conductance	uS/cm		<b>307.2</b>	<b>301.4</b>	<b>402.3</b>	<b>358.6</b>	<b>414</b>	<b>432</b>	<b>723</b>	<b>589.5</b>	<b>1797.2</b>	<b>1039.4</b>	<b>0.13</b>	<b>550.9</b>	<b>530.2</b>	<b>754</b>	<b>674</b>	<b>437.6</b>	<b>486.1</b>	<b>664.02</b>	<b>392.67</b>
Dissolved Oxygen	mg/L		<b>1.17</b>	<b>1.14</b>	<b>1.63</b>	<b>1.03</b>	<b>1.25</b>	<b>0.41</b>	<b>1.31</b>	<b>2.88</b>	<b>0.13</b>	<b>0.29</b>	<b>9.68</b>	<b>0.16</b>	<b>0.39</b>	<b>1.56</b>	<b>0.66</b>	<b>0.39</b>	<b>0.16</b>	<b>0.08</b>	<b>0.37</b>
pH	pH units		<b>6.47</b>	<b>6.4</b>	<b>6.61</b>	<b>6.81</b>	<b>6.97</b>	<b>6.52</b>	<b>6.4</b>	<b>6.22</b>	<b>6.93</b>	<b>7.74</b>	<b>7.44</b>	<b>6.71</b>	<b>6.44</b>	<b>6.31</b>	<b>6.46</b>	<b>6.66</b>	<b>7.1</b>	<b>7.23</b>	<b>7.32</b>
Oxidation Reduction Potential	mV		<b>101.4</b>	<b>49.8</b>	<b>64.9</b>	<b>57.5</b>	<b>-22.1</b>	<b>-2.2</b>	<b>-256.9</b>	<b>62.6</b>	<b>-132.4</b>	<b>-158.4</b>	<b>171.8</b>	<b>37.3</b>	<b>56.6</b>	<b>71.4</b>	<b>79.6</b>	<b>25.4</b>	<b>-12.5</b>	<b>-35.4</b>	<b>28.8</b>
Turbidity	NTU		<b>6.86</b>	<b>1.7</b>	<b>10.3</b>	<b>12.2</b>	<b>8.71</b>	<b>0</b>	<b>5.06</b>	<b>6.7</b>	<b>33.28</b>	<b>57.3</b>	<b>75.8</b>	<b>10.9</b>	<b>5.8</b>	<b>147</b>	<b>28.2</b>	<b>24.1</b>	<b>2.93</b>	<b>0.44</b>	<b>21.6</b>

**Notes:**  
**Bold** - detected  
 Blue Shaded - Detected result or nondetected RL exceeded screening level  
 \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.  
 cVOCs - chlorinated volatile organic compounds  
 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.  
 D - Dissolved Fraction (filtered) sample result  
 T - Total Fraction (unfiltered) sample result  
 "--" - indicates results not available  
 mV - millivolts  
 ppm -- parts per million  
 uS/cm - microSiemens per centimeter  
 deg C - degrees Celsius  
 NTU - Nephelometric Turbidity Units  
 mg/L - milligram per liter  
 ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			HC-MW-07							MW-01			MW-02		MW-03				
Sample Date			11/27/17	08/22/18	12/29/20	06/16/21	06/08/22	12/29/22	06/06/23	12/06/23	11/29/17	08/24/18	12/05/18	11/28/17	08/21/18	11/28/17	08/22/18	11/29/17	08/22/18
Sample Name			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	MW-4-112917	MW-4-082218
Analyte	Unit	Site Cleanup Levels																	
<b>cVOCs</b>																			
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	<b>1.20</b>	< 0.4 U	< 0.350 U	< 0.350 U	< 0.350 U	<b>3.2</b>	<b>1.1</b>	<b>3.4</b>	< 1 U	< 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	<b>4.1</b>	<b>1.6</b>	<b>4.2</b>	< 1 U	< 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	<b>1.04</b>	<b>0.573</b>	< 0.500 U	< 0.500 U	<b>16</b>	<b>19</b>	<b>25.9</b>	< 1 U	< 1 U	< 1 U	<b>2.3</b>	< 1 U	
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 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	< 1 U	
Vinyl Chloride (VC)	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	<b>2</b>	<b>5.3</b>	<b>8.26</b>	< 0.2 U	< 0.2 U	<b>0.26</b>	<b>0.84</b>	< 0.2 U	
<b>Anions</b>																			
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>Dissolved Gases</b>																			
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>Other</b>																			
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>Field Parameters</b>																			
Temperature	deg C		<b>15.1</b>	<b>17.7</b>	<b>13.6</b>	<b>15.6</b>	<b>13.4</b>	<b>12.01</b>	<b>14.01</b>	<b>15.09</b>	<b>14.3</b>	<b>16.6</b>	--	<b>15.3</b>	<b>17.9</b>	<b>15.6</b>	<b>17.1</b>	<b>15.8</b>	
Specific Conductance	uS/cm		<b>643</b>	<b>627</b>	<b>651</b>	<b>481.1</b>	<b>438</b>	<b>334.03</b>	<b>465.35</b>	<b>186.53</b>	<b>423.2</b>	<b>514.7</b>	--	<b>340.9</b>	<b>420.4</b>	<b>272.5</b>	<b>375.2</b>	<b>499.8</b>	
Dissolved Oxygen	mg/L		<b>0.12</b>	<b>0.12</b>	<b>0.26</b>	<b>0.24</b>	<b>0.44</b>	<b>0.05</b>	<b>0.46</b>	<b>2.65</b>	<b>0.44</b>	<b>0.36</b>	--	<b>0.13</b>	<b>0.13</b>	<b>1.27</b>	<b>0.22</b>	<b>0.08</b>	
pH	pH units		<b>6.45</b>	<b>6.3</b>	<b>6.38</b>	<b>6.76</b>	<b>6.32</b>	<b>6.6</b>	<b>6.66</b>	<b>6.76</b>	<b>6.38</b>	<b>6.55</b>	--	<b>6.68</b>	<b>6.55</b>	<b>6.65</b>	<b>6.24</b>	<b>6.69</b>	
Oxidation Reduction Potential	mV		<b>-44.8</b>	<b>-65.4</b>	<b>44</b>	<b>-79.2</b>	<b>-16.3</b>	<b>-25</b>	<b>-35</b>	<b>82.3</b>	<b>46.3</b>	<b>24.5</b>	--	<b>-28.3</b>	<b>-15.7</b>	<b>13.7</b>	<b>39.5</b>	<b>-57.2</b>	
Turbidity	NTU		<b>21.2</b>	<b>7.34</b>	<b>47</b>	<b>2.35</b>	<b>17.8</b>	<b>41.66</b>	<b>18.9</b>	<b>46.7</b>	<b>45.7</b>	<b>7</b>	--	<b>13.5</b>	<b>12.7</b>	<b>5.26</b>	<b>2.26</b>	<b>12.3</b>	

**Notes:**

**Bold** - detected

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\*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.

cVOCs - chlorinated volatile organic compounds

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

J - Result value estimated

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

D - Dissolved Fraction (filtered) sample result

T - Total Fraction (unfiltered) sample result

"--" - 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 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			MW-05							MW-06								
Sample Date			11/28/17	08/22/18	12/29/20	06/17/21	06/08/22	12/27/22	06/06/23	12/04/23	11/28/17	08/22/18	12/29/20	06/17/21	06/07/22	12/28/22	06/07/23	12/05/23
Sample Name			MW-5-112917	MW-05-082218	MW-5-122920	MW-5-061721	MW-5-20220608	MW-5-20221227	MW-5-20230606	MW-5-20231204	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 Levels																
<b>cVOCs</b>																		
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1.00 U	<b>0.909</b>	<b>0.409</b>	<b>0.411</b>	<b>0.630</b>	<b>1.20</b>	< 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	<b>0.408</b>	<b>0.662</b>	< 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	<b>0.581</b>	< 0.500 U	<b>2.98</b>	<b>2.27</b>	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 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 (VC)	ug/L	0.2	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	<b>0.655</b>	<b>0.596</b>	< 0.2 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.200 U	< 0.200 U
<b>Anions</b>																		
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>																		
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>																		
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>																		
Temperature	deg C		<b>15.8</b>	<b>19.5</b>	<b>11.7</b>	<b>15.7</b>	<b>14.1</b>	<b>13.77</b>	<b>17.07</b>	<b>16.04</b>	<b>15.7</b>	<b>19.3</b>	<b>15.4</b>	<b>16.4</b>	<b>17</b>	<b>13.95</b>	<b>16.49</b>	<b>16.43</b>
Specific Conductance	uS/cm		<b>304.9</b>	<b>460.7</b>	<b>336</b>	<b>321.2</b>	<b>520</b>	<b>381.72</b>	<b>456.53</b>	<b>379.58</b>	<b>923</b>	<b>883</b>	<b>1032</b>	<b>864</b>	<b>803</b>	<b>965.31</b>	<b>1154.3</b>	<b>0.27</b>
Dissolved Oxygen	mg/L		<b>1.93</b>	<b>1.42</b>	<b>2.03</b>	<b>1.06</b>	<b>2.43</b>	<b>6.5</b>	<b>1.3</b>	<b>5.21</b>	<b>0.46</b>	<b>0.11</b>	<b>0.18</b>	<b>0.18</b>	<b>3.6</b>	<b>0.18</b>	<b>0.04</b>	<b>9.62</b>
pH	pH units		<b>6.53</b>	<b>6.16</b>	<b>6.67</b>	<b>6.57</b>	<b>6.6</b>	<b>6.97</b>	<b>6.72</b>	<b>7.3</b>	<b>6.62</b>	<b>6.68</b>	<b>6.87</b>	<b>6.59</b>	<b>6.7</b>	<b>6.8</b>	<b>6.78</b>	<b>4.37</b>
Oxidation Reduction Potential	mV		<b>17.6</b>	<b>101.7</b>	<b>-0.3</b>	<b>35.3</b>	<b>-10.8</b>	<b>98.2</b>	<b>38.8</b>	<b>-3.8</b>	<b>-110.6</b>	<b>-103.4</b>	<b>-106.1</b>	<b>-32.6</b>	<b>-66.2</b>	<b>-121.4</b>	<b>-92.6</b>	<b>201.3</b>
Turbidity	NTU		<b>2.32</b>	<b>15.4</b>	<b>7.87</b>	<b>5</b>	<b>4</b>	<b>30.85</b>	<b>5.58</b>	<b>4.66</b>	<b>144</b>	<b>5.75</b>	<b>8.94</b>	<b>12.4</b>	<b>10.3</b>	<b>8.93</b>	<b>1.34</b>	<b>10.1</b>

**Notes:**

**Bold** - detected

**Blue Shaded** - Detected result or nondetected RL exceeded screening level

\*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.

cVOCs - chlorinated volatile organic compounds

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

J - Result value estimated

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

D - Dissolved Fraction (filtered) sample result

T - Total Fraction (unfiltered) sample result

-- - indicates results not available

mV - millivolts

ppm -- parts per million

uS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			MW-07							MW-08			
Sample Date	11/28/17	08/22/18	12/30/20	06/17/21	06/08/22	12/29/22	06/07/23	12/05/23	11/29/17	08/22/18	12/05/18		
Sample Name	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-8-20171129	MW-8-082218	GW-120518-NT-MW-8		
Analyte	Unit	Site Cleanup Levels											
<b>cVOCs</b>													
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	< 1 U	< 1 U	< 2 U
Trichloroethene (TCE)	ug/L	5	<b>1.2</b>	<b>2.2</b>	<b>1.05</b>	< 0.500 U	<b>0.682</b>	< 0.400 U	<b>0.677</b>	< 0.400 U	< 1 U	< 1 U	< 0.8 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	<b>15</b>	<b>14</b>	<b>16.2</b>	<b>12.7</b>	<b>13.5</b>	<b>1.75</b>	<b>12.1</b>	<b>4.00</b>	< 1 U	<b>1.2</b>	< 2 U
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U	< 1 U	< 1 U	< 2 U
Vinyl Chloride (VC)	ug/L	0.2	<b>2.5</b>	<b>2.1</b>	<b>2.62</b>	< 0.200 U	<b>2.69</b>	<b>0.810</b>	<b>1.93</b>	< 0.200 U	<b>0.21</b>	< 0.2 U	<b>0.307</b>
<b>Anions</b>													
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>													
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>													
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>													
Temperature	deg C		<b>16.8</b>	<b>18.8</b>	<b>14.7</b>	<b>17.8</b>	<b>16</b>	<b>15.14</b>	<b>16.48</b>	<b>15.09</b>	<b>14.8</b>	<b>17</b>	--
Specific Conductance	uS/cm		<b>404.9</b>	<b>435.3</b>	<b>456.1</b>	<b>739</b>	<b>208.8</b>	<b>530.71</b>	<b>451.2</b>	<b>0.61</b>	<b>480.3</b>	<b>398.8</b>	--
Dissolved Oxygen	mg/L		<b>0.42</b>	<b>0.18</b>	<b>0.5</b>	<b>2.32</b>	<b>0.39</b>	<b>0.13</b>	<b>0.04</b>	<b>8.05</b>	<b>0.41</b>	<b>0.09</b>	--
pH	pH units		<b>6.57</b>	<b>6.36</b>	<b>7.26</b>	<b>6.64</b>	<b>6.62</b>	<b>6.81</b>	<b>6.79</b>	<b>4.57</b>	<b>6.3</b>	<b>6.41</b>	--
Oxidation Reduction Potential	mV		<b>-74</b>	<b>72.2</b>	<b>-80.4</b>	<b>-21.5</b>	<b>-63.3</b>	<b>-76.1</b>	<b>-24.3</b>	<b>208.6</b>	<b>28.5</b>	<b>-54.6</b>	--
Turbidity	NTU		<b>14</b>	<b>1.1</b>	<b>16.4</b>	<b>13.4</b>	<b>12.2</b>	<b>17.56</b>	<b>4.34</b>	<b>9.39</b>	<b>13.7</b>	<b>5.53</b>	--

**Notes:**

- Bold** - detected
- Blue Shaded - Detected result or nondetected RL exceeded screening level
- \*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.
- cVOCs - chlorinated volatile organic compounds
- U - Analyte not detected at or above Reporting Limit (RL) shown
- J - Result value estimated
- UU - Analyte not detected and the Reporting Limit (RL) is an estimate.
- D - Dissolved Fraction (filtered) sample result
- T - Total Fraction (unfiltered) sample result
- "--" - indicates results not available
- mV - millivolts
- ppm -- parts per million
- uS/cm - microSiemens per centimeter
- deg C - degrees Celsius
- NTU - Nephelometric Turbidity Units
- mg/L - milligram per liter
- ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			MW-09			MW-10							
Sample Date			11/29/17	08/27/18	12/05/18	11/28/17	08/23/18	12/29/20	06/16/21	06/07/22	12/28/22	06/05/23	12/05/23
Sample Name			MW-9-20171129	MW-09-082718	GW-120518-NT-MW-9	MW-10-112817	AMW-10-082318	MW-10-122920	MW-10-061621	MW-10-20220607	MW-10-20221228	MW-10-20230605	MW-10-20231205
Analyte	Unit	Site Cleanup Levels											
<b>cVOCs</b>													
Tetrachloroethene (PCE)	ug/L	5	<b>69</b>	<b>110</b>	<b>29.4</b>	< 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	<b>45</b>	<b>43</b>	<b>25.6</b>	< 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	<b>54</b>	<b>86</b>	<b>75.4</b>	< 1 U	< 1 U	< 1.00 U	< 0.500 U	< 0.5 U	< 0.500 U	< 0.500 U	< 0.500 U
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1.00 U	--	< 0.5 U	< 0.350 U	< 0.350 U	< 0.350 U
Vinyl Chloride (VC)	ug/L	0.2	<b>11</b>	<b>7.3</b>	<b>6.59</b>	< 0.2 U	<b>0.34</b>	<b>1.30</b>	< 0.200 U	< 0.2 U	<b>0.334</b>	< 0.200 U	< 0.200 U
<b>Anions</b>													
Chloride	mg/L		--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>													
Ethane	mg/L		--	--	--	--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--	--	--	--
<b>Other</b>													
Iron	ug/L		--	--	--	--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--	--	--	--
<b>Field Parameters</b>													
Temperature	deg C		<b>14.1</b>	<b>14.9</b>	--	<b>16.3</b>	<b>16.8</b>	<b>15.2</b>	<b>16.8</b>	<b>15.8</b>	<b>15.85</b>	<b>16.57</b>	<b>15.83</b>
Specific Conductance	uS/cm		<b>455.3</b>	<b>520.8</b>	--	<b>851</b>	<b>2156</b>	<b>1441</b>	<b>1210</b>	<b>1655</b>	<b>1038.8</b>	<b>1374.3</b>	<b>0.29</b>
Dissolved Oxygen	mg/L		<b>1.02</b>	<b>0.3</b>	--	<b>0.49</b>	<b>0.15</b>	<b>0.18</b>	<b>0.2</b>	<b>4.3</b>	<b>0.17</b>	<b>0.18</b>	<b>8.16</b>
pH	pH units		<b>6.36</b>	<b>6.48</b>	--	<b>6.38</b>	<b>6.46</b>	<b>6.78</b>	<b>6.67</b>	<b>6.68</b>	<b>6.7</b>	<b>6.76</b>	<b>4.61</b>
Oxidation Reduction Potential	mV		<b>86.6</b>	<b>12.1</b>	--	<b>-24.6</b>	<b>-109.6</b>	<b>-75.4</b>	<b>-101.8</b>	<b>-56.3</b>	<b>-103.1</b>	<b>-73.1</b>	<b>199</b>
Turbidity	NTU		<b>6.18</b>	<b>5.08</b>	--	<b>9.1</b>	--	<b>9.56</b>	<b>8.22</b>	<b>10.1</b>	<b>2.95</b>	<b>1.68</b>	<b>2.21</b>

**Notes:**

**Bold** - detected

**Blue Shaded** - Detected result or nondetected RL exceeded screening level

\*MTCA A/B Cleanup Levels screens against Method A first, and if no MTCA A value exists, screens against Method B.

cVOCs - chlorinated volatile organic compounds

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

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T - Total Fraction (unfiltered) sample result

"--" - indicates results not available

mV - millivolts

ppm -- parts per million

uS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

**Table 3. Groundwater cVOCs and MNA Analytical Data**

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

DRAFT

Sample Location			MW-11			MW-12		MW-13		
Sample Date			11/29/17	08/22/18	12/04/18	11/28/17	08/22/18	11/29/17	08/27/18	12/04/18
Sample Name			MW-11-112917	MW-11-082218	GW-120418-NT-MW-11	MW-12-20171129	MW-12-082218	MW-13-112917	MW-13-082718	GW-120418-NT-MW-13
Analyte	Unit	Site Cleanup Levels								
<b>cVOCs</b>										
Tetrachloroethene (PCE)	ug/L	5	<b>1100</b>	<b>1200</b>	<b>1400</b>	<b>1.7</b>	< 1 U	<b>13</b>	<b>7.1</b>	<b>1.7</b>
Trichloroethene (TCE)	ug/L	5	<b>31</b>	<b>38</b>	<b>45.8</b>	<b>1.1</b>	< 1 U	<b>5.7</b>	<b>3.5</b>	< 0.4 U
cis-1,2-Dichloroethene (cDCE)	ug/L	16	<b>18</b>	<b>16</b>	<b>19.7</b>	<b>3.9</b>	<b>5.1</b>	<b>48</b>	<b>65</b>	<b>36.4</b>
trans-1,2-Dichloroethene (tDCE)	ug/L	160	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl Chloride (VC)	ug/L	0.2	<b>0.62</b>	<b>0.43</b>	<b>0.401</b>	< 0.2 U	< 0.2 U	<b>19</b>	<b>30</b>	<b>29.6</b>
<b>Anions</b>										
Chloride	mg/L		--	--	--	--	--	--	--	--
Nitrate as Nitrogen	mg/L		--	--	--	--	--	--	--	--
Nitrite as Nitrogen	mg/L		--	--	--	--	--	--	--	--
Sulfate	mg/L		--	--	--	--	--	--	--	--
<b>Dissolved Gases</b>										
Ethane	mg/L		--	--	--	--	--	--	--	--
Ethene	mg/L		--	--	--	--	--	--	--	--
Methane	mg/L		--	--	--	--	--	--	--	--
<b>Other</b>										
Iron	ug/L		--	--	--	--	--	--	--	--
Alkalinity, Total	mg/L		--	--	--	--	--	--	--	--
Total Organic Carbon	mg/L		--	--	--	--	--	--	--	--
<b>Field Parameters</b>										
Temperature	deg C		<b>16</b>	<b>17.8</b>	--	<b>15.5</b>	<b>17.1</b>	<b>15.6</b>	<b>18</b>	--
Specific Conductance	uS/cm		<b>389.8</b>	<b>452.5</b>	--	<b>403.5</b>	<b>356</b>	<b>612</b>	<b>781</b>	--
Dissolved Oxygen	mg/L		<b>0.24</b>	<b>0.17</b>	--	<b>0.46</b>	<b>0.07</b>	<b>0.12</b>	<b>0.22</b>	--
pH	pH units		<b>6.99</b>	<b>6.52</b>	--	<b>0.31</b>	<b>6.3</b>	<b>6.63</b>	<b>6.53</b>	--
Oxidation Reduction Potential	mV		<b>81.9</b>	<b>90.4</b>	--	<b>15.9</b>	<b>-64.6</b>	<b>10.9</b>	<b>-3.2</b>	--
Turbidity	NTU		<b>18.8</b>	<b>2.96</b>	--	<b>13.8</b>	<b>9.71</b>	<b>40.5</b>	<b>28.2</b>	--

**Notes:**

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ppm -- parts per million

uS/cm - microSiemens per centimeter

deg C - degrees Celsius

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

ug/L - microgram per liter

**Table 4. Soil Gas Analytical Results**

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

DRAFT

Sample Location			ASG-01				ASG-02			
Sample Date			06/09/2022	12/29/2022	06/07/2023	12/06/2023	06/09/2022	12/29/2022	06/07/2023	12/06/2023
Sample Name			ASG-01-20220609	ASG-1-20221229	ASG-01-20230607	ASG-01-20231206	ASG-02-20220609	ASG-2-20221229	ASG-02-20230607	ASG-02-20231206
Analyte	Unit	MBHA Maddux Soil Gas CULs <sup>1</sup>								
<b>Total Petroleum Hydrocarbons</b>										
Total Petroleum Hydrocarbons <sup>2</sup>	ug/m3	7500*	--	--	--	--	--	--	--	--
<b>Benzene, Toluene, Ethylbenzene, Total Xylenes, and Naphthalene</b>										
Benzene	ug/m3	55	--	--	--	--	--	--	--	--
Toluene	ug/m3	380000	--	--	--	--	--	--	--	--
Ethylbenzene	ug/m3	75000	--	--	--	--	--	--	--	--
Total Xylenes	ug/m3	48	--	--	--	--	--	--	--	--
Naphthalene	ug/m3	13	--	--	--	--	--	--	--	--
<b>Chlorinated Volatile Organic Compounds</b>										
1,1-Dichloroethene	ug/m3	15000	< 1.9 U	< 0.0868 U	< 0.159 U	< 0.159 U	< 3.4 U	< 0.0868 U	< 0.159 U	< 0.159 U
cis-1,2-Dichloroethene (cDCE)	ug/m3	3100	<b>12</b>	<b>47.5</b>	<b>4.83</b>	<b>3.02</b>	< 3.4 U	<b>9.32</b>	<b>4.87</b>	<b>5.10</b>
Tetrachloroethene (PCE)	ug/m3	1600	< 33 U	<b>30.5</b>	<b>47.7</b>	<b>474</b>	< 58 U	<b>9.14</b>	<b>55.4</b>	<b>77.9</b>
trans-1,2-Dichloroethene	ug/m3	3100	< 1.9 U	<b>2.66</b>	< 2.38 U	< 2.38 U	< 3.4 U	<b>0.681</b>	< 2.38 U	< 2.38 U
Trichloroethene (TCE)	ug/m3	55	<b>2.2</b>	<b>8.97</b>	<b>2.13</b>	<b>25.8</b>	< 0.92 U	<b>2.17</b>	<b>6.57</b>	<b>9.60</b>
Vinyl Chloride	ug/m3	48	< 1.2 U	< 0.791 U	< 0.102 U	< 0.102 U	< 2.2 U	< 0.791 U	< 0.102 U	< 0.102 U
<b>Other</b>										
Helium	%	--	< 0.6 U	< 0.300 U	<b>1.20</b>	< 0.400 U	< 0.6 U	< 0.400 U	< 0.400 U	<b>0.483</b>

**Notes:**

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded screening level.

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

J - Result value estimated

"--" - Indicates results not available

µg/m<sup>3</sup> - micrograms per cubic meter

<sup>1</sup>The listed screening level is 5x Model Toxics Control Act (MTCA) Method B Subslab Screening Level as prescribed in the Compliance Monitoring Plan.

<sup>2</sup>Total Petroleum Hydrocarbons calculated as sum of APH, BTEX, Naphthalene as per Ecology Guidance for Evaluating Vapor Intrusion Appendix E. EDB, EDC, and MTBE are only included in the sum if there were present in soil or water at the site.

ND - 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

**Table 4. Soil Gas Analytical Results**

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

DRAFT

Sample Location			ASG-03				ASG-04			
Sample Date			06/09/2022	12/29/2022	06/07/2023	12/06/2023	06/09/2022	12/29/2022	06/07/2023	12/06/2023
Sample Name			ASG-03-20220609	ASG-3-20221229	ASG-03-20230607	ASG-03-20231206	ASG-04-20220609	ASG-4-20221229	ASG-04-20230607	ASG-04-20231206
Analyte	Unit	MBHA Maddux Soil Gas CULs <sup>1</sup>								
<b>Total Petroleum Hydrocarbons</b>										
Total Petroleum Hydrocarbons <sup>2</sup>	ug/m3	7500*	--	--	--	--	<b>544.4</b>	<b>1411.9</b>	<b>312</b>	<b>268</b>
<b>Benzene, Toluene, Ethylbenzene, Total Xylenes, and Naphthalene</b>										
Benzene	ug/m3	55	--	--	--	--	<b>3.8</b>	< 1.28 U	<b>0.761</b>	<b>1.51</b>
Toluene	ug/m3	380000	--	--	--	--	< 110 U	<b>18.1</b>	<b>18.3</b>	<b>15.8</b>
Ethylbenzene	ug/m3	75000	--	--	--	--	<b>4.1</b>	< 7.82 U	<b>5.48</b>	<b>4.45</b>
Total Xylenes	ug/m3	48	--	--	--	--	<b>20.7</b>	<b>17.7</b>	<b>18.9</b>	<b>20.5</b>
Naphthalene	ug/m3	13	--	--	--	--	< 1.6 U	<b>0.946</b>	<b>1.44</b>	<b>4.40</b>
<b>Chlorinated Volatile Organic Compounds</b>										
1,1-Dichloroethene	ug/m3	15000	< 3.7 U	< 0.0868 U	< 0.159 U	< 0.159 U	< 2.4 U	< 0.0868 U	< 0.159 U	< 0.159 U
cis-1,2-Dichloroethene (cDCE)	ug/m3	3100	<b>21</b>	<b>36.2</b>	<b>27.6</b>	<b>3.06</b>	< 2.4 U	<b>2.94</b>	<b>1.22</b>	<b>1.35</b>
Tetrachloroethene (PCE)	ug/m3	1600	< 64 U	<b>46.5</b>	<b>344</b>	<b>1,220</b>	< 41 U	<b>166</b>	<b>99.1</b>	<b>6.79</b>
trans-1,2-Dichloroethene	ug/m3	3100	< 3.7 U	<b>1.63</b>	< 2.38 U	< 2.38 U	< 2.4 U	<b>0.617</b>	< 2.38 U	< 2.38 U
Trichloroethene (TCE)	ug/m3	55	<b>2.1</b>	<b>6.58</b>	<b>36.5</b>	<b>8.36</b>	< 0.64 U	<b>18.1</b>	<b>4.71</b>	<b>0.395</b>
Vinyl Chloride	ug/m3	48	< 2.4 U	< 0.791 U	< 0.102 U	< 0.102 U	< 1.5 U	< 0.791 U	< 0.102 U	< 0.102 U
<b>Other</b>										
Helium	%	--	< 0.6 U	< 0.300 U	< 0.200 U	< 0.300 U	< 0.6 U	< 0.400 U	< 0.400 U	< 0.300 U

**Notes:**

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded screening level.

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

J - Result value estimated

"--" - Indicates results not available

µg/m<sup>3</sup> - micrograms per cubic meter

<sup>1</sup>The listed screening level is 5x Model Toxics Control Act (MTCA) Method B Subslab Screening Level as prescribed in the Compliance Monitoring Plan.

<sup>2</sup>Total Petroleum Hydrocarbons calculated as sum of APH, BTEX, Naphthalene as per Ecology Guidance for Evaluating Vapor Intrusion Appendix E. EDB, EDC, and MTBE are only included in the sum if there were present in soil or water at the site.

ND - 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

**Table 4. Soil Gas Analytical Results**

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

DRAFT

Sample Location			ASG-05			
Sample Date			06/09/2022	12/29/2022	06/07/2023	12/06/2023
Sample Name			ASG-05-20220609	ASG-5-20221229	ASG-05-20230607	ASG-05-20231206
Analyte	Unit	MBHA Maddux Soil Gas CULs <sup>1</sup>				
<b>Total Petroleum Hydrocarbons</b>						
Total Petroleum Hydrocarbons <sup>2</sup>	ug/m3	7500*	<b>670</b>	<b>528.59</b>	<b>193</b>	<b>158</b>
<b>Benzene, Toluene, Ethylbenzene, Total Xylenes, and Naphthalene</b>						
Benzene	ug/m3	55	< 2.8 U	< 1.28 U	<b>0.822</b>	<b>0.608</b>
Toluene	ug/m3	380000	< 170 U	<b>15.0</b>	<b>13.8</b>	<b>11.9</b>
Ethylbenzene	ug/m3	75000	<b>4.7</b>	< 7.82 U	<b>7.13</b>	<b>2.93</b>
Total Xylenes	ug/m3	48	<b>22.9</b>	<b>14.03</b>	<b>24.9</b>	<b>13.7</b>
Naphthalene	ug/m3	13	< 2.3 U	<b>1.41</b>	<b>1.49</b>	<b>0.685</b>
<b>Chlorinated Volatile Organic Compounds</b>						
1,1-Dichloroethene	ug/m3	15000	< 3.5 U	< 0.0868 U	< 0.159 U	< 0.159 U
cis-1,2-Dichloroethene (cDCE)	ug/m3	3100	< 3.5 U	<b>0.774</b>	<b>3.54</b>	<b>2.95</b>
Tetrachloroethene (PCE)	ug/m3	1600	< 60 U	<b>10.1</b>	<b>90.8</b>	<b>54.8</b>
trans-1,2-Dichloroethene	ug/m3	3100	< 3.5 U	< 0.391 U	< 2.38 U	< 2.38 U
Trichloroethene (TCE)	ug/m3	55	<b>1.2</b>	<b>2.06</b>	<b>13.0</b>	<b>8.35</b>
Vinyl Chloride	ug/m3	48	< 2.3 U	< 0.791 U	< 0.102 U	< 0.102 U
<b>Other</b>						
Helium	%	--	< 0.6 U	< 0.400 U	< 0.400 U	< 0.300 U

**Notes:**

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded screening level.

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

J - Result value estimated

"--" - Indicates results not available

µg/m<sup>3</sup> - micrograms per cubic meter

<sup>1</sup>The listed screening level is 5x Model Toxics Control Act (MTCA) Method B Subslab Screening Level as prescribed in the Compliance Monitoring Plan.


<sup>2</sup>Total Petroleum Hydrocarbons calculated as sum of APH, BTEX, Naphthalene as per Ecology Guidance for Evaluating Vapor Intrusion Appendix E. EDB, EDC, and MTBE are only included in the sum if there were present in soil or water at the site.

ND - 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

# FIGURES

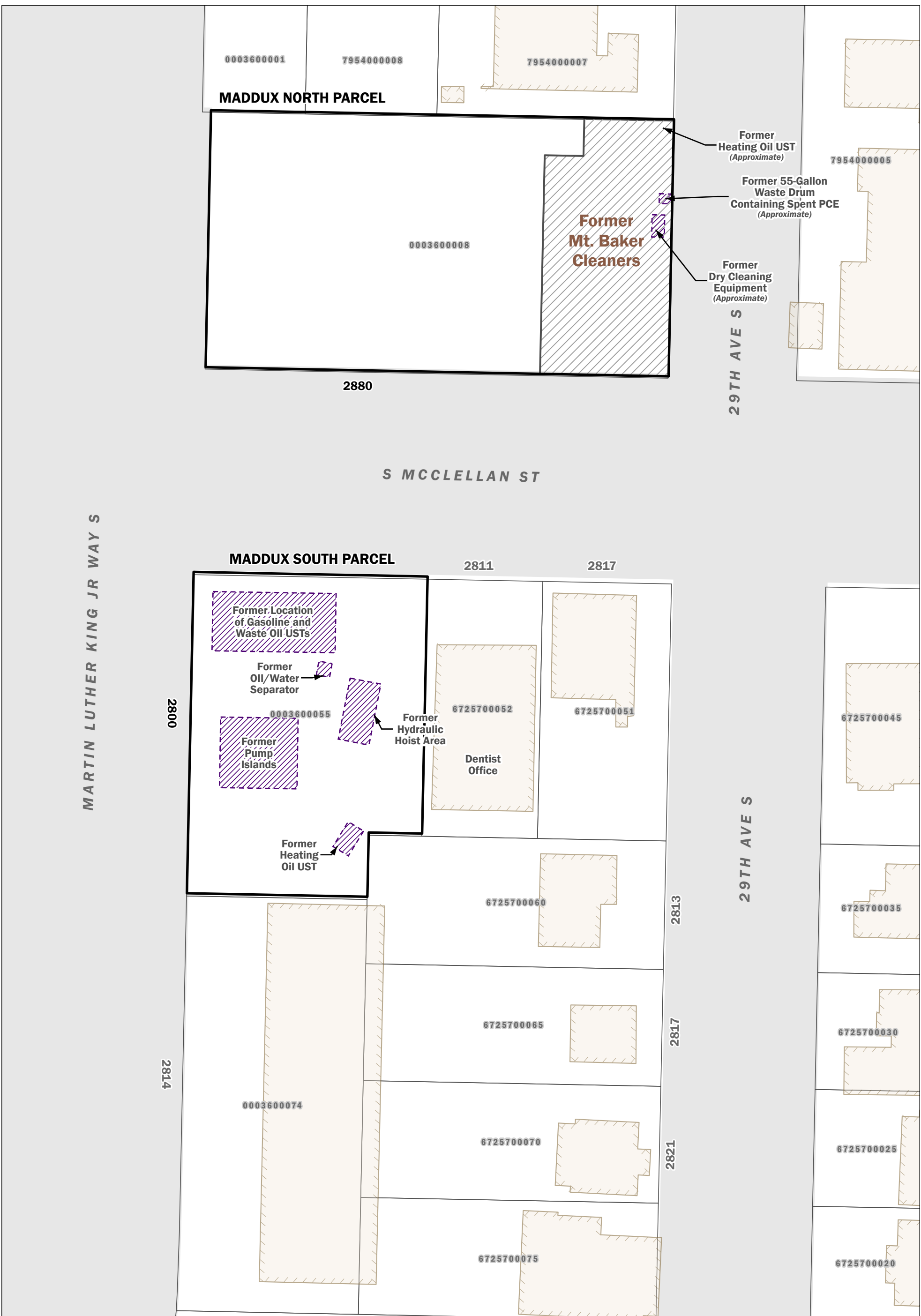


**Site Location Map**  
 Annual Compliance Monitoring Report  
 Mount Baker Properties Site  
 Seattle, Washington

	FEB-2024	BY AJY / DJM / NLK	FIGURE NO. <b>1</b>
	PROJECT NO. AS160324N	REVISED BY: --- / ---	

Data source credits: None | Basemap Service Layer Credits: City of Seattle, King County, WA State Parks GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS, Esri, NASA, NGA, USGS, Esri, NASA, NGA, USGS, FEMA, City of Seattle, King County, WA State Parks GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USFWS, Esri, HERE, Garmin, USGS, EPA, NPS

GIS Path: G:\Projects\MtBakerDevelopment - 160324\Deliverables\Annual Compliance Monitoring Report\AnnualComplianceMonitoringReport.dwg, of Site Location Map II User: Nona.Koselle 11 Print Date: 2/7/2024

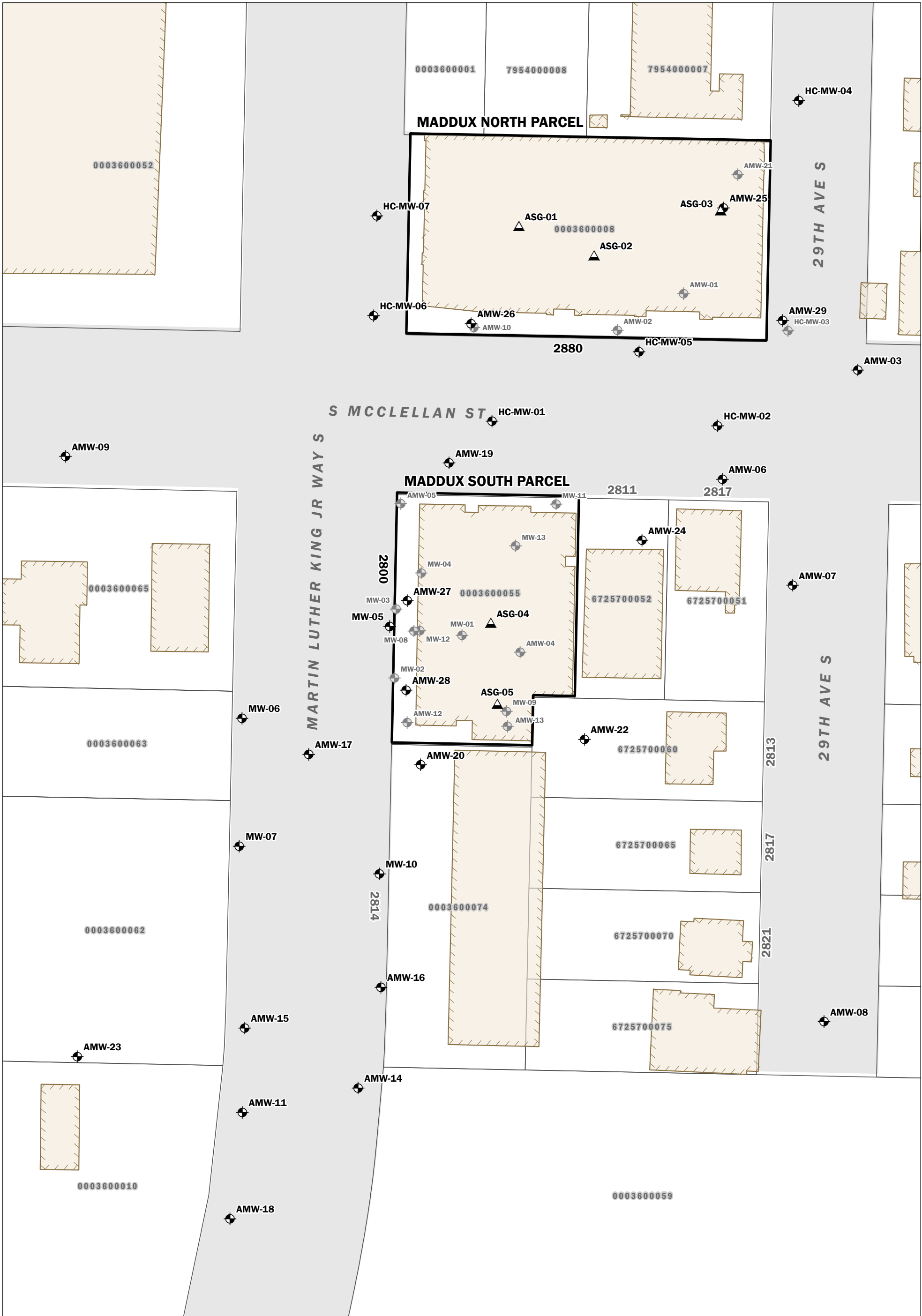


Subject Property  
 Historic Property Feature  
 Building Footprint  
 Tax Parcel

0 35 70  
Feet

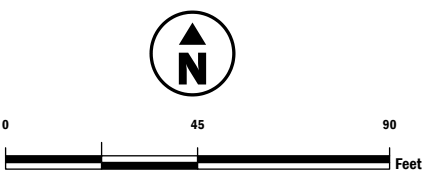
**Site Plan and  
Historical Property Features**  
 Annual Compliance Monitoring Report  
 Mount Baker Properties Site  
 Seattle, Washington

PROJECT NO. AS160324N	MAY-2024 BY: AJY / DJM / NLK REVISED BY: HMD	FIGURE NO. <b>2</b>
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GIS Data: City of Seattle (Municipal Development) - 2023; Data: Annual Compliance Monitoring Report; Annual Compliance Monitoring Report; City of Seattle (Municipal Development) - 2023; Data: Annual Compliance Monitoring Report; City of Seattle (Municipal Development) - 2023; Data: Annual Compliance Monitoring Report; City of Seattle (Municipal Development) - 2023; Data: Annual Compliance Monitoring Report; City of Seattle (Municipal Development) - 2023; Date: 5/7/2024

-  Monitoring Well
-  Decommissioned Monitoring Well
-  Soil Gas Sample Location
-  Subject Property
-  Building Footprint
-  Tax Parcel

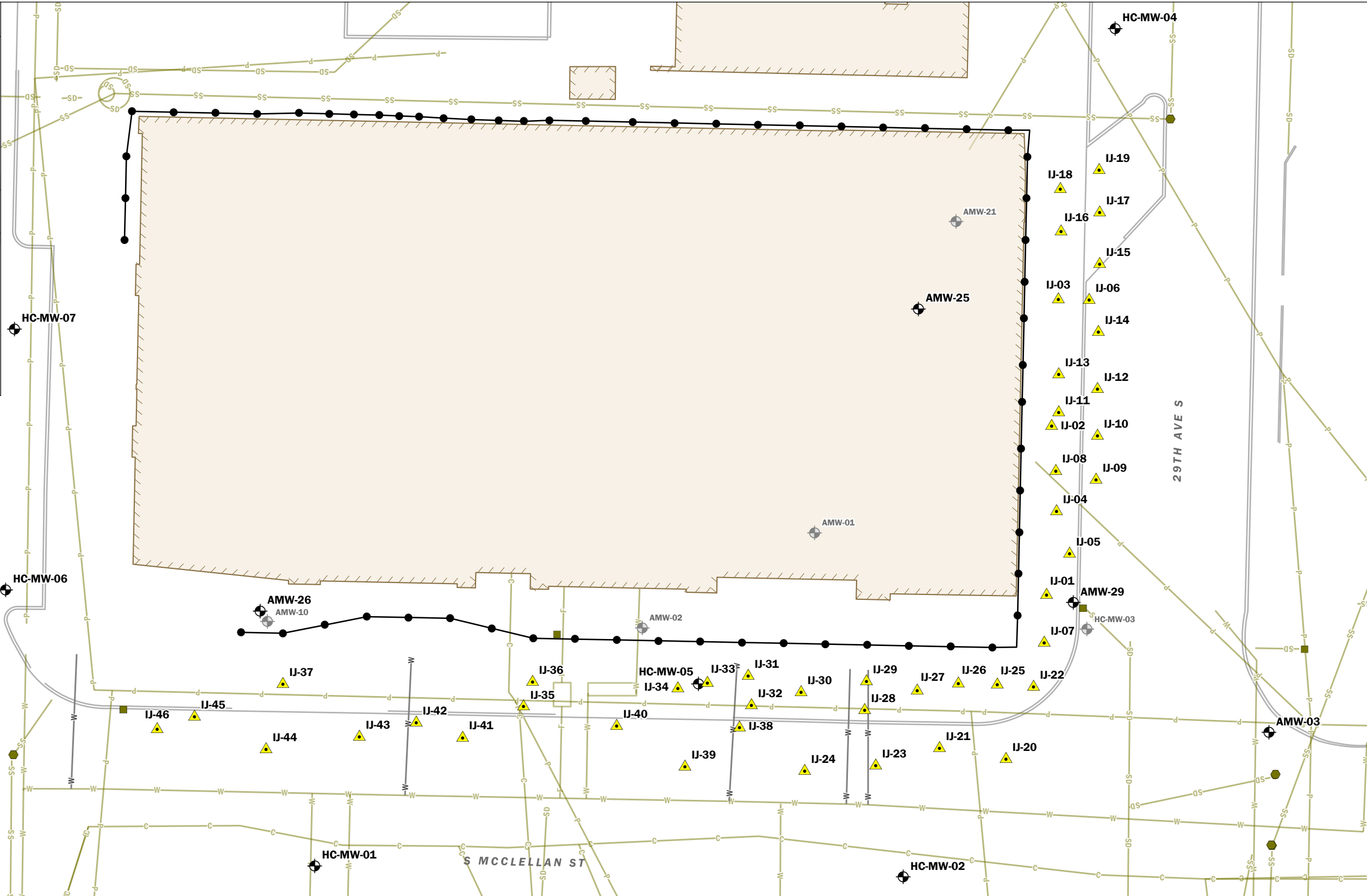
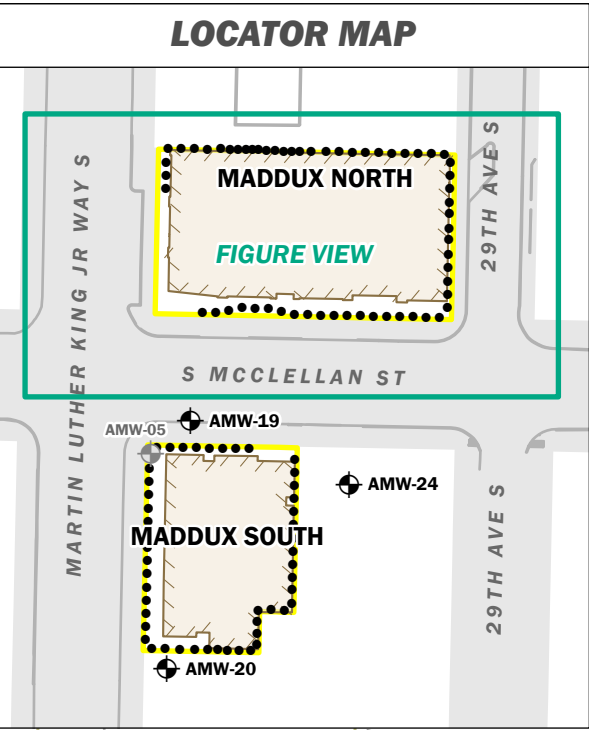


### Compliance Monitoring Network

Annual Compliance Monitoring Report  
 Mount Baker Properties Site  
 Seattle, Washington

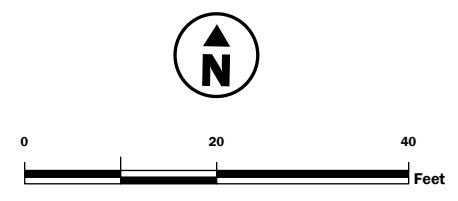
	FEB-2024	BY: AJY / DJM / NLK	FIGURE NO. <b>3</b>
	PROJECT NO. AS160324N	REVISED BY: HMD	

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



Completed Injection Location	Shoring Pile	Power Line	Water Line	Building Footprint
Monitoring Well	Shoring Wall	Storm Drain Line	Decommissioned/ Abandoned-in-Place	Subject Property
Abandoned Monitoring Well		Sanitary Sewer Line	Fire Service Line	Curb
		Communication Line	Catch Basin	
		Water Line	Storm Manhole	
			Sanitary Manhole	

Notes:  
 - ISCR = In-Situ Chemical Reduction  
 - See Table 6 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.

