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March 31, 2025

Washington Department of Ecology
Northwest Regional Office
Attn: Mr. Michael Warfel
15700 Dayton Avenue North
Shoreline, WA 98133

Dear Mr. Warfel:

Please find the enclosed for your review a Tier I Soil Vapor Intrusion Evaluation Report for Former BP Facility No. 11060 located at 4580 Fauntleroy Way SW, Seattle, Washington.

Sincerely yours,

A handwritten signature in blue ink, appearing to read 'Wade Melton', written over a light blue rectangular background.

Wade Melton
Operations Project Manager
Remediation Management Services Company
An affiliate of Atlantic Richfield Company

cc: File, Antea Group



Tier I Soil Vapor Intrusion Evaluation Report

Former BP Facility No. 11060
4580 Fautleroy Way Southwest, Seattle, Washington

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PREPARED FOR

Remediation Management Services
Company
An affiliate of Atlantic Richfield Company
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PREPARED BY

Antea Group - Seattle, WA
March 31, 2025
Project # WA – 11060 Seattle
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Contents

1.0	Introduction	1
1.1	Purpose and Scope of Work.....	1
2.0	Background	1
2.1	Site Description	1
2.2	Previous Environmental Activities	1
2.3	Current Regulatory Status.....	2
2.4	Current Site Status	2
3.0	Preliminary Soil Vapor Evaluation and Conceptual Site Model	2
3.1	Precluding Factors.....	2
3.2	Lateral Screening Criteria	3
3.3	Vertical Groundwater Screening.....	3
3.4	Vertical Soil Screening.....	4
3.5	Data Gaps	4
3.6	Receptors	5
3.6.1	Vapor Intrusion Routes	5
3.6.2	Subsurface Utilities	5
3.7	Cross Sections	5
4.0	Soil Vapor Probe Installation.....	5
5.0	Soil Vapor Sample Collection	6
5.1	Shut-in Test	6
5.2	Helium Leak Detection Test and Purging	6
5.3	Sampling.....	6
6.0	Project Results	7
6.1	Meteorological Conditions.....	7
6.1.1	Winter 2023	7
6.1.2	Summer 2024.....	7
6.2	Soil Vapor Laboratory Results	7
6.1.3	Winter 2023	7
6.1.4	Summer 2024.....	7
6.1.5	Summary of Soil Vapor Results	8
6.3	Quality Control Procedures.....	8
7.0	Summary	8
8.0	Conclusions	9

9.0	Remarks	10
10.0	Contact Information.....	10
11.0	References	11

Tables

Table 1 – Groundwater Gauging Data
Table 2 – Groundwater Analytical Data
Table 3 – Soil Analytical Data
Table 4 – Soil Vapor Analytical Results

Figures

Figure 1 – Site Location Map
Figure 2 – Site Map
Figure 3 – Soil Vapor Analytical Map
Figure 4 – Site Map with Cross Section Lines
Figure 5 – Geological Cross Section A-A'
Figure 6 – Geological Cross Section B-B'
Figure 7 – Geological Cross Section C-C'

Appendices

Appendix A – Site Investigation History Summary
Appendix B – Boring Logs
Appendix C – Analytical Lab Reports and Chain of Custody Documentation

Tier I Soil Vapor Intrusion Evaluation Report

Former BP Facility No. 11060

4580 Fauntleroy Way Southwest, Seattle, Washington

1.0 INTRODUCTION

On behalf of Remediation Management Services Company (RMSC, an affiliate of Atlantic Richfield Company), Antea®Group has prepared this Tier I Soil Vapor Intrusion Evaluation Report for the former BP Facility No. 11060 located at 4580 Fauntleroy Way Southwest, Seattle, King County, Washington (hereinafter referred to as the "Site"). The objective of this Tier I Soil Vapor Evaluation was to assess the soil vapor intrusion pathway on-site.

1.1 PURPOSE AND SCOPE OF WORK

The purpose of the collection of soil vapor samples is to assess the potential for a completed vapor intrusion pathway into the interior of the station building located on-site. This report is intended only for the purpose of providing an evaluation within the property boundary of the Site.