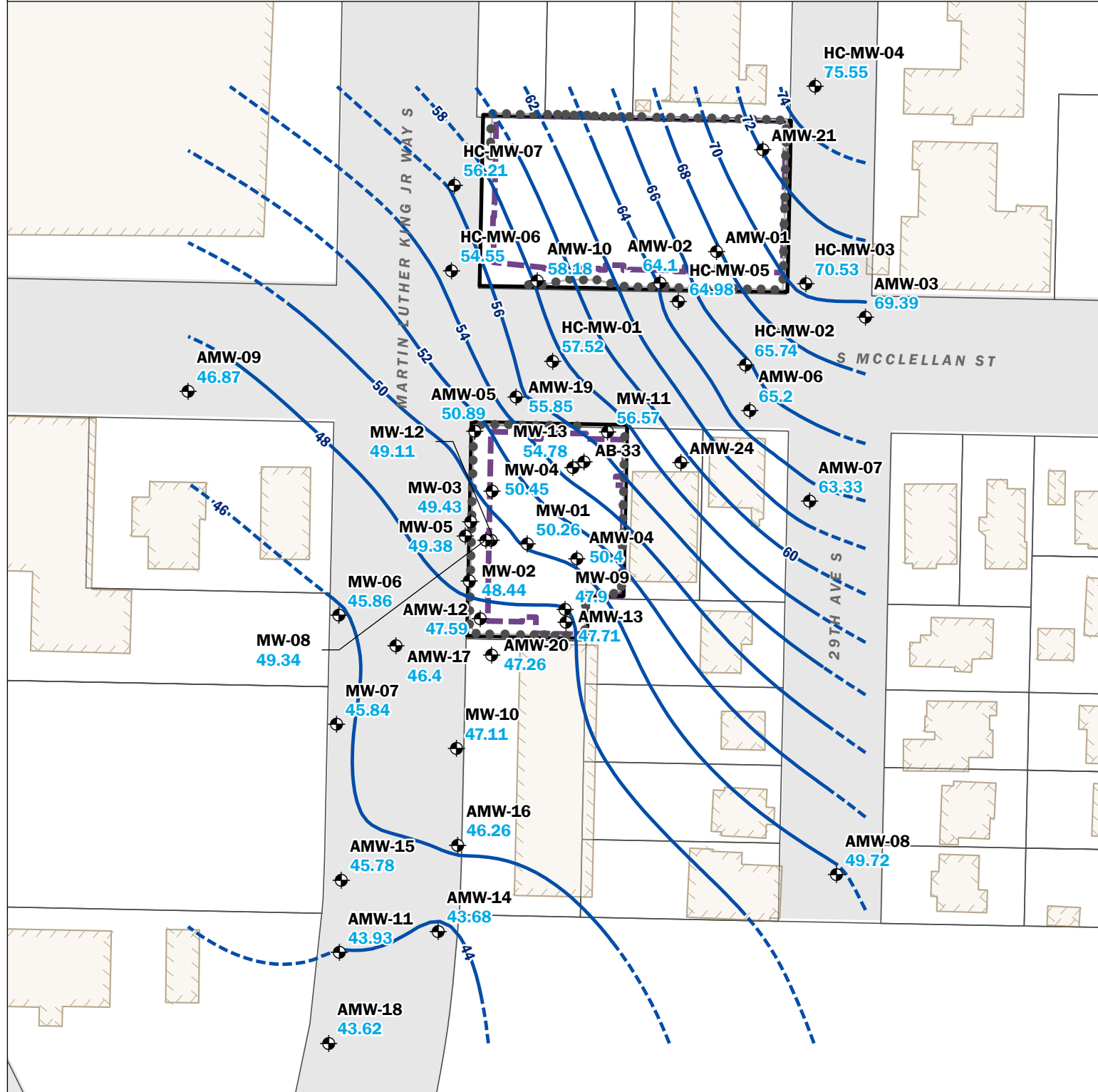


### ISCR Injection Locations

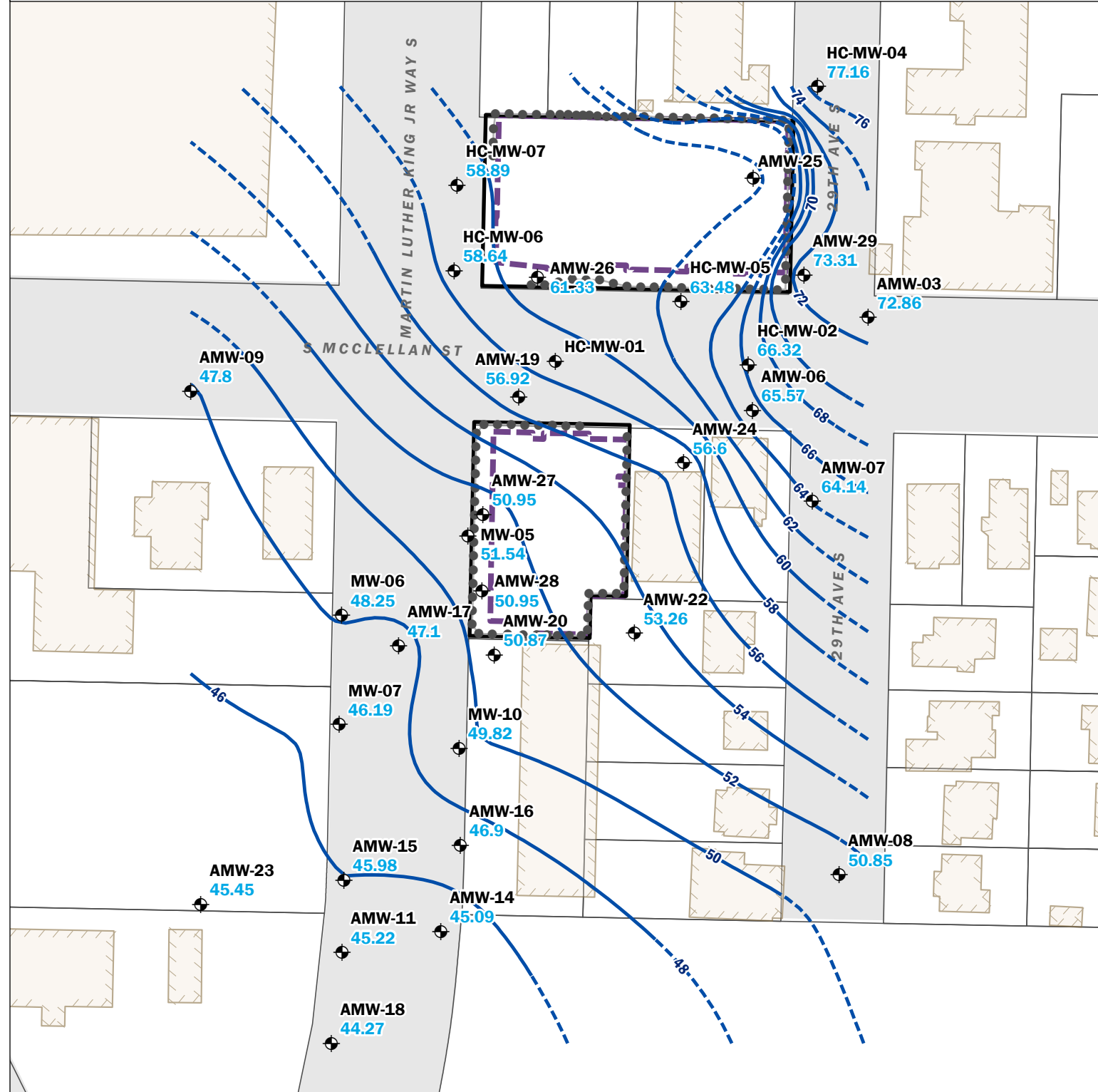
Annual Compliance Monitoring Report  
 Mount Baker Properties Site  
 Seattle, Washington

	FEB-2024	BY: AJY / DJM / NLK	FIGURE NO. <b>4</b>
	PROJECT NO. AS160324N	REVISED BY: HMD	

# AUGUST 2018: PRE-CLEANUP ACTION

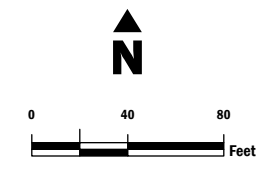


# DECEMBER 2023: POST-EXCAVATION



- Monitoring Well
- 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)



**Pre- and Post-Excavation Groundwater Elevation Contours**  
 Annual Compliance Monitoring Report  
 Mount Baker Properties Site  
 Seattle, Washington

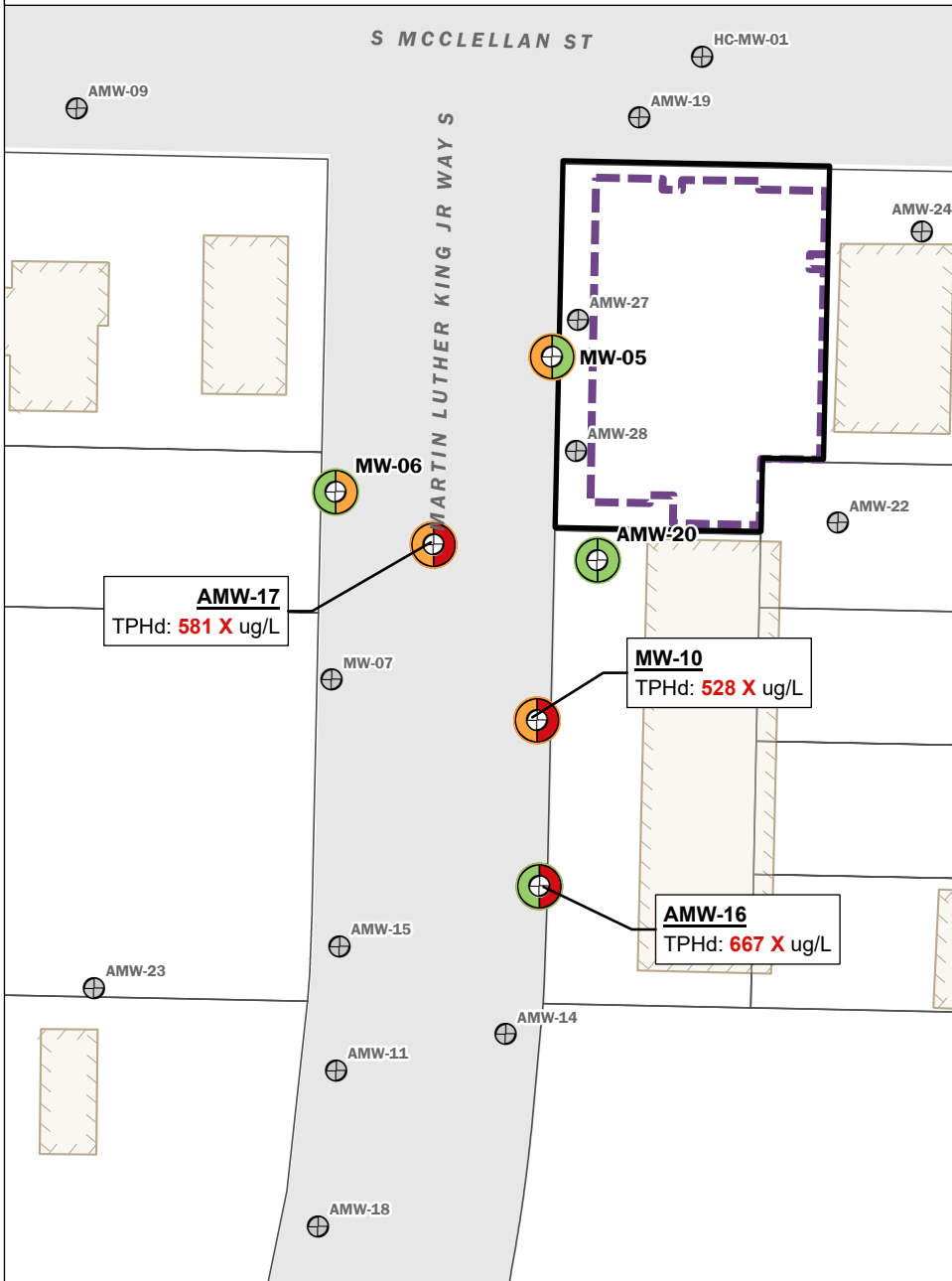
**DRAFT**

PROJECT NO. 160324	BY: AJY / HMD	FIGURE NO. <b>5</b>
REVISED BY: --- / ---		

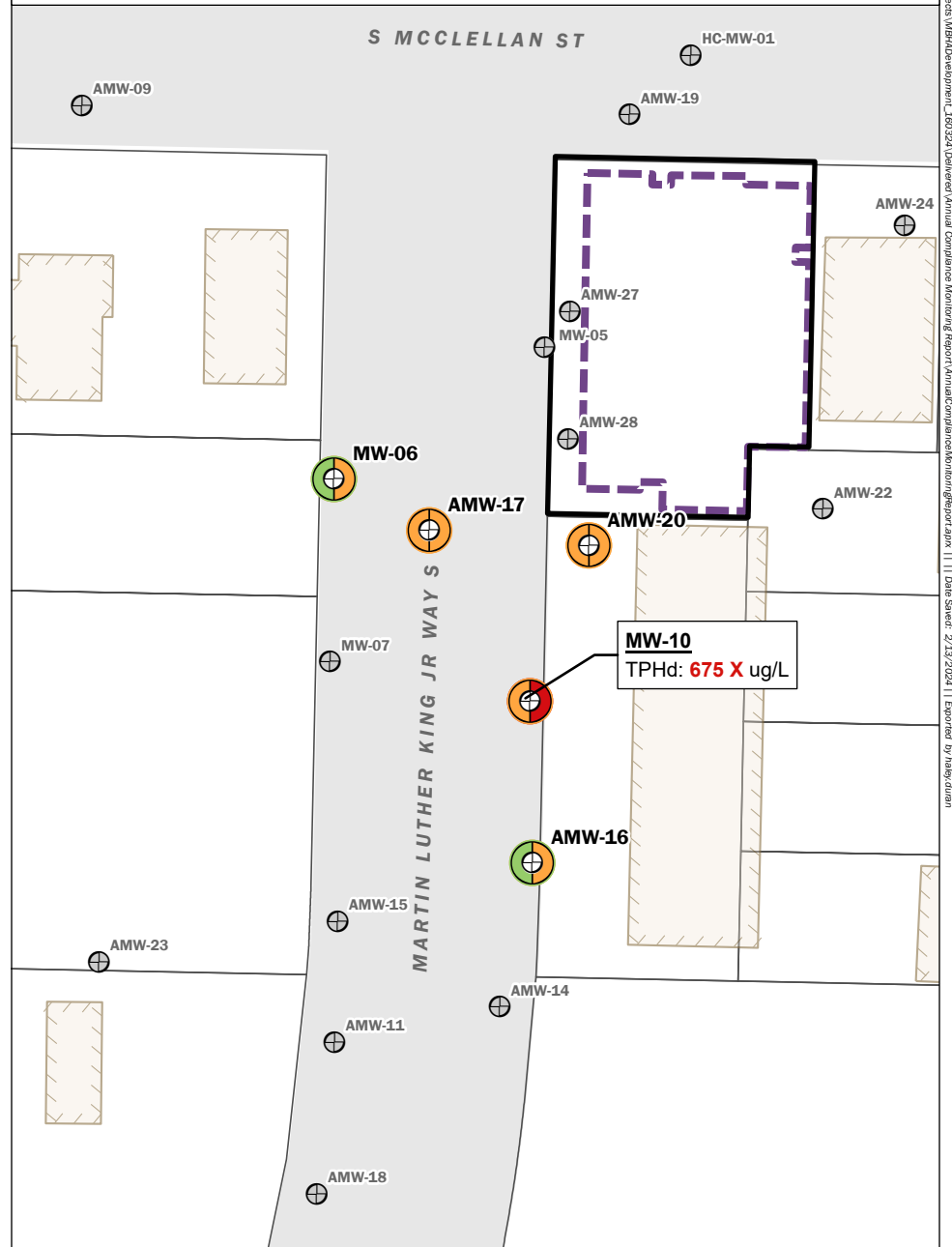
Data source credits: None || Basemap Service Layer Credits: NA

GIS Data: G:\Projects\160324\160324\_GIS\Map\_Series\AnnualComplianceMonitoringReport\AnnualComplianceMonitoringReport.aprx; File and Path Renamed: Examination\Groundwater Elevation Contours; User: hmg@mtbaker.com; Print Date: 5/9/2024

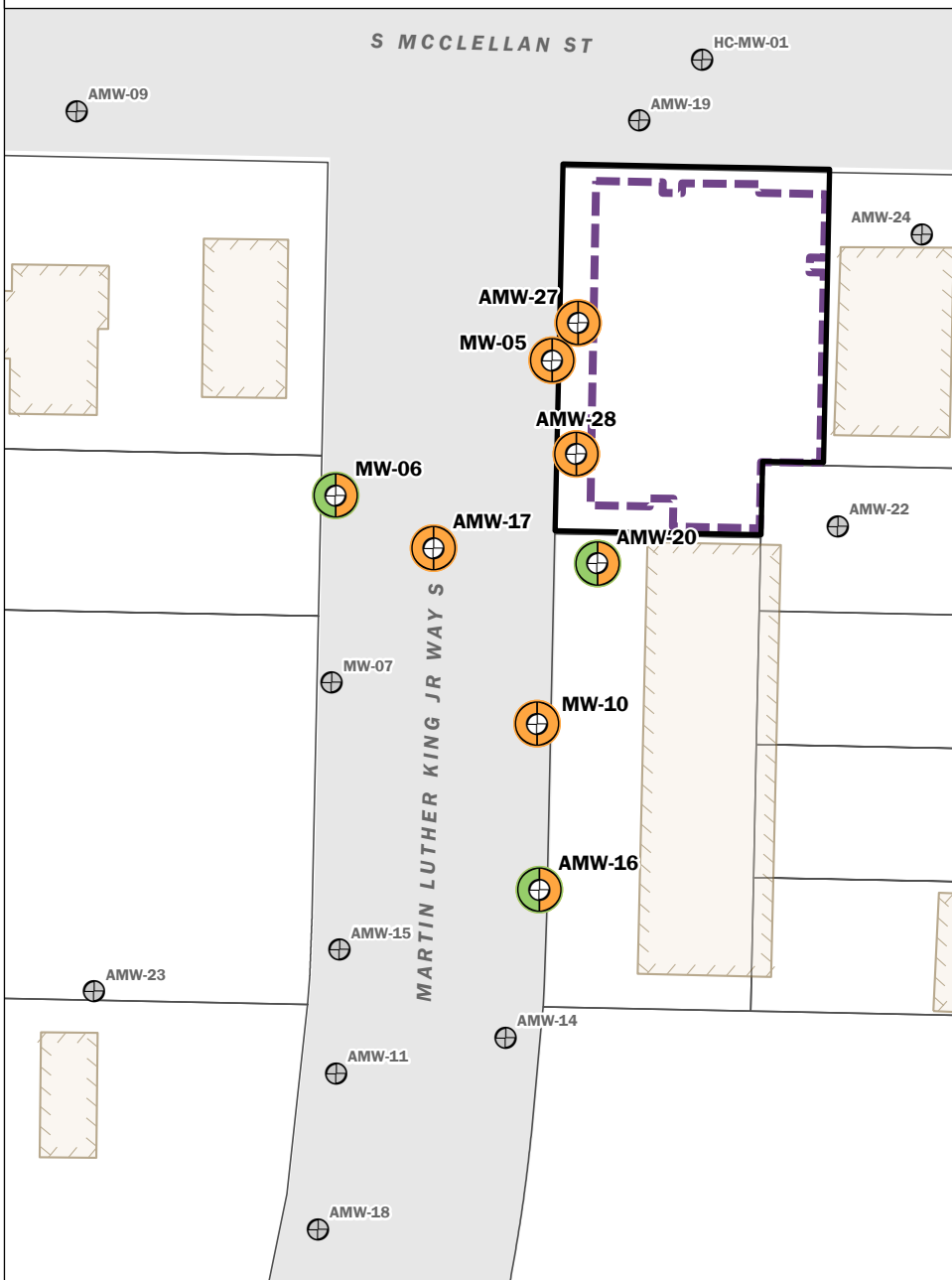
# JUNE 2022



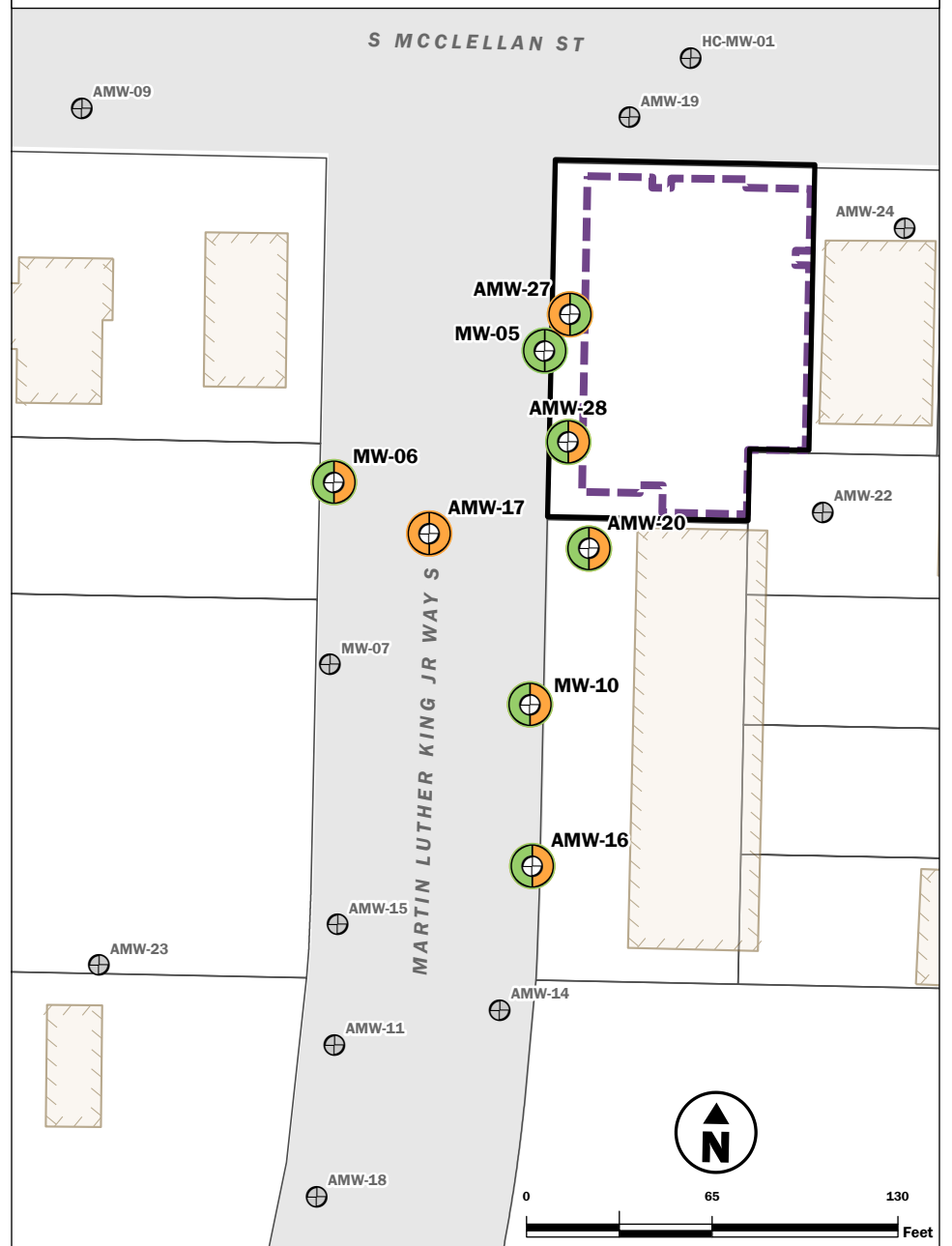
# DECEMBER 2022



# JUNE 2023



# DECEMBER 2023



⊕ Monitoring Well  
 ⊕ Monitoring Well Not Sampled for TPH  
 ● TPH detected at concentrations above Site Specific Cleanup Levels  
 ● TPH detected at concentrations below Site Specific Cleanup Levels  
 ● TPH not detected

Subject Property  
 Maddux Building Footprint  
 Building Footprint  
 Tax Parcel

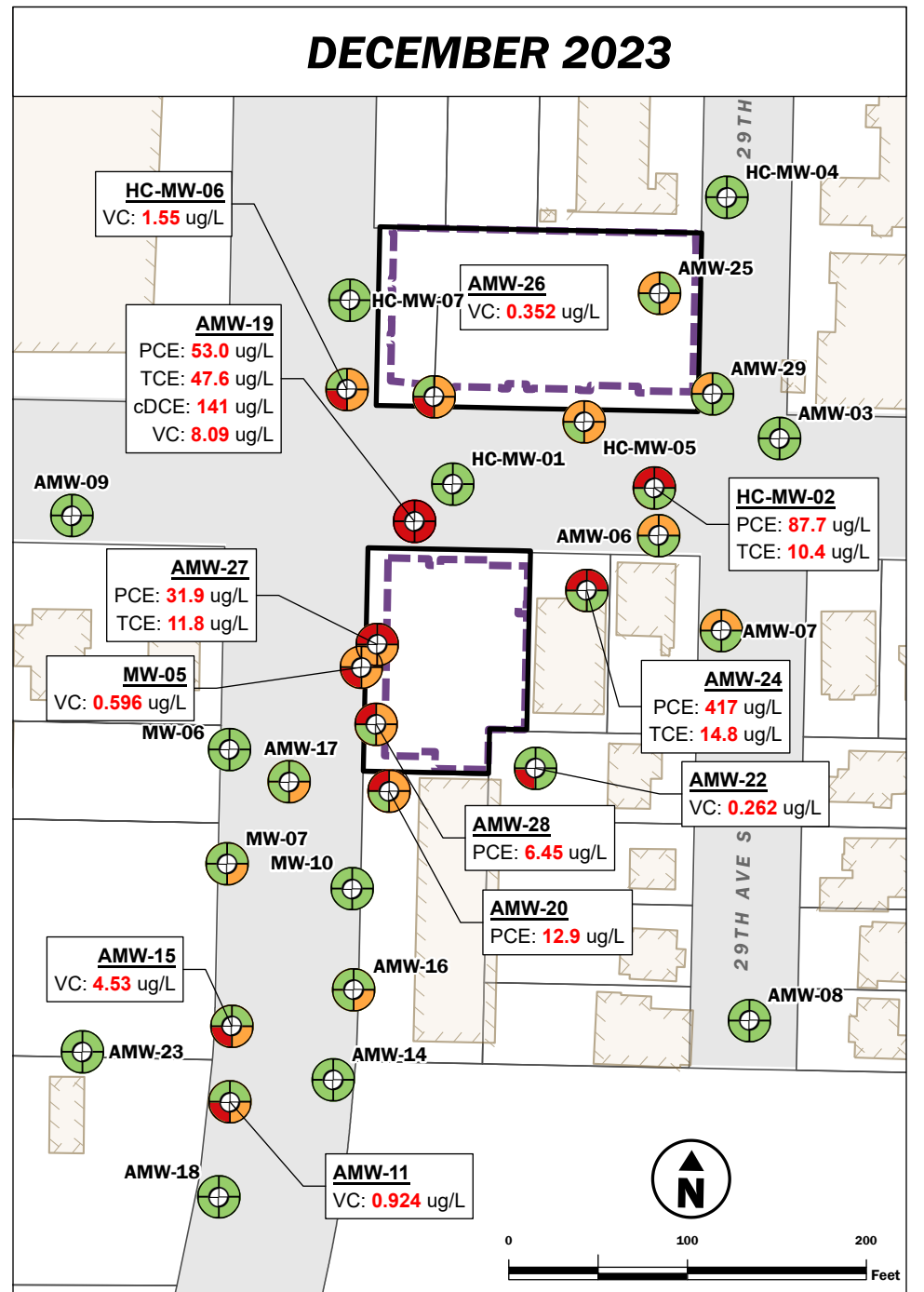
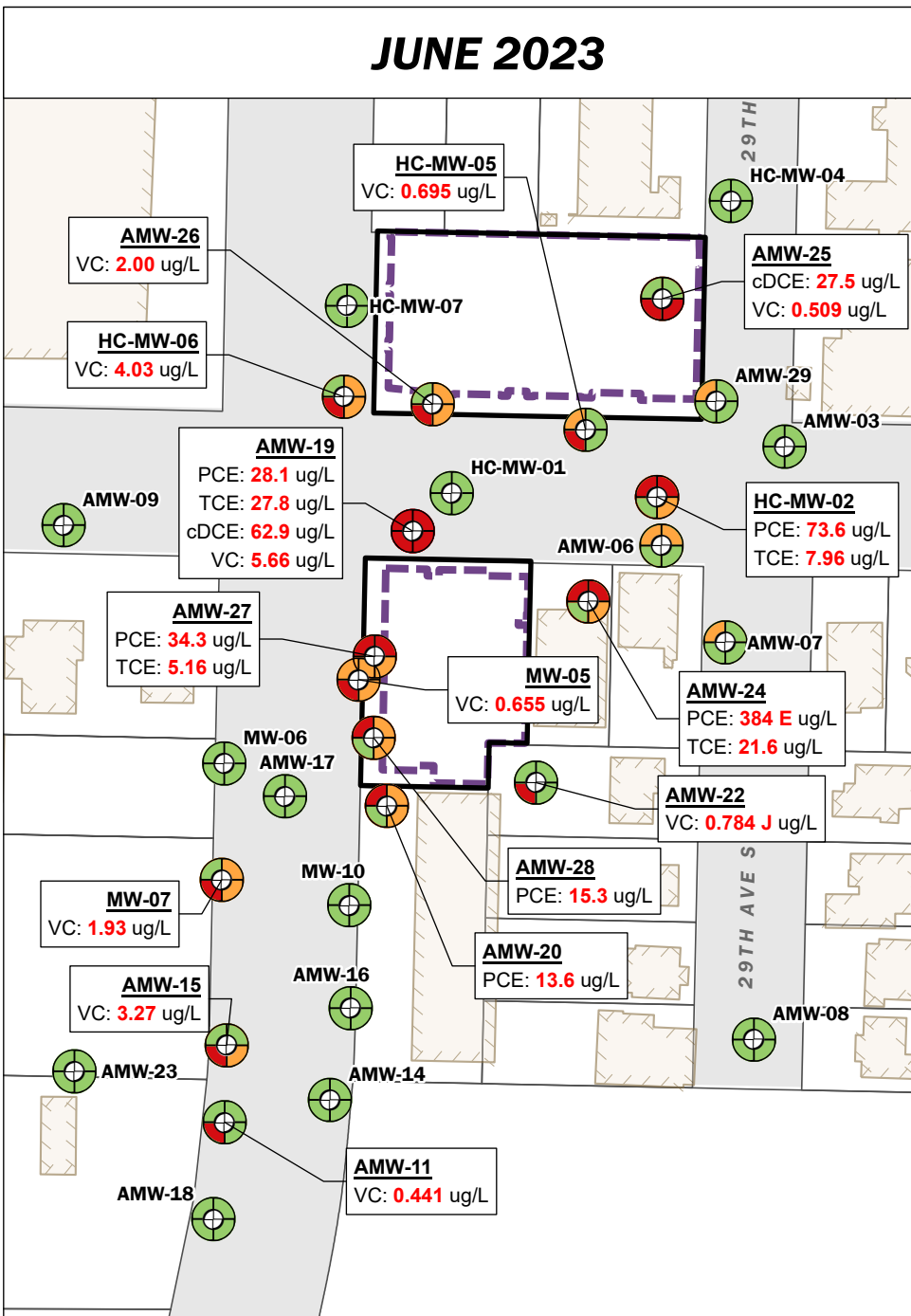
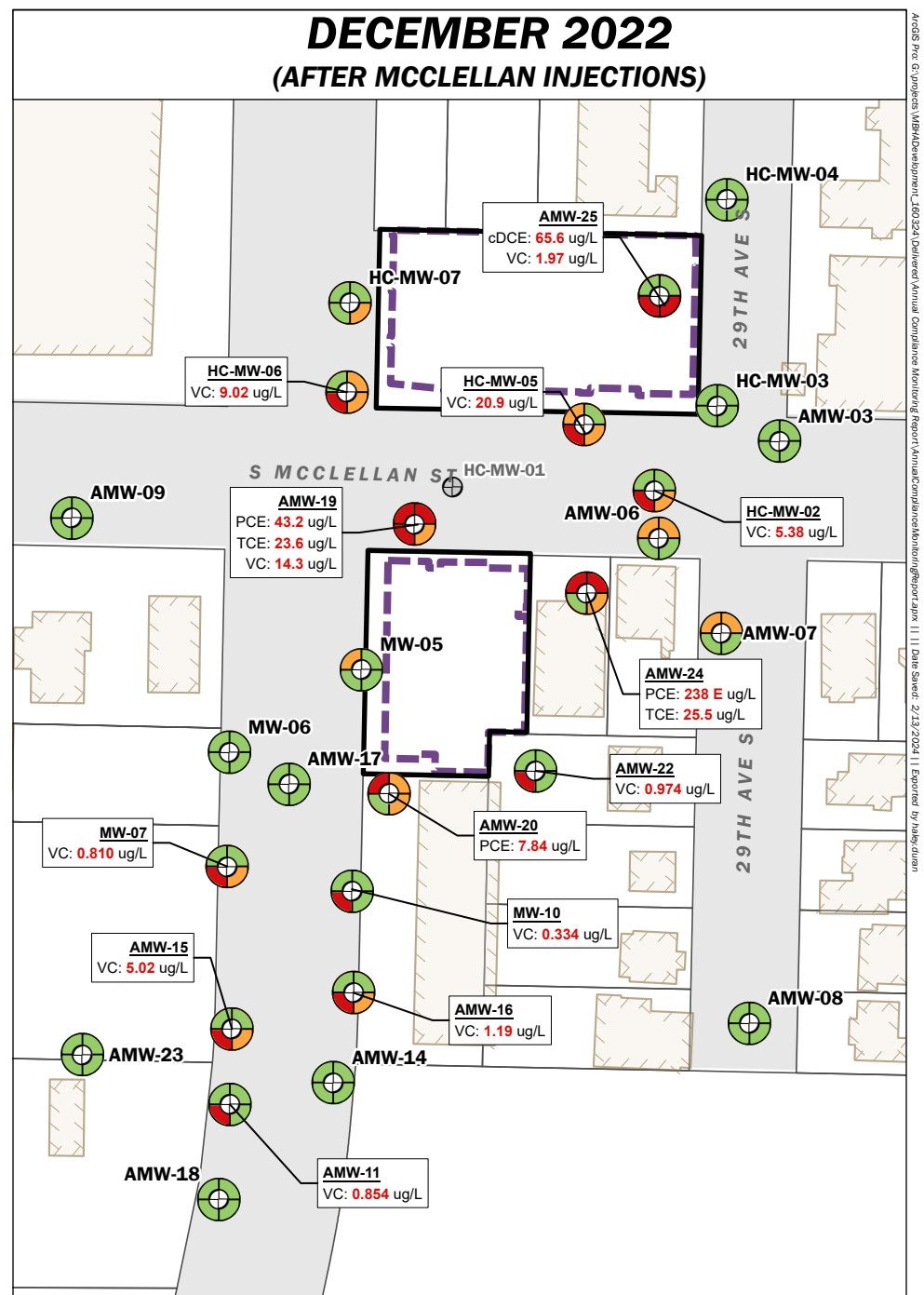
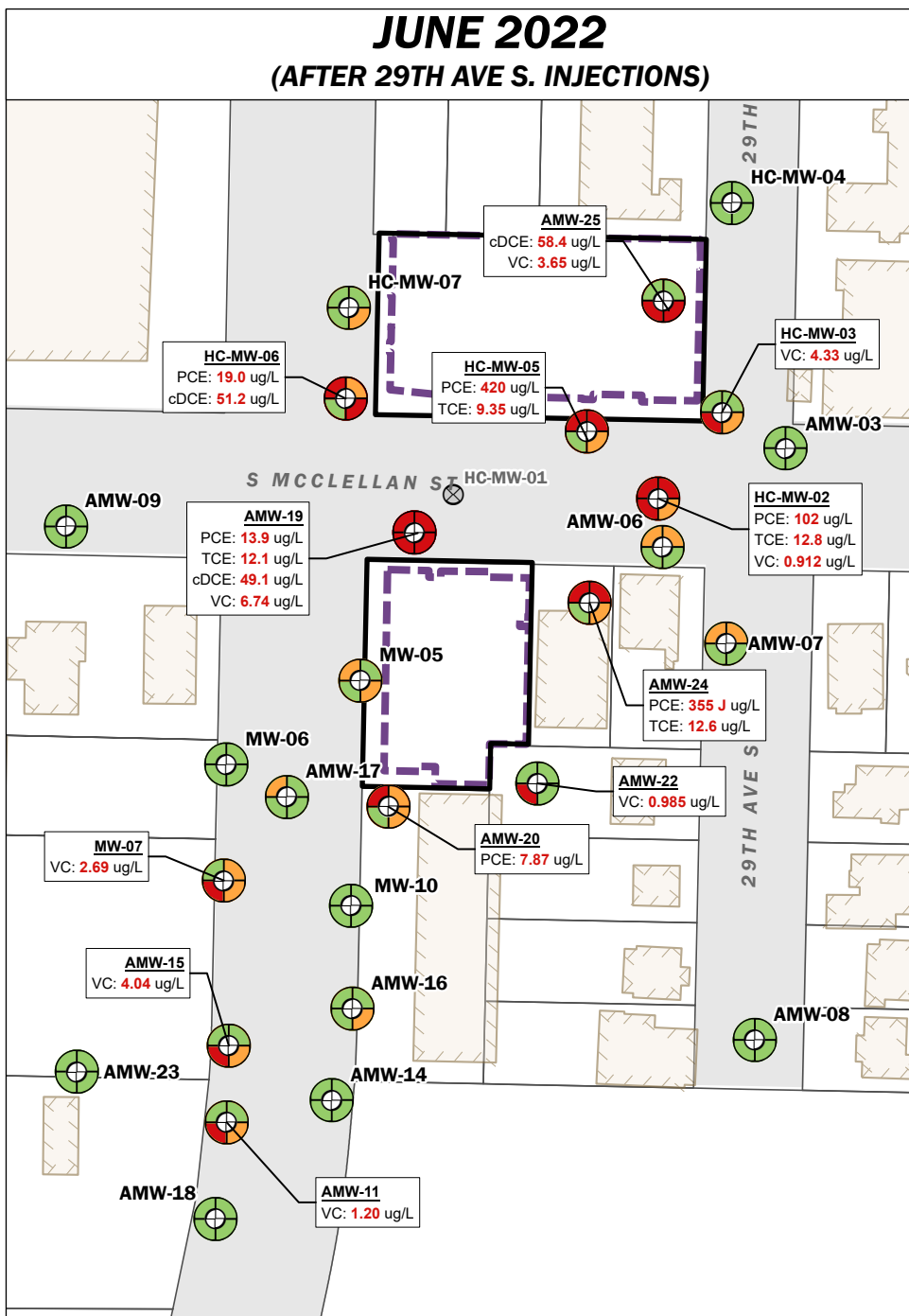
Sample ID  
**MW-10**  
 TPHd: 675 X ug/L  
 Result Value

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 (2022 - 2023)

Annual Compliance Monitoring Report  
Mount Baker Properties Site  
Seattle, Washington

	FEB-2024	BY: AJY / DJM / NLK	FIGURE NO. <b>6</b>
	PROJECT NO. AS160324N	REVISED BY: HMD	



- Monitoring Well
- Monitoring Well Not Sampled for CVOCs
- CVOC detected at concentrations above Site Specific Cleanup Levels
- CVOC detected at concentrations below Site Specific Cleanup Levels
- CVOC not detected

- Subject Property
- Maddux Building Footprint
- Building Footprint
- Tax Parcel

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 (2022 - 2023)

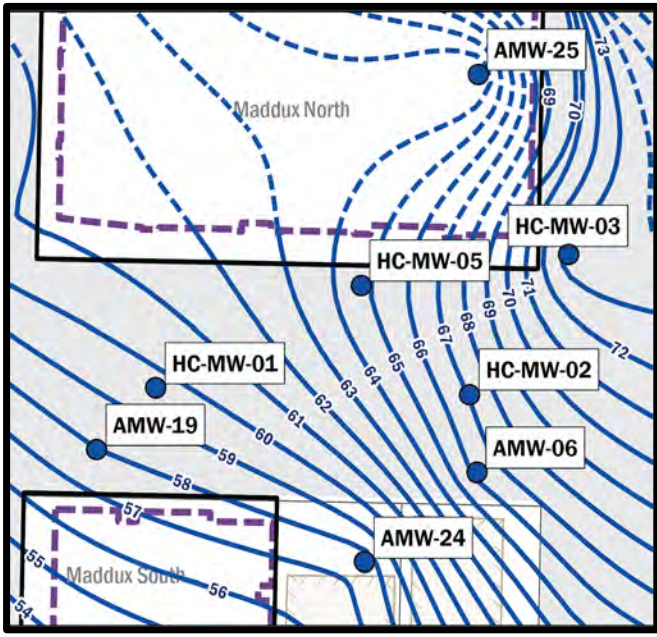
Annual Compliance Monitoring Report  
Mount Baker Properties Site  
Seattle, Washington

 FEB-2024 <small>PROJECT NO. AS160324N</small>	<small>BY: AJY / DJM / NLK</small> <small>REVISED BY: HMD</small>	<small>FIGURE NO.</small> <b>7</b>
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**Figure 8. Groundwater Analytical Results – Time-Series cVOC Graphs**

Project No.160324, Seattle, Washington

**Maddux North cVOCs**

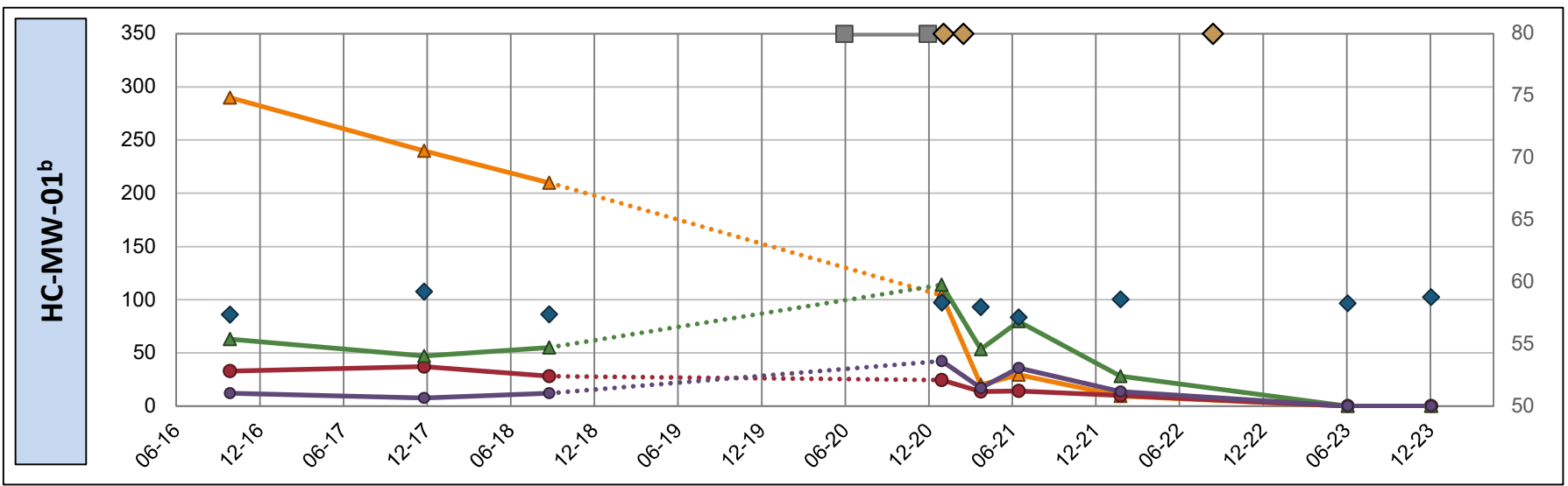
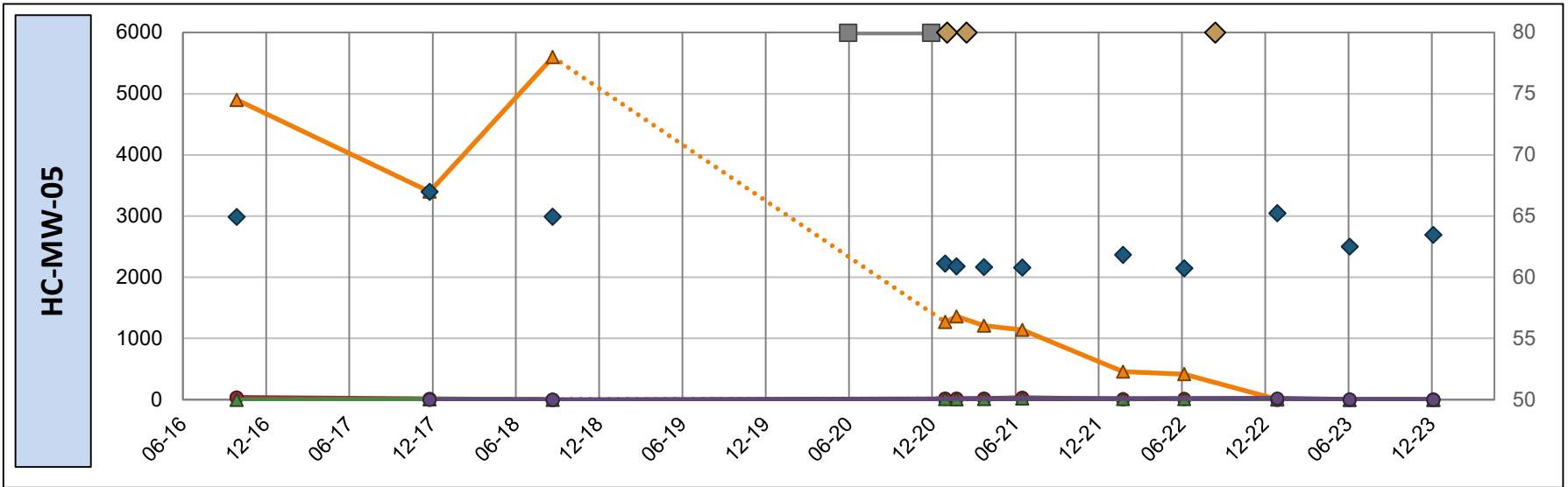
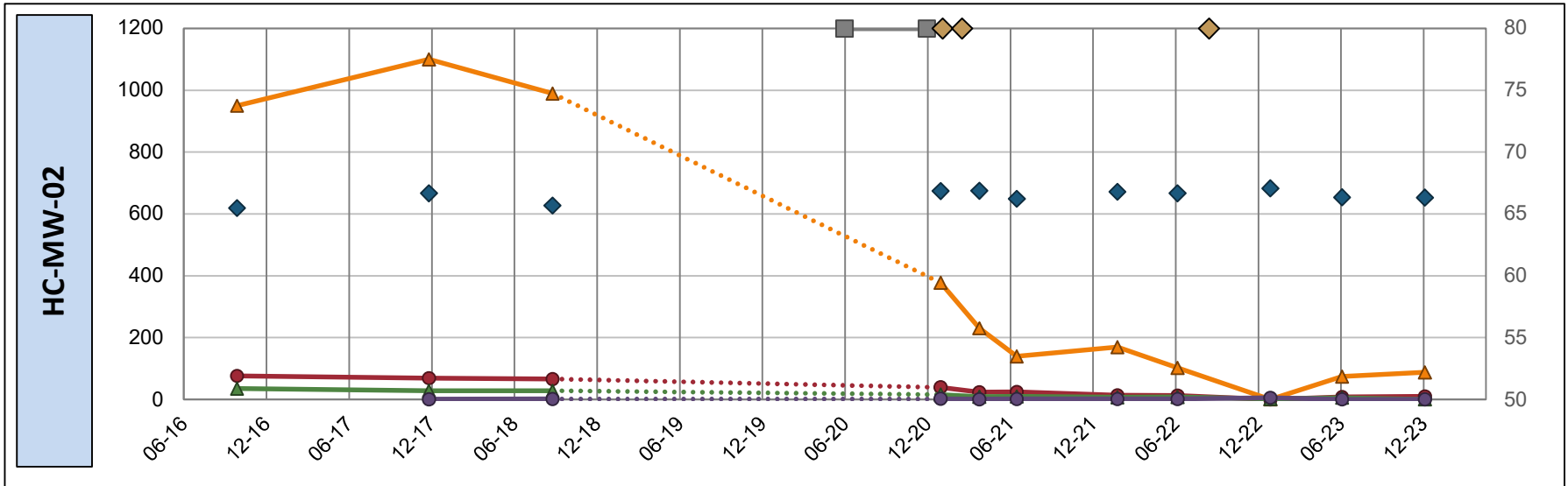
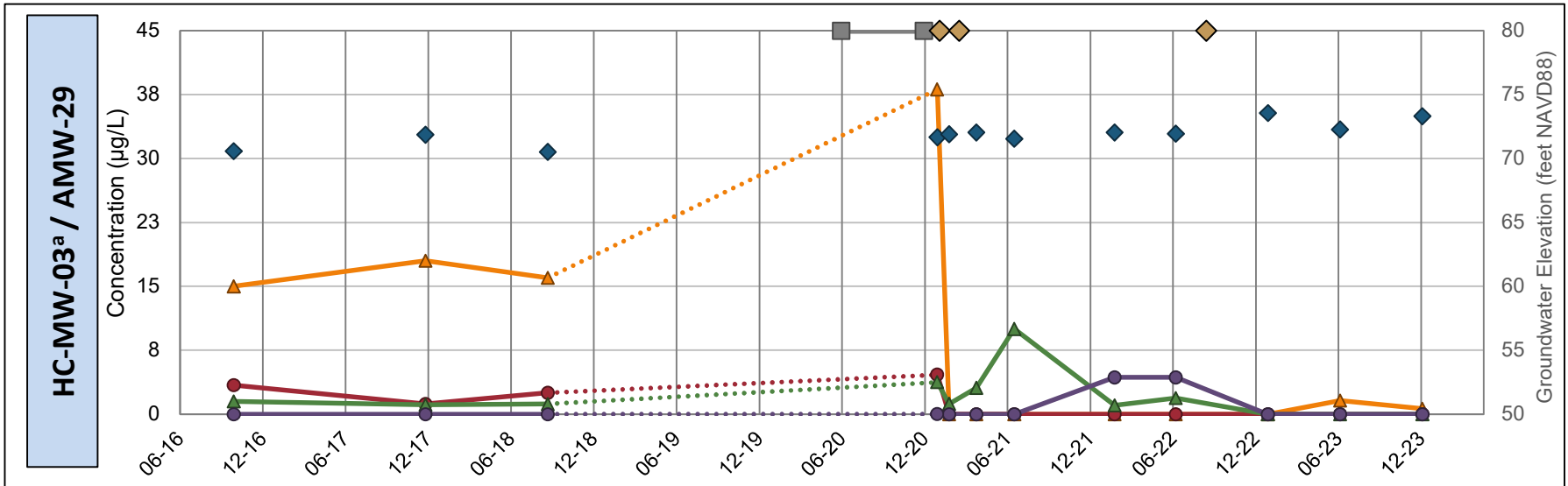


**Legend**

- ▲ PCE - tetrachloroethene
  - TCE - trichloroethene
  - ▲ cDCE - cis-1,2 dichloroethene
  - VC - vinyl chloride
  - ◆ Date of Injection event
  - ◆ Groundwater elevation (feet NAVD88)
  - Duration of excavation
- µg/L - micrograms per liter

**Notes**

1. Groundwater elevation contours represent groundwater levels obtained in December 2022.
  2. Nondetect results were graphed using a value of zero
- <sup>a</sup> HC-MW-03 was decommissioned and replaced with AMW-29

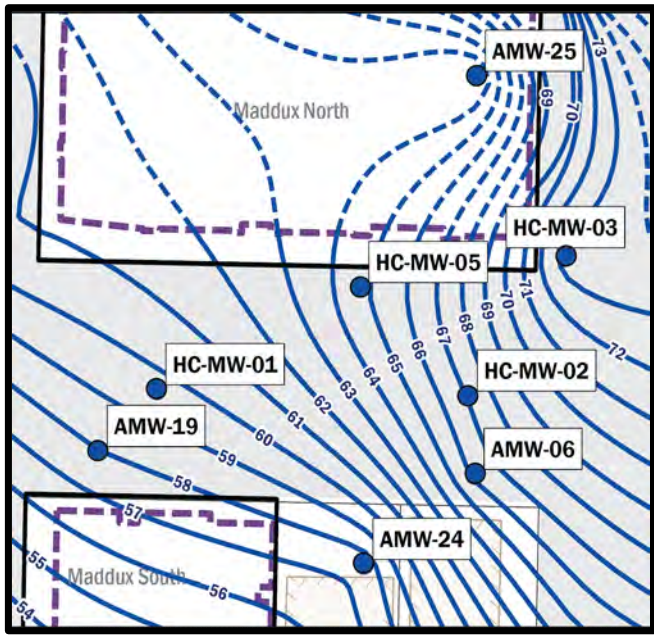


**Figure 8. Groundwater Analytical Results – Time-Series cVOC Graphs**

Project No.160324, Seattle, Washington

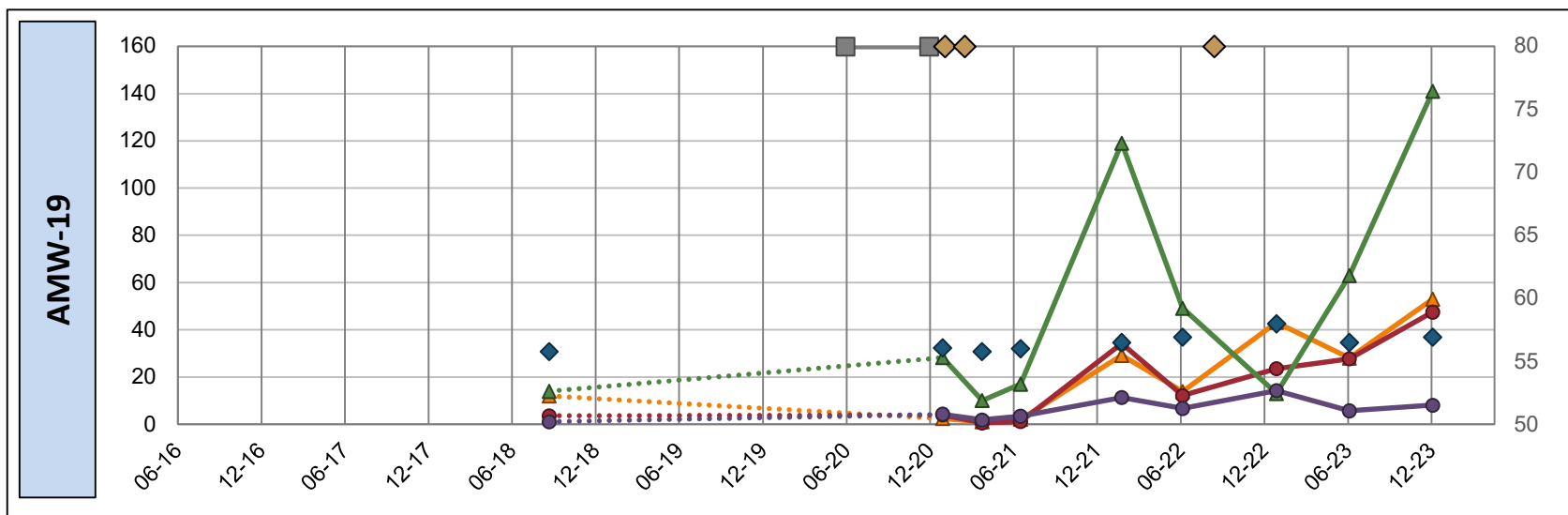
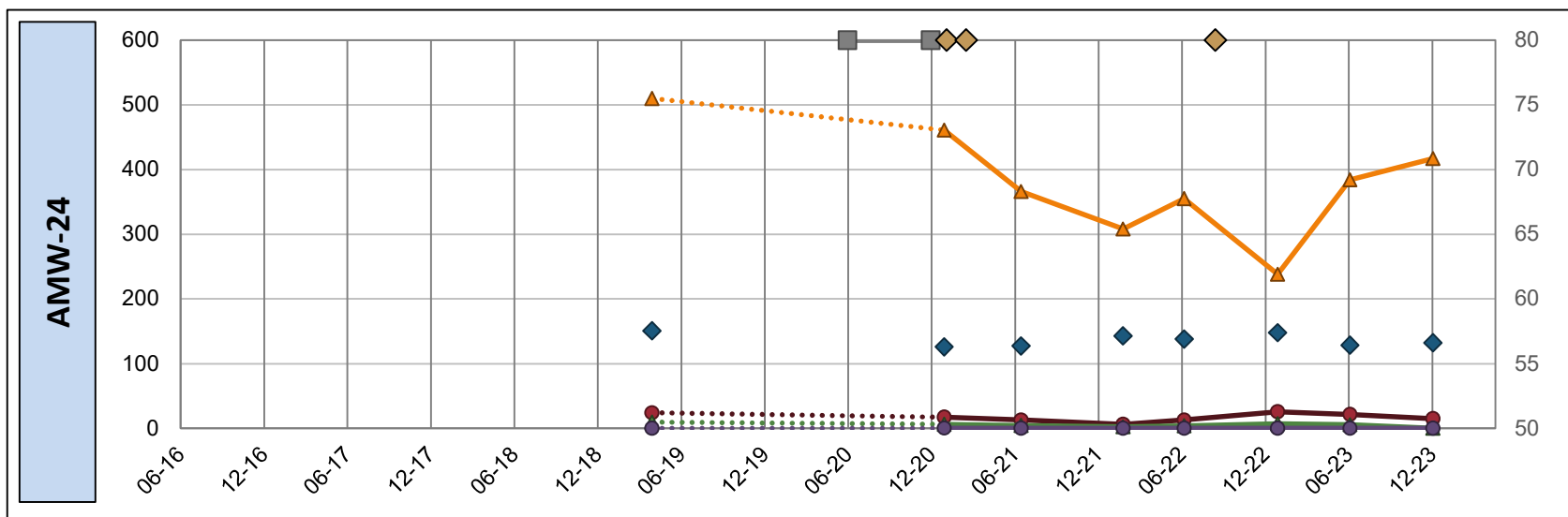
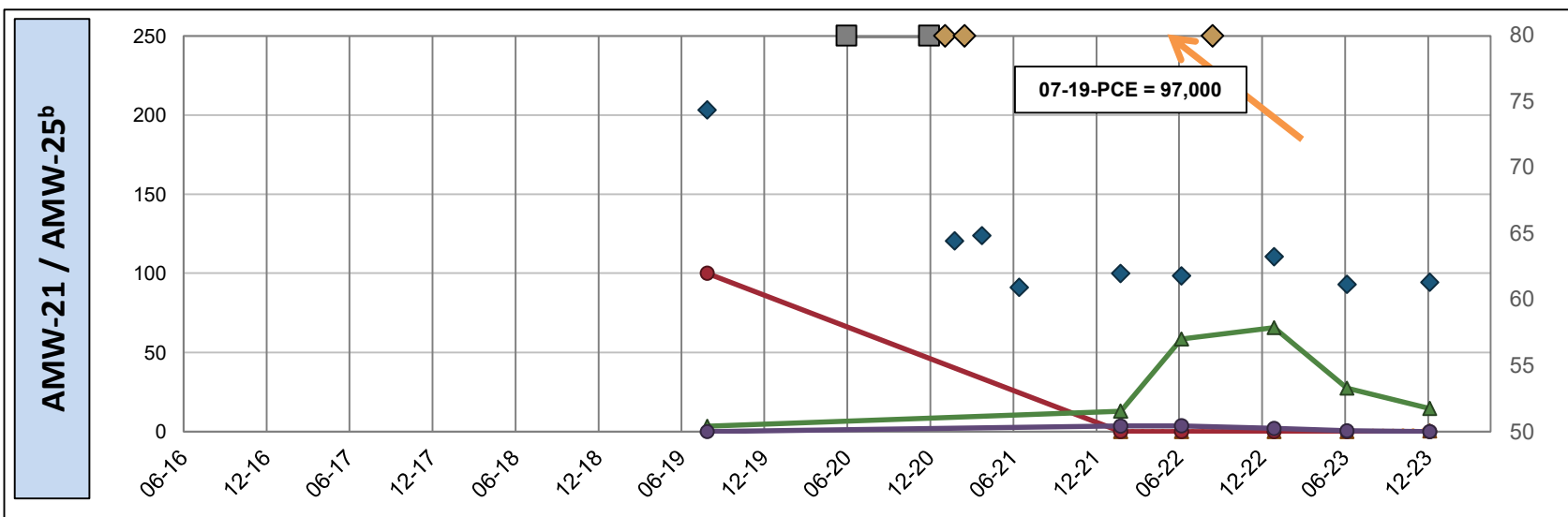
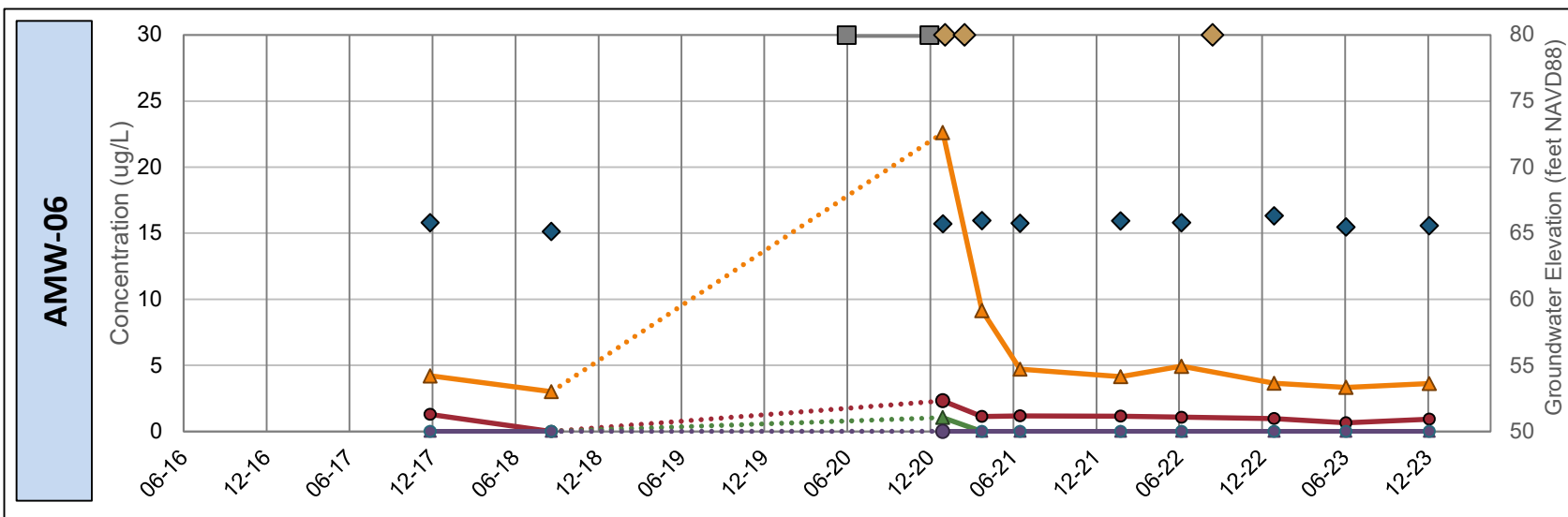
**DRAFT**

**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
  - µg/L - micrograms per liter

- Notes**
1. Groundwater elevation contours represent groundwater levels obtained in December 2022.
  2. Nondetect results were graphed using a value of zero
  - <sup>b</sup> AMW-21 was decommissioned and replaced with AMW-25



**Figure 9. Groundwater Analytical Results – Absolute Molar cVOC Concentrations**

**DRAFT**

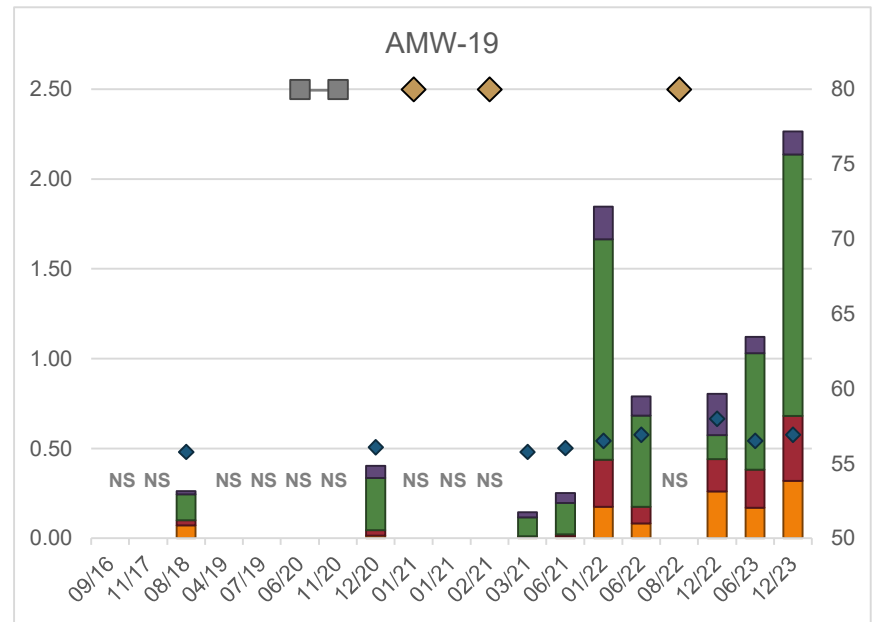
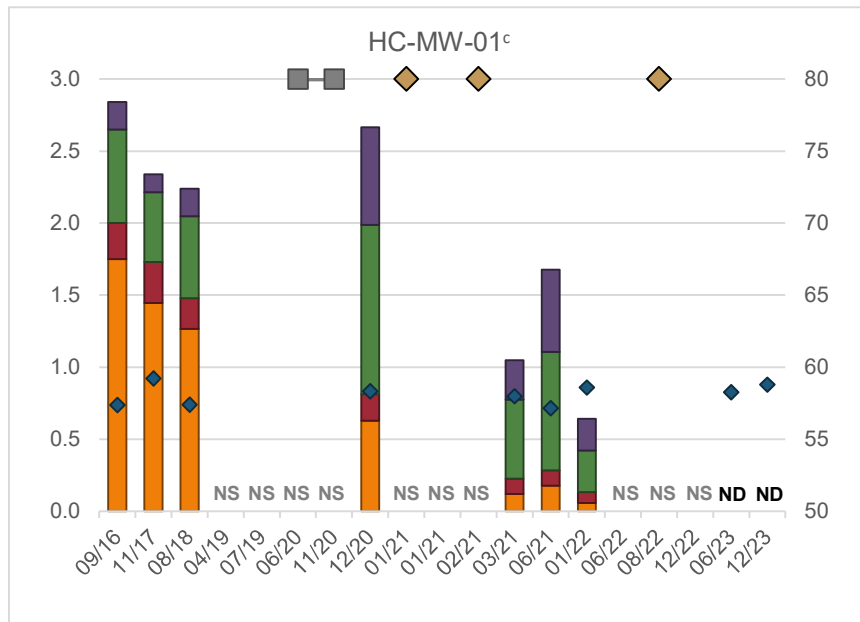
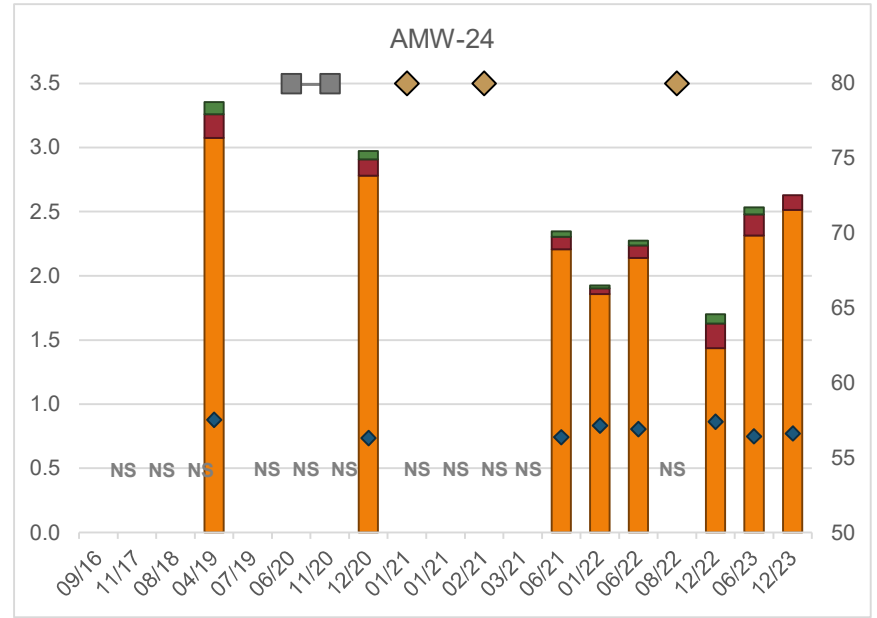
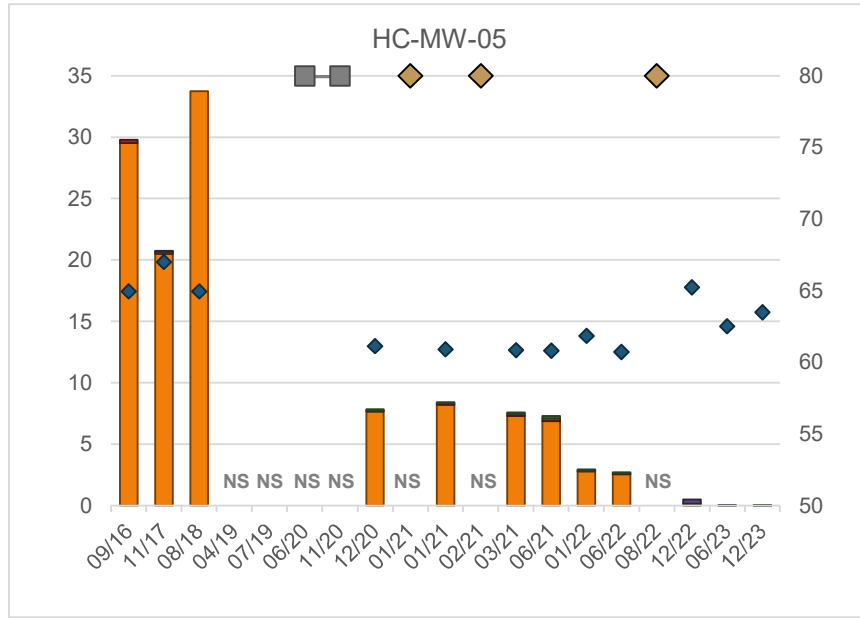
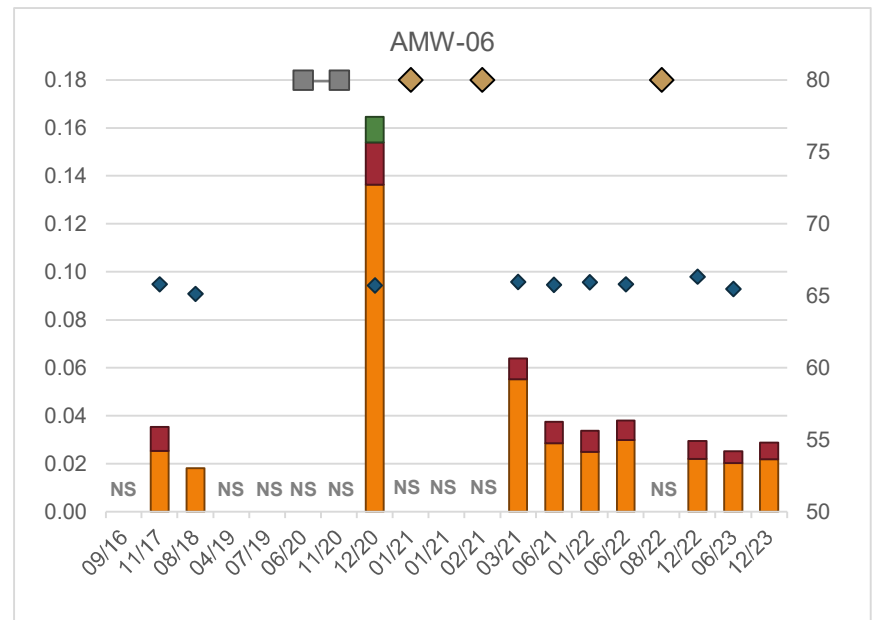
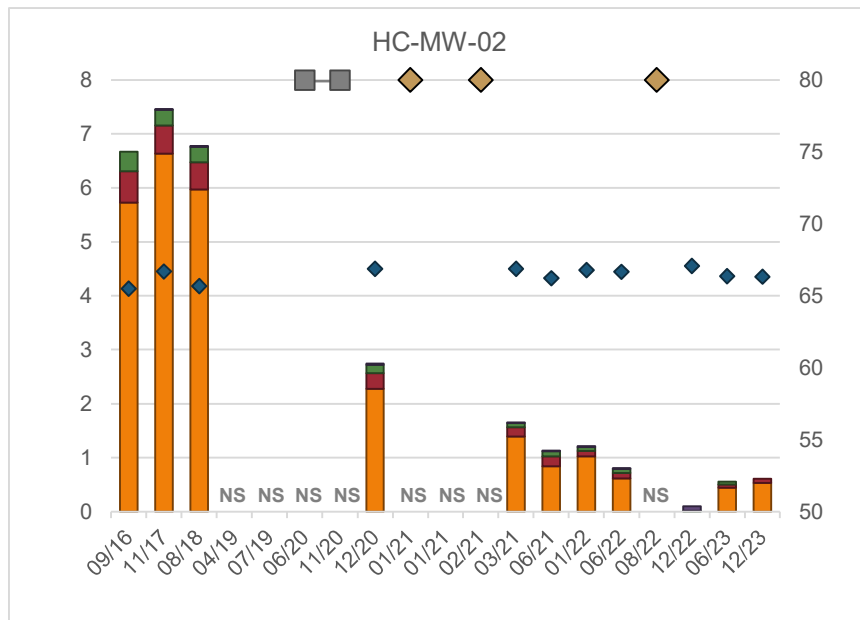
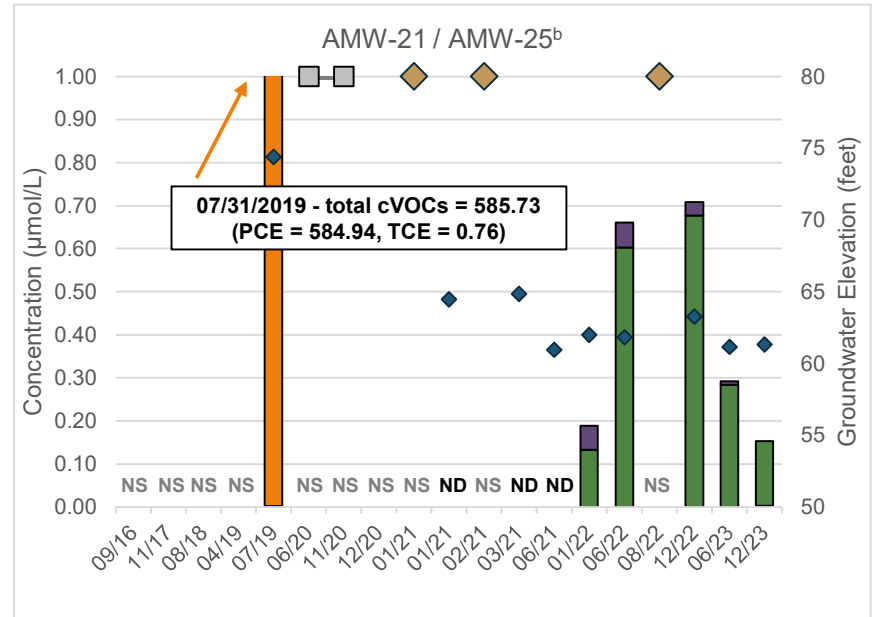
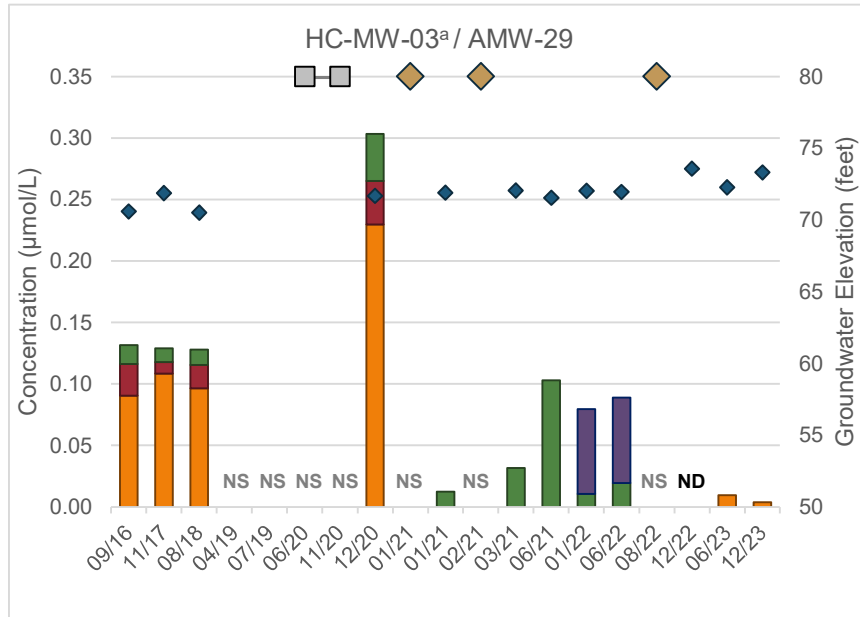
Project No.160324, Seattle, Washington

**Legend**

- PCE - tetrachloroethene
- TCE - trichloroethene
- cDCE - cis-1,2 dichloroeth
- VC - vinyl chloride
- ND** Nondetect
- ◆ Groundwater Elevation (feet NAVD88)
- ◆ Date of Injection event
- Duration of Excavation
- NS** Not sampled
- $\mu\text{mol/L}$  - micromoles per liter

**Notes**

- <sup>a</sup> HC-MW-03 was decommissioned and replaced with AMW-29
- <sup>b</sup> AMW-21 was decommissioned and replaced with AMW-25