The evaluation scope of work included the following:

- Perform a Preliminary Assessment and develop an initial conceptual site model (CSM) to identify if Site conditions have the potential to cause vapor intrusion into buildings;
- Install two soil vapor probes (SVP-1 and SVP-2) between the areas of historical impacts and the on-site station building receptors;
- Collect and submit two rounds of soil vapor samples from the Site (approximately six months apart) for quantitative chemical analyses; and
- Interpret the data obtained and prepare this report.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Site is an active Shell-branded retail gasoline station with a convenience store located on the east-northeast corner of the intersection of Fauntleroy Way Southwest and Southwest Alaska Street in Seattle, Washington. A Site Location Map and Site Map are presented as **Figure 1** and **Figure 2**, respectively. The Site extends east to the CHI Franciscan Health Medical Clinic. The Site vicinity is a mix of commercial and residential land uses. The closest surface water body is Longfellow Creek located approximately ½ mile east of the Site. According to survey data tied to North American Vertical Datum of 1988 (NAVD 88), the Site ranges in surface elevation from 263 to 268 feet above mean sea level.

The Site is triangular with the station building on the eastern portion of the property. Other Site features include a canopy with one dispenser island on the southern portion of the property, a canopy with two dispenser islands on the western portion of the property, and the underground storage tank (UST) basin in the southeastern portion of the property. The Site surface consists of asphalt pavement and concrete, except for planter features along the perimeter of the property. Site features are present in **Figure 2**.

2.2 PREVIOUS ENVIRONMENTAL ACTIVITIES

A summary of the previous assessments is provided in **Appendix A**. Assessment references are presented below in **Section 11.0**.

2.3 CURRENT REGULATORY STATUS

The Site is listed on Ecology's Leaking Underground Storage Tanks (LUST) list with Facility Site ID 99437681 and Cleanup Site ID 11357. There are currently seven monitoring wells on the Shell property, four monitoring wells on the CHI Franciscan Health Medical Clinic property, two wells in the right-of-way (ROW) south of the Site, and two wells in the ROW northwest of the Site. The current status on Ecology's Confirmed and Suspected Contaminated Sites List (CSCSL) is "Cleanup Started".

2.4 CURRENT SITE STATUS

Groundwater impacts above Model Toxics Control Act (MTCA) Method A Cleanup Levels are currently observed within MW-1, MW-12, MW-14 and MW-15.

Soil impacts above MTCA Method A Cleanup Levels have been historically observed within AS-1, AS-3, AS-5, AS-6, B-1, B-2, EW-1 through EW-3, MW-2 through MW-4, MW-12, MW-14, MW-15, SB-1 through SB-4, SB-7 through SB-9, VE-1, and VE-4.

Groundwater gauging data, groundwater analytical data, soil analytical data, and soil vapor analytical data are presented on **Table 1**, **Table 2**, **Table 3**, and **Table 4**, respectively. A site location map is provided in **Figure 1**. A site map is provided on **Figure 2**. A soil vapor analytical data map is provided in **Figure 3**. A site map with cross section line locations is presented as **Figure 4**. Geological cross sections are provided in **Figure 5** through **Figure 7**, respectively.

3.0 PRELIMINARY SOIL VAPOR EVALUATION AND CONCEPTUAL SITE MODEL

A vapor intrusion CSM was developed to serve as the basis for identifying the critical assessment data gaps, data quality objectives, and sampling design. The vapor intrusion CSM incorporates Site-specific evidence into a three-dimensional conceptualization of Site conditions that include contaminant sources, transport mechanisms, exposure pathways, and potential receptors. The vapor intrusion CSM includes cross-sectional views, a series of plan-view figures, and locations of utility lines (preferential pathways) present within the source area and/or impacted groundwater.

Additionally, the Washington State Department of Ecology (Ecology), Toxics Cleanup Program, *Guidance for Evaluating Vapor Intrusion in Washington State*, Publication No. 09-09-047, March 2022, includes guidance for the screening of groundwater and soil as a potential source for vapor intrusion through assessing the Site's precluding factors, lateral inclusion zone, and vertical screening distance criteria.