**Figure 10. Groundwater Analytical Results – Relative Molar cVOC Concentrations**

**DRAFT**

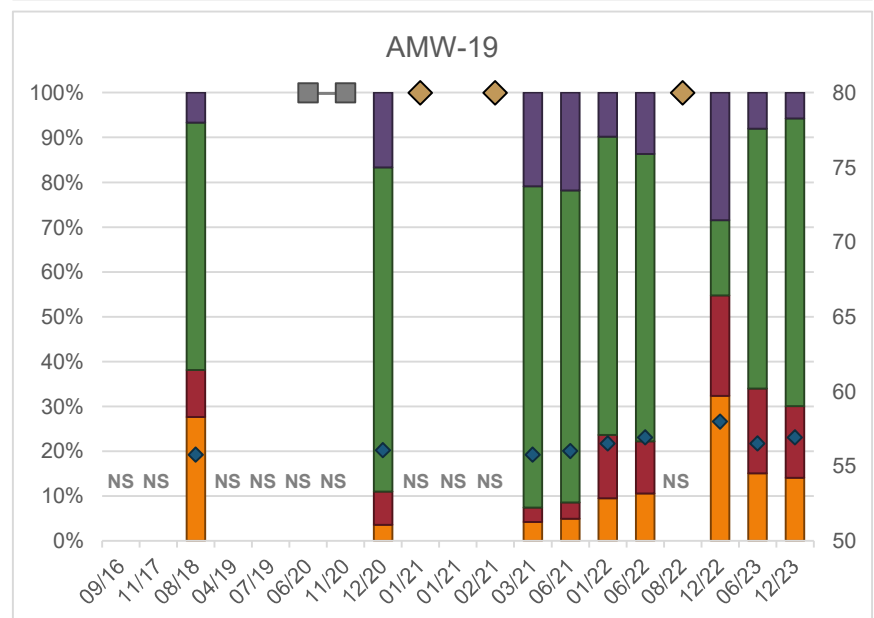
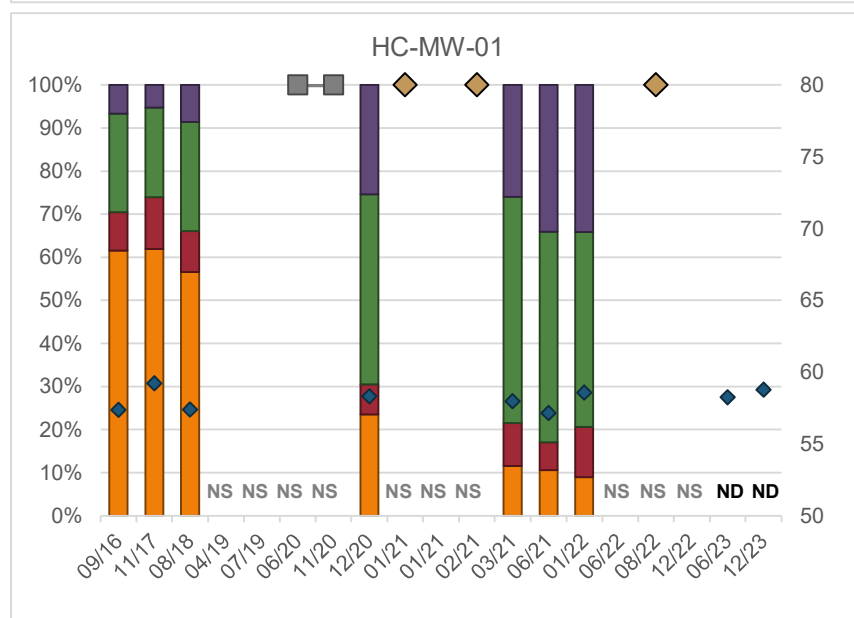
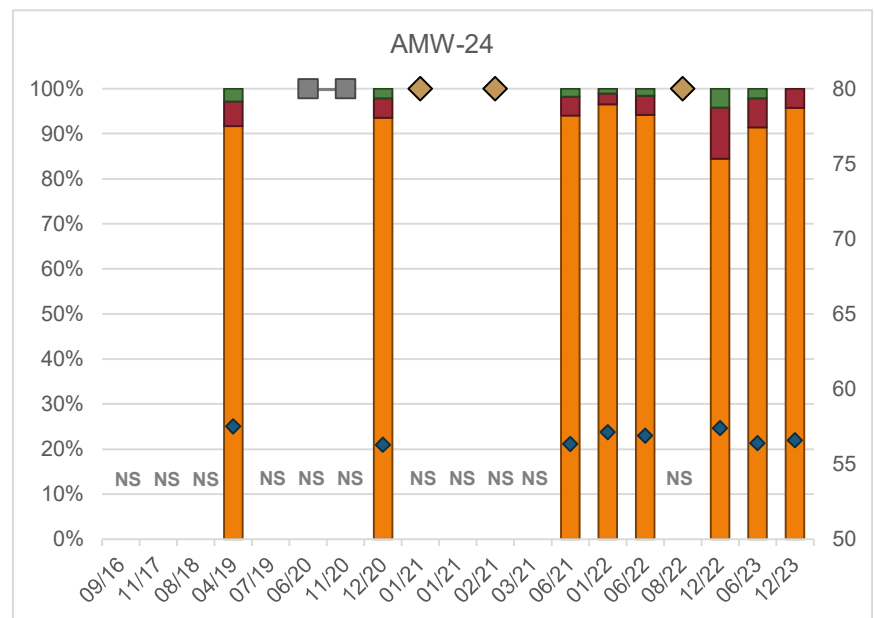
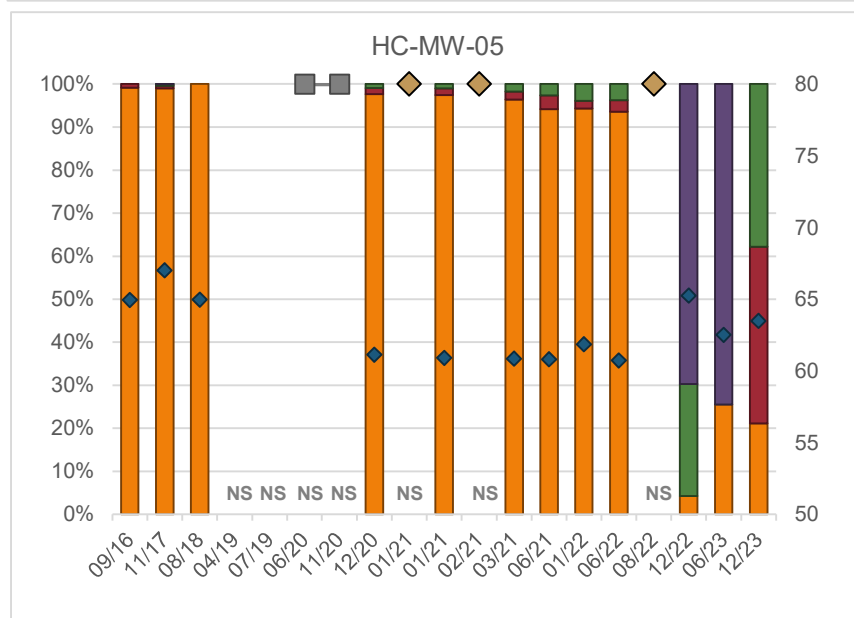
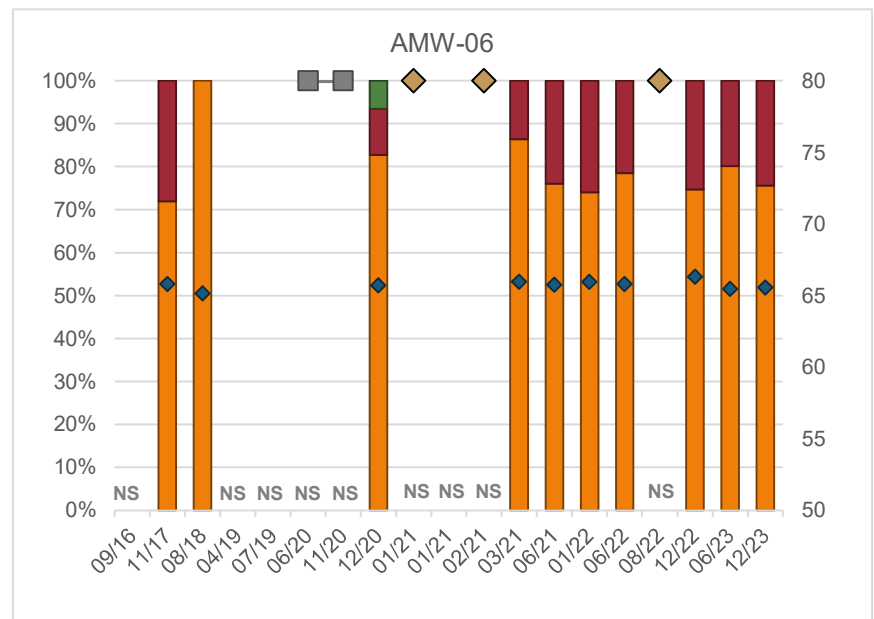
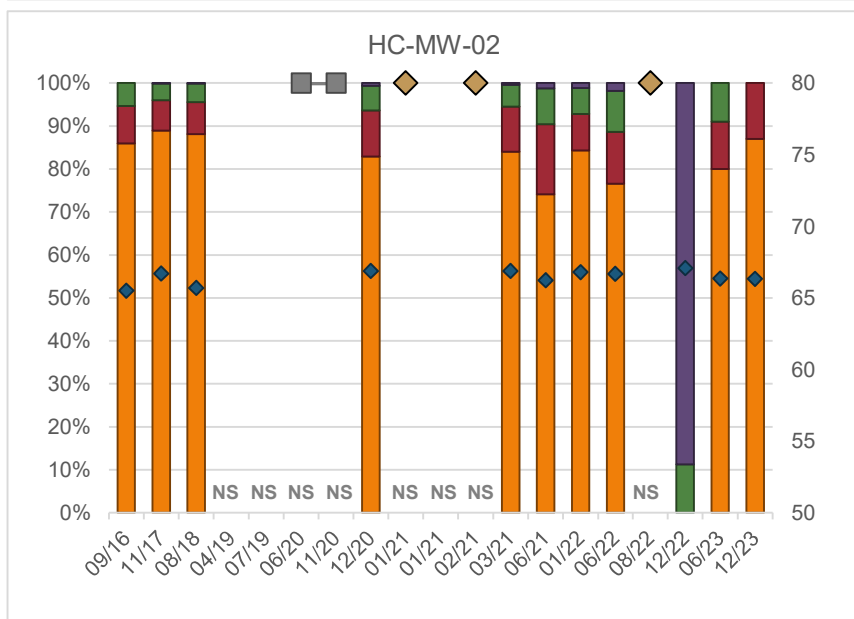
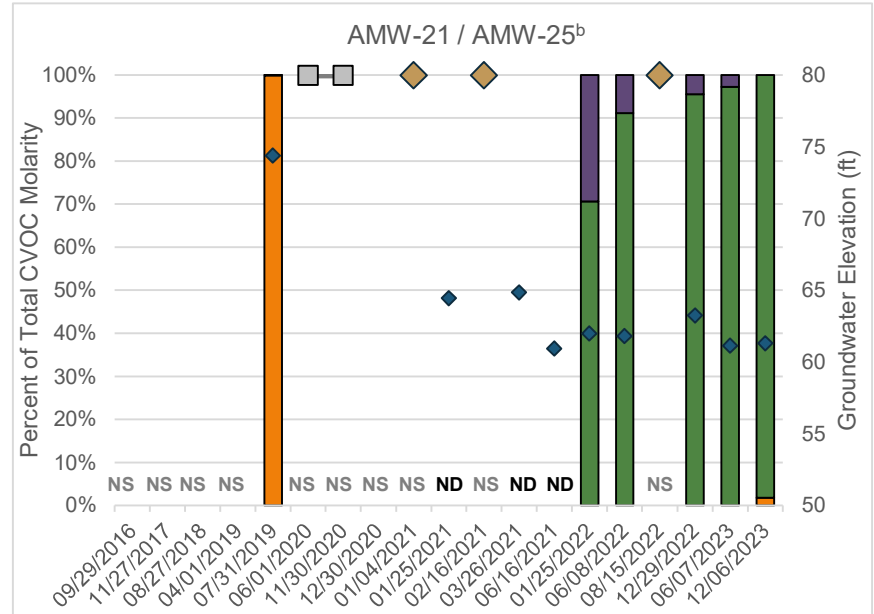
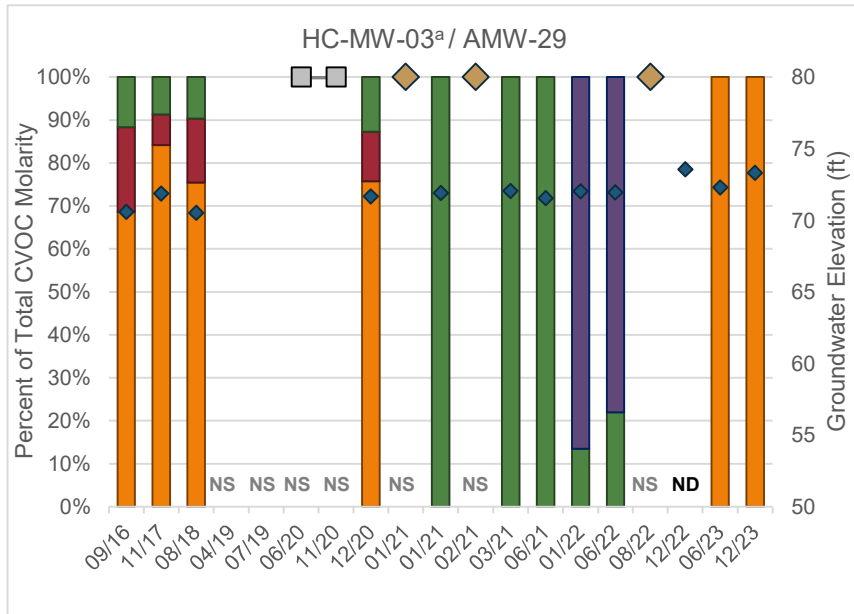
Project No.160324, Seattle, Washington

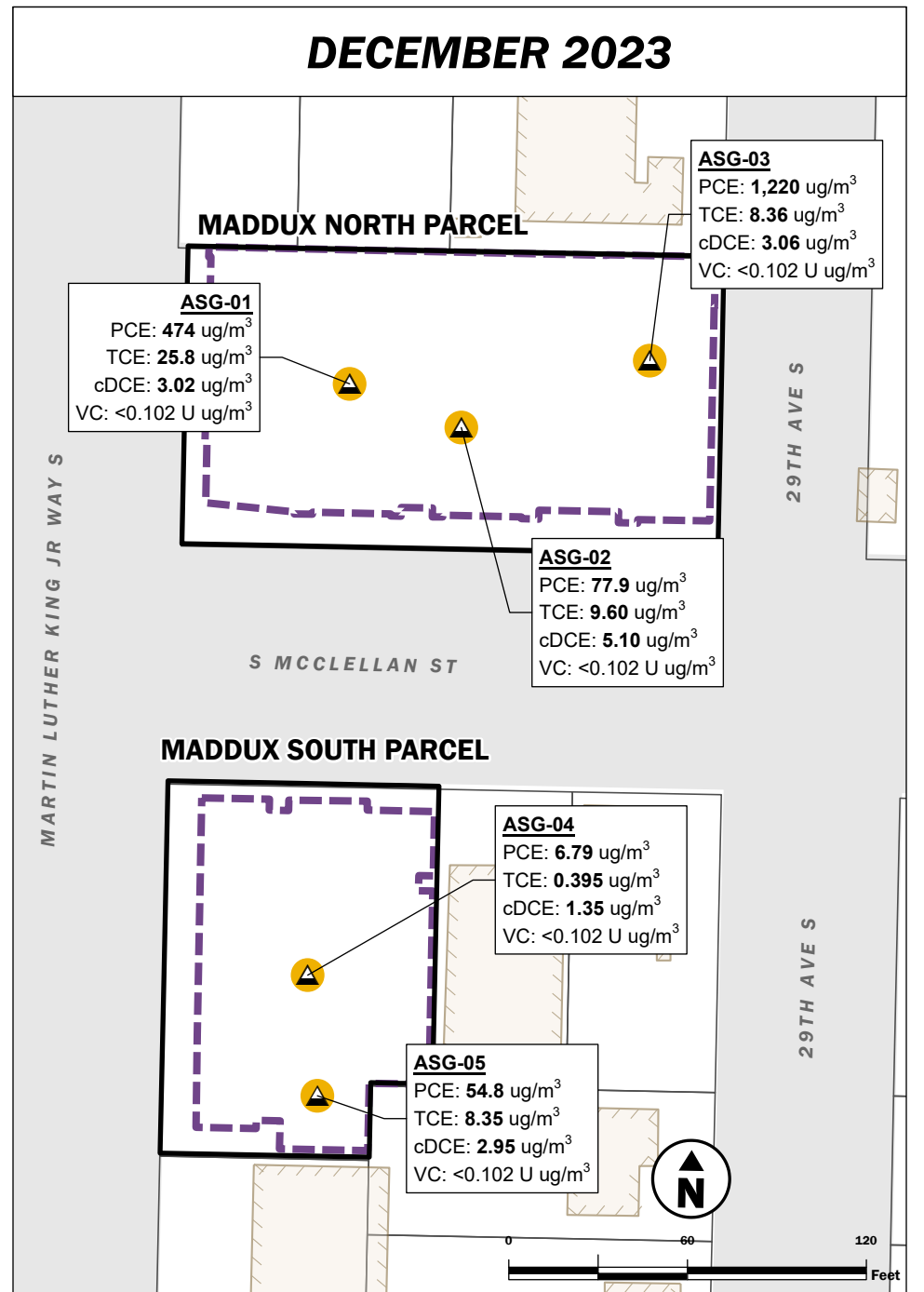
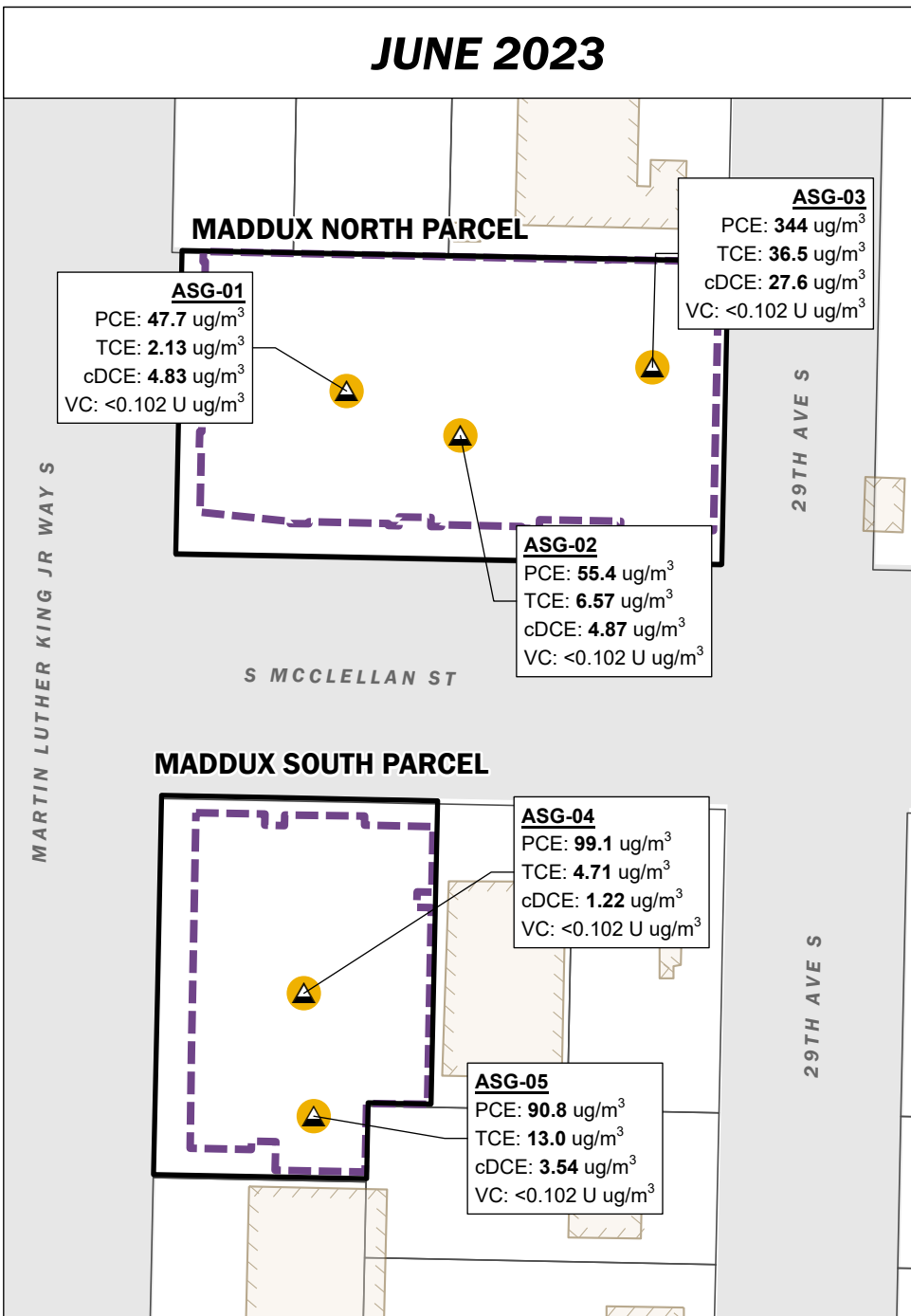
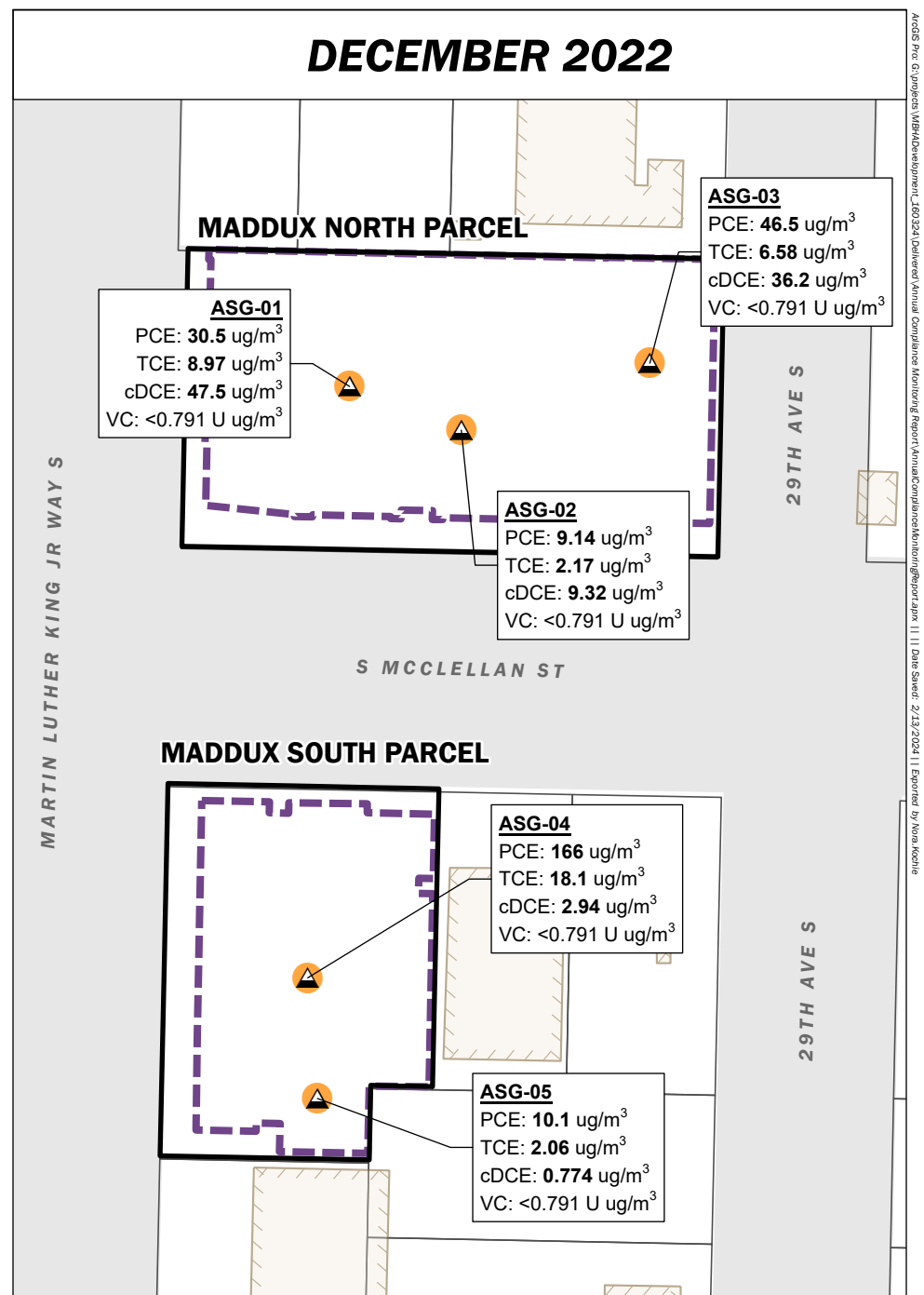
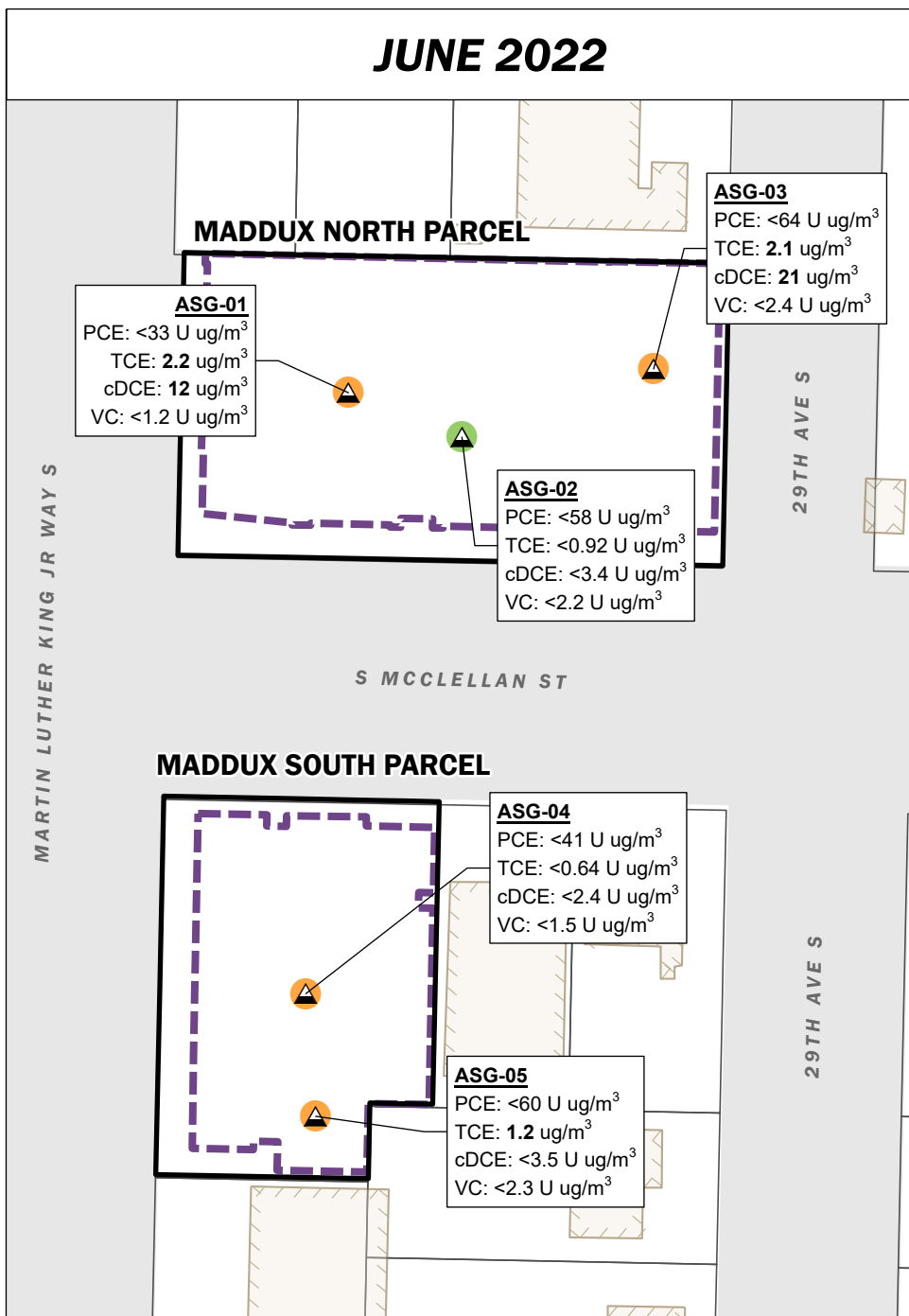
**Legend**

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

**Notes**

- <sup>a</sup> HC-MW-03 was decommissioned and replaced with AMW-29
- <sup>b</sup> AMW-21 was decommissioned and replaced with AMW-25





**▲** Soil Gas Sample Location

**●** COCs detected at concentrations below Site Specific Cleanup Levels

**●** COCs not detected

**▭** Subject Property

**▭** Maddux Building Footprint

**▭** Building Footprint

**▭** Tax Parcel

Notes:

1. ug/m<sup>3</sup> = micrograms per cubic meter
2. cDCE cis-1,2-Dichloroethene
3. PCE = Tetrachloroethene
4. TCE = Trichloroethene
5. VC = Vinyl Chloride
6. cVOCs = Chlorinated Volatile Organic Compounds
7. TPH = Total Petroleum Hydrocarbons
8. COCs = Contaminants of Concern
9. Soil gas COCs for Maddux North include cVOCs and for Maddux South include cVOCs and TPH

Sample ID

**ASG-03**

PCE: <64 U ug/m<sup>3</sup>

TCE: 2.1 ug/m<sup>3</sup>

cDCE: 21 ug/m<sup>3</sup>

VC: <2.4 U ug/m<sup>3</sup>

Result Value

## Soil Gas Concentrations (2022 - 2023)

Annual Compliance Monitoring Report  
Mount Baker Properties Site  
Seattle, Washington

<p>PROJECT NO. AS160324N</p>	<p>BY: AJY / DJM / NLK</p> <p>REVISED BY: --- / ---</p>	<p>FIGURE NO. <b>11</b></p>
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Data source credits: None | Basemap Service Layer Credits: NA

ASPECT PROJECT: 160324N/Development/160324N/Annual Compliance Monitoring Report/Annual Compliance Monitoring Report.aprx | | Date Saved: 2/13/2024 | Exported by: Kora Kocher

## **APPENDIX A**

### **Laboratory Analytical Reports**



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

**Aspect Consulting**  
Kendra Pivaroff-Ward  
710 2nd Ave, Suite 550  
Seattle, WA 98104

**RE: Maddux**  
**Work Order Number: 2306098**

June 14, 2023

**Attention Kendra Pivaroff-Ward:**

Fremont Analytical, Inc. received 6 sample(s) on 6/7/2023 for the analyses presented in the following report.

***Helium by GC/TCD***  
***Petroleum Fractionation by EPA Method TO-15***  
***Volatile Organic Compounds by EPA Method TO-15***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager

**CC:**  
Andrew Yonkofski

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 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

[www.fremontanalytical.com](http://www.fremontanalytical.com)



Date: 06/14/2023

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**CLIENT:** Aspect Consulting  
**Project:** Maddux  
**Work Order:** 2306098

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2306098-001	ASG-03-20230607	06/07/2023 10:53 AM	06/07/2023 5:38 PM
2306098-002	ASG-05-20230607	06/07/2023 12:56 PM	06/07/2023 5:38 PM
2306098-003	ASG-02-20230607	06/07/2023 3:21 PM	06/07/2023 5:38 PM
2306098-004	ASG-01-20230607	06/07/2023 10:12 AM	06/07/2023 5:38 PM
2306098-005	ASG-FD3-060723	06/07/2023 1:14 AM	06/07/2023 5:38 PM
2306098-006	ASG-04-20230607	06/07/2023 12:21 PM	06/07/2023 5:38 PM

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

---

**CLIENT:** Aspect Consulting

**Project:** Maddux

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Air samples are reported in ppbv and ug/m3.

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 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.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

---

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



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 10:53:00 AM

**Project:** Maddux

**Lab ID:** 2306098-001

**Matrix:** Soil Gas

**Client Sample ID:** ASG-03-20230607

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

**Helium by GC/TCD**

Batch ID: R84676      Analyst: LB

Helium	ND	0.200		%	1	6/13/2023 12:26:00 PM
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**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 12:56:00 PM

**Project:** Maddux

**Lab ID:** 2306098-002

**Matrix:** Soil Gas

**Client Sample ID:** ASG-05-20230607

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

**Helium by GC/TCD**

Batch ID: R84676      Analyst: LB

Helium	ND	0.400	D	%	2	6/13/2023 12:34:00 PM
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**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 3:21:00 PM

**Project:** Maddux

**Lab ID:** 2306098-003

**Matrix:** Soil Gas

**Client Sample ID:** ASG-02-20230607

**Analyses**

**Result**

**RL**

**Qual**

**Units**

**DF**

**Date Analyzed**

**Helium by GC/TCD**

Batch ID: R84676

Analyst: LB

Helium

ND

0.400

D

%

2

6/13/2023 12:39:00 PM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 10:12:00 AM

**Project:** Maddux

**Lab ID:** 2306098-004

**Matrix:** Soil Gas

**Client Sample ID:** ASG-01-20230607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Helium by GC/TCD

Batch ID: R84676 Analyst: LB

Helium	1.20	0.400	D	%	2	6/13/2023 12:42:00 PM
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**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 1:14:00 AM

**Project:** Maddux

**Lab ID:** 2306098-005

**Matrix:** Soil Gas

**Client Sample ID:** ASG-FD3-060723

**Analyses**

**Result**

**RL**

**Qual**

**Units**

**DF**

**Date Analyzed**

**Helium by GC/TCD**

Batch ID: R84676

Analyst: LB

Helium

ND

0.300

D

%

1.5

6/13/2023 12:59:00 PM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 12:21:00 PM

**Project:** Maddux

**Lab ID:** 2306098-006

**Matrix:** Soil Gas

**Client Sample ID:** ASG-04-20230607

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

**Helium by GC/TCD**

Batch ID: R84676      Analyst: LB

Helium	ND	0.400	D	%	2	6/13/2023 1:03:00 PM
--------	----	-------	---	---	---	----------------------



**Client:** Aspect Consulting  
**WorkOrder:** 2306098  
**Project:** Maddux

**Client Sample ID:** ASG-03-20230607  
**Lab ID:** 2306098-001A  
**Sample Type:** Summa Canister

**Date Sampled:** 6/7/2023  
**Date Received:** 6/7/2023

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds by EPA Method TO-15</u>								
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	06/09/2023	LB
cis-1,2-Dichloroethene	6.96	27.6	0.200	0.793		EPA-TO-15	06/09/2023	LB
Tetrachloroethene (PCE)	50.7	344	0.0400	0.271		EPA-TO-15	06/09/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	06/09/2023	LB
Trichloroethene (TCE)	6.80	36.5	0.0400	0.215		EPA-TO-15	06/09/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	06/09/2023	LB
Surr: 4-Bromofluorobenzene	95.0 %Rec	--	70-130	--		EPA-TO-15	06/09/2023	LB



**Client:** Aspect Consulting

**WorkOrder:** 2306098

**Project:** Maddux

**Client Sample ID:** ASG-05-20230607

**Date Sampled:** 6/7/2023

**Lab ID:** 2306098-002A

**Date Received:** 6/7/2023

**Sample Type:** Summa Canister

Analyte	Concentration	Reporting Limit	Qual	Method	Date/Analyst
<u>Petroleum Fractionation by EPA Method TO-15</u>					
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )	
Aliphatic Hydrocarbon (EC5-8)	<30.0	<114	30.0	114	EPA-TO-15 06/09/2023 LB
Aliphatic Hydrocarbon (EC9-12)	<20.0	<118	20.0	118	EPA-TO-15 06/09/2023 LB
Aromatic Hydrocarbon (EC9-10)	5.64	28.4	5.00	25.2	EPA-TO-15 06/09/2023 LB
Surr: 4-Bromofluorobenzene	100 %Rec	--	70-130	--	EPA-TO-15 06/09/2023 LB
<u>Volatile Organic Compounds by EPA Method TO-15</u>					
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )	
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	EPA-TO-15 06/09/2023 LB
Benzene	0.257	0.822	0.0400	0.128	EPA-TO-15 06/09/2023 LB
cis-1,2-Dichloroethene	0.893	3.54	0.200	0.793	EPA-TO-15 06/09/2023 LB
Ethylbenzene	1.64	7.13	0.600	2.61	EPA-TO-15 06/09/2023 LB
m,p-Xylene	3.91	17.0	1.20	5.21	EPA-TO-15 06/09/2023 LB
Naphthalene	0.283	1.49	0.0560	0.294	EPA-TO-15 06/09/2023 LB
o-Xylene	1.83	7.94	0.400	1.74	EPA-TO-15 06/09/2023 LB
Tetrachloroethene (PCE)	13.4	90.8	0.0400	0.271	EPA-TO-15 06/09/2023 LB
Toluene	3.66	13.8	0.200	0.754	EPA-TO-15 06/09/2023 LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	EPA-TO-15 06/09/2023 LB
Trichloroethene (TCE)	2.42	13.0	0.0400	0.215	EPA-TO-15 06/09/2023 LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	EPA-TO-15 06/09/2023 LB
Surr: 4-Bromofluorobenzene	103 %Rec	--	70-130	--	EPA-TO-15 06/09/2023 LB



**Client:** Aspect Consulting

**WorkOrder:** 2306098

**Project:** Maddux

**Client Sample ID:** ASG-02-20230607

**Date Sampled:** 6/7/2023

**Lab ID:** 2306098-003A

**Date Received:** 6/7/2023

**Sample Type:** Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds by EPA Method TO-15</u>								
	<b>(ppbv)</b>	<b>(ug/m<sup>3</sup>)</b>	<b>(ppbv)</b>	<b>(ug/m<sup>3</sup>)</b>				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	06/09/2023	LB
cis-1,2-Dichloroethene	1.23	4.87	0.200	0.793		EPA-TO-15	06/09/2023	LB
Tetrachloroethene (PCE)	8.16	55.4	0.0400	0.271		EPA-TO-15	06/09/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	06/09/2023	LB
Trichloroethene (TCE)	1.22	6.57	0.0400	0.215		EPA-TO-15	06/09/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	06/09/2023	LB
Surr: 4-Bromofluorobenzene	101 %Rec	--	70-130	--		EPA-TO-15	06/09/2023	LB



**Client:** Aspect Consulting

**WorkOrder:** 2306098

**Project:** Maddux

**Client Sample ID:** ASG-01-20230607

**Date Sampled:** 6/7/2023

**Lab ID:** 2306098-004A

**Date Received:** 6/7/2023

**Sample Type:** Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds by EPA Method TO-15</u>								
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	06/09/2023	LB
cis-1,2-Dichloroethene	1.22	4.83	0.200	0.793		EPA-TO-15	06/09/2023	LB
Tetrachloroethene (PCE)	7.03	47.7	0.0400	0.271		EPA-TO-15	06/09/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38		EPA-TO-15	06/09/2023	LB
Trichloroethene (TCE)	0.397	2.13	0.0400	0.215		EPA-TO-15	06/09/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102		EPA-TO-15	06/09/2023	LB
Surr: 4-Bromofluorobenzene	98.2 %Rec	--	70-130	--		EPA-TO-15	06/09/2023	LB



**Client:** Aspect Consulting

**WorkOrder:** 2306098

**Project:** Maddux

**Client Sample ID:** ASG-FD3-060723

**Date Sampled:** 6/7/2023

**Lab ID:** 2306098-005A

**Date Received:** 6/7/2023

**Sample Type:** Summa Canister

Analyte	Concentration	Reporting Limit	Qual	Method	Date/Analyst
<u>Petroleum Fractionation by EPA Method TO-15</u>					
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )	
Aliphatic Hydrocarbon (EC5-8)	<30.0	<114	30.0	114	EPA-TO-15 06/09/2023 LB
Aliphatic Hydrocarbon (EC9-12)	<20.0	<118	20.0	118	EPA-TO-15 06/09/2023 LB
Aromatic Hydrocarbon (EC9-10)	5.22	26.2	5.00	25.2	EPA-TO-15 06/09/2023 LB
Surr: 4-Bromofluorobenzene	92.1 %Rec	--	70-130	--	EPA-TO-15 06/09/2023 LB
<u>Volatile Organic Compounds by EPA Method TO-15</u>					
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )	
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	EPA-TO-15 06/09/2023 LB
Benzene	0.347	1.11	0.0400	0.128	EPA-TO-15 06/09/2023 LB
cis-1,2-Dichloroethene	0.863	3.42	0.200	0.793	EPA-TO-15 06/09/2023 LB
Ethylbenzene	1.48	6.44	0.600	2.61	EPA-TO-15 06/09/2023 LB
m,p-Xylene	3.57	15.5	1.20	5.21	EPA-TO-15 06/09/2023 LB
Naphthalene	0.249	1.30	0.0560	0.294	EPA-TO-15 06/09/2023 LB
o-Xylene	1.65	7.16	0.400	1.74	EPA-TO-15 06/09/2023 LB
Tetrachloroethene (PCE)	13.0	88.4	0.0400	0.271	EPA-TO-15 06/09/2023 LB
Toluene	3.54	13.3	0.200	0.754	EPA-TO-15 06/09/2023 LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	EPA-TO-15 06/09/2023 LB
Trichloroethene (TCE)	2.24	12.0	0.0400	0.215	EPA-TO-15 06/09/2023 LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	EPA-TO-15 06/09/2023 LB
Surr: 4-Bromofluorobenzene	94.4 %Rec	--	70-130	--	EPA-TO-15 06/09/2023 LB



**Client:** Aspect Consulting

**WorkOrder:** 2306098

**Project:** Maddux

**Client Sample ID:** ASG-04-20230607

**Date Sampled:** 6/7/2023

**Lab ID:** 2306098-006A

**Date Received:** 6/7/2023

**Sample Type:** Summa Canister

Analyte	Concentration	Reporting Limit	Qual	Method	Date/Analyst
<u>Petroleum Fractionation by EPA Method TO-15</u>					
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )	
Aliphatic Hydrocarbon (EC5-8)	39.9	152	30.0	114	EPA-TO-15 06/09/2023 LB
Aliphatic Hydrocarbon (EC9-12)	<20.0	<118	20.0	118	EPA-TO-15 06/09/2023 LB
Aromatic Hydrocarbon (EC9-10)	11.2	56.2	5.00	25.2	EPA-TO-15 06/09/2023 LB
Surr: 4-Bromofluorobenzene	92.8 %Rec	--	70-130	--	EPA-TO-15 06/09/2023 LB
<u>Volatile Organic Compounds by EPA Method TO-15</u>					
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )	
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	EPA-TO-15 06/09/2023 LB
Benzene	0.238	0.761	0.0400	0.128	EPA-TO-15 06/09/2023 LB
cis-1,2-Dichloroethene	0.307	1.22	0.200	0.793	EPA-TO-15 06/09/2023 LB
Ethylbenzene	1.26	5.48	0.600	2.61	EPA-TO-15 06/09/2023 LB
m,p-Xylene	2.98	12.9	1.20	5.21	EPA-TO-15 06/09/2023 LB
Naphthalene	0.275	1.44	0.0560	0.294	EPA-TO-15 06/09/2023 LB
o-Xylene	1.38	5.98	0.400	1.74	EPA-TO-15 06/09/2023 LB
Tetrachloroethene (PCE)	14.6	99.1	0.0400	0.271	EPA-TO-15 06/09/2023 LB
Toluene	4.85	18.3	0.200	0.754	EPA-TO-15 06/09/2023 LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	EPA-TO-15 06/09/2023 LB
Trichloroethene (TCE)	0.876	4.71	0.0400	0.215	EPA-TO-15 06/09/2023 LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	EPA-TO-15 06/09/2023 LB
Surr: 4-Bromofluorobenzene	95.2 %Rec	--	70-130	--	EPA-TO-15 06/09/2023 LB

**Work Order:** 2306098  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Petroleum Fractionation by EPA Method TO-15**

Sample ID: <b>LCS-R84674</b>	SampType: <b>LCS</b>	Units: <b>ppbv</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84674</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R84674</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1767231</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (EC5-8)	13.3	7.50	12.00	0	111	70	130				
Aliphatic Hydrocarbon (EC9-12)	13.3	5.00	12.00	0	111	70	130				
Aromatic Hydrocarbon (EC9-10)	10.0	1.25	10.00	0	100	70	130				
Surr: 4-Bromofluorobenzene	3.79		4.000		94.7	70	130				

Sample ID: <b>MB-R84674</b>	SampType: <b>MBLK</b>	Units: <b>ppbv</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84674</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R84674</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1767232</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (EC5-8)	ND	7.50									
Aliphatic Hydrocarbon (EC9-12)	ND	5.00									
Aromatic Hydrocarbon (EC9-10)	ND	1.25									
Surr: 4-Bromofluorobenzene	3.39		4.000		84.9	70	130				

Sample ID: <b>2306098-001AREP</b>	SampType: <b>REP</b>	Units: <b>ppbv</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84674</b>							
Client ID: <b>ASG-03-20230607</b>	Batch ID: <b>R84674</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1767234</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (EC5-8)	ND	30.0						0		25	
Aliphatic Hydrocarbon (EC9-12)	ND	20.0						0		25	
Aromatic Hydrocarbon (EC9-10)	9.98	5.00						9.703	2.80	25	
Surr: 4-Bromofluorobenzene	14.9		16.00		93.4	70	130		0		

**Work Order:** 2306098  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Helium by GC/TCD**

Sample ID: <b>LCS-R84676</b>		SampType: <b>LCS</b>			Units: %			Prep Date: <b>6/13/2023</b>		RunNo: <b>84676</b>		
Client ID: <b>LCSW</b>		Batch ID: <b>R84676</b>						Analysis Date: <b>6/13/2023</b>		SeqNo: <b>1767283</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Helium	5.15	0.200	5.000	0	103	80	120					

Sample ID: <b>MB-R84676</b>		SampType: <b>MBLK</b>			Units: %			Prep Date: <b>6/13/2023</b>		RunNo: <b>84676</b>		
Client ID: <b>MBLKW</b>		Batch ID: <b>R84676</b>						Analysis Date: <b>6/13/2023</b>		SeqNo: <b>1767284</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Helium	ND	0.200										

Sample ID: <b>2306098-001AREP</b>		SampType: <b>REP</b>			Units: %			Prep Date: <b>6/13/2023</b>		RunNo: <b>84676</b>		
Client ID: <b>ASG-03-20230607</b>		Batch ID: <b>R84676</b>						Analysis Date: <b>6/13/2023</b>		SeqNo: <b>1767277</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Helium	ND	0.200						0		30		

Work Order: 2306098  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method TO-15**

Sample ID: <b>LCS-R84671</b>	SampType: <b>LCS</b>	Units: <b>ppbv</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84671</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R84671</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1767323</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.97	0.0100	2.000	0	98.4	70	130				
1,1-Dichloroethene (DCE)	2.00	0.0100	2.000	0	100	70	130				
trans-1,2-Dichloroethene	1.87	0.150	2.000	0	93.6	70	130				
cis-1,2-Dichloroethene	1.90	0.0500	2.000	0	95.1	70	130				
Benzene	1.94	0.0100	2.000	0	97.0	70	130				
Trichloroethene (TCE)	1.76	0.0100	2.000	0	88.0	70	130				
Toluene	1.77	0.0500	2.000	0	88.5	70	130				
Tetrachloroethene (PCE)	1.83	0.0100	2.000	0	91.3	70	130				
Ethylbenzene	1.75	0.150	2.000	0	87.6	70	130				
m,p-Xylene	3.48	0.300	4.000	0	87.0	70	130				
o-Xylene	2.13	0.100	2.000	0	106	70	130				
Naphthalene	2.19	0.0140	2.000	0	109	70	130				
Surr: 4-Bromofluorobenzene	4.10		4.000		103	70	130				

Sample ID: <b>MB-R84671</b>	SampType: <b>MBLK</b>	Units: <b>ppbv</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84671</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R84671</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1767176</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0100									
1,1-Dichloroethene (DCE)	ND	0.0100									
trans-1,2-Dichloroethene	ND	0.150									
cis-1,2-Dichloroethene	ND	0.0500									
Benzene	ND	0.0100									
Trichloroethene (TCE)	ND	0.0100									
Toluene	0.116	0.0500									
Tetrachloroethene (PCE)	ND	0.0100									
Ethylbenzene	ND	0.150									
m,p-Xylene	ND	0.300									
o-Xylene	ND	0.100									
Naphthalene	ND	0.0140									
Surr: 4-Bromofluorobenzene	3.48		4.000		87.1	70	130				

Work Order: 2306098  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method TO-15**

Sample ID: <b>MB-R84671</b>	SampType: <b>MBLK</b>	Units: <b>ppbv</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84671</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R84671</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1767176</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: <b>2306098-001AREP</b>	SampType: <b>REP</b>	Units: <b>ppbv</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84671</b>							
Client ID: <b>ASG-03-20230607</b>	Batch ID: <b>R84671</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1767178</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0400						0		25	
1,1-Dichloroethene (DCE)	ND	0.0400						0		25	
trans-1,2-Dichloroethene	ND	0.600						0		25	
cis-1,2-Dichloroethene	6.94	0.200						6.965	0.316	25	
Benzene	0.326	0.0400						0.3057	6.38	25	
Trichloroethene (TCE)	6.70	0.0400						6.797	1.43	25	
Toluene	3.26	0.200						3.322	1.79	25	
Tetrachloroethene (PCE)	47.3	0.0400						50.70	7.02	25	
Ethylbenzene	1.71	0.600						1.728	0.760	25	
m,p-Xylene	4.14	1.20						4.003	3.28	25	
o-Xylene	1.99	0.400						1.859	6.61	25	
Naphthalene	0.473	0.0560						0.4950	4.45	25	
Surr: 4-Bromofluorobenzene	15.3		16.00		95.8	70	130		0		

Client Name: AC	Work Order Number: 2306098
Logged by: Clare Griggs	Date Received: 6/7/2023 5:38:00 PM

**Chain of Custody**

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

**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 holding times 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:	<input type="text" value="Ashley Provow"/>	Date:	<input type="text" value="6/8/2023"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Confirming methods."/>		
Client Instructions:	<input type="text" value="See revised COC."/>		

17. Additional remarks:

**Item Information**

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



**Fremont**  
Analytical

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

**Air Chain of Custody Record & Laboratory Services Agreement**

Date: 6/7/23 Page: 1 of 2

Laboratory Project No (Internal): 2306098

Special Remarks:

Client: ASPECT

Project Name: Maddux

Address: 210 2nd Ave

Project No: 160324

City, State, Zip: Seattle

Location:

Telephone:

Collected by: Ashley Prowse

Fax:

Reports to (PM): A. Yankofsky, K. Pivaroff-Ward

Air samples are disposed of one week after report is submitted to client unless otherwise requested.  OK to Dispose  Hold (fees may apply)

Email (PM):

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure ("Hg)	Sample End Date & Time	Field Final Sample Pressure ("Hg)	Analysis										Comments	Internal Final Pressure ("Hg)			
									Full lit VOCs TO15	Select VOCs TO15 ***	APH TO15	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod	VOCs 8260	GX/BTEX 8260	Naphthalene					
<del>AS61-03-20230607</del> AS61-03-20230607	11401	G6	1L	150 cc/min	6/7/23	30	6/7/23	6														10	
	FC-17				1040		1050																
AS61-05-20230607	11012	↓	1L	150 cc/min	6/7/23	30	6/7/23	6														NR 6/7	4
	FC-22				1240		1250																
AS61-02-20230607	11014	↓	1L	150 cc/min	6/7/23	30	6/7/23	6														NR 6/7	4
	FC-19				1510		1521																
AS61-01-20230607	11409	↓	1L	150 cc/min	6/7/23	30	6/7/23	6														4	
	FC-6				1000		1012																
AS61-FD3-060723	11398	↓	1L	150 cc/min	6/7/23	30	6/7/23	10														pressure would not go below 10" Hg	NR 6/7 8
	FC-28				0100		0114																

\* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE L = Landfill D = Digester

\*\* Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

\*\*\* Select one:  BTEXN & APH  PCE & Breakdown  Other, specify in comments

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 Ashley Prowse Date/Time 6/7/23 17:32

Received (Signature) \_\_\_\_\_ Print Name Nate R.S Date/Time 6/7/23 17:38

Relinquished (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_

Received (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_



**Fremont**  
Analytical

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

# Air Chain of Custody Record & Laboratory Services Agreement

Date: \_\_\_\_\_ Page: 2 of 2

Laboratory Project No (Internal): **2306098**

Special Remarks:

Client: ASPECT

Project Name:

Address:

Project No:

City, State, Zip:

Location:

Telephone:

Collected by:

Reports to (PM):

Air samples are disposed of one week after report is submitted to client unless otherwise requested.  OK to Dispose  Hold (fees may apply)

Fax:

Email (PM):

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (" Hg)	Analysis										Comments	Internal Final Pressure ("Hg)				
									Full list VOCs TO15	Select VOCs TO15 ***	APH TO15	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod	VOCs 8260	GC/BTEX 8260	NA Phthalate						
<del>AS6A-04-20230001</del> AS6A-04-20230007	4689 FC-25	Soil	1L	150 cc/min	07/23 1215	29	07/23 1221	6				X					X	X	X	X				10

\* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE L = Landfill D = Digester

\*\* Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

\*\*\* Select one:  BTEXN & APH  PCE & Breakdown  Other, specify in comments

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 \_\_\_\_\_

Relinquished (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_

Received (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_



**Fremont**  
Analytical

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

**Air Chain of Custody Record & Laboratory Services Agreement**

Date: 6/7/23 Page: 1 of 2

Laboratory Project No (Internal): 2306098

Special Remarks:  
\*cVOCs & BTEXN by TO-15, edit 6/8/23 -CG

Client: ASPECT

Project Name: Maddux

Address: 210 2nd Ave

Project No: 160324

City, State, Zip: Seattle

Location:

Telephone:

Collected by: Ashley Prower

Fax:

Reports to (PM): A. Yankofsky, K. Pivaroff-Ward

Air samples are disposed of one week after report is submitted to client unless otherwise requested.  OK to Dispose  Hold (fees may apply)

Email (PM):

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure ("Hg)	Sample End Date & Time	Field Final Sample Pressure ("Hg)	Analysis										Comments	Final Pressure ("Hg)		
									Full lit VOCs TO15	Select VOCs TO15 ***	APH TO15	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod	cVOCs 8260	GX/BTEX 8260	Naphthalene				
<del>AS61-03-20230607</del> AS61-03-20230607	11401	Cb	1L	150 cc/min	6/7/23	30	6/7/23	6														10
	FC-17				1040		1050											X	X			
AS61-05-20230607	11012	↓	1L	150 cc/min	6/7/23	30	6/7/23	6			X											NR 6/7 7 4
	FC-22				1240		1250													X	X	
AS61-02-20230607	11014	↓	1L	150 cc/min	6/7/23	30	6/7/23	6														NR 6/7 7 4
	FC-19				1510		1521															
AS61-01-20230607	11409	↓	1L	150 cc/min	6/7/23	30	6/7/23	6														4
	FC-6				1000		1012															
AS61-FD3-060723	11398	↓	1L	150 cc/min	6/7/23	30	6/7/23	10			X											pressure would not go below 10" Hg NR 6/7 8
	FC-28				0100		0114															

\* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE L = Landfill D = Digester  
 \*\* Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag  
 \*\*\* Select one:  BTEXN & APH  PCE & Breakdown  Other, specify in comments

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: Ashley Prower Date/Time: 6/7/23 17:32

Received (Signature) \_\_\_\_\_ Print Name: Nate R.S Date/Time: 6/7/23 17:38

Relinquished (Signature) \_\_\_\_\_ Print Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received (Signature) \_\_\_\_\_ Print Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_



3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

# Air Chain of Custody Record & Laboratory Services Agreement

Date: \_\_\_\_\_ Page: 2 of 2

Laboratory Project No (Internal): **2306098**

Special Remarks:

Client: ASPECT

Project Name:

Address:

Project No:

City, State, Zip:

Location:

Telephone:

Collected by:

Reports to (PM):

Air samples are disposed of one week after report is submitted to client unless otherwise requested.  OK to Dispose  Hold (fees may apply)

Fax:

Email (PM):

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (" Hg)	Analysis										Comments	Internal Final Pressure ("Hg)				
									Full list VOCs TO15	Select VOCs TO15 ***	APH TO15	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod	VOCs 8260	GX/BTEX 8260	NA Phthalate						
<del>AS6A-04-20230001</del> AS6A-04-20230007	4689 FC-25	Soil	1L	150 cc/min	6/7/23 12:15	2.9	6/7/23 12:21	6				X					X	X	X	X			10	

\* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE L = Landfill D = Digester  
 \*\* Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag  
 \*\*\* Select one:  BTEXN & APH  PCE & Breakdown  Other, specify in comments

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			x		
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		



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**  
**Work Order Number: 2306097**

June 19, 2023

**Attention Andrew Yonkofski:**

Fremont Analytical, Inc. received 34 sample(s) on 6/7/2023 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***  
***Dissolved Gases by RSK-175***  
***Dissolved Metals by EPA Method 200.8***  
***Gasoline by NWTPH-Gx***  
***Total Organic Carbon by SM 5310C***  
***Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager

**CC:**  
Jessica Smith  
John Strunk  
Kristin Beck

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 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



**CLIENT:** Aspect Consulting  
**Project:** Maddux  
**Work Order:** 2306097

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2306097-001	AMW-03-20230605	06/05/2023 5:11 PM	06/07/2023 5:38 PM
2306097-002	AMW-06-20230605	06/05/2023 3:13 PM	06/07/2023 5:38 PM
2306097-003	AMW-07-20230605	06/05/2023 1:59 PM	06/07/2023 5:38 PM
2306097-004	AMW-08-20230605	06/05/2023 1:24 PM	06/07/2023 5:38 PM
2306097-005	AMW-09-20230607	06/07/2023 12:43 PM	06/07/2023 5:38 PM
2306097-006	AMW-11-20230606	06/06/2023 4:35 PM	06/07/2023 5:38 PM
2306097-007	AMW-14-20230605	06/05/2023 1:35 PM	06/07/2023 5:38 PM
2306097-008	AMW-15-20230606	06/06/2023 5:20 PM	06/07/2023 5:38 PM
2306097-009	AMW-16-20230605	06/05/2023 1:00 PM	06/07/2023 5:38 PM
2306097-010	AMW-17-20230605	06/05/2023 10:54 AM	06/07/2023 5:38 PM
2306097-011	AMW-18-20230606	06/06/2023 2:00 PM	06/07/2023 5:38 PM
2306097-012	AMW-19-20230605	06/05/2023 11:41 AM	06/07/2023 5:38 PM
2306097-013	AMW-20-20230606	06/06/2023 11:05 AM	06/07/2023 5:38 PM
2306097-014	AMW-22-20230606	06/06/2023 10:05 AM	06/07/2023 5:38 PM
2306097-015	AMW-23-20230606	06/06/2023 5:45 PM	06/07/2023 5:38 PM
2306097-016	AMW-24-20230605	06/05/2023 4:01 PM	06/07/2023 5:38 PM
2306097-017	AMW-25-20230607	06/07/2023 10:12 AM	06/07/2023 5:38 PM
2306097-018	AMW-26-20230607	06/07/2023 3:37 PM	06/07/2023 5:38 PM
2306097-019	AMW-27-20230606	06/06/2023 2:35 PM	06/07/2023 5:38 PM
2306097-020	AMW-28-20230606	06/06/2023 12:00 PM	06/07/2023 5:38 PM
2306097-021	AMW-29-20230606	06/06/2023 12:59 PM	06/07/2023 5:38 PM
2306097-022	HC-MW-01-20230607	06/07/2023 11:01 AM	06/07/2023 5:38 PM
2306097-023	HC-MW-02-20230605	06/05/2023 12:40 PM	06/07/2023 5:38 PM
2306097-024	HC-MW-04-20230606	06/06/2023 9:21 AM	06/07/2023 5:38 PM
2306097-025	HC-MW-05-20230606	06/06/2023 3:57 PM	06/07/2023 5:38 PM
2306097-026	HC-MW-06-20230606	06/06/2023 12:05 PM	06/07/2023 5:38 PM
2306097-027	HC-MW-07-20230606	06/06/2023 11:08 AM	06/07/2023 5:38 PM
2306097-028	MW-05-20230606	06/06/2023 12:50 PM	06/07/2023 5:38 PM
2306097-029	MW-06-20230607	06/07/2023 1:46 PM	06/07/2023 5:38 PM
2306097-030	MW-07-20230607	06/07/2023 2:33 PM	06/07/2023 5:38 PM
2306097-031	MW-10-20230605	06/05/2023 12:05 PM	06/07/2023 5:38 PM
2306097-032	AMW-FD1-060623	06/06/2023 1:00 AM	06/07/2023 5:38 PM
2306097-033	Trip Blank	05/30/2023 2:00 PM	06/07/2023 5:38 PM
2306097-034	AMW-FD2-20230607	06/07/2023 12:00 AM	06/07/2023 5:38 PM

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

**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



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 5:11:00 PM

**Project:** Maddux

**Lab ID:** 2306097-001

**Matrix:** Water

**Client Sample ID:** AMW-03-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 7:40:03 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 7:40:03 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 7:40:03 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 7:40:03 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 7:40:03 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 7:40:03 AM
Surr: Dibromofluoromethane	90.0	80 - 120		%Rec	1	6/14/2023 7:40:03 AM
Surr: Toluene-d8	95.3	80 - 120		%Rec	1	6/14/2023 7:40:03 AM
Surr: 1-Bromo-4-fluorobenzene	96.7	80 - 120		%Rec	1	6/14/2023 7:40:03 AM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 3:13:00 PM

**Project:** Maddux

**Lab ID:** 2306097-002

**Matrix:** Water

**Client Sample ID:** AMW-06-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 8:40:22 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 8:40:22 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 8:40:22 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 8:40:22 AM
Trichloroethene (TCE)	0.654	0.400		µg/L	1	6/14/2023 8:40:22 AM
Tetrachloroethene (PCE)	3.34	0.350		µg/L	1	6/14/2023 8:40:22 AM
Surr: Dibromofluoromethane	91.6	80 - 120		%Rec	1	6/14/2023 8:40:22 AM
Surr: Toluene-d8	96.5	80 - 120		%Rec	1	6/14/2023 8:40:22 AM
Surr: 1-Bromo-4-fluorobenzene	96.3	80 - 120		%Rec	1	6/14/2023 8:40:22 AM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 1:59:00 PM

**Project:** Maddux

**Lab ID:** 2306097-003

**Matrix:** Water

**Client Sample ID:** AMW-07-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 9:10:31 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 9:10:31 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 9:10:31 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 9:10:31 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 9:10:31 AM
Tetrachloroethene (PCE)	0.436	0.350		µg/L	1	6/14/2023 9:10:31 AM
Surr: Dibromofluoromethane	91.6	80 - 120		%Rec	1	6/14/2023 9:10:31 AM
Surr: Toluene-d8	94.1	80 - 120		%Rec	1	6/14/2023 9:10:31 AM
Surr: 1-Bromo-4-fluorobenzene	96.2	80 - 120		%Rec	1	6/14/2023 9:10:31 AM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 1:24:00 PM

**Project:** Maddux

**Lab ID:** 2306097-004

**Matrix:** Water

**Client Sample ID:** AMW-08-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 10:10:51 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 10:10:51 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 10:10:51 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 10:10:51 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 10:10:51 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 10:10:51 AM
Surr: Dibromofluoromethane	90.1	80 - 120		%Rec	1	6/14/2023 10:10:51 AM
Surr: Toluene-d8	93.8	80 - 120		%Rec	1	6/14/2023 10:10:51 AM
Surr: 1-Bromo-4-fluorobenzene	97.3	80 - 120		%Rec	1	6/14/2023 10:10:51 AM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 12:43:00 PM

**Project:** Maddux

**Lab ID:** 2306097-005

**Matrix:** Water

**Client Sample ID:** AMW-09-20230607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 10:41:02 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 10:41:02 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 10:41:02 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 10:41:02 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 10:41:02 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 10:41:02 AM
Surr: Dibromofluoromethane	91.3	80 - 120		%Rec	1	6/14/2023 10:41:02 AM
Surr: Toluene-d8	94.6	80 - 120		%Rec	1	6/14/2023 10:41:02 AM
Surr: 1-Bromo-4-fluorobenzene	98.0	80 - 120		%Rec	1	6/14/2023 10:41:02 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 4:35:00 PM

**Project:** Maddux

**Lab ID:** 2306097-006

**Matrix:** Water

**Client Sample ID:** AMW-11-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	0.441	0.200		µg/L	1	6/14/2023 11:11:10 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 11:11:10 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 11:11:10 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 11:11:10 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 11:11:10 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 11:11:10 AM
Surr: Dibromofluoromethane	91.4	80 - 120		%Rec	1	6/14/2023 11:11:10 AM
Surr: Toluene-d8	95.0	80 - 120		%Rec	1	6/14/2023 11:11:10 AM
Surr: 1-Bromo-4-fluorobenzene	97.3	80 - 120		%Rec	1	6/14/2023 11:11:10 AM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 1:35:00 PM

**Project:** Maddux

**Lab ID:** 2306097-007

**Matrix:** Water

**Client Sample ID:** AMW-14-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 11:41:19 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 11:41:19 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 11:41:19 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 11:41:19 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 11:41:19 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 11:41:19 AM
Surr: Dibromofluoromethane	91.7	80 - 120		%Rec	1	6/14/2023 11:41:19 AM
Surr: Toluene-d8	94.9	80 - 120		%Rec	1	6/14/2023 11:41:19 AM
Surr: 1-Bromo-4-fluorobenzene	95.9	80 - 120		%Rec	1	6/14/2023 11:41:19 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 5:20:00 PM

**Project:** Maddux

**Lab ID:** 2306097-008

**Matrix:** Water

**Client Sample ID:** AMW-15-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	3.27	0.200		µg/L	1	6/14/2023 12:11:30 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 12:11:30 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 12:11:30 PM
cis-1,2-Dichloroethene	0.694	0.500		µg/L	1	6/14/2023 12:11:30 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 12:11:30 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 12:11:30 PM
Surr: Dibromofluoromethane	90.0	80 - 120		%Rec	1	6/14/2023 12:11:30 PM
Surr: Toluene-d8	93.6	80 - 120		%Rec	1	6/14/2023 12:11:30 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	80 - 120		%Rec	1	6/14/2023 12:11:30 PM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 1:00:00 PM

**Project:** Maddux

**Lab ID:** 2306097-009

**Matrix:** Water

**Client Sample ID:** AMW-16-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609

Analyst: AP

Diesel Range Organics	203	94.0		µg/L	1	6/12/2023 3:10:31 PM
Heavy Oil	ND	94.0		µg/L	1	6/12/2023 3:10:31 PM
Total Petroleum Hydrocarbons	203	188		µg/L	1	6/12/2023 3:10:31 PM
Surr: 2-Fluorobiphenyl	73.1	50 - 150		%Rec	1	6/12/2023 3:10:31 PM
Surr: o-Terphenyl	90.9	50 - 150		%Rec	1	6/12/2023 3:10:31 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 40623

Analyst: CC

Gasoline Range Organics	ND	50.0		µg/L	1	6/16/2023 3:47:38 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	6/16/2023 3:47:38 PM
Surr: 4-Bromofluorobenzene	98.6	65 - 135		%Rec	1	6/16/2023 3:47:38 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 12:41:38 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 12:41:38 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 12:41:38 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 12:41:38 PM
Benzene	ND	0.440		µg/L	1	6/14/2023 12:41:38 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 12:41:38 PM
Toluene	ND	1.00		µg/L	1	6/14/2023 12:41:38 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 12:41:38 PM
Ethylbenzene	ND	0.400		µg/L	1	6/14/2023 12:41:38 PM
m,p-Xylene	ND	1.00		µg/L	1	6/14/2023 12:41:38 PM
o-Xylene	ND	0.500		µg/L	1	6/14/2023 12:41:38 PM
Surr: Dibromofluoromethane	90.5	80 - 120		%Rec	1	6/14/2023 12:41:38 PM
Surr: Toluene-d8	94.1	80 - 120		%Rec	1	6/14/2023 12:41:38 PM
Surr: 1-Bromo-4-fluorobenzene	96.6	80 - 120		%Rec	1	6/14/2023 12:41:38 PM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 10:54:00 AM

**Project:** Maddux

**Lab ID:** 2306097-010

**Matrix:** Water

**Client Sample ID:** AMW-17-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609

Analyst: AP

Diesel Range Organics	366	95.1		µg/L	1	6/12/2023 3:21:36 PM
Heavy Oil	ND	95.1		µg/L	1	6/12/2023 3:21:36 PM
Total Petroleum Hydrocarbons	366	190		µg/L	1	6/12/2023 3:21:36 PM
Surr: 2-Fluorobiphenyl	83.3	50 - 150		%Rec	1	6/12/2023 3:21:36 PM
Surr: o-Terphenyl	96.7	50 - 150		%Rec	1	6/12/2023 3:21:36 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 40623

Analyst: CC

Gasoline Range Organics	162	50.0		µg/L	1	6/16/2023 4:17:46 PM
Surr: Toluene-d8	102	65 - 135		%Rec	1	6/16/2023 4:17:46 PM
Surr: 4-Bromofluorobenzene	97.3	65 - 135		%Rec	1	6/16/2023 4:17:46 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 1:11:48 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 1:11:48 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 1:11:48 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 1:11:48 PM
Benzene	ND	0.440		µg/L	1	6/14/2023 1:11:48 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 1:11:48 PM
Toluene	ND	1.00		µg/L	1	6/14/2023 1:11:48 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 1:11:48 PM
Ethylbenzene	ND	0.400		µg/L	1	6/14/2023 1:11:48 PM
m,p-Xylene	ND	1.00		µg/L	1	6/14/2023 1:11:48 PM
o-Xylene	ND	0.500		µg/L	1	6/14/2023 1:11:48 PM
Surr: Dibromofluoromethane	92.7	80 - 120		%Rec	1	6/14/2023 1:11:48 PM
Surr: Toluene-d8	93.8	80 - 120		%Rec	1	6/14/2023 1:11:48 PM
Surr: 1-Bromo-4-fluorobenzene	96.8	80 - 120		%Rec	1	6/14/2023 1:11:48 PM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 2:00:00 PM

**Project:** Maddux

**Lab ID:** 2306097-011

**Matrix:** Water

**Client Sample ID:** AMW-18-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/14/2023 1:41:58 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 1:41:58 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/14/2023 1:41:58 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 1:41:58 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/14/2023 1:41:58 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/14/2023 1:41:58 PM
Surr: Dibromofluoromethane	91.8	80 - 120		%Rec	1	6/14/2023 1:41:58 PM
Surr: Toluene-d8	96.0	80 - 120		%Rec	1	6/14/2023 1:41:58 PM
Surr: 1-Bromo-4-fluorobenzene	96.9	80 - 120		%Rec	1	6/14/2023 1:41:58 PM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 11:41:00 AM

**Project:** Maddux

**Lab ID:** 2306097-012

**Matrix:** Water

**Client Sample ID:** AMW-19-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Gases by RSK-175**

Batch ID: R84580 Analyst: AM

Methane	0.765	0.0270	D	mg/L	4	6/9/2023 12:11:00 PM
Ethene	ND	0.0146		mg/L	1	6/9/2023 11:44:00 AM
Ethane	ND	0.0151		mg/L	1	6/9/2023 11:44:00 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40623 Analyst: CC

Vinyl chloride	5.66	0.200		µg/L	1	6/14/2023 2:12:07 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/14/2023 2:12:07 PM
trans-1,2-Dichloroethene	11.2	0.350		µg/L	1	6/14/2023 2:12:07 PM
cis-1,2-Dichloroethene	62.9	5.00	D	µg/L	10	6/15/2023 12:39:48 PM
Trichloroethene (TCE)	27.8	0.400		µg/L	1	6/14/2023 2:12:07 PM
Tetrachloroethene (PCE)	28.1	0.350		µg/L	1	6/14/2023 2:12:07 PM
Surr: Dibromofluoromethane	93.5	80 - 120		%Rec	1	6/14/2023 2:12:07 PM
Surr: Toluene-d8	94.8	80 - 120		%Rec	1	6/14/2023 2:12:07 PM
Surr: 1-Bromo-4-fluorobenzene	95.4	80 - 120		%Rec	1	6/14/2023 2:12:07 PM

**Dissolved Metals by EPA Method 200.8**

Batch ID: 40632 Analyst: JR

Iron	17,300	60.0		µg/L	1	6/13/2023 11:17:00 AM
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**Total Organic Carbon by SM 5310C**

Batch ID: R84650 Analyst: SLL

Total Organic Carbon	6.60	0.700		mg/L	1	6/13/2023 4:20:00 AM
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**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 11:05:00 AM

**Project:** Maddux

**Lab ID:** 2306097-013

**Matrix:** Water

**Client Sample ID:** AMW-20-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Gases by RSK-175**

Batch ID: R84580 Analyst: AM

Methane	0.00681	0.00675		mg/L	1	6/9/2023 11:50:00 AM
Ethene	ND	0.0146		mg/L	1	6/9/2023 11:50:00 AM
Ethane	ND	0.0151		mg/L	1	6/9/2023 11:50:00 AM

**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609 Analyst: AP

Diesel Range Organics	307	94.9		µg/L	1	6/12/2023 4:16:21 PM
Heavy Oil	ND	94.9		µg/L	1	6/12/2023 4:16:21 PM
Total Petroleum Hydrocarbons	307	190		µg/L	1	6/12/2023 4:16:21 PM
Surr: 2-Fluorobiphenyl	50.7	50 - 150		%Rec	1	6/12/2023 4:16:21 PM
Surr: o-Terphenyl	82.1	50 - 150		%Rec	1	6/12/2023 4:16:21 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 40672 Analyst: CC

Gasoline Range Organics	ND	50.0		µg/L	1	6/16/2023 11:46:39 AM
Surr: Toluene-d8	100	65 - 135		%Rec	1	6/16/2023 11:46:39 AM
Surr: 4-Bromofluorobenzene	99.3	65 - 135		%Rec	1	6/16/2023 11:46:39 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40672 Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 11:46:39 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 11:46:39 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 11:46:39 AM
cis-1,2-Dichloroethene	3.48	0.500		µg/L	1	6/16/2023 11:46:39 AM
Benzene	ND	0.440		µg/L	1	6/16/2023 11:46:39 AM
Trichloroethene (TCE)	3.05	0.400		µg/L	1	6/16/2023 11:46:39 AM
Toluene	ND	1.00		µg/L	1	6/16/2023 11:46:39 AM
Tetrachloroethene (PCE)	13.6	0.350		µg/L	1	6/16/2023 11:46:39 AM
Ethylbenzene	ND	0.400		µg/L	1	6/16/2023 11:46:39 AM
m,p-Xylene	ND	1.00		µg/L	1	6/16/2023 11:46:39 AM
o-Xylene	ND	0.500		µg/L	1	6/16/2023 11:46:39 AM
Surr: Dibromofluoromethane	101	80 - 120		%Rec	1	6/16/2023 11:46:39 AM
Surr: Toluene-d8	101	80 - 120		%Rec	1	6/16/2023 11:46:39 AM
Surr: 1-Bromo-4-fluorobenzene	98.2	80 - 120		%Rec	1	6/16/2023 11:46:39 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 11:05:00 AM

**Project:** Maddux

**Lab ID:** 2306097-013

**Matrix:** Water

**Client Sample ID:** AMW-20-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Metals by EPA Method 200.8**

Batch ID: 40632      Analyst: JR

Iron	ND	60.0		µg/L	1	6/13/2023 11:20:00 AM
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**Total Organic Carbon by SM 5310C**

Batch ID: R84650      Analyst: SLL

Total Organic Carbon	9.65	0.700		mg/L	1	6/13/2023 4:40:00 AM
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**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 10:05:00 AM

**Project:** Maddux

**Lab ID:** 2306097-014

**Matrix:** Water

**Client Sample ID:** AMW-22-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40672

Analyst: CC

Vinyl chloride	0.784	1.00	JD	µg/L	5	6/16/2023 11:16:32 AM
1,1-Dichloroethene	ND	2.50	D	µg/L	5	6/16/2023 11:16:32 AM
trans-1,2-Dichloroethene	ND	1.75	D	µg/L	5	6/16/2023 11:16:32 AM
cis-1,2-Dichloroethene	ND	2.50	D	µg/L	5	6/16/2023 11:16:32 AM
Trichloroethene (TCE)	ND	2.00	D	µg/L	5	6/16/2023 11:16:32 AM
Tetrachloroethene (PCE)	ND	1.75	D	µg/L	5	6/16/2023 11:16:32 AM
Surr: Dibromofluoromethane	100	80 - 120	D	%Rec	5	6/16/2023 11:16:32 AM
Surr: Toluene-d8	101	80 - 120	D	%Rec	5	6/16/2023 11:16:32 AM
Surr: 1-Bromo-4-fluorobenzene	93.8	80 - 120	D	%Rec	5	6/16/2023 11:16:32 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 5:45:00 PM

**Project:** Maddux

**Lab ID:** 2306097-015

**Matrix:** Water

**Client Sample ID:** AMW-23-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40672

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 12:16:46 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 12:16:46 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 12:16:46 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 12:16:46 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 12:16:46 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 12:16:46 PM
Surr: Dibromofluoromethane	99.4	80 - 120		%Rec	1	6/16/2023 12:16:46 PM
Surr: Toluene-d8	101	80 - 120		%Rec	1	6/16/2023 12:16:46 PM
Surr: 1-Bromo-4-fluorobenzene	96.6	80 - 120		%Rec	1	6/16/2023 12:16:46 PM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 4:01:00 PM

**Project:** Maddux

**Lab ID:** 2306097-016

**Matrix:** Water

**Client Sample ID:** AMW-24-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40672

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 1:17:01 PM
1,1-Dichloroethene	0.606	0.500		µg/L	1	6/16/2023 1:17:01 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 1:17:01 PM
cis-1,2-Dichloroethene	5.22	0.500		µg/L	1	6/16/2023 1:17:01 PM
Trichloroethene (TCE)	21.6	0.400		µg/L	1	6/16/2023 1:17:01 PM
Tetrachloroethene (PCE)	384	0.350	E	µg/L	1	6/16/2023 1:17:01 PM
Surr: Dibromofluoromethane	101	80 - 120		%Rec	1	6/16/2023 1:17:01 PM
Surr: Toluene-d8	101	80 - 120		%Rec	1	6/16/2023 1:17:01 PM
Surr: 1-Bromo-4-fluorobenzene	96.7	80 - 120		%Rec	1	6/16/2023 1:17:01 PM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 10:12:00 AM

**Project:** Maddux

**Lab ID:** 2306097-017

**Matrix:** Water

**Client Sample ID:** AMW-25-20230607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40672

Analyst: CC

Vinyl chloride	0.509	0.200		µg/L	1	6/16/2023 1:47:07 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 1:47:07 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 1:47:07 PM
cis-1,2-Dichloroethene	27.5	0.500		µg/L	1	6/16/2023 1:47:07 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 1:47:07 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 7:17:12 PM
Surr: Dibromofluoromethane	103	80 - 120		%Rec	1	6/16/2023 1:47:07 PM
Surr: Toluene-d8	102	80 - 120		%Rec	1	6/16/2023 1:47:07 PM
Surr: 1-Bromo-4-fluorobenzene	96.7	80 - 120		%Rec	1	6/16/2023 1:47:07 PM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 3:37:00 PM

**Project:** Maddux

**Lab ID:** 2306097-018

**Matrix:** Water

**Client Sample ID:** AMW-26-20230607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40672

Analyst: CC

Vinyl chloride	2.00	0.200		µg/L	1	6/16/2023 2:17:14 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 2:17:14 PM
trans-1,2-Dichloroethene	0.607	0.350		µg/L	1	6/16/2023 2:17:14 PM
cis-1,2-Dichloroethene	4.81	0.500		µg/L	1	6/16/2023 2:17:14 PM
Trichloroethene (TCE)	1.12	0.400		µg/L	1	6/16/2023 2:17:14 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 7:47:20 PM
Surr: Dibromofluoromethane	102	80 - 120		%Rec	1	6/16/2023 2:17:14 PM
Surr: Toluene-d8	102	80 - 120		%Rec	1	6/16/2023 2:17:14 PM
Surr: 1-Bromo-4-fluorobenzene	96.2	80 - 120		%Rec	1	6/16/2023 2:17:14 PM



# Analytical Report

Work Order: 2306097  
Date Reported: 6/19/2023

**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 2:35:00 PM

**Project:** Maddux

**Lab ID:** 2306097-019

**Matrix:** Water

**Client Sample ID:** AMW-27-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609      Analyst: AP

Diesel Range Organics	120	96.0		µg/L	1	6/12/2023 4:27:28 PM
Heavy Oil	ND	96.0		µg/L	1	6/12/2023 4:27:28 PM
Total Petroleum Hydrocarbons	ND	192		µg/L	1	6/12/2023 4:27:28 PM
Surr: 2-Fluorobiphenyl	44.8	50 - 150	S	%Rec	1	6/12/2023 4:27:28 PM
Surr: o-Terphenyl	72.7	50 - 150		%Rec	1	6/12/2023 4:27:28 PM

**NOTES:**

S - Outlying surrogate recovery(ies) observed.