3.1 PRECLUDING FACTORS

The United States (U.S.) Environmental Protection Agency (EPA) has developed a list of site conditions that may justify greater separation distance in the vapor screening process called precluding factors. Precluding factors include the following:

- Changing site conditions, such as an expanding plume or planned development above or adjacent to the contamination;
- Preferential pathways, such as utility corridors or highly permeable soil zones;
- Extremely low soil moisture content;

- Limited oxygen in the soil due to the presence of relatively impermeable ground cover surrounding the building of interest, large structures, or methanogenesis;
- The presence of lead scavengers such as 1,2-dibromoethane (EDB) or 1,2-dichloroethane (EDC) in the released fuel;
- The presence of other additives in the released fuel that may aerobically biodegrade more slowly than benzene; and,
- Subsurface petroleum volatile organic compound (VOC) contamination in direct contact with the building's foundation.

By using the Site characterization information and the vapor intrusion CSM, Antea Group can determine if these precluding factors exist on the Site. Antea Group confirmed that preferential pathways are present on-site that have the potential to transport vapor to the on-site building. Identified preferential pathways include electrical utility trenches between the station building and the dispenser islands, as well as underground utility trenches on the west side of the station building. Due to the presence of these precluding factors, a Tier I soil vapor evaluation is required at the Site.

3.2 LATERAL SCREENING CRITERIA

The Ecology, Toxics Cleanup Program, *Guidance for Evaluating Vapor Intrusion in Washington State*, Publication No. 09-09-047, March 2022, includes guidance for lateral vapor intrusion screening distances, which take into consideration the rapid attenuation of petroleum vapors in the subsurface. The lateral screening distance is established at 30 feet, if the degree and extent of contamination is well defined and the dissolved phase plume is stable or receding. The lateral screening distance is measured from the point of the sample to the closest point of the receptor. If no precluding factors exist, any distance greater than the 30-foot lateral distance is deemed too far from the contamination to reasonably pose a vapor intrusion threat.

3.3 VERTICAL GROUNDWATER SCREENING

The U.S. EPA has developed vapor intrusion vertical groundwater screening levels for total petroleum hydrocarbons (TPH) and benzene that have been adopted by Ecology (Ecology, 2022). The TPH and benzene groundwater screening levels are 30,000 micrograms per liter ($\mu\text{g/L}$) and 5,000 $\mu\text{g/L}$, respectively. The vertical separation distance is concentration specific and as follows:

- If concentrations of TPH are less than 30,000 $\mu\text{g/L}$ or concentrations of benzene are less than 5,000 $\mu\text{g/L}$, the vertical vapor intrusion screening distance is six feet; and,
- If concentrations of TPH are greater than 30,000 $\mu\text{g/L}$ or concentrations of benzene are greater than 5,000 $\mu\text{g/L}$, 15 feet of vertical separation is used as the vapor intrusion screening distance.

For Tier 1 groundwater screening, four petroleum compounds have established vapor intrusion screening levels lower than MTCA Method A Cleanup Levels as detailed in Ecology's 2022 Guidance for Evaluating Vapor Intrusion in Washington State and the Cleanup Levels and Risk Calculation (CLARC) Master Data Table. The vapor intrusion screening levels for benzene, EDC, naphthalene, and xylenes are 2.4 $\mu\text{g/L}$, 3.5 $\mu\text{g/L}$, 8.8 $\mu\text{g/L}$, and 320 $\mu\text{g/L}$, respectively. Development of generic groundwater vapor intrusion screening levels for total petroleum hydrocarbons as gasoline (TPH-G) and as diesel (TPH-D) was not possible since the Henry's Law constant varies depending on which petroleum constituents are present. Therefore, MTCA Method A Cleanup Levels are used to screen TPH-G and TPH-D. Remaining chemicals of interest at the Site have established soil vapor screening levels in groundwater with concentrations identified in the CLARC Master Data Table.

Groundwater at the Site is consistently measured at depths greater than 15 feet below ground surface (bgs) and therefore meets the vertical separation requirements outlined in Ecology's guidance. Therefore, groundwater is not a vapor intrusion source for the on-site receptor. Additional information pertaining to building construction and potential pathways for soil vapor intrusion into receptors are detailed in the following sections.

Groundwater Gauging Data is presented on **Table 1**. Groundwater Analytical Data is presented on **Table 2**. Groundwater monitoring well locations are presented in **Figure 2**.

3.4 VERTICAL SOIL SCREENING

The U.S. EPA has developed vapor intrusion vertical soil screening levels for TPH and benzene that have been adopted by Ecology (Ecology, 2022). The TPH soil screening level for weathered gasoline is 250 milligrams per kilogram (mg/kg). The TPH soil screening