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

**Gasoline by NWTPH-Gx**

Batch ID: 40672      Analyst: CC

Gasoline Range Organics	58.9	50.0		µg/L	1	6/16/2023 2:47:22 PM
Surr: Toluene-d8	99.8	65 - 135		%Rec	1	6/16/2023 2:47:22 PM
Surr: 4-Bromofluorobenzene	98.2	65 - 135		%Rec	1	6/16/2023 2:47:22 PM

**NOTES:**

Detection is biased high due to non-petroleum compounds

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40672      Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 2:47:22 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 2:47:22 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 2:47:22 PM
cis-1,2-Dichloroethene	6.57	0.500		µg/L	1	6/16/2023 2:47:22 PM
Benzene	ND	0.440		µg/L	1	6/16/2023 2:47:22 PM
Trichloroethene (TCE)	5.16	0.400		µg/L	1	6/16/2023 2:47:22 PM
Toluene	ND	1.00		µg/L	1	6/16/2023 2:47:22 PM
Tetrachloroethene (PCE)	34.3	0.350		µg/L	1	6/16/2023 2:47:22 PM
Ethylbenzene	ND	0.400		µg/L	1	6/16/2023 2:47:22 PM
m,p-Xylene	ND	1.00		µg/L	1	6/16/2023 2:47:22 PM
o-Xylene	ND	0.500		µg/L	1	6/16/2023 2:47:22 PM
Surr: Dibromofluoromethane	100	80 - 120		%Rec	1	6/16/2023 2:47:22 PM
Surr: Toluene-d8	101	80 - 120		%Rec	1	6/16/2023 2:47:22 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	80 - 120		%Rec	1	6/16/2023 2:47:22 PM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 12:00:00 PM

**Project:** Maddux

**Lab ID:** 2306097-020

**Matrix:** Water

**Client Sample ID:** AMW-28-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609

Analyst: AP

Diesel Range Organics	102	97.5		µg/L	1	6/12/2023 4:39:22 PM
Heavy Oil	ND	97.5		µg/L	1	6/12/2023 4:39:22 PM
Total Petroleum Hydrocarbons	ND	195		µg/L	1	6/12/2023 4:39:22 PM
Surr: 2-Fluorobiphenyl	54.2	50 - 150		%Rec	1	6/12/2023 4:39:22 PM
Surr: o-Terphenyl	82.9	50 - 150		%Rec	1	6/12/2023 4:39:22 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 40672

Analyst: CC

Gasoline Range Organics	59.6	50.0		µg/L	1	6/16/2023 3:17:32 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	6/16/2023 3:17:32 PM
Surr: 4-Bromofluorobenzene	95.6	65 - 135		%Rec	1	6/16/2023 3:17:32 PM

**NOTES:**

Detection is due to non-petroleum compounds

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40672

Analyst: CC

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 3:17:32 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 3:17:32 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 3:17:32 PM
cis-1,2-Dichloroethene	6.40	0.500		µg/L	1	6/16/2023 3:17:32 PM
Benzene	ND	0.440		µg/L	1	6/16/2023 3:17:32 PM
Trichloroethene (TCE)	3.77	0.400		µg/L	1	6/16/2023 3:17:32 PM
Toluene	ND	1.00		µg/L	1	6/16/2023 3:17:32 PM
Tetrachloroethene (PCE)	15.3	0.350		µg/L	1	6/16/2023 3:17:32 PM
Ethylbenzene	ND	0.400		µg/L	1	6/16/2023 3:17:32 PM
m,p-Xylene	ND	1.00		µg/L	1	6/16/2023 3:17:32 PM
o-Xylene	ND	0.500		µg/L	1	6/16/2023 3:17:32 PM
Surr: Dibromofluoromethane	101	80 - 120		%Rec	1	6/16/2023 3:17:32 PM
Surr: Toluene-d8	101	80 - 120		%Rec	1	6/16/2023 3:17:32 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	80 - 120		%Rec	1	6/16/2023 3:17:32 PM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 12:59:00 PM

**Project:** Maddux

**Lab ID:** 2306097-021

**Matrix:** Water

**Client Sample ID:** AMW-29-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 8:54:19 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 8:54:19 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 8:54:19 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 8:54:19 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 8:54:19 AM
Tetrachloroethene (PCE)	1.59	0.350		µg/L	1	6/16/2023 8:54:19 AM
Surr: Dibromofluoromethane	107	80 - 120		%Rec	1	6/16/2023 8:54:19 AM
Surr: Toluene-d8	114	80 - 120		%Rec	1	6/16/2023 8:54:19 AM
Surr: 1-Bromo-4-fluorobenzene	99.9	80 - 120		%Rec	1	6/16/2023 8:54:19 AM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 11:01:00 AM

**Project:** Maddux

**Lab ID:** 2306097-022

**Matrix:** Water

**Client Sample ID:** HC-MW-01-20230607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 4:56:19 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 4:56:19 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 4:56:19 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 4:56:19 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 4:56:19 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 4:56:19 AM
Surr: Dibromofluoromethane	106	80 - 120		%Rec	1	6/16/2023 4:56:19 AM
Surr: Toluene-d8	113	80 - 120		%Rec	1	6/16/2023 4:56:19 AM
Surr: 1-Bromo-4-fluorobenzene	99.9	80 - 120		%Rec	1	6/16/2023 4:56:19 AM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 12:40:00 PM

**Project:** Maddux

**Lab ID:** 2306097-023

**Matrix:** Water

**Client Sample ID:** HC-MW-02-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 5:26:29 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 5:26:29 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 5:26:29 AM
cis-1,2-Dichloroethene	4.86	0.500		µg/L	1	6/16/2023 5:26:29 AM
Trichloroethene (TCE)	7.96	0.400		µg/L	1	6/16/2023 5:26:29 AM
Tetrachloroethene (PCE)	73.6	3.50	D	µg/L	10	6/17/2023 2:53:01 AM
Surr: Dibromofluoromethane	101	80 - 120		%Rec	1	6/16/2023 5:26:29 AM
Surr: Toluene-d8	112	80 - 120		%Rec	1	6/16/2023 5:26:29 AM
Surr: 1-Bromo-4-fluorobenzene	102	80 - 120		%Rec	1	6/16/2023 5:26:29 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 9:21:00 AM

**Project:** Maddux

**Lab ID:** 2306097-024

**Matrix:** Water

**Client Sample ID:** HC-MW-04-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 6:26:49 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 6:26:49 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 6:26:49 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 6:26:49 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 6:26:49 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 6:26:49 AM
Surr: Dibromofluoromethane	102	80 - 120		%Rec	1	6/16/2023 6:26:49 AM
Surr: Toluene-d8	113	80 - 120		%Rec	1	6/16/2023 6:26:49 AM
Surr: 1-Bromo-4-fluorobenzene	102	80 - 120		%Rec	1	6/16/2023 6:26:49 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 3:57:00 PM

**Project:** Maddux

**Lab ID:** 2306097-025

**Matrix:** Water

**Client Sample ID:** HC-MW-05-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	0.695	0.200		µg/L	1	6/16/2023 6:56:59 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 6:56:59 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 6:56:59 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 6:56:59 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 6:56:59 AM
Tetrachloroethene (PCE)	0.631	0.350		µg/L	1	6/16/2023 6:56:59 AM
Surr: Dibromofluoromethane	107	80 - 120		%Rec	1	6/16/2023 6:56:59 AM
Surr: Toluene-d8	112	80 - 120		%Rec	1	6/16/2023 6:56:59 AM
Surr: 1-Bromo-4-fluorobenzene	99.1	80 - 120		%Rec	1	6/16/2023 6:56:59 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 12:05:00 PM

**Project:** Maddux

**Lab ID:** 2306097-026

**Matrix:** Water

**Client Sample ID:** HC-MW-06-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	4.03	0.200		µg/L	1	6/16/2023 9:24:30 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 9:24:30 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 9:24:30 AM
cis-1,2-Dichloroethene	5.79	0.500		µg/L	1	6/16/2023 9:24:30 AM
Trichloroethene (TCE)	0.455	0.400		µg/L	1	6/16/2023 9:24:30 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 9:24:30 AM
Surr: Dibromofluoromethane	106	80 - 120		%Rec	1	6/16/2023 9:24:30 AM
Surr: Toluene-d8	113	80 - 120		%Rec	1	6/16/2023 9:24:30 AM
Surr: 1-Bromo-4-fluorobenzene	102	80 - 120		%Rec	1	6/16/2023 9:24:30 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 11:08:00 AM

**Project:** Maddux

**Lab ID:** 2306097-027

**Matrix:** Water

**Client Sample ID:** HC-MW-07-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 9:54:36 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 9:54:36 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 9:54:36 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 9:54:36 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 9:54:36 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 9:54:36 AM
Surr: Dibromofluoromethane	104	80 - 120		%Rec	1	6/16/2023 9:54:36 AM
Surr: Toluene-d8	113	80 - 120		%Rec	1	6/16/2023 9:54:36 AM
Surr: 1-Bromo-4-fluorobenzene	102	80 - 120		%Rec	1	6/16/2023 9:54:36 AM



# Analytical Report

Work Order: 2306097  
Date Reported: 6/19/2023

**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 12:50:00 PM

**Project:** Maddux

**Lab ID:** 2306097-028

**Matrix:** Water

**Client Sample ID:** MW-05-20230606

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609 Analyst: AP

Diesel Range Organics	107	93.6		µg/L	1	6/13/2023 9:52:07 AM
Heavy Oil	ND	93.6		µg/L	1	6/13/2023 9:52:07 AM
Total Petroleum Hydrocarbons	ND	187		µg/L	1	6/13/2023 9:52:07 AM
Surr: 2-Fluorobiphenyl	50.2	50 - 150		%Rec	1	6/13/2023 9:52:07 AM
Surr: o-Terphenyl	77.9	50 - 150		%Rec	1	6/13/2023 9:52:07 AM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 40650 Analyst: KJ

Gasoline Range Organics	85.9	50.0		µg/L	1	6/16/2023 10:24:46 AM
Surr: Toluene-d8	97.4	65 - 135		%Rec	1	6/16/2023 10:24:46 AM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	6/16/2023 10:24:46 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650 Analyst: KJ

Vinyl chloride	0.655	0.200		µg/L	1	6/16/2023 10:24:46 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 10:24:46 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 10:24:46 AM
cis-1,2-Dichloroethene	2.98	0.500		µg/L	1	6/16/2023 10:24:46 AM
Benzene	ND	0.440		µg/L	1	6/16/2023 10:24:46 AM
Trichloroethene (TCE)	0.408	0.400		µg/L	1	6/16/2023 10:24:46 AM
Toluene	ND	1.00		µg/L	1	6/16/2023 10:24:46 AM
Tetrachloroethene (PCE)	0.630	0.350		µg/L	1	6/16/2023 10:24:46 AM
Ethylbenzene	ND	0.400		µg/L	1	6/16/2023 10:24:46 AM
m,p-Xylene	ND	1.00		µg/L	1	6/16/2023 10:24:46 AM
o-Xylene	ND	0.500		µg/L	1	6/16/2023 10:24:46 AM
Surr: Dibromofluoromethane	105	80 - 120		%Rec	1	6/16/2023 10:24:46 AM
Surr: Toluene-d8	114	80 - 120		%Rec	1	6/16/2023 10:24:46 AM
Surr: 1-Bromo-4-fluorobenzene	99.5	80 - 120		%Rec	1	6/16/2023 10:24:46 AM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 1:46:00 PM

**Project:** Maddux

**Lab ID:** 2306097-029

**Matrix:** Water

**Client Sample ID:** MW-06-20230607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609

Analyst: AP

Diesel Range Organics	175	95.7		µg/L	1	6/12/2023 5:01:17 PM
Heavy Oil	ND	95.7		µg/L	1	6/12/2023 5:01:17 PM
Total Petroleum Hydrocarbons	ND	191		µg/L	1	6/12/2023 5:01:17 PM
Surr: 2-Fluorobiphenyl	53.1	50 - 150		%Rec	1	6/12/2023 5:01:17 PM
Surr: o-Terphenyl	80.9	50 - 150		%Rec	1	6/12/2023 5:01:17 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 40650

Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	6/16/2023 10:54:55 AM
Surr: Toluene-d8	97.0	65 - 135		%Rec	1	6/16/2023 10:54:55 AM
Surr: 4-Bromofluorobenzene	105	65 - 135		%Rec	1	6/16/2023 10:54:55 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 10:54:55 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 10:54:55 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 10:54:55 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 10:54:55 AM
Benzene	ND	0.440		µg/L	1	6/16/2023 10:54:55 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 10:54:55 AM
Toluene	ND	1.00		µg/L	1	6/16/2023 10:54:55 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 10:54:55 AM
Ethylbenzene	ND	0.400		µg/L	1	6/16/2023 10:54:55 AM
m,p-Xylene	ND	1.00		µg/L	1	6/16/2023 10:54:55 AM
o-Xylene	ND	0.500		µg/L	1	6/16/2023 10:54:55 AM
Surr: Dibromofluoromethane	105	80 - 120		%Rec	1	6/16/2023 10:54:55 AM
Surr: Toluene-d8	114	80 - 120		%Rec	1	6/16/2023 10:54:55 AM
Surr: 1-Bromo-4-fluorobenzene	104	80 - 120		%Rec	1	6/16/2023 10:54:55 AM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023 2:33:00 PM

**Project:** Maddux

**Lab ID:** 2306097-030

**Matrix:** Water

**Client Sample ID:** MW-07-20230607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	1.93	0.200		µg/L	1	6/16/2023 11:25:05 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 11:25:05 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 11:25:05 AM
cis-1,2-Dichloroethene	12.1	0.500		µg/L	1	6/16/2023 11:25:05 AM
Trichloroethene (TCE)	0.677	0.400		µg/L	1	6/16/2023 11:25:05 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 11:25:05 AM
Surr: Dibromofluoromethane	105	80 - 120		%Rec	1	6/16/2023 11:25:05 AM
Surr: Toluene-d8	114	80 - 120		%Rec	1	6/16/2023 11:25:05 AM
Surr: 1-Bromo-4-fluorobenzene	102	80 - 120		%Rec	1	6/16/2023 11:25:05 AM



**Client:** Aspect Consulting

**Collection Date:** 6/5/2023 12:05:00 PM

**Project:** Maddux

**Lab ID:** 2306097-031

**Matrix:** Water

**Client Sample ID:** MW-10-20230605

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609

Analyst: AP

Diesel Range Organics	393	93.6		µg/L	1	6/12/2023 5:12:15 PM
Heavy Oil	ND	93.6		µg/L	1	6/12/2023 5:12:15 PM
Total Petroleum Hydrocarbons	393	187		µg/L	1	6/12/2023 5:12:15 PM
Surr: 2-Fluorobiphenyl	55.3	50 - 150		%Rec	1	6/12/2023 5:12:15 PM
Surr: o-Terphenyl	83.8	50 - 150		%Rec	1	6/12/2023 5:12:15 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 40650

Analyst: KJ

Gasoline Range Organics	50.1	50.0		µg/L	1	6/16/2023 11:55:17 AM
Surr: Toluene-d8	96.9	65 - 135		%Rec	1	6/16/2023 11:55:17 AM
Surr: 4-Bromofluorobenzene	104	65 - 135		%Rec	1	6/16/2023 11:55:17 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 11:55:17 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 11:55:17 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 11:55:17 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 11:55:17 AM
Benzene	0.482	0.440		µg/L	1	6/16/2023 11:55:17 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 11:55:17 AM
Toluene	ND	1.00		µg/L	1	6/16/2023 11:55:17 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 11:55:17 AM
Ethylbenzene	ND	0.400		µg/L	1	6/16/2023 11:55:17 AM
m,p-Xylene	ND	1.00		µg/L	1	6/16/2023 11:55:17 AM
o-Xylene	ND	0.500		µg/L	1	6/16/2023 11:55:17 AM
Surr: Dibromofluoromethane	107	80 - 120		%Rec	1	6/16/2023 11:55:17 AM
Surr: Toluene-d8	113	80 - 120		%Rec	1	6/16/2023 11:55:17 AM
Surr: 1-Bromo-4-fluorobenzene	102	80 - 120		%Rec	1	6/16/2023 11:55:17 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 1:00:00 AM

**Project:** Maddux

**Lab ID:** 2306097-032

**Matrix:** Water

**Client Sample ID:** AMW-FD1-060623

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Gases by RSK-175**

Batch ID: R84580 Analyst: AM

Methane	ND	0.00675		mg/L	1	6/9/2023 11:53:00 AM
Ethene	ND	0.0146		mg/L	1	6/9/2023 11:53:00 AM
Ethane	ND	0.0151		mg/L	1	6/9/2023 11:53:00 AM

**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 40609 Analyst: AP

Diesel Range Organics	283	96.0		µg/L	1	6/12/2023 5:23:13 PM
Heavy Oil	ND	96.0		µg/L	1	6/12/2023 5:23:13 PM
Total Petroleum Hydrocarbons	283	192		µg/L	1	6/12/2023 5:23:13 PM
Surr: 2-Fluorobiphenyl	53.0	50 - 150		%Rec	1	6/12/2023 5:23:13 PM
Surr: o-Terphenyl	77.6	50 - 150		%Rec	1	6/12/2023 5:23:13 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 40650 Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	6/16/2023 7:57:19 AM
Surr: Toluene-d8	96.7	65 - 135		%Rec	1	6/16/2023 7:57:19 AM
Surr: 4-Bromofluorobenzene	103	65 - 135		%Rec	1	6/16/2023 7:57:19 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650 Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 7:57:19 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 7:57:19 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 7:57:19 AM
cis-1,2-Dichloroethene	3.57	0.500		µg/L	1	6/16/2023 7:57:19 AM
Benzene	ND	0.440		µg/L	1	6/16/2023 7:57:19 AM
Trichloroethene (TCE)	2.36	0.400		µg/L	1	6/16/2023 7:57:19 AM
Toluene	ND	1.00		µg/L	1	6/16/2023 7:57:19 AM
Tetrachloroethene (PCE)	12.6	0.350		µg/L	1	6/16/2023 7:57:19 AM
Ethylbenzene	ND	0.400		µg/L	1	6/16/2023 7:57:19 AM
m,p-Xylene	ND	1.00		µg/L	1	6/16/2023 7:57:19 AM
o-Xylene	ND	0.500		µg/L	1	6/16/2023 7:57:19 AM
Surr: Dibromofluoromethane	106	80 - 120		%Rec	1	6/16/2023 7:57:19 AM
Surr: Toluene-d8	112	80 - 120		%Rec	1	6/16/2023 7:57:19 AM
Surr: 1-Bromo-4-fluorobenzene	102	80 - 120		%Rec	1	6/16/2023 7:57:19 AM



**Client:** Aspect Consulting

**Collection Date:** 6/6/2023 1:00:00 AM

**Project:** Maddux

**Lab ID:** 2306097-032

**Matrix:** Water

**Client Sample ID:** AMW-FD1-060623

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Metals by EPA Method 200.8**

Batch ID: 40632      Analyst: JR

Iron	ND	60.0		µg/L	1	6/13/2023 11:22:00 AM
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**Total Organic Carbon by SM 5310C**

Batch ID: R84650      Analyst: SLL

Total Organic Carbon	9.67	0.700		mg/L	1	6/13/2023 5:03:00 AM
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**Client:** Aspect Consulting

**Collection Date:** 5/30/2023 2:00:00 PM

**Project:** Maddux

**Lab ID:** 2306097-033

**Matrix:** Water

**Client Sample ID:** Trip Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200	H	µg/L	1	6/16/2023 4:26:09 AM
1,1-Dichloroethene	ND	0.500	H	µg/L	1	6/16/2023 4:26:09 AM
trans-1,2-Dichloroethene	ND	0.350	H	µg/L	1	6/16/2023 4:26:09 AM
cis-1,2-Dichloroethene	ND	0.500	H	µg/L	1	6/16/2023 4:26:09 AM
Trichloroethene (TCE)	ND	0.400	H	µg/L	1	6/16/2023 4:26:09 AM
Tetrachloroethene (PCE)	ND	0.350	H	µg/L	1	6/16/2023 4:26:09 AM
Surr: Dibromofluoromethane	98.8	80 - 120	H	%Rec	1	6/16/2023 4:26:09 AM
Surr: Toluene-d8	112	80 - 120	H	%Rec	1	6/16/2023 4:26:09 AM
Surr: 1-Bromo-4-fluorobenzene	99.8	80 - 120	H	%Rec	1	6/16/2023 4:26:09 AM



**Client:** Aspect Consulting

**Collection Date:** 6/7/2023

**Project:** Maddux

**Lab ID:** 2306097-034

**Matrix:** Water

**Client Sample ID:** AMW-FD2-20230607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 40650

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	6/16/2023 8:27:29 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	6/16/2023 8:27:29 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	6/16/2023 8:27:29 AM
cis-1,2-Dichloroethene	29.2	0.500		µg/L	1	6/16/2023 8:27:29 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	6/16/2023 8:27:29 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	6/16/2023 8:27:29 AM
Surr: Dibromofluoromethane	103	80 - 120		%Rec	1	6/16/2023 8:27:29 AM
Surr: Toluene-d8	114	80 - 120		%Rec	1	6/16/2023 8:27:29 AM
Surr: 1-Bromo-4-fluorobenzene	102	80 - 120		%Rec	1	6/16/2023 8:27:29 AM

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Total Organic Carbon by SM 5310C**

Sample ID: <b>LCS-84650</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>			Prep Date: <b>6/12/2023</b>	RunNo: <b>84650</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>R84650</b>				Analysis Date: <b>6/12/2023</b>	SeqNo: <b>1766975</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.32	0.700	5.000	0	106	88.1	112				

Sample ID: <b>MB-84650</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>			Prep Date: <b>6/12/2023</b>	RunNo: <b>84650</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>R84650</b>				Analysis Date: <b>6/12/2023</b>	SeqNo: <b>1766977</b>					
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: <b>2306080-005FDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>			Prep Date: <b>6/13/2023</b>	RunNo: <b>84650</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>R84650</b>				Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766983</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.700						0		20	

Sample ID: <b>2306080-005FMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>			Prep Date: <b>6/13/2023</b>	RunNo: <b>84650</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>R84650</b>				Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766984</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.46	0.700	5.000	0.3400	102	75.2	115				

Sample ID: <b>2306080-005FMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>			Prep Date: <b>6/13/2023</b>	RunNo: <b>84650</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>R84650</b>				Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766985</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.21	0.700	5.000	0.3400	97.4	75.2	115	5.458	4.69	30	

**Work Order:** 2306097  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Total Organic Carbon by SM 5310C**

Sample ID: <b>2306121-003EDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>	Prep Date: <b>6/13/2023</b>	RunNo: <b>84650</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R84650</b>		Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766994</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.700						0		20	

Sample ID: <b>2306121-003EMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>6/13/2023</b>	RunNo: <b>84650</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R84650</b>		Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766995</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.39	0.700	5.000	0	108	75.2	115				

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA Method 200.8**

Sample ID: <b>MB-40632</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/13/2023</b>	RunNo: <b>84640</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>40632</b>	Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766702</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron ND 60.0

Sample ID: <b>LCS-40632</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/13/2023</b>	RunNo: <b>84640</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>40632</b>	Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766703</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 993 60.0 1,000 0 99.3 85 115

Sample ID: <b>2306141-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/13/2023</b>	RunNo: <b>84640</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>40632</b>	Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766705</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2,050 60.0 2,002 2.26 30

Sample ID: <b>2306141-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/13/2023</b>	RunNo: <b>84640</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>40632</b>	Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766706</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2,810 60.0 1,000 2,002 81.0 50 150

Sample ID: <b>2306121-005BMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/13/2023</b>	RunNo: <b>84640</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>40632</b>	Analysis Date: <b>6/13/2023</b>	SeqNo: <b>1766718</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 970 60.0 1,000 0 97.0 50 150

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID: <b>MB-40609</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>6/9/2023</b>	RunNo: <b>84621</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>40609</b>				Analysis Date: <b>6/12/2023</b>	SeqNo: <b>1766265</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	95.2									
Heavy Oil	ND	95.2									
Total Petroleum Hydrocarbons	ND	190									
Surr: 2-Fluorobiphenyl	18.8		23.81		78.8	50	150				
Surr: o-Terphenyl	22.1		23.81		92.8	50	150				

Sample ID: <b>LCS-40609</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>6/9/2023</b>	RunNo: <b>84621</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>40609</b>				Analysis Date: <b>6/12/2023</b>	SeqNo: <b>1766266</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	723	191	1,192	0	60.7	48	113				
Surr: 2-Fluorobiphenyl	12.9		23.85		54.3	50	150				
Surr: o-Terphenyl	22.0		23.85		92.1	50	150				

Sample ID: <b>LCS-40609</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>6/9/2023</b>	RunNo: <b>84621</b>					
Client ID: <b>LCSW02</b>	Batch ID: <b>40609</b>				Analysis Date: <b>6/12/2023</b>	SeqNo: <b>1766267</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	844	191	1,194	0	70.7	48	113	723.3	15.4	30	
Surr: 2-Fluorobiphenyl	16.0		23.88		67.1	50	150		0		
Surr: o-Terphenyl	25.4		23.88		106	50	150		0		

Sample ID: <b>2306083-012BDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>6/9/2023</b>	RunNo: <b>84621</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>40609</b>				Analysis Date: <b>6/12/2023</b>	SeqNo: <b>1766607</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	812	94.8						196.6	122	30	R
Heavy Oil	ND	94.8						0		30	
Total Petroleum Hydrocarbons	812	190						196.6	122	30	R
Surr: 2-Fluorobiphenyl	25.2		23.69		106	50	150		0		

**Work Order:** 2306097  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID: <b>2306083-012BDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84621</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>40609</b>		Analysis Date: <b>6/12/2023</b>	SeqNo: <b>1766607</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: o-Terphenyl	28.5	23.69	121	50	150	0
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**NOTES:**  
 R - High RPD observed.  
 Chromatographic pattern is not consistent with a petroleum standard

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Dissolved Gases by RSK-175**

Sample ID: <b>LCS-R84580</b>	SampType: <b>LCS</b>	Units: <b>ppmv</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84580</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R84580</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1765656</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1,030	0.00675	1,000	0	103	73.6	124				
Ethene	1,000	0.0146	1,000	0	100	76.3	122				
Ethane	993	0.0151	1,000	0	99.3	76.1	123				

Sample ID: <b>MB-R84580</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84580</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R84580</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1765653</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: <b>2306097-012DREP</b>	SampType: <b>REP</b>	Units: <b>mg/L</b>	Prep Date: <b>6/9/2023</b>	RunNo: <b>84580</b>							
Client ID: <b>AMW-19-20230605</b>	Batch ID: <b>R84580</b>		Analysis Date: <b>6/9/2023</b>	SeqNo: <b>1765647</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.604	0.00675						0.5721	5.50	30	
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>2306097-009ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2023</b>	RunNo: <b>84757</b>							
Client ID: <b>AMW-16-20230605</b>	Batch ID: <b>40623</b>	Analysis Date: <b>6/14/2023</b>	SeqNo: <b>1768650</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0						0		30	Q
Surr: Toluene-d8	26.9		25.00		107	65	135		0		
Surr: 4-Bromofluorobenzene	24.3		25.00		97.3	65	135		0		

**NOTES:**

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: <b>LCS-40650</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84716</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>40650</b>	Analysis Date: <b>6/15/2023</b>	SeqNo: <b>1768081</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	481	50.0	500.0	0	96.2	65	135				
Surr: Toluene-d8	25.1		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	24.9		25.00		99.5	65	135				

Sample ID: <b>MB-40650</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84716</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>40650</b>	Analysis Date: <b>6/15/2023</b>	SeqNo: <b>1768080</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	24.8		25.00		99.3	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID: <b>2306097-025ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84716</b>							
Client ID: <b>HC-MW-05-20230606</b>	Batch ID: <b>40650</b>	Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768490</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0						0		30	
Surr: Toluene-d8	24.5		25.00		98.2	65	135		0		
Surr: 4-Bromofluorobenzene	25.4		25.00		102	65	135		0		

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>LCS-40623</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>6/12/2023</b>	RunNo: <b>84757</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>40623</b>					Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768647</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	489	50.0	500.0	0	97.8	65	135				
Surr: Toluene-d8	25.0		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: <b>LCS-40672</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>6/16/2023</b>	RunNo: <b>84744</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>40672</b>					Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768634</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	489	50.0	500.0	0	97.8	65	135				
Surr: Toluene-d8	25.0		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		100	65	135				

Sample ID: <b>MB-40623</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>6/12/2023</b>	RunNo: <b>84757</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>40623</b>					Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768646</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	25.1		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.3	65	135				

Sample ID: <b>MB-40672</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>6/16/2023</b>	RunNo: <b>84744</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>40672</b>					Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768629</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	25.1		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.3	65	135				

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>2306097-015ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>6/16/2023</b>	RunNo: <b>84744</b>					
Client ID: <b>AMW-23-20230606</b>	Batch ID: <b>40672</b>				Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768617</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0						0		30	
Surr: Toluene-d8	25.8		25.00		103	65	135		0		
Surr: 4-Bromofluorobenzene	24.2		25.00		96.7	65	135		0		

Sample ID: <b>2306097-032AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>6/14/2023</b>	RunNo: <b>84716</b>					
Client ID: <b>AMW-FD1-060623</b>	Batch ID: <b>40650</b>				Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768487</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	427	50.0	500.0	0	85.4	65	135				
Surr: Toluene-d8	24.1		25.00		96.6	65	135				
Surr: 4-Bromofluorobenzene	25.5		25.00		102	65	135				

Sample ID: <b>2306097-020AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>6/16/2023</b>	RunNo: <b>84744</b>					
Client ID: <b>AMW-28-20230606</b>	Batch ID: <b>40672</b>				Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768623</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	398	50.0	500.0	59.59	67.7	65	135				
Surr: Toluene-d8	25.0		25.00		99.8	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.2	65	135				

Sample ID: <b>2306097-009AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>6/12/2023</b>	RunNo: <b>84757</b>					
Client ID: <b>AMW-16-20230605</b>	Batch ID: <b>40623</b>				Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768642</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	463	50.0	500.0	0	92.7	65	135				
Surr: Toluene-d8	25.3		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	25.0		25.00		100	65	135				

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-40623</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2023</b>	RunNo: <b>84692</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>40623</b>		Analysis Date: <b>6/14/2023</b>	SeqNo: <b>1767764</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	23.9	0.200	20.00	0	120	80	120				
1,1-Dichloroethene	23.9	0.500	20.00	0	120	80	120				
trans-1,2-Dichloroethene	20.6	0.350	20.00	0	103	80	120				
cis-1,2-Dichloroethene	20.8	0.500	20.00	0	104	80	120				
Benzene	21.0	0.440	20.00	0	105	80	120				
Trichloroethene (TCE)	22.1	0.400	20.00	0	110	80	120				
Toluene	20.9	1.00	20.00	0	104	80	120				
Tetrachloroethene (PCE)	19.1	0.350	20.00	0	95.6	80	120				
Ethylbenzene	21.9	0.400	20.00	0	109	80	120				
m,p-Xylene	43.8	1.00	40.00	0	109	80	120				
o-Xylene	21.3	0.500	20.00	0	106	80	120				
Surr: Dibromofluoromethane	24.2		25.00		96.8	80	120				
Surr: Toluene-d8	24.4		25.00		97.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	80	120				

Sample ID: <b>MB-40623</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2023</b>	RunNo: <b>84692</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>40623</b>		Analysis Date: <b>6/14/2023</b>	SeqNo: <b>1767762</b>							
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	0.350									
cis-1,2-Dichloroethene	ND	0.500									
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.400									
Toluene	ND	1.00									
Tetrachloroethene (PCE)	ND	0.350									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	22.8		25.00		91.3	80	120				

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-40623</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2023</b>	RunNo: <b>84692</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>40623</b>		Analysis Date: <b>6/14/2023</b>	SeqNo: <b>1767762</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	24.1		25.00		96.5	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.3		25.00		97.0	80	120				

Sample ID: <b>2306097-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2023</b>	RunNo: <b>84692</b>							
Client ID: <b>AMW-03-20230605</b>	Batch ID: <b>40623</b>		Analysis Date: <b>6/14/2023</b>	SeqNo: <b>1767748</b>							
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	0.350						0		30	
cis-1,2-Dichloroethene	ND	0.500						0		30	
Benzene	ND	0.440						0		30	
Trichloroethene (TCE)	ND	0.400						0		30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	0.350						0		30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	22.8		25.00		91.0	80	120		0		
Surr: Toluene-d8	24.2		25.00		96.9	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.0	80	120		0		

Sample ID: <b>2306097-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2023</b>	RunNo: <b>84692</b>							
Client ID: <b>AMW-07-20230605</b>	Batch ID: <b>40623</b>		Analysis Date: <b>6/14/2023</b>	SeqNo: <b>1767751</b>							
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	0.350						0		30	
cis-1,2-Dichloroethene	ND	0.500						0		30	
Benzene	ND	0.440						0		30	

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2306097-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2023</b>	RunNo: <b>84692</b>							
Client ID: <b>AMW-07-20230605</b>	Batch ID: <b>40623</b>		Analysis Date: <b>6/14/2023</b>	SeqNo: <b>1767751</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.400						0		30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	0.432	0.350						0.4359	0.885	30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	22.5		25.00		89.8	80	120		0		
Surr: Toluene-d8	23.6		25.00		94.4	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.7	80	120		0		

Sample ID: <b>2306097-004AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2023</b>	RunNo: <b>84692</b>							
Client ID: <b>AMW-08-20230605</b>	Batch ID: <b>40623</b>		Analysis Date: <b>6/14/2023</b>	SeqNo: <b>1767753</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	20.5	0.200	20.00	0	103	44.8	167				
1,1-Dichloroethene	20.6	0.500	20.00	0	103	67.1	164				
trans-1,2-Dichloroethene	18.9	0.350	20.00	0	94.3	73.1	145				
cis-1,2-Dichloroethene	18.5	0.500	20.00	0	92.6	73.5	136				
Benzene	18.2	0.440	20.00	0	90.8	72.6	141				
Trichloroethene (TCE)	17.5	0.400	20.00	0	87.5	68	139				
Toluene	17.8	1.00	20.00	0	88.8	71.4	141				
Tetrachloroethene (PCE)	17.2	0.350	20.00	0	85.9	73.9	140				
Ethylbenzene	19.5	0.400	20.00	0	97.3	71.4	142				
m,p-Xylene	38.4	1.00	40.00	0	96.0	72.2	142				
o-Xylene	18.7	0.500	20.00	0	93.4	75.2	136				
Surr: Dibromofluoromethane	23.7		25.00		94.6	51.6	145				
Surr: Toluene-d8	24.0		25.00		95.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.5		25.00		102	80	120				

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-40650</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84714</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>40650</b>		Analysis Date: <b>6/15/2023</b>	SeqNo: <b>1767986</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	20.9	0.200	20.00	0	104	80	120				
1,1-Dichloroethene	20.6	0.500	20.00	0	103	80	120				
trans-1,2-Dichloroethene	20.4	0.350	20.00	0	102	80	120				
cis-1,2-Dichloroethene	20.5	0.500	20.00	0	102	80	120				
Benzene	20.3	0.440	20.00	0	102	80	120				
Trichloroethene (TCE)	19.7	0.400	20.00	0	98.7	80	120				
Toluene	20.8	1.00	20.00	0	104	80	120				
Tetrachloroethene (PCE)	19.6	0.350	20.00	0	98.0	80	120				
Ethylbenzene	19.6	0.400	20.00	0	98.1	80	120				
m,p-Xylene	39.0	1.00	40.00	0	97.5	80	120				
o-Xylene	19.3	0.500	20.00	0	96.6	80	120				
Surr: Dibromofluoromethane	26.6		25.00		106	80	120				
Surr: Toluene-d8	28.3		25.00		113	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.3		25.00		97.1	80	120				

Sample ID: <b>MB-40650</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84714</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>40650</b>		Analysis Date: <b>6/15/2023</b>	SeqNo: <b>1767983</b>							
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	0.350									
cis-1,2-Dichloroethene	ND	0.500									
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.400									
Toluene	ND	1.00									
Tetrachloroethene (PCE)	ND	0.350									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	24.9		25.00		99.8	80	120				

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-40650</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84714</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>40650</b>		Analysis Date: <b>6/15/2023</b>	SeqNo: <b>1767983</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	27.9		25.00		111	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.8		25.00		99.4	80	120				

Sample ID: <b>2306097-023ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84714</b>							
Client ID: <b>HC-MW-02-20230605</b>	Batch ID: <b>40650</b>		Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768404</b>							
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	0.350						0		30	
cis-1,2-Dichloroethene	4.78	0.500						4.864	1.72	30	
Benzene	ND	0.440						0		30	
Trichloroethene (TCE)	7.80	0.400						7.956	1.96	30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	74.4	0.350						75.90	2.04	30	E
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	25.0		25.00		99.9	80	120		0		
Surr: Toluene-d8	27.9		25.00		112	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	80	120		0		

Sample ID: <b>2306097-025ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84714</b>							
Client ID: <b>HC-MW-05-20230606</b>	Batch ID: <b>40650</b>		Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768407</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.746	0.200						0.6954	6.96	30	
1,1-Dichloroethene	ND	0.500						0		30	
trans-1,2-Dichloroethene	ND	0.350						0		30	
cis-1,2-Dichloroethene	ND	0.500						0		30	
Benzene	0.746	0.440						0.7207	3.39	30	

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2306097-025ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>6/14/2023</b>	RunNo: <b>84714</b>					
Client ID: <b>HC-MW-05-20230606</b>	Batch ID: <b>40650</b>				Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768407</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.400						0		30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	0.611	0.350						0.6312	3.27	30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	26.6		25.00		106	80	120		0		
Surr: Toluene-d8	28.0		25.00		112	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		100	80	120		0		

Sample ID: <b>LCS-40672</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>6/16/2023</b>	RunNo: <b>84743</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>40672</b>				Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768570</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	19.4	0.200	20.00	0	96.9	80	120				
1,1-Dichloroethene	20.0	0.500	20.00	0	100	80	120				
trans-1,2-Dichloroethene	20.3	0.350	20.00	0	101	80	120				
cis-1,2-Dichloroethene	19.9	0.500	20.00	0	99.3	80	120				
Benzene	19.7	0.440	20.00	0	98.5	80	120				
Trichloroethene (TCE)	19.7	0.400	20.00	0	98.3	80	120				
Toluene	19.6	1.00	20.00	0	98.0	80	120				
Tetrachloroethene (PCE)	19.1	0.350	20.00	0	95.7	80	120				
Ethylbenzene	19.2	0.400	20.00	0	96.2	80	120				
m,p-Xylene	38.0	1.00	40.00	0	95.0	80	120				
o-Xylene	18.7	0.500	20.00	0	93.4	80	120				
Surr: Dibromofluoromethane	25.4		25.00		101	80	120				
Surr: Toluene-d8	25.6		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	80	120				

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-40672</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/16/2023</b>	RunNo: <b>84743</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>40672</b>		Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768568</b>							
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	0.350									
cis-1,2-Dichloroethene	ND	0.500									
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.400									
Toluene	ND	1.00									
Tetrachloroethene (PCE)	ND	0.350									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	24.8		25.00		99.2	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.6		25.00		98.3	80	120				

Sample ID: <b>2306097-015ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/16/2023</b>	RunNo: <b>84743</b>							
Client ID: <b>AMW-23-20230606</b>	Batch ID: <b>40672</b>		Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768556</b>							
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	0.350						0		30	
cis-1,2-Dichloroethene	ND	0.500						0		30	
Benzene	ND	0.440						0		30	
Trichloroethene (TCE)	ND	0.400						0		30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	0.350						0		30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	25.0		25.00		100	80	120		0		

Work Order: 2306097  
 CLIENT: Aspect Consulting  
 Project: Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2306097-015ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/16/2023</b>	RunNo: <b>84743</b>							
Client ID: <b>AMW-23-20230606</b>	Batch ID: <b>40672</b>		Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768556</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	25.4		25.00		102	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	23.9		25.00		95.7	80	120		0		

Sample ID: <b>2306097-022AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/14/2023</b>	RunNo: <b>84714</b>							
Client ID: <b>HC-MW-01-20230607</b>	Batch ID: <b>40650</b>		Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768402</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	19.4	0.200	20.00	0	97.2	44.8	167				
1,1-Dichloroethene	19.6	0.500	20.00	0	98.1	67.1	164				
trans-1,2-Dichloroethene	19.0	0.350	20.00	0	95.2	73.1	145				
cis-1,2-Dichloroethene	19.5	0.500	20.00	0.3881	95.5	73.5	136				
Benzene	31.4	0.440	20.00	10.85	103	72.6	141				
Trichloroethene (TCE)	18.5	0.400	20.00	0	92.3	68	139				
Toluene	19.7	1.00	20.00	0	98.7	71.4	141				
Tetrachloroethene (PCE)	18.0	0.350	20.00	0	90.1	73.9	140				
Ethylbenzene	17.6	0.400	20.00	0	87.8	71.4	142				
m,p-Xylene	34.6	1.00	40.00	0	86.4	72.2	142				
o-Xylene	17.3	0.500	20.00	0	86.6	75.2	136				
Surr: Dibromofluoromethane	26.9		25.00		107	51.6	145				
Surr: Toluene-d8	28.5		25.00		114	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.8	80	120				

Sample ID: <b>2306097-016AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/16/2023</b>	RunNo: <b>84743</b>							
Client ID: <b>AMW-24-20230605</b>	Batch ID: <b>40672</b>		Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768559</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	24.4	0.200	20.00	0	122	44.8	167				
1,1-Dichloroethene	25.8	0.500	20.00	0.6061	126	67.1	164				
trans-1,2-Dichloroethene	23.4	0.350	20.00	0	117	73.1	145				
cis-1,2-Dichloroethene	29.9	0.500	20.00	5.224	123	73.5	136				
Benzene	23.3	0.440	20.00	0	116	72.6	141				

**Work Order:** 2306097  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2306097-016AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/16/2023</b>	RunNo: <b>84743</b>							
Client ID: <b>AMW-24-20230605</b>	Batch ID: <b>40672</b>		Analysis Date: <b>6/16/2023</b>	SeqNo: <b>1768559</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	52.3	0.400	20.00	21.61	153	68	139				S
Toluene	23.0	1.00	20.00	0	115	71.4	141				
Tetrachloroethene (PCE)	394	0.350	20.00	383.8	48.9	73.9	140				SE
Ethylbenzene	22.7	0.400	20.00	0	114	71.4	142				
m,p-Xylene	45.9	1.00	40.00	0	115	72.2	142				
o-Xylene	22.3	0.500	20.00	0	111	75.2	136				
Surr: Dibromofluoromethane	25.7		25.00		103	51.6	145				
Surr: Toluene-d8	25.5		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.4		25.00		102	80	120				

**NOTES:**

S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Client Name: <b>AC</b>	Work Order Number: <b>2306097</b>
Logged by: <b>Morgan Wilson</b>	Date Received: <b>6/7/2023 5:40:00 PM</b>

**Chain of Custody**

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

**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 holding times 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

17. Additional remarks:

**Item Information**

Item #	Temp °C
Sample	4.5

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

















3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

# Chain of Custody Record & Laboratory Services Agreement

Date: \_\_\_\_\_ Page: 4 of: 4 Laboratory Project No (internal): 2306097

Project Name: \_\_\_\_\_ Special Remarks: Dissolved gases: ethane, ethene, methane

Project No: \_\_\_\_\_

Collected by: \_\_\_\_\_

Location: \_\_\_\_\_

Report To (PM): \_\_\_\_\_

Sample Disposal:  Return to client  Disposal by lab (after 30 days)

Client: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes														Comments						
					SVOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 / 625)	PCBs (EPA 8270 - SIM)	Metals** (EPA 6020 / 200.8)	Total (T)	Anions (IC)**	ED8 (801.1)	TOC	Dissolved gases							
1 MW-10-20230605	6/5/23	1205	W	4	X	X	X	X																	
2 AMW-FD1-040623	6/16/23	6100		9		X	X	X					X				X	X							
3 AMW-ADZ-060723	6/7/23																								AWP 6/7/23
4 Trip blank	6/30/23	1400		3																					
5 AMW-FD2-20230607	6/7/23	2300		3																					
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) <u>[Signature]</u>	Print Name <u>Ashley Provan</u>	Date/Time <u>6/7/23 17:52</u>	Received (Signature) <u>[Signature]</u>	Print Name <u>Emma Tuck</u>	Date/Time <u>6/7/23 17:38</u>
Relinquished (Signature) <u>[Signature]</u>	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time



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

**RE: Maddux**  
**Work Order Number: 2312173**

December 13, 2023

**Attention Andrew Yonkofski:**

Fremont Analytical, Inc. received 33 sample(s) on 12/6/2023 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***  
***Dissolved Gases by RSK-175***  
***Dissolved Metals by EPA Method 200.8***  
***Gasoline by NWTPH-Gx***  
***Total Organic Carbon by SM 5310C***  
***Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing*  
*ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing*  
*Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

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Original

**CLIENT:** Aspect Consulting  
**Project:** Maddux  
**Work Order:** 2312173

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2312173-001	AMW-08-20231204	12/04/2023 1:18 PM	12/06/2023 4:37 PM
2312173-002	AMW-09-20231204	12/04/2023 1:29 PM	12/06/2023 4:37 PM
2312173-003	AMW-07-20231204	12/04/2023 1:55 PM	12/06/2023 4:37 PM
2312173-004	AMW-27-20231204	12/04/2023 1:55 PM	12/06/2023 4:37 PM
2312173-005	AMW-03-20231204	12/04/2023 2:30 PM	12/06/2023 4:37 PM
2312173-006	MW-05-20231204	12/04/2023 2:56 PM	12/06/2023 4:37 PM
2312173-007	AMW-20-20231204	12/04/2023 3:31 PM	12/06/2023 4:37 PM
2312173-008	AMW-FD1-20231204	12/04/2023 3:32 PM	12/06/2023 4:37 PM
2312173-009	AMW-24-20231204	12/04/2023 3:42 PM	12/06/2023 4:37 PM
2312173-010	MW-06-20231205	12/05/2023 8:35 AM	12/06/2023 4:37 PM
2312173-011	HC-MW-04-20231205	12/05/2023 8:27 AM	12/06/2023 4:37 PM
2312173-012	MW-10-20231205	12/05/2023 9:16 AM	12/06/2023 4:37 PM
2312173-013	AMW-16-20231205	12/05/2023 9:57 AM	12/06/2023 4:37 PM
2312173-014	HC-MW-01-20231205	12/05/2023 9:57 AM	12/06/2023 4:37 PM
2312173-015	AMW-14-20231205	12/05/2023 10:38 AM	12/06/2023 4:37 PM
2312173-016	HC-MW-02-20231205	12/05/2023 10:39 AM	12/06/2023 4:37 PM
2312173-017	AMW-11-20231205	12/05/2023 11:13 AM	12/06/2023 4:37 PM
2312173-018	AMW-06-20231205	12/05/2023 11:26 AM	12/06/2023 4:37 PM
2312173-019	AMW-15-20231205	12/05/2023 11:46 AM	12/06/2023 4:37 PM
2312173-020	MW-07-20231205	12/05/2023 12:28 PM	12/06/2023 4:37 PM
2312173-021	AMW-18-20231205	12/05/2023 1:06 PM	12/06/2023 4:37 PM
2312173-022	AMW-19-20231205	12/05/2023 1:38 PM	12/06/2023 4:37 PM
2312173-023	AMW-17-20231205	12/05/2023 1:45 PM	12/06/2023 4:37 PM
2312173-024	AMW-28-20231205	12/05/2023 2:46 PM	12/06/2023 4:37 PM
2312173-025	AMW-26-20231205	12/05/2023 3:16 PM	12/06/2023 4:37 PM
2312173-026	MW-23-20231206	12/06/2023 9:03 AM	12/06/2023 4:37 PM
2312173-027	HC-MW-05-20231206	12/06/2023 9:27 AM	12/06/2023 4:37 PM
2312173-028	AMW-25-20231206	12/06/2023 9:58 AM	12/06/2023 4:37 PM
2312173-029	AMW-22-20231206	12/06/2023 10:59 AM	12/06/2023 4:37 PM
2312173-030	HC-MW-07-20231206	12/06/2023 12:31 PM	12/06/2023 4:37 PM
2312173-031	HC-MW-06-20231206	12/06/2023 1:09 PM	12/06/2023 4:37 PM
2312173-032	TB-20231206	12/06/2023 1:15 PM	12/06/2023 4:37 PM
2312173-033	AMW-29-20231205	12/05/2023 9:13 AM	12/06/2023 4:37 PM

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

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**CLIENT:** Aspect Consulting

**Project:** Maddux

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**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: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 1:18:00 PM

**Project:** Maddux

**Lab ID:** 2312173-001

**Matrix:** Water

**Client Sample ID:** AMW-08-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 6:13:34 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 6:13:34 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 6:13:34 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 6:13:34 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/8/2023 6:13:34 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/8/2023 6:13:34 PM
Surr: Dibromofluoromethane	99.1	79.4 - 125		%Rec	1	12/8/2023 6:13:34 PM
Surr: Toluene-d8	94.6	79 - 124		%Rec	1	12/8/2023 6:13:34 PM
Surr: 1-Bromo-4-fluorobenzene	98.0	80 - 120		%Rec	1	12/8/2023 6:13:34 PM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 1:29:00 PM

**Project:** Maddux

**Lab ID:** 2312173-002

**Matrix:** Water

**Client Sample ID:** AMW-09-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 6:45:40 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 6:45:40 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 6:45:40 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 6:45:40 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/8/2023 6:45:40 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/8/2023 6:45:40 PM
Surr: Dibromofluoromethane	102	79.4 - 125		%Rec	1	12/8/2023 6:45:40 PM
Surr: Toluene-d8	95.2	79 - 124		%Rec	1	12/8/2023 6:45:40 PM
Surr: 1-Bromo-4-fluorobenzene	97.9	80 - 120		%Rec	1	12/8/2023 6:45:40 PM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 1:55:00 PM

**Project:** Maddux

**Lab ID:** 2312173-003

**Matrix:** Water

**Client Sample ID:** AMW-07-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 7:50:03 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 7:50:03 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 7:50:03 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 7:50:03 PM
Trichloroethene (TCE)	0.714	0.400		µg/L	1	12/8/2023 7:50:03 PM
Tetrachloroethene (PCE)	0.773	0.350		µg/L	1	12/8/2023 7:50:03 PM
Surr: Dibromofluoromethane	101	79.4 - 125		%Rec	1	12/8/2023 7:50:03 PM
Surr: Toluene-d8	95.2	79 - 124		%Rec	1	12/8/2023 7:50:03 PM
Surr: 1-Bromo-4-fluorobenzene	98.7	80 - 120		%Rec	1	12/8/2023 7:50:03 PM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 1:55:00 PM

**Project:** Maddux

**Lab ID:** 2312173-004

**Matrix:** Water

**Client Sample ID:** AMW-27-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271      Analyst: SK

Diesel Range Organics	ND	93.5		µg/L	1	12/11/2023 6:18:27 PM
Heavy Oil	ND	93.5		µg/L	1	12/11/2023 6:18:27 PM
Total Petroleum Hydrocarbons	ND	187		µg/L	1	12/11/2023 6:18:27 PM
Surr: 2-Fluorobiphenyl	78.0	50 - 150		%Rec	1	12/11/2023 6:18:27 PM
Surr: o-Terphenyl	96.9	50 - 150		%Rec	1	12/11/2023 6:18:27 PM

**Gasoline by NWTPH-Gx**

Batch ID: 42284      Analyst: KJ

Gasoline Range Organics	78.6	50.0		µg/L	1	12/8/2023 8:22:15 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	12/8/2023 8:22:15 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	12/8/2023 8:22:15 PM

**NOTES:**

Detection is due to non-petroleum compounds

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284      Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 8:22:15 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 8:22:15 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 8:22:15 PM
cis-1,2-Dichloroethene	14.9	0.500		µg/L	1	12/8/2023 8:22:15 PM
Benzene	ND	0.440		µg/L	1	12/8/2023 8:22:15 PM
Trichloroethene (TCE)	11.8	0.400		µg/L	1	12/8/2023 8:22:15 PM
Toluene	ND	1.00		µg/L	1	12/8/2023 8:22:15 PM
Tetrachloroethene (PCE)	31.9	0.350		µg/L	1	12/8/2023 8:22:15 PM
Ethylbenzene	ND	0.400		µg/L	1	12/8/2023 8:22:15 PM
m,p-Xylene	ND	1.00		µg/L	1	12/8/2023 8:22:15 PM
o-Xylene	ND	0.500		µg/L	1	12/8/2023 8:22:15 PM
Surr: Dibromofluoromethane	98.6	79.4 - 125		%Rec	1	12/8/2023 8:22:15 PM
Surr: Toluene-d8	95.0	79 - 124		%Rec	1	12/8/2023 8:22:15 PM
Surr: 1-Bromo-4-fluorobenzene	99.3	80 - 120		%Rec	1	12/8/2023 8:22:15 PM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 2:30:00 PM

**Project:** Maddux

**Lab ID:** 2312173-005

**Matrix:** Water

**Client Sample ID:** AMW-03-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/11/2023 2:38:44 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 2:38:44 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/11/2023 2:38:44 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 2:38:44 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/11/2023 2:38:44 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/11/2023 2:38:44 PM
Surr: Dibromofluoromethane	109	83.8 - 123.8		%Rec	1	12/11/2023 2:38:44 PM
Surr: Toluene-d8	102	82.8 - 125		%Rec	1	12/11/2023 2:38:44 PM
Surr: 1-Bromo-4-fluorobenzene	98.4	79.7 - 119.7		%Rec	1	12/11/2023 2:38:44 PM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 2:56:00 PM

**Project:** Maddux

**Lab ID:** 2312173-006

**Matrix:** Water

**Client Sample ID:** MW-05-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271      Analyst: SK

Diesel Range Organics	ND	96.7		µg/L	1	12/11/2023 6:29:16 PM
Heavy Oil	ND	96.7		µg/L	1	12/11/2023 6:29:16 PM
Total Petroleum Hydrocarbons	ND	193		µg/L	1	12/11/2023 6:29:16 PM
Surr: 2-Fluorobiphenyl	97.3	50 - 150		%Rec	1	12/11/2023 6:29:16 PM
Surr: o-Terphenyl	106	50 - 150		%Rec	1	12/11/2023 6:29:16 PM

**Gasoline by NWTPH-Gx**

Batch ID: 42284      Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	12/8/2023 9:26:35 PM
Surr: Toluene-d8	100	65 - 135		%Rec	1	12/8/2023 9:26:35 PM
Surr: 4-Bromofluorobenzene	103	65 - 135		%Rec	1	12/8/2023 9:26:35 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284      Analyst: KJ

Vinyl chloride	0.596	0.200		µg/L	1	12/8/2023 9:26:35 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 9:26:35 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 9:26:35 PM
cis-1,2-Dichloroethene	2.27	0.500		µg/L	1	12/8/2023 9:26:35 PM
Benzene	ND	0.440		µg/L	1	12/8/2023 9:26:35 PM
Trichloroethene (TCE)	0.662	0.400		µg/L	1	12/8/2023 9:26:35 PM
Toluene	ND	1.00		µg/L	1	12/8/2023 9:26:35 PM
Tetrachloroethene (PCE)	1.20	0.350		µg/L	1	12/8/2023 9:26:35 PM
Ethylbenzene	ND	0.400		µg/L	1	12/8/2023 9:26:35 PM
m,p-Xylene	ND	1.00		µg/L	1	12/8/2023 9:26:35 PM
o-Xylene	ND	0.500		µg/L	1	12/8/2023 9:26:35 PM
Surr: Dibromofluoromethane	100	79.4 - 125		%Rec	1	12/8/2023 9:26:35 PM
Surr: Toluene-d8	96.6	79 - 124		%Rec	1	12/8/2023 9:26:35 PM
Surr: 1-Bromo-4-fluorobenzene	99.9	80 - 120		%Rec	1	12/8/2023 9:26:35 PM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 3:31:00 PM

**Project:** Maddux

**Lab ID:** 2312173-007

**Matrix:** Water

**Client Sample ID:** AMW-20-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Gases by RSK-175**

Batch ID: R88333 Analyst: NR

Methane	0.0122	0.00675		mg/L	1	12/13/2023 3:43:00 PM
Ethene	ND	0.0146		mg/L	1	12/13/2023 3:43:00 PM
Ethane	ND	0.0151		mg/L	1	12/13/2023 3:43:00 PM

**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271 Analyst: SK

Diesel Range Organics	248	93.8		µg/L	1	12/11/2023 6:40:10 PM
Heavy Oil	ND	93.8		µg/L	1	12/11/2023 6:40:10 PM
Total Petroleum Hydrocarbons	248	188		µg/L	1	12/11/2023 6:40:10 PM
Surr: 2-Fluorobiphenyl	96.2	50 - 150		%Rec	1	12/11/2023 6:40:10 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	12/11/2023 6:40:10 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 42284 Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	12/8/2023 9:58:46 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	12/8/2023 9:58:46 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	12/8/2023 9:58:46 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284 Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 9:58:46 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 9:58:46 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 9:58:46 PM
cis-1,2-Dichloroethene	6.20	0.500		µg/L	1	12/8/2023 9:58:46 PM
Benzene	ND	0.440		µg/L	1	12/8/2023 9:58:46 PM
Trichloroethene (TCE)	4.84	0.400		µg/L	1	12/8/2023 9:58:46 PM
Toluene	ND	1.00		µg/L	1	12/8/2023 9:58:46 PM
Tetrachloroethene (PCE)	12.9	0.350		µg/L	1	12/8/2023 9:58:46 PM
Ethylbenzene	ND	0.400		µg/L	1	12/8/2023 9:58:46 PM
m,p-Xylene	ND	1.00		µg/L	1	12/8/2023 9:58:46 PM
o-Xylene	ND	0.500		µg/L	1	12/8/2023 9:58:46 PM
Surr: Dibromofluoromethane	99.5	79.4 - 125		%Rec	1	12/8/2023 9:58:46 PM
Surr: Toluene-d8	95.0	79 - 124		%Rec	1	12/8/2023 9:58:46 PM
Surr: 1-Bromo-4-fluorobenzene	99.2	80 - 120		%Rec	1	12/8/2023 9:58:46 PM



# Analytical Report

Work Order: 2312173  
 Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 3:31:00 PM

**Project:** Maddux

**Lab ID:** 2312173-007

**Matrix:** Water

**Client Sample ID:** AMW-20-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Metals by EPA Method 200.8**

Batch ID: 42291 Analyst: JR

Iron	ND	60.0		µg/L	1	12/11/2023 3:42:00 PM
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**Total Organic Carbon by SM 5310C**

Batch ID: R88266 Analyst: FG

Total Organic Carbon	5.72	0.700		mg/L	1	12/12/2023 6:29:00 AM
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# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 3:32:00 PM

**Project:** Maddux

**Lab ID:** 2312173-008

**Matrix:** Water

**Client Sample ID:** AMW-FD1-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Gases by RSK-175**

Batch ID: R88333 Analyst: NR

Methane	0.0116	0.00675		mg/L	1	12/13/2023 3:46:00 PM
Ethene	ND	0.0146		mg/L	1	12/13/2023 3:46:00 PM
Ethane	ND	0.0151		mg/L	1	12/13/2023 3:46:00 PM

**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271 Analyst: SK

Diesel Range Organics	246	94.2		µg/L	1	12/11/2023 6:50:59 PM
Heavy Oil	ND	94.2		µg/L	1	12/11/2023 6:50:59 PM
Total Petroleum Hydrocarbons	246	188		µg/L	1	12/11/2023 6:50:59 PM
Surr: 2-Fluorobiphenyl	97.9	50 - 150		%Rec	1	12/11/2023 6:50:59 PM
Surr: o-Terphenyl	106	50 - 150		%Rec	1	12/11/2023 6:50:59 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 42284 Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	12/8/2023 10:30:57 PM
Surr: Toluene-d8	99.9	65 - 135		%Rec	1	12/8/2023 10:30:57 PM
Surr: 4-Bromofluorobenzene	103	65 - 135		%Rec	1	12/8/2023 10:30:57 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284 Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 10:30:57 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 10:30:57 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 10:30:57 PM
cis-1,2-Dichloroethene	6.10	0.500		µg/L	1	12/8/2023 10:30:57 PM
Benzene	ND	0.440		µg/L	1	12/8/2023 10:30:57 PM
Trichloroethene (TCE)	4.73	0.400		µg/L	1	12/8/2023 10:30:57 PM
Toluene	ND	1.00		µg/L	1	12/8/2023 10:30:57 PM
Tetrachloroethene (PCE)	13.2	0.350		µg/L	1	12/8/2023 10:30:57 PM
Ethylbenzene	ND	0.400		µg/L	1	12/8/2023 10:30:57 PM
m,p-Xylene	ND	1.00		µg/L	1	12/8/2023 10:30:57 PM
o-Xylene	ND	0.500		µg/L	1	12/8/2023 10:30:57 PM
Surr: Dibromofluoromethane	100	79.4 - 125		%Rec	1	12/8/2023 10:30:57 PM
Surr: Toluene-d8	95.5	79 - 124		%Rec	1	12/8/2023 10:30:57 PM
Surr: 1-Bromo-4-fluorobenzene	99.9	80 - 120		%Rec	1	12/8/2023 10:30:57 PM



# Analytical Report

Work Order: 2312173  
 Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 3:32:00 PM

**Project:** Maddux

**Lab ID:** 2312173-008

**Matrix:** Water

**Client Sample ID:** AMW-FD1-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Metals by EPA Method 200.8**

Batch ID: 42291      Analyst: JR

Iron	ND	60.0		µg/L	1	12/11/2023 3:45:00 PM
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**Total Organic Carbon by SM 5310C**

Batch ID: R88266      Analyst: FG

Total Organic Carbon	5.97	0.700		mg/L	1	12/12/2023 8:03:00 AM
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# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/4/2023 3:42:00 PM

**Project:** Maddux

**Lab ID:** 2312173-009

**Matrix:** Water

**Client Sample ID:** AMW-24-20231204

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	4.00	D	µg/L	20	12/11/2023 3:10:20 PM
1,1-Dichloroethene	ND	10.0	D	µg/L	20	12/11/2023 3:10:20 PM
trans-1,2-Dichloroethene	ND	7.00	D	µg/L	20	12/11/2023 3:10:20 PM
cis-1,2-Dichloroethene	ND	10.0	D	µg/L	20	12/11/2023 3:10:20 PM
Trichloroethene (TCE)	14.8	8.00	D	µg/L	20	12/11/2023 3:10:20 PM
Tetrachloroethene (PCE)	417	7.00	D	µg/L	20	12/11/2023 3:10:20 PM
Surr: Dibromofluoromethane	107	83.8 - 123.8	D	%Rec	20	12/11/2023 3:10:20 PM
Surr: Toluene-d8	103	82.8 - 125	D	%Rec	20	12/11/2023 3:10:20 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	79.7 - 119.7	D	%Rec	20	12/11/2023 3:10:20 PM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 8:35:00 AM

**Project:** Maddux

**Lab ID:** 2312173-010

**Matrix:** Water

**Client Sample ID:** MW-06-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271

Analyst: SK

Diesel Range Organics	208	93.7		µg/L	1	12/12/2023 3:50:28 PM
Heavy Oil	ND	93.7		µg/L	1	12/12/2023 3:50:28 PM
Total Petroleum Hydrocarbons	208	187		µg/L	1	12/12/2023 3:50:28 PM
Surr: 2-Fluorobiphenyl	92.1	50 - 150		%Rec	1	12/12/2023 3:50:28 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	12/12/2023 3:50:28 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 42284

Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	12/8/2023 11:03:17 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	12/8/2023 11:03:17 PM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	12/8/2023 11:03:17 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 11:03:17 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 11:03:17 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 11:03:17 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 11:03:17 PM
Benzene	ND	0.440		µg/L	1	12/8/2023 11:03:17 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/8/2023 11:03:17 PM
Toluene	ND	1.00		µg/L	1	12/8/2023 11:03:17 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/8/2023 11:03:17 PM
Ethylbenzene	ND	0.400		µg/L	1	12/8/2023 11:03:17 PM
m,p-Xylene	ND	1.00		µg/L	1	12/8/2023 11:03:17 PM
o-Xylene	ND	0.500		µg/L	1	12/8/2023 11:03:17 PM
Surr: Dibromofluoromethane	100	79.4 - 125		%Rec	1	12/8/2023 11:03:17 PM
Surr: Toluene-d8	95.7	79 - 124		%Rec	1	12/8/2023 11:03:17 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	80 - 120		%Rec	1	12/8/2023 11:03:17 PM



# Analytical Report

Work Order: 2312173  
 Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 8:27:00 AM

**Project:** Maddux

**Lab ID:** 2312173-011

**Matrix:** Water

**Client Sample ID:** HC-MW-04-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/11/2023 4:13:48 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 4:13:48 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/11/2023 4:13:48 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 4:13:48 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/11/2023 4:13:48 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/11/2023 4:13:48 PM
Surr: Dibromofluoromethane	105	83.8 - 123.8		%Rec	1	12/11/2023 4:13:48 PM
Surr: Toluene-d8	99.8	82.8 - 125		%Rec	1	12/11/2023 4:13:48 PM
Surr: 1-Bromo-4-fluorobenzene	98.5	79.7 - 119.7		%Rec	1	12/11/2023 4:13:48 PM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 9:16:00 AM

**Project:** Maddux

**Lab ID:** 2312173-012

**Matrix:** Water

**Client Sample ID:** MW-10-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271 Analyst: SK

Diesel Range Organics	436	93.9		µg/L	1	12/12/2023 4:01:34 PM
Heavy Oil	ND	93.9		µg/L	1	12/12/2023 4:01:34 PM
Total Petroleum Hydrocarbons	436	188		µg/L	1	12/12/2023 4:01:34 PM
Surr: 2-Fluorobiphenyl	97.2	50 - 150		%Rec	1	12/12/2023 4:01:34 PM
Surr: o-Terphenyl	105	50 - 150		%Rec	1	12/12/2023 4:01:34 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 42284 Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	12/8/2023 11:35:32 PM
Surr: Toluene-d8	100	65 - 135		%Rec	1	12/8/2023 11:35:32 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	12/8/2023 11:35:32 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284 Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 11:35:32 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 11:35:32 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 11:35:32 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 11:35:32 PM
Benzene	0.496	0.440		µg/L	1	12/8/2023 11:35:32 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/8/2023 11:35:32 PM
Toluene	ND	1.00		µg/L	1	12/8/2023 11:35:32 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/8/2023 11:35:32 PM
Ethylbenzene	ND	0.400		µg/L	1	12/8/2023 11:35:32 PM
m,p-Xylene	ND	1.00		µg/L	1	12/8/2023 11:35:32 PM
o-Xylene	ND	0.500		µg/L	1	12/8/2023 11:35:32 PM
Surr: Dibromofluoromethane	101	79.4 - 125		%Rec	1	12/8/2023 11:35:32 PM
Surr: Toluene-d8	95.9	79 - 124		%Rec	1	12/8/2023 11:35:32 PM
Surr: 1-Bromo-4-fluorobenzene	98.9	80 - 120		%Rec	1	12/8/2023 11:35:32 PM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 9:57:00 AM

**Project:** Maddux

**Lab ID:** 2312173-013

**Matrix:** Water

**Client Sample ID:** AMW-16-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271

Analyst: SK

Diesel Range Organics	314	93.6		µg/L	1	12/12/2023 4:12:40 PM
Heavy Oil	ND	93.6		µg/L	1	12/12/2023 4:12:40 PM
Total Petroleum Hydrocarbons	314	187		µg/L	1	12/12/2023 4:12:40 PM
Surr: 2-Fluorobiphenyl	93.3	50 - 150		%Rec	1	12/12/2023 4:12:40 PM
Surr: o-Terphenyl	101	50 - 150		%Rec	1	12/12/2023 4:12:40 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 42284

Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	12/9/2023 3:22:07 AM
Surr: Toluene-d8	101	65 - 135		%Rec	1	12/9/2023 3:22:07 AM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	12/9/2023 3:22:07 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/9/2023 3:22:07 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 3:22:07 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/9/2023 3:22:07 AM
cis-1,2-Dichloroethene	0.513	0.500		µg/L	1	12/9/2023 3:22:07 AM
Benzene	ND	0.440		µg/L	1	12/9/2023 3:22:07 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/9/2023 3:22:07 AM
Toluene	ND	1.00		µg/L	1	12/9/2023 3:22:07 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/9/2023 3:22:07 AM
Ethylbenzene	ND	0.400		µg/L	1	12/9/2023 3:22:07 AM
m,p-Xylene	ND	1.00		µg/L	1	12/9/2023 3:22:07 AM
o-Xylene	ND	0.500		µg/L	1	12/9/2023 3:22:07 AM
Surr: Dibromofluoromethane	98.6	79.4 - 125		%Rec	1	12/9/2023 3:22:07 AM
Surr: Toluene-d8	100	79 - 124		%Rec	1	12/9/2023 3:22:07 AM
Surr: 1-Bromo-4-fluorobenzene	99.7	80 - 120		%Rec	1	12/9/2023 3:22:07 AM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 9:57:00 AM

**Project:** Maddux

**Lab ID:** 2312173-014

**Matrix:** Water

**Client Sample ID:** HC-MW-01-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/11/2023 4:45:31 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 4:45:31 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/11/2023 4:45:31 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 4:45:31 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/11/2023 4:45:31 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/11/2023 4:45:31 PM
Surr: Dibromofluoromethane	100	83.8 - 123.8		%Rec	1	12/11/2023 4:45:31 PM
Surr: Toluene-d8	97.8	82.8 - 125		%Rec	1	12/11/2023 4:45:31 PM
Surr: 1-Bromo-4-fluorobenzene	98.6	79.7 - 119.7		%Rec	1	12/11/2023 4:45:31 PM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 10:38:00 AM

**Project:** Maddux

**Lab ID:** 2312173-015

**Matrix:** Water

**Client Sample ID:** AMW-14-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/11/2023 5:17:18 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 5:17:18 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/11/2023 5:17:18 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 5:17:18 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/11/2023 5:17:18 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/11/2023 5:17:18 PM
Surr: Dibromofluoromethane	108	83.8 - 123.8		%Rec	1	12/11/2023 5:17:18 PM
Surr: Toluene-d8	103	82.8 - 125		%Rec	1	12/11/2023 5:17:18 PM
Surr: 1-Bromo-4-fluorobenzene	97.8	79.7 - 119.7		%Rec	1	12/11/2023 5:17:18 PM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 10:39:00 AM

**Project:** Maddux

**Lab ID:** 2312173-016

**Matrix:** Water

**Client Sample ID:** HC-MW-02-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	2.00	D	µg/L	10	12/11/2023 6:52:47 PM
1,1-Dichloroethene	ND	5.00	D	µg/L	10	12/11/2023 6:52:47 PM
trans-1,2-Dichloroethene	ND	3.50	D	µg/L	10	12/11/2023 6:52:47 PM
cis-1,2-Dichloroethene	ND	5.00	D	µg/L	10	12/11/2023 6:52:47 PM
Trichloroethene (TCE)	10.4	4.00	D	µg/L	10	12/11/2023 6:52:47 PM
Tetrachloroethene (PCE)	87.7	3.50	D	µg/L	10	12/11/2023 6:52:47 PM
Surr: Dibromofluoromethane	97.9	83.8 - 123.8	D	%Rec	10	12/11/2023 6:52:47 PM
Surr: Toluene-d8	101	82.8 - 125	D	%Rec	10	12/11/2023 6:52:47 PM
Surr: 1-Bromo-4-fluorobenzene	99.3	79.7 - 119.7	D	%Rec	10	12/11/2023 6:52:47 PM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 11:13:00 AM

**Project:** Maddux

**Lab ID:** 2312173-017

**Matrix:** Water

**Client Sample ID:** AMW-11-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	0.924	0.200		µg/L	1	12/11/2023 5:49:05 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 5:49:05 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/11/2023 5:49:05 PM
cis-1,2-Dichloroethene	0.659	0.500		µg/L	1	12/11/2023 5:49:05 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/11/2023 5:49:05 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/11/2023 5:49:05 PM
Surr: Dibromofluoromethane	110	83.8 - 123.8		%Rec	1	12/11/2023 5:49:05 PM
Surr: Toluene-d8	104	82.8 - 125		%Rec	1	12/11/2023 5:49:05 PM
Surr: 1-Bromo-4-fluorobenzene	97.1	79.7 - 119.7		%Rec	1	12/11/2023 5:49:05 PM



# Analytical Report

Work Order: 2312173  
 Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 11:26:00 AM

**Project:** Maddux

**Lab ID:** 2312173-018

**Matrix:** Water

**Client Sample ID:** AMW-06-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/11/2023 6:20:57 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 6:20:57 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/11/2023 6:20:57 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 6:20:57 PM
Trichloroethene (TCE)	0.926	0.400		µg/L	1	12/11/2023 6:20:57 PM
Tetrachloroethene (PCE)	3.62	0.350		µg/L	1	12/11/2023 6:20:57 PM
Surr: Dibromofluoromethane	101	83.8 - 123.8		%Rec	1	12/11/2023 6:20:57 PM
Surr: Toluene-d8	94.9	82.8 - 125		%Rec	1	12/11/2023 6:20:57 PM
Surr: 1-Bromo-4-fluorobenzene	97.3	79.7 - 119.7		%Rec	1	12/11/2023 6:20:57 PM



# Analytical Report

Work Order: **2312173**  
 Date Reported: **12/13/2023**

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 11:46:00 AM

**Project:** Maddux

**Lab ID:** 2312173-019

**Matrix:** Water

**Client Sample ID:** AMW-15-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	4.53	0.200		µg/L	1	12/11/2023 11:41:12 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/11/2023 11:41:12 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/11/2023 11:41:12 PM
cis-1,2-Dichloroethene	1.24	0.500		µg/L	1	12/11/2023 11:41:12 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/11/2023 11:41:12 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/11/2023 11:41:12 PM
Surr: Dibromofluoromethane	94.8	83.8 - 123.8		%Rec	1	12/11/2023 11:41:12 PM
Surr: Toluene-d8	96.0	82.8 - 125		%Rec	1	12/11/2023 11:41:12 PM
Surr: 1-Bromo-4-fluorobenzene	101	79.7 - 119.7		%Rec	1	12/11/2023 11:41:12 PM



# Analytical Report

Work Order: 2312173  
 Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 12:28:00 PM

**Project:** Maddux

**Lab ID:** 2312173-020

**Matrix:** Water

**Client Sample ID:** MW-07-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/12/2023 12:13:18 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2023 12:13:18 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/12/2023 12:13:18 AM
cis-1,2-Dichloroethene	4.00	0.500		µg/L	1	12/12/2023 12:13:18 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/12/2023 12:13:18 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/12/2023 12:13:18 AM
Surr: Dibromofluoromethane	98.1	83.8 - 123.8		%Rec	1	12/12/2023 12:13:18 AM
Surr: Toluene-d8	94.6	82.8 - 125		%Rec	1	12/12/2023 12:13:18 AM
Surr: 1-Bromo-4-fluorobenzene	98.2	79.7 - 119.7		%Rec	1	12/12/2023 12:13:18 AM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 1:06:00 PM

**Project:** Maddux

**Lab ID:** 2312173-021

**Matrix:** Water

**Client Sample ID:** AMW-18-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/12/2023 12:45:26 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2023 12:45:26 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/12/2023 12:45:26 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/12/2023 12:45:26 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/12/2023 12:45:26 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/12/2023 12:45:26 AM
Surr: Dibromofluoromethane	101	83.8 - 123.8		%Rec	1	12/12/2023 12:45:26 AM
Surr: Toluene-d8	95.6	82.8 - 125		%Rec	1	12/12/2023 12:45:26 AM
Surr: 1-Bromo-4-fluorobenzene	100	79.7 - 119.7		%Rec	1	12/12/2023 12:45:26 AM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 1:38:00 PM

**Project:** Maddux

**Lab ID:** 2312173-022

**Matrix:** Water

**Client Sample ID:** AMW-19-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Dissolved Gases by RSK-175**

Batch ID: R88333      Analyst: NR

Methane	1.32	0.0675	D	mg/L	10	12/13/2023 3:59:00 PM
Ethene	ND	0.0146		mg/L	1	12/13/2023 3:50:00 PM
Ethane	0.0211	0.0151		mg/L	1	12/13/2023 3:50:00 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287      Analyst: KJ

Vinyl chloride	8.09	2.00	D	µg/L	10	12/12/2023 1:17:36 AM
1,1-Dichloroethene	ND	5.00	D	µg/L	10	12/12/2023 1:17:36 AM
trans-1,2-Dichloroethene	11.4	3.50	D	µg/L	10	12/12/2023 1:17:36 AM
cis-1,2-Dichloroethene	141	5.00	D	µg/L	10	12/12/2023 1:17:36 AM
Trichloroethene (TCE)	47.6	4.00	D	µg/L	10	12/12/2023 1:17:36 AM
Tetrachloroethene (PCE)	53.0	3.50	D	µg/L	10	12/12/2023 1:17:36 AM
Surr: Dibromofluoromethane	95.3	83.8 - 123.8	D	%Rec	10	12/12/2023 1:17:36 AM
Surr: Toluene-d8	94.6	82.8 - 125	D	%Rec	10	12/12/2023 1:17:36 AM
Surr: 1-Bromo-4-fluorobenzene	99.9	79.7 - 119.7	D	%Rec	10	12/12/2023 1:17:36 AM

**Dissolved Metals by EPA Method 200.8**

Batch ID: 42291      Analyst: JR

Iron	18,900	600	D	µg/L	10	12/12/2023 2:22:00 PM
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**Total Organic Carbon by SM 5310C**

Batch ID: R88266      Analyst: FG

Total Organic Carbon	6.22	0.700		mg/L	1	12/12/2023 8:25:00 AM
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# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 1:45:00 PM

**Project:** Maddux

**Lab ID:** 2312173-023

**Matrix:** Water

**Client Sample ID:** AMW-17-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271 Analyst: SK

Diesel Range Organics	400	94.3		µg/L	1	12/12/2023 4:23:47 PM
Heavy Oil	ND	94.3		µg/L	1	12/12/2023 4:23:47 PM
Total Petroleum Hydrocarbons	400	189		µg/L	1	12/12/2023 4:23:47 PM
Surr: 2-Fluorobiphenyl	93.7	50 - 150		%Rec	1	12/12/2023 4:23:47 PM
Surr: o-Terphenyl	97.1	50 - 150		%Rec	1	12/12/2023 4:23:47 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 42284 Analyst: KJ

Gasoline Range Organics	107	50.0		µg/L	1	12/9/2023 3:54:28 AM
Surr: Toluene-d8	101	65 - 135		%Rec	1	12/9/2023 3:54:28 AM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	12/9/2023 3:54:28 AM

**NOTES:**

Detection is biased high due to non-petroleum compounds

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284 Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/9/2023 3:54:28 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 3:54:28 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/9/2023 3:54:28 AM
cis-1,2-Dichloroethene	0.848	0.500		µg/L	1	12/9/2023 3:54:28 AM
Benzene	ND	0.440		µg/L	1	12/9/2023 3:54:28 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/9/2023 3:54:28 AM
Toluene	ND	1.00		µg/L	1	12/9/2023 3:54:28 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/9/2023 3:54:28 AM
Ethylbenzene	ND	0.400		µg/L	1	12/9/2023 3:54:28 AM
m,p-Xylene	ND	1.00		µg/L	1	12/9/2023 3:54:28 AM
o-Xylene	ND	0.500		µg/L	1	12/9/2023 3:54:28 AM
Surr: Dibromofluoromethane	109	79.4 - 125		%Rec	1	12/9/2023 3:54:28 AM
Surr: Toluene-d8	111	79 - 124		%Rec	1	12/9/2023 3:54:28 AM
Surr: 1-Bromo-4-fluorobenzene	98.9	80 - 120		%Rec	1	12/9/2023 3:54:28 AM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 2:46:00 PM

**Project:** Maddux

**Lab ID:** 2312173-024

**Matrix:** Water

**Client Sample ID:** AMW-28-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 42271

Analyst: SK

Diesel Range Organics	141	95.2		µg/L	1	12/12/2023 4:34:53 PM
Heavy Oil	ND	95.2		µg/L	1	12/12/2023 4:34:53 PM
Total Petroleum Hydrocarbons	ND	190		µg/L	1	12/12/2023 4:34:53 PM
Surr: 2-Fluorobiphenyl	94.6	50 - 150		%Rec	1	12/12/2023 4:34:53 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	12/12/2023 4:34:53 PM

**NOTES:**

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

**Gasoline by NWTPH-Gx**

Batch ID: 42284

Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	12/9/2023 4:26:46 AM
Surr: Toluene-d8	100	65 - 135		%Rec	1	12/9/2023 4:26:46 AM
Surr: 4-Bromofluorobenzene	103	65 - 135		%Rec	1	12/9/2023 4:26:46 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/9/2023 4:26:46 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 4:26:46 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/9/2023 4:26:46 AM
cis-1,2-Dichloroethene	6.55	0.500		µg/L	1	12/9/2023 4:26:46 AM
Benzene	ND	0.440		µg/L	1	12/9/2023 4:26:46 AM
Trichloroethene (TCE)	4.54	0.400		µg/L	1	12/9/2023 4:26:46 AM
Toluene	ND	1.00		µg/L	1	12/9/2023 4:26:46 AM
Tetrachloroethene (PCE)	6.45	0.350		µg/L	1	12/9/2023 4:26:46 AM
Ethylbenzene	ND	0.400		µg/L	1	12/9/2023 4:26:46 AM
m,p-Xylene	ND	1.00		µg/L	1	12/9/2023 4:26:46 AM
o-Xylene	ND	0.500		µg/L	1	12/9/2023 4:26:46 AM
Surr: Dibromofluoromethane	95.2	79.4 - 125		%Rec	1	12/9/2023 4:26:46 AM
Surr: Toluene-d8	97.5	79 - 124		%Rec	1	12/9/2023 4:26:46 AM
Surr: 1-Bromo-4-fluorobenzene	100	80 - 120		%Rec	1	12/9/2023 4:26:46 AM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 3:16:00 PM

**Project:** Maddux

**Lab ID:** 2312173-025

**Matrix:** Water

**Client Sample ID:** AMW-26-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	0.352	0.200		µg/L	1	12/9/2023 5:31:41 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 5:31:41 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/9/2023 5:31:41 AM
cis-1,2-Dichloroethene	1.23	0.500		µg/L	1	12/9/2023 5:31:41 AM
Trichloroethene (TCE)	1.54	0.400		µg/L	1	12/9/2023 5:31:41 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/9/2023 5:31:41 AM
Surr: Dibromofluoromethane	106	79.4 - 125		%Rec	1	12/9/2023 5:31:41 AM
Surr: Toluene-d8	107	79 - 124		%Rec	1	12/9/2023 5:31:41 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	80 - 120		%Rec	1	12/9/2023 5:31:41 AM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/6/2023 9:03:00 AM

**Project:** Maddux

**Lab ID:** 2312173-026

**Matrix:** Water

**Client Sample ID:** MW-23-20231206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/9/2023 6:04:02 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 6:04:02 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/9/2023 6:04:02 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 6:04:02 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/9/2023 6:04:02 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/9/2023 6:04:02 AM
Surr: Dibromofluoromethane	94.5	79.4 - 125		%Rec	1	12/9/2023 6:04:02 AM
Surr: Toluene-d8	95.6	79 - 124		%Rec	1	12/9/2023 6:04:02 AM
Surr: 1-Bromo-4-fluorobenzene	98.0	80 - 120		%Rec	1	12/9/2023 6:04:02 AM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/6/2023 9:27:00 AM

**Project:** Maddux

**Lab ID:** 2312173-027

**Matrix:** Water

**Client Sample ID:** HC-MW-05-20231206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/9/2023 6:36:29 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 6:36:29 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/9/2023 6:36:29 AM
cis-1,2-Dichloroethene	0.508	0.500		µg/L	1	12/9/2023 6:36:29 AM
Trichloroethene (TCE)	0.748	0.400		µg/L	1	12/9/2023 6:36:29 AM
Tetrachloroethene (PCE)	0.486	0.350		µg/L	1	12/9/2023 6:36:29 AM
Surr: Dibromofluoromethane	95.0	79.4 - 125		%Rec	1	12/9/2023 6:36:29 AM
Surr: Toluene-d8	100	79 - 124		%Rec	1	12/9/2023 6:36:29 AM
Surr: 1-Bromo-4-fluorobenzene	98.9	80 - 120		%Rec	1	12/9/2023 6:36:29 AM



# Analytical Report

Work Order: 2312173  
 Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/6/2023 9:58:00 AM

**Project:** Maddux

**Lab ID:** 2312173-028

**Matrix:** Water

**Client Sample ID:** AMW-25-20231206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/9/2023 7:08:50 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 7:08:50 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/9/2023 7:08:50 AM
cis-1,2-Dichloroethene	14.6	0.500		µg/L	1	12/9/2023 7:08:50 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/9/2023 7:08:50 AM
Tetrachloroethene (PCE)	0.454	0.350		µg/L	1	12/9/2023 7:08:50 AM
Surr: Dibromofluoromethane	95.1	79.4 - 125		%Rec	1	12/9/2023 7:08:50 AM
Surr: Toluene-d8	96.6	79 - 124		%Rec	1	12/9/2023 7:08:50 AM
Surr: 1-Bromo-4-fluorobenzene	98.6	80 - 120		%Rec	1	12/9/2023 7:08:50 AM



# Analytical Report

Work Order: 2312173  
Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/6/2023 10:59:00 AM

**Project:** Maddux

**Lab ID:** 2312173-029

**Matrix:** Water

**Client Sample ID:** AMW-22-20231206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	0.262	0.200		µg/L	1	12/12/2023 1:49:49 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2023 1:49:49 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/12/2023 1:49:49 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/12/2023 1:49:49 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/12/2023 1:49:49 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/12/2023 1:49:49 AM
Surr: Dibromofluoromethane	94.8	83.8 - 123.8		%Rec	1	12/12/2023 1:49:49 AM
Surr: Toluene-d8	95.1	82.8 - 125		%Rec	1	12/12/2023 1:49:49 AM
Surr: 1-Bromo-4-fluorobenzene	99.4	79.7 - 119.7		%Rec	1	12/12/2023 1:49:49 AM



# Analytical Report

Work Order: 2312173  
 Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/6/2023 12:31:00 PM

**Project:** Maddux

**Lab ID:** 2312173-030

**Matrix:** Water

**Client Sample ID:** HC-MW-07-20231206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/12/2023 2:22:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2023 2:22:00 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/12/2023 2:22:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/12/2023 2:22:00 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/12/2023 2:22:00 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/12/2023 2:22:00 AM
Surr: Dibromofluoromethane	96.9	83.8 - 123.8		%Rec	1	12/12/2023 2:22:00 AM
Surr: Toluene-d8	94.5	82.8 - 125		%Rec	1	12/12/2023 2:22:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.7	79.7 - 119.7		%Rec	1	12/12/2023 2:22:00 AM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/6/2023 1:09:00 PM

**Project:** Maddux

**Lab ID:** 2312173-031

**Matrix:** Water

**Client Sample ID:** HC-MW-06-20231206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42287

Analyst: KJ

Vinyl chloride	1.55	0.200		µg/L	1	12/12/2023 2:54:08 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/12/2023 2:54:08 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/12/2023 2:54:08 AM
cis-1,2-Dichloroethene	2.42	0.500		µg/L	1	12/12/2023 2:54:08 AM
Trichloroethene (TCE)	0.411	0.400		µg/L	1	12/12/2023 2:54:08 AM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/12/2023 2:54:08 AM
Surr: Dibromofluoromethane	94.8	83.8 - 123.8		%Rec	1	12/12/2023 2:54:08 AM
Surr: Toluene-d8	95.1	82.8 - 125		%Rec	1	12/12/2023 2:54:08 AM
Surr: 1-Bromo-4-fluorobenzene	101	79.7 - 119.7		%Rec	1	12/12/2023 2:54:08 AM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/6/2023 1:15:00 PM

**Project:** Maddux

**Lab ID:** 2312173-032

**Matrix:** Water

**Client Sample ID:** TB-20231206

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 42284      Analyst: KJ

Gasoline Range Organics	ND	50.0		µg/L	1	12/8/2023 5:41:41 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	12/8/2023 5:41:41 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	12/8/2023 5:41:41 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284      Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/8/2023 5:41:41 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 5:41:41 PM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/8/2023 5:41:41 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/8/2023 5:41:41 PM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/8/2023 5:41:41 PM
Tetrachloroethene (PCE)	ND	0.350		µg/L	1	12/8/2023 5:41:41 PM
Surr: Dibromofluoromethane	100	79.4 - 125		%Rec	1	12/8/2023 5:41:41 PM
Surr: Toluene-d8	96.5	79 - 124		%Rec	1	12/8/2023 5:41:41 PM
Surr: 1-Bromo-4-fluorobenzene	99.5	80 - 120		%Rec	1	12/8/2023 5:41:41 PM



# Analytical Report

Work Order: 2312173

Date Reported: 12/13/2023

**Client:** Aspect Consulting

**Collection Date:** 12/5/2023 9:13:00 AM

**Project:** Maddux

**Lab ID:** 2312173-033

**Matrix:** Water

**Client Sample ID:** AMW-29-20231205

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 42284

Analyst: KJ

Vinyl chloride	ND	0.200		µg/L	1	12/9/2023 4:59:13 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 4:59:13 AM
trans-1,2-Dichloroethene	ND	0.350		µg/L	1	12/9/2023 4:59:13 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	12/9/2023 4:59:13 AM
Trichloroethene (TCE)	ND	0.400		µg/L	1	12/9/2023 4:59:13 AM
Tetrachloroethene (PCE)	0.641	0.350		µg/L	1	12/9/2023 4:59:13 AM
Surr: Dibromofluoromethane	93.7	79.4 - 125		%Rec	1	12/9/2023 4:59:13 AM
Surr: Toluene-d8	95.1	79 - 124		%Rec	1	12/9/2023 4:59:13 AM
Surr: 1-Bromo-4-fluorobenzene	98.3	80 - 120		%Rec	1	12/9/2023 4:59:13 AM



**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Total Organic Carbon by SM 5310C**

Sample ID: <b>2312243-001DDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>	Prep Date: <b>12/12/2023</b>	RunNo: <b>88266</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R88266</b>	Analysis Date: <b>12/12/2023</b>	SeqNo: <b>1843956</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.30	0.700						5.314	0.339	20	

Sample ID: <b>2312243-001DMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>12/12/2023</b>	RunNo: <b>88266</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R88266</b>	Analysis Date: <b>12/12/2023</b>	SeqNo: <b>1843957</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	10.2	0.700	5.000	5.314	98.6	41.1	150				

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

## QC SUMMARY REPORT

### Dissolved Metals by EPA Method 200.8

Sample ID: <b>MB-42291</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88278</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>42291</b>		Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842784</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	ND	60.0									
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Sample ID: <b>2312061-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88278</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>42291</b>		Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842787</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	ND	60.0							0	30
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Sample ID: <b>2312061-001BMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88278</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>42291</b>		Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842788</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1,150	60.0	1,000	0	115	50	150				
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Sample ID: <b>LCS-42291</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88278</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>42291</b>		Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842813</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	999	60.0	1,000	0	99.9	85	115				
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Sample ID: <b>MB-42292 FB</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88278</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>42291</b>		Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842867</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	ND	60.0									
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**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA Method 200.8**

Sample ID: <b>2312171-004BMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88278</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>42291</b>	Analysis Date: <b>12/12/2023</b>	SeqNo: <b>1843437</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1,240	60.0	1,000	146.5	110	50	150				

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID: <b>MB-42271</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>12/8/2023</b>	RunNo: <b>88277</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>42271</b>				Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842742</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	94.1									
Heavy Oil	ND	94.1									
Total Petroleum Hydrocarbons	ND	188									
Surr: 2-Fluorobiphenyl	15.3		23.54		64.9	50	150				
Surr: o-Terphenyl	17.4		23.54		73.9	50	150				

Sample ID: <b>LCS-42271</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>12/8/2023</b>	RunNo: <b>88277</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>42271</b>				Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842743</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	924	188	1,176	0	78.6	35.1	118				
Surr: 2-Fluorobiphenyl	41.7		47.05		88.6	50	150				
Surr: o-Terphenyl	47.8		47.05		102	50	150				

Sample ID: <b>LCSD-42271</b>	SampType: <b>LCSD</b>	Units: <b>µg/L</b>			Prep Date: <b>12/8/2023</b>	RunNo: <b>88277</b>					
Client ID: <b>LCSW02</b>	Batch ID: <b>42271</b>				Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842744</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	973	187	1,171	0	83.1	35.1	118	924.1	5.12	30	
Surr: 2-Fluorobiphenyl	21.5		23.42		91.7	50	150		0		
Surr: o-Terphenyl	26.3		23.42		112	50	150		0		

Sample ID: <b>2312168-004BDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>12/8/2023</b>	RunNo: <b>88277</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>42271</b>				Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1843349</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	158	93.9						186.6	16.6	30	
Heavy Oil	ND	93.9						0		30	
Total Petroleum Hydrocarbons	ND	188						0		30	
Surr: 2-Fluorobiphenyl	20.8		23.48		88.8	50	150		0		

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID: <b>2312168-004BDUP</b>		SampType: <b>DUP</b>		Units: <b>µg/L</b>		Prep Date: <b>12/8/2023</b>		RunNo: <b>88277</b>			
Client ID: <b>BATCH</b>		Batch ID: <b>42271</b>		Analysis Date: <b>12/11/2023</b>		SeqNo: <b>1843349</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: o-Terphenyl	7.72		23.48		32.9	50	150		0		S

**NOTES:**

S - Outlying surrogate recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

## QC SUMMARY REPORT

### Dissolved Gases by RSK-175

Sample ID: <b>LCS-R88333</b>		SampType: <b>LCS</b>		Units: <b>ppmv</b>		Prep Date: <b>12/13/2023</b>		RunNo: <b>88333</b>			
Client ID: <b>LCSW</b>		Batch ID: <b>R88333</b>				Analysis Date: <b>12/13/2023</b>		SeqNo: <b>1844338</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	941	0.00675	1,000	0	94.1	73.6	124				
Ethene	956	0.0146	1,000	0	95.6	76.3	122				
Ethane	933	0.0151	1,000	0	93.3	76.1	123				

Sample ID: <b>MB-R88333</b>		SampType: <b>MBLK</b>		Units: <b>mg/L</b>		Prep Date: <b>12/13/2023</b>		RunNo: <b>88333</b>			
Client ID: <b>MBLKW</b>		Batch ID: <b>R88333</b>				Analysis Date: <b>12/13/2023</b>		SeqNo: <b>1844328</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: <b>2312138-001CREP</b>		SampType: <b>REP</b>		Units: <b>mg/L</b>		Prep Date: <b>12/13/2023</b>		RunNo: <b>88333</b>			
Client ID: <b>BATCH</b>		Batch ID: <b>R88333</b>				Analysis Date: <b>12/13/2023</b>		SeqNo: <b>1844320</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.0551	0.00675						0.05537	0.515	30	
Ethene	ND	0.0146						0		30	
Ethane	ND	0.0151						0		30	

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>LCS-42284</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88259</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>42284</b>	Analysis Date: <b>12/8/2023</b>	SeqNo: <b>1842400</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	518	50.0	500.0	0	104	65	135				
Surr: Toluene-d8	24.8		25.00		99.4	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		101	65	135				

Sample ID: <b>MB-42284</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88259</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>42284</b>	Analysis Date: <b>12/8/2023</b>	SeqNo: <b>1842384</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0									
Surr: Toluene-d8	25.2		25.00		101	65	135				
Surr: 4-Bromofluorobenzene	25.1		25.00		101	65	135				

Sample ID: <b>2312173-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88259</b>							
Client ID: <b>AMW-09-20231204</b>	Batch ID: <b>42284</b>	Analysis Date: <b>12/8/2023</b>	SeqNo: <b>1842402</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	50.0						0		30	
Surr: Toluene-d8	25.0		25.00		100	65	135		0		
Surr: 4-Bromofluorobenzene	25.4		25.00		101	65	135		0		

Sample ID: <b>2312173-004ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88259</b>							
Client ID: <b>AMW-27-20231204</b>	Batch ID: <b>42284</b>	Analysis Date: <b>12/8/2023</b>	SeqNo: <b>1842388</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	73.7	50.0						78.59	6.41	30	
Surr: Toluene-d8	25.2		25.00		101	65	135		0		
Surr: 4-Bromofluorobenzene	25.5		25.00		102	65	135		0		

**NOTES:**

Detection is due to non-petroleum compounds

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>2312173-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88259</b>							
Client ID: <b>AMW-08-20231204</b>	Batch ID: <b>42284</b>	Analysis Date: <b>12/9/2023</b>	SeqNo: <b>1842394</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	531	50.0	500.0	0	106	65	135				
Surr: Toluene-d8	25.1		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-42284</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88258</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>42284</b>		Analysis Date: <b>12/8/2023</b>	SeqNo: <b>1842266</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	20.8	0.200	20.00	0	104	80	120				
1,1-Dichloroethene	21.6	0.500	20.00	0	108	80	120				
trans-1,2-Dichloroethene	21.3	0.350	20.00	0	107	80	120				
cis-1,2-Dichloroethene	20.3	0.500	20.00	0	101	80	120				
Benzene	21.7	0.440	20.00	0	108	80	120				
Trichloroethene (TCE)	21.3	0.400	20.00	0	107	80	120				
Toluene	22.0	1.00	20.00	0	110	80	120				
Tetrachloroethene (PCE)	22.3	0.350	20.00	0	112	80	120				
Ethylbenzene	20.6	0.400	20.00	0	103	80	120				
m,p-Xylene	41.3	1.00	40.00	0	103	80	120				
o-Xylene	20.2	0.500	20.00	0	101	80	120				
Surr: Dibromofluoromethane	26.7		25.00		107	79.4	125				
Surr: Toluene-d8	27.5		25.00		110	79	124				
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.4	80	120				

Sample ID: <b>MB-42284</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88258</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>42284</b>		Analysis Date: <b>12/8/2023</b>	SeqNo: <b>1842242</b>							
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	0.350									
cis-1,2-Dichloroethene	ND	0.500									
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.400									
Toluene	ND	1.00									
Tetrachloroethene (PCE)	ND	0.350									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Surr: Dibromofluoromethane	26.8		25.00		107	80	120				

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-42284</b>		SampType: <b>MBLK</b>		Units: <b>µg/L</b>		Prep Date: <b>12/11/2023</b>		RunNo: <b>88258</b>			
Client ID: <b>MBLKW</b>		Batch ID: <b>42284</b>				Analysis Date: <b>12/8/2023</b>		SeqNo: <b>1842242</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	25.5		25.00		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.5		25.00		97.9	80	120				

Sample ID: <b>2312173-002ADUP</b>		SampType: <b>DUP</b>		Units: <b>µg/L</b>		Prep Date: <b>12/11/2023</b>		RunNo: <b>88258</b>			
Client ID: <b>AMW-09-20231204</b>		Batch ID: <b>42284</b>				Analysis Date: <b>12/8/2023</b>		SeqNo: <b>1842246</b>			
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	0.350						0		30	
cis-1,2-Dichloroethene	ND	0.500						0		30	
Benzene	ND	0.440						0		30	
Trichloroethene (TCE)	ND	0.400						0		30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	0.350						0		30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	25.3		25.00		101	79.4	125		0		
Surr: Toluene-d8	23.7		25.00		94.7	79	124		0		
Surr: 1-Bromo-4-fluorobenzene	24.7		25.00		98.7	80	120		0		

Sample ID: <b>2312173-004ADUP</b>		SampType: <b>DUP</b>		Units: <b>µg/L</b>		Prep Date: <b>12/11/2023</b>		RunNo: <b>88258</b>			
Client ID: <b>AMW-27-20231204</b>		Batch ID: <b>42284</b>				Analysis Date: <b>12/8/2023</b>		SeqNo: <b>1842249</b>			
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	0.350						0		30	
cis-1,2-Dichloroethene	14.8	0.500						14.86	0.276	30	
Benzene	ND	0.440						0		30	

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2312173-004ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88258</b>							
Client ID: <b>AMW-27-20231204</b>	Batch ID: <b>42284</b>	Analysis Date: <b>12/8/2023</b>	SeqNo: <b>1842249</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	11.8	0.400						11.85	0.331	30	
Toluene	ND	1.00						0		30	
Tetrachloroethene (PCE)	32.2	0.350						31.94	0.766	30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
Surr: Dibromofluoromethane	25.0		25.00		100	79.4	125		0		
Surr: Toluene-d8	24.0		25.00		96.0	79	124		0		
Surr: 1-Bromo-4-fluorobenzene	24.8		25.00		99.4	80	120		0		

Sample ID: <b>2312173-006AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>12/11/2023</b>	RunNo: <b>88258</b>							
Client ID: <b>MW-05-20231204</b>	Batch ID: <b>42284</b>	Analysis Date: <b>12/9/2023</b>	SeqNo: <b>1842255</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	21.3	0.200	20.00	0.5955	104	70.3	147				
1,1-Dichloroethene	21.9	0.500	20.00	0	109	75.8	141				
trans-1,2-Dichloroethene	20.9	0.350	20.00	0	104	74.3	136				
cis-1,2-Dichloroethene	21.2	0.500	20.00	2.271	94.4	74.3	127				
Benzene	21.5	0.440	20.00	0.1856	107	68	136				
Trichloroethene (TCE)	21.5	0.400	20.00	0.6623	104	67.3	134				
Toluene	21.6	1.00	20.00	0	108	78.9	121				
Tetrachloroethene (PCE)	22.9	0.350	20.00	1.202	108	72.3	141				
Ethylbenzene	21.9	0.400	20.00	0	109	74.9	128				
m,p-Xylene	43.6	1.00	40.00	0	109	75.7	128				
o-Xylene	21.0	0.500	20.00	0	105	75.9	124				
Surr: Dibromofluoromethane	25.3		25.00		101	79.4	125				
Surr: Toluene-d8	25.4		25.00		102	79	124				
Surr: 1-Bromo-4-fluorobenzene	24.6		25.00		98.3	80	120				

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-42287</b>		SampType: <b>LCS</b>			Units: <b>µg/L</b>		Prep Date: <b>12/11/2023</b>		RunNo: <b>88269</b>		
Client ID: <b>LCSW</b>		Batch ID: <b>42287</b>					Analysis Date: <b>12/11/2023</b>		SeqNo: <b>1842541</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	19.3	0.200	20.00	0	96.4	80	120				
1,1-Dichloroethene	20.0	0.500	20.00	0	99.8	80	120				
trans-1,2-Dichloroethene	19.6	0.350	20.00	0	98.1	80	120				
cis-1,2-Dichloroethene	17.8	0.500	20.00	0	88.8	80	120				
Trichloroethene (TCE)	19.6	0.400	20.00	0	98.1	80	120				
Tetrachloroethene (PCE)	20.1	0.350	20.00	0	100	80	120				
Surr: Dibromofluoromethane	24.3		25.00		97.3	79.4	125				
Surr: Toluene-d8	25.2		25.00		101	79	124				
Surr: 1-Bromo-4-fluorobenzene	24.3		25.00		97.2	80	120				

Sample ID: <b>MB-42287</b>		SampType: <b>MBLK</b>			Units: <b>µg/L</b>		Prep Date: <b>12/11/2023</b>		RunNo: <b>88269</b>		
Client ID: <b>MBLKW</b>		Batch ID: <b>42287</b>					Analysis Date: <b>12/11/2023</b>		SeqNo: <b>1842538</b>		
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	0.350									
cis-1,2-Dichloroethene	ND	0.500									
Trichloroethene (TCE)	ND	0.400									
Tetrachloroethene (PCE)	ND	0.350									
Surr: Dibromofluoromethane	25.0		25.00		100	80	120				
Surr: Toluene-d8	23.8		25.00		95.1	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.5	80	120				

Sample ID: <b>2312257-001ADUP</b>		SampType: <b>DUP</b>			Units: <b>µg/L</b>		Prep Date: <b>12/11/2023</b>		RunNo: <b>88269</b>		
Client ID: <b>BATCH</b>		Batch ID: <b>42287</b>					Analysis Date: <b>12/11/2023</b>		SeqNo: <b>1842540</b>		
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	0.350						0		30	

**Work Order:** 2312173  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2312257-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>12/11/2023</b>	RunNo: <b>88269</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>42287</b>				Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1842540</b>					
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	0.400						0		30	
Tetrachloroethene (PCE)	ND	0.350						0		30	
Surr: Dibromofluoromethane	26.5		25.00		106	79.4	125		0		
Surr: Toluene-d8	26.0		25.00		104	79	124		0		
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.4	80	120		0		

Sample ID: <b>2312173-005AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>12/11/2023</b>	RunNo: <b>88269</b>					
Client ID: <b>AMW-03-20231204</b>	Batch ID: <b>42287</b>				Analysis Date: <b>12/11/2023</b>	SeqNo: <b>1843025</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	21.3	0.200	20.00	0	106	77.1	143				
1,1-Dichloroethene	22.2	0.500	20.00	0	111	86.1	139				
trans-1,2-Dichloroethene	21.4	0.350	20.00	0	107	85.3	132				
cis-1,2-Dichloroethene	19.8	0.500	20.00	0	99.1	83.7	126				
Trichloroethene (TCE)	21.7	0.400	20.00	0	108	81.7	131				
Tetrachloroethene (PCE)	22.8	0.350	20.00	0	114	85.1	134				
Surr: Dibromofluoromethane	23.8		25.00		95.4	83.8	123.8				
Surr: Toluene-d8	26.8		25.00		107	82.8	125				
Surr: 1-Bromo-4-fluorobenzene	24.4		25.00		97.6	79.7	119.7				

Client Name: AC	Work Order Number: 2312173
Logged by: Clare Griggs	Date Received: 12/6/2023 4:37:00 PM

**Chain of Custody**

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

**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:	<input type="text" value="Hannah Cohen"/>	Date:	<input type="text" value="12/7/2023"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Received sample AMW-29-20231205 not on COC."/>		
Client Instructions:	<input type="text" value="Add to COC and run for CVOCs"/>		

17. Additional remarks:

**Item Information**

Item #	Temp °C
Sample	6.0

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



















**Fremont**

**Analytical**

An Alliance Technical Group Company

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**Aspect Consulting**

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

**RE: Maddux**

**Work Order Number: 2312176**

December 14, 2023

**Attention Andrew Yonkofski:**

Fremont Analytical, Inc. received 6 sample(s) on 12/6/2023 for the analyses presented in the following report.

***Helium by GC/TCD***

***Petroleum Fractionation by EPA Method TO-15/MA APH***

***Volatile Organic Compounds by EPA Method TO-15***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing*

*ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing*

*Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

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Original

[www.fremontanalytical.com](http://www.fremontanalytical.com)

**CLIENT:** Aspect Consulting  
**Project:** Maddux  
**Work Order:** 2312176

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2312176-001	ASG-03-20231206	12/06/2023 10:24 AM	12/06/2023 4:37 PM
2312176-002	ASG-01-20231206	12/06/2023 11:33 AM	12/06/2023 4:37 PM
2312176-003	ASG-02-20231206	12/06/2023 12:26 PM	12/06/2023 4:37 PM
2312176-004	ASG-04-20231206	12/06/2023 2:17 PM	12/06/2023 4:37 PM
2312176-005	ASG-05-20231206	12/06/2023 3:09 PM	12/06/2023 4:37 PM
2312176-006	ASG-FD-20231206	12/06/2023 3:23 PM	12/06/2023 4:37 PM

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

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**CLIENT:** Aspect Consulting

**Project:** Maddux

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Air samples are reported in ppbv and ug/m3.

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 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.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

### 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: 2312176  
Date Reported: 12/14/2023

**CLIENT:** Aspect Consulting  
**Project:** Maddux

**Lab ID:** 2312176-001      **Collection Date:** 12/6/2023 10:24:00 AM  
**Client Sample ID:** ASG-03-20231206      **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Helium by GC/TCD</b> Batch ID: R88313      Analyst: SH						
Helium	ND	0.300	D	%	1.5	12/13/2023 9:21:00 AM

**Lab ID:** 2312176-002      **Collection Date:** 12/6/2023 11:33:00 AM  
**Client Sample ID:** ASG-01-20231206      **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Helium by GC/TCD</b> Batch ID: R88313      Analyst: SH						
Helium	ND	0.400	D	%	2	12/13/2023 9:28:00 AM

**Lab ID:** 2312176-003      **Collection Date:** 12/6/2023 12:26:00 PM  
**Client Sample ID:** ASG-02-20231206      **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Helium by GC/TCD</b> Batch ID: R88313      Analyst: SH						
Helium	0.483	0.300	D	%	1.5	12/13/2023 9:34:00 AM

**Lab ID:** 2312176-004      **Collection Date:** 12/6/2023 2:17:00 PM  
**Client Sample ID:** ASG-04-20231206      **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Helium by GC/TCD</b> Batch ID: R88313      Analyst: SH						
Helium	ND	0.300	D	%	1.5	12/13/2023 9:40:00 AM



# Analytical Report

Work Order: 2312176  
 Date Reported: 12/14/2023

**CLIENT:** Aspect Consulting  
**Project:** Maddux

**Lab ID:** 2312176-005

**Collection Date:** 12/6/2023 3:09:00 PM

**Client Sample ID:** ASG-05-20231206

**Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Helium by GC/TCD</b>						Batch ID: R88313 Analyst: SH
Helium	ND	0.300	D	%	1.5	12/13/2023 9:46:00 AM

**Lab ID:** 2312176-006

**Collection Date:** 12/6/2023 3:23:00 PM

**Client Sample ID:** ASG-FD-20231206

**Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Helium by GC/TCD</b>						Batch ID: R88313 Analyst: SH
Helium	ND	0.400	D	%	2	12/13/2023 9:52:00 AM



**Client:** Aspect Consulting

**WorkOrder:** 2312176

**Project:** Maddux

**Client Sample ID:** ASG-03-20231206

**Date Sampled:** 12/6/2023

**Lab ID:** 2312176-001A

**Date Received:** 12/6/2023

**Sample Type:** Summa Canister

Analyte	Concentration	Reporting Limit	Qual	Method	Date/Analyst
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Volatile Organic Compounds by EPA Method TO-15

	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	D	EPA-TO-15	12/18/2023	LB
cis-1,2-Dichloroethene	0.773	3.06	0.200	0.793	D	EPA-TO-15	12/18/2023	LB
Tetrachloroethene (PCE)	180	1,220	0.300	2.03	D	EPA-TO-15	12/18/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	D	EPA-TO-15	12/18/2023	LB
Trichloroethene (TCE)	1.56	8.36	0.0400	0.215	D	EPA-TO-15	12/18/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	D	EPA-TO-15	12/18/2023	LB
Surr: 4-Bromofluorobenzene	109 %Rec	--	70-130	--	D	EPA-TO-15	12/18/2023	LB



**Client:** Aspect Consulting

**WorkOrder:** 2312176

**Project:** Maddux

**Client Sample ID:** ASG-01-20231206

**Date Sampled:** 12/6/2023

**Lab ID:** 2312176-002A

**Date Received:** 12/6/2023

**Sample Type:** Summa Canister

Analyte	Concentration	Reporting Limit	Qual	Method	Date/Analyst
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Volatile Organic Compounds by EPA Method TO-15

	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	D	EPA-TO-15	12/18/2023	LB
cis-1,2-Dichloroethene	0.762	3.02	0.200	0.793	D	EPA-TO-15	12/18/2023	LB
Tetrachloroethene (PCE)	69.8	474	0.0400	0.271	D	EPA-TO-15	12/18/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	D	EPA-TO-15	12/18/2023	LB
Trichloroethene (TCE)	4.80	25.8	0.0400	0.215	D	EPA-TO-15	12/18/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	D	EPA-TO-15	12/18/2023	LB
Surr: 4-Bromofluorobenzene	110 %Rec	--	70-130	--	D	EPA-TO-15	12/18/2023	LB



**Client:** Aspect Consulting

**WorkOrder:** 2312176

**Project:** Maddux

**Client Sample ID:** ASG-02-20231206

**Date Sampled:** 12/6/2023

**Lab ID:** 2312176-003A

**Date Received:** 12/6/2023

**Sample Type:** Summa Canister

Analyte	Concentration	Reporting Limit	Qual	Method	Date/Analyst
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Volatile Organic Compounds by EPA Method TO-15

	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	D	EPA-TO-15	12/18/2023	LB
cis-1,2-Dichloroethene	1.29	5.10	0.200	0.793	D	EPA-TO-15	12/18/2023	LB
Tetrachloroethene (PCE)	11.5	77.9	0.0400	0.271	D	EPA-TO-15	12/18/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	D	EPA-TO-15	12/18/2023	LB
Trichloroethene (TCE)	1.79	9.60	0.0400	0.215	D	EPA-TO-15	12/18/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	D	EPA-TO-15	12/18/2023	LB
Surr: 4-Bromofluorobenzene	108 %Rec	--	70-130	--	D	EPA-TO-15	12/18/2023	LB



**Client:** Aspect Consulting

**WorkOrder:** 2312176

**Project:** Maddux

**Client Sample ID:** ASG-04-20231206

**Date Sampled:** 12/6/2023

**Lab ID:** 2312176-004A

**Date Received:** 12/6/2023

**Sample Type:** Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Petroleum Fractionation by EPA Method TO-15/MA APH</u>								
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
Aliphatic Hydrocarbon (EC5-8)	34.0	129	30.0	114		EPA-TO-15	12/13/2023	SH
Aliphatic Hydrocarbon (EC9-12)	<20.0	<118	20.0	118		EPA-TO-15	12/13/2023	SH
Aromatic Hydrocarbon (EC9-10)	6.51	32.8	5.00	25.2		EPA-TO-15	12/13/2023	SH
Surr: 4-Bromofluorobenzene	114 %Rec	--	70-130	--		EPA-TO-15	12/13/2023	SH
<u>Volatile Organic Compounds by EPA Method TO-15</u>								
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	D	EPA-TO-15	12/18/2023	LB
Benzene	0.471	1.51	0.0400	0.128	D	EPA-TO-15	12/18/2023	LB
cis-1,2-Dichloroethene	0.340	1.35	0.200	0.793	D	EPA-TO-15	12/18/2023	LB
Ethylbenzene	1.02	4.45	0.600	2.61	D	EPA-TO-15	12/18/2023	LB
m,p-Xylene	3.31	14.4	1.20	5.21	D	EPA-TO-15	12/18/2023	LB
Naphthalene	0.839	4.40	0.0560	0.294	D	EPA-TO-15	12/18/2023	LB
o-Xylene	1.41	6.14	0.400	1.74	D	EPA-TO-15	12/18/2023	LB
Tetrachloroethene (PCE)	1.00	6.79	0.0400	0.271	D	EPA-TO-15	12/18/2023	LB
Toluene	4.19	15.8	0.800	3.01	D	EPA-TO-15	12/18/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	D	EPA-TO-15	12/18/2023	LB
Trichloroethene (TCE)	0.0735	0.395	0.0400	0.215	D	EPA-TO-15	12/18/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	D	EPA-TO-15	12/18/2023	LB
Surr: 4-Bromofluorobenzene	107 %Rec	--	70-130	--	D	EPA-TO-15	12/18/2023	LB



**Client:** Aspect Consulting

**WorkOrder:** 2312176

**Project:** Maddux

**Client Sample ID:** ASG-05-20231206

**Date Sampled:** 12/6/2023

**Lab ID:** 2312176-005A

**Date Received:** 12/6/2023

**Sample Type:** Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Petroleum Fractionation by EPA Method TO-15/MA APH</u>								
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
Aliphatic Hydrocarbon (EC5-8)	<30.0	<114	30.0	114		EPA-TO-15	12/13/2023	SH
Aliphatic Hydrocarbon (EC9-12)	<20.0	<118	20.0	118		EPA-TO-15	12/13/2023	SH
Aromatic Hydrocarbon (EC9-10)	<5.00	<25.2	5.00	25.2		EPA-TO-15	12/13/2023	SH
Surr: 4-Bromofluorobenzene	107 %Rec	--	70-130	--		EPA-TO-15	12/13/2023	SH
<u>Volatile Organic Compounds by EPA Method TO-15</u>								
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	D	EPA-TO-15	12/18/2023	LB
Benzene	0.190	0.608	0.0400	0.128	D	EPA-TO-15	12/18/2023	LB
cis-1,2-Dichloroethene	0.744	2.95	0.200	0.793	D	EPA-TO-15	12/18/2023	LB
Ethylbenzene	0.675	2.93	0.600	2.61	D	EPA-TO-15	12/18/2023	LB
m,p-Xylene	2.24	9.72	1.20	5.21	D	EPA-TO-15	12/18/2023	LB
Naphthalene	0.131	0.685	0.0560	0.294	D	EPA-TO-15	12/18/2023	LB
o-Xylene	0.926	4.02	0.400	1.74	D	EPA-TO-15	12/18/2023	LB
Tetrachloroethene (PCE)	8.07	54.8	0.0400	0.271	D	EPA-TO-15	12/18/2023	LB
Toluene	3.14	11.9	0.800	3.01	D	EPA-TO-15	12/18/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	D	EPA-TO-15	12/18/2023	LB
Trichloroethene (TCE)	1.55	8.35	0.0400	0.215	D	EPA-TO-15	12/18/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	D	EPA-TO-15	12/18/2023	LB
Surr: 4-Bromofluorobenzene	109 %Rec	--	70-130	--	D	EPA-TO-15	12/18/2023	LB



**Client:** Aspect Consulting

**WorkOrder:** 2312176

**Project:** Maddux

**Client Sample ID:** ASG-FD-20231206

**Date Sampled:** 12/6/2023

**Lab ID:** 2312176-006A

**Date Received:** 12/6/2023

**Sample Type:** Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Petroleum Fractionation by EPA Method TO-15/MA APH</u>								
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
Aliphatic Hydrocarbon (EC5-8)	<30.0	<114	30.0	114		EPA-TO-15	12/13/2023	SH
Aliphatic Hydrocarbon (EC9-12)	<20.0	<118	20.0	118		EPA-TO-15	12/13/2023	SH
Aromatic Hydrocarbon (EC9-10)	<5.00	<25.2	5.00	25.2		EPA-TO-15	12/13/2023	SH
Surr: 4-Bromofluorobenzene	96.7 %Rec	--	70-130	--		EPA-TO-15	12/13/2023	SH
<u>Volatile Organic Compounds by EPA Method TO-15</u>								
	(ppbv)	(ug/m <sup>3</sup> )	(ppbv)	(ug/m <sup>3</sup> )				
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159	D	EPA-TO-15	12/18/2023	LB
Benzene	0.223	0.712	0.0400	0.128	D	EPA-TO-15	12/18/2023	LB
cis-1,2-Dichloroethene	2.46	9.75	0.200	0.793	D	EPA-TO-15	12/18/2023	LB
Ethylbenzene	0.693	3.01	0.600	2.61	D	EPA-TO-15	12/18/2023	LB
m,p-Xylene	2.32	10.1	1.20	5.21	D	EPA-TO-15	12/18/2023	LB
Naphthalene	0.232	1.22	0.0560	0.294	D	EPA-TO-15	12/18/2023	LB
o-Xylene	0.995	4.32	0.400	1.74	D	EPA-TO-15	12/18/2023	LB
Tetrachloroethene (PCE)	22.9	155	0.0400	0.271	D	EPA-TO-15	12/18/2023	LB
Toluene	3.11	11.7	0.800	3.01	D	EPA-TO-15	12/18/2023	LB
trans-1,2-Dichloroethene	<0.600	<2.38	0.600	2.38	D	EPA-TO-15	12/18/2023	LB
Trichloroethene (TCE)	3.56	19.1	0.0400	0.215	D	EPA-TO-15	12/18/2023	LB
Vinyl chloride	<0.0400	<0.102	0.0400	0.102	D	EPA-TO-15	12/18/2023	LB
Surr: 4-Bromofluorobenzene	108 %Rec	--	70-130	--	D	EPA-TO-15	12/18/2023	LB

**Work Order:** 2312176  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

## QC SUMMARY REPORT

### Petroleum Fractionation by EPA Method TO-15/MA APH

Sample ID: <b>LCS-R88324</b>	SampType: <b>LCS</b>	Units: <b>ppbv</b>	Prep Date: <b>12/12/2023</b>	RunNo: <b>88324</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R88324</b>		Analysis Date: <b>12/12/2023</b>	SeqNo: <b>1844139</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (EC5-8)	14.5	7.50	12.00	0	120	70	130				
Aromatic Hydrocarbon (EC9-10)	9.60	1.25	10.00	0	96.0	70	130				
Aliphatic Hydrocarbon (EC9-12)	14.2	5.00	12.00	0	118	70	130				
Surr: 4-Bromofluorobenzene	3.88		4.000		97.0	70	130				

Sample ID: <b>MB-R88324</b>	SampType: <b>MBLK</b>	Units: <b>ppbv</b>	Prep Date: <b>12/12/2023</b>	RunNo: <b>88324</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R88324</b>		Analysis Date: <b>12/12/2023</b>	SeqNo: <b>1844157</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (EC5-8)	ND	7.50									
Aromatic Hydrocarbon (EC9-10)	ND	1.25									
Aliphatic Hydrocarbon (EC9-12)	ND	5.00									
Surr: 4-Bromofluorobenzene	3.54		4.000		88.4	70	130				

Sample ID: <b>2312163-002AREP</b>	SampType: <b>REP</b>	Units: <b>ppbv</b>	Prep Date: <b>12/12/2023</b>	RunNo: <b>88324</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R88324</b>		Analysis Date: <b>12/12/2023</b>	SeqNo: <b>1844159</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (EC5-8)	41.0	30.0						41.89	2.12	25	
Aromatic Hydrocarbon (EC9-10)	14.6	5.00						17.41	17.3	25	
Aliphatic Hydrocarbon (EC9-12)	229	20.0						288.3	22.7	25	
Surr: 4-Bromofluorobenzene	15.9		16.00		99.5	70	130		0		

**Work Order:** 2312176  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Helium by GC/TCD**

Sample ID: <b>LCS-R88313</b>	SampType: <b>LCS</b>	Units: %	Prep Date: <b>12/13/2023</b>	RunNo: <b>88313</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R88313</b>		Analysis Date: <b>12/13/2023</b>	SeqNo: <b>1843890</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Helium	5.08	0.200	5.000	0	102	80	120				

Sample ID: <b>MB-R88313</b>	SampType: <b>MBLK</b>	Units: %	Prep Date: <b>12/13/2023</b>	RunNo: <b>88313</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R88313</b>		Analysis Date: <b>12/13/2023</b>	SeqNo: <b>1843892</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Helium	ND	0.200									

Sample ID: <b>2312176-001AREP</b>	SampType: <b>REP</b>	Units: %	Prep Date: <b>12/13/2023</b>	RunNo: <b>88313</b>							
Client ID: <b>ASG-03-20231206</b>	Batch ID: <b>R88313</b>		Analysis Date: <b>12/13/2023</b>	SeqNo: <b>1843898</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Helium	ND	0.300						0		30	D

**Work Order:** 2312176  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method TO-15**

Sample ID: <b>LCS-R88434</b>	SampType: <b>LCS</b>	Units: <b>ppbv</b>	Prep Date: <b>12/18/2023</b>	RunNo: <b>88434</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R88434</b>		Analysis Date: <b>12/18/2023</b>	SeqNo: <b>1846718</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.92	0.0100	2.000	0	96.1	70	130				
1,1-Dichloroethene (DCE)	2.11	0.0100	2.000	0	106	70	130				
trans-1,2-Dichloroethene	1.93	0.150	2.000	0	96.3	70	130				
cis-1,2-Dichloroethene	1.93	0.0500	2.000	0	96.5	70	130				
Benzene	1.88	0.0100	2.000	0	94.0	70	130				
Trichloroethene (TCE)	2.20	0.0100	2.000	0	110	70	130				
Toluene	2.28	0.200	2.000	0	114	70	130				
Tetrachloroethene (PCE)	2.45	0.0100	2.000	0	122	70	130				
Ethylbenzene	2.02	0.150	2.000	0	101	70	130				
m,p-Xylene	3.81	0.300	4.000	0	95.3	70	130				
o-Xylene	2.08	0.100	2.000	0	104	70	130				
Naphthalene	2.41	0.0140	2.000	0	121	70	130				
Surr: 4-Bromofluorobenzene	4.38		4.000		109	70	130				

Sample ID: <b>MB-R88434</b>	SampType: <b>MBLK</b>	Units: <b>ppbv</b>	Prep Date: <b>12/18/2023</b>	RunNo: <b>88434</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R88434</b>		Analysis Date: <b>12/18/2023</b>	SeqNo: <b>1846719</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0100									
1,1-Dichloroethene (DCE)	ND	0.0100									
trans-1,2-Dichloroethene	ND	0.150									
cis-1,2-Dichloroethene	ND	0.0500									
Benzene	ND	0.0100									
Trichloroethene (TCE)	ND	0.0100									
Toluene	ND	0.200									
Tetrachloroethene (PCE)	0.0198	0.0100									
Ethylbenzene	ND	0.150									
m,p-Xylene	ND	0.300									
o-Xylene	ND	0.100									
Naphthalene	ND	0.0140									
Surr: 4-Bromofluorobenzene	4.06		4.000		102	70	130				

**Work Order:** 2312176  
**CLIENT:** Aspect Consulting  
**Project:** Maddux

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method TO-15**

Sample ID: <b>MB-R88434</b>	SampType: <b>MBLK</b>	Units: <b>ppbv</b>	Prep Date: <b>12/18/2023</b>	RunNo: <b>88434</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R88434</b>		Analysis Date: <b>12/18/2023</b>	SeqNo: <b>1846719</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: <b>2312176-001AREP</b>	SampType: <b>REP</b>	Units: <b>ppbv</b>	Prep Date: <b>12/18/2023</b>	RunNo: <b>88434</b>							
Client ID: <b>ASG-03-20231206</b>	Batch ID: <b>R88434</b>		Analysis Date: <b>12/18/2023</b>	SeqNo: <b>1846722</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0400						0		25	D
1,1-Dichloroethene (DCE)	ND	0.0400						0		25	D
trans-1,2-Dichloroethene	ND	0.600						0		25	D
cis-1,2-Dichloroethene	0.767	0.200						0.7730	0.827	25	D
Benzene	0.279	0.0400						0.2745	1.79	25	D
Trichloroethene (TCE)	1.55	0.0400						1.556	0.431	25	D
Toluene	2.20	0.800						2.224	1.23	25	D
Tetrachloroethene (PCE)	181	0.0400						181.9	0.314	25	ED
Ethylbenzene	0.670	0.600						0.6770	1.05	25	D
m,p-Xylene	2.20	1.20						2.226	1.29	25	D
o-Xylene	0.889	0.400						0.9036	1.61	25	D
Naphthalene	0.129	0.0560						0.1321	2.58	25	D
Surr: 4-Bromofluorobenzene	17.3		16.02		108	70	130		0		D

Client Name: AC

Work Order Number: 2312176

Logged by: Clare Griggs

Date Received: 12/6/2023 4:37:00 PM

### Chain of Custody

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

### 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:	<input type="text" value="Hannah Cohen"/>	Date:	<input type="text" value="12/7/2023"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Confirming analyses."/>		
Client Instructions:	<input type="text" value="See below"/>		

17. Additional remarks:

First 3 x samples: PCE & Breakdown by TO15 & Helium

Last 3 x samples: APH, BTEX/Naphthalene & PCE & Breakdown by TO15 & Helium

### Item Information

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





**Fremont**  
Analytical

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

**Air Chain of Custody Record & Laboratory Services Agreement**

Date: \_\_\_\_\_ Page: 2 of 2

Laboratory Project No (Internal): 2312176

Special Remarks:

Client: Aspect

Project Name: maddux

Address: 710 2nd Ave Suite 550

Project No: 160324

City, State, Zip: Seattle, WA 98104

Location:

Collected by: NTC

Telephone:

Reports to (PM): Andrew Yonkofski

Air samples are disposed of one week after report is submitted to client unless otherwise requested.  OK to Dispose  Hold (fees may apply)

Fax:

Email (PM):

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (" Hg)	Analysis										Comments	Internal Final Pressure ("Hg)	
									Full list VOCs TO15	Select VOCs TO15 ***	APH TO15 *	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod	VOCs 8260	GX/BTEX 8260	COCS			
ASG1 - FD - 20231200	11401 FC-19	S	1L	150 cc/min	12/6/23 1510	30	12/6/23 1523	60			X					X		XX		* APH Naphtthalene -8	

\* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE L = Landfill D = Digester

\*\* Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

\*\*\* Select one:  BTEXN & APH  PCE & Breakdown  Other, specify in comments

**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) <i>Monique Rutte</i>	Print Name monique Rutte	Date/Time 12/6/23 16:25	Received (Signature) <i>[Signature]</i>	Print Name Nate R/S	Date/Time 12/6 16:37
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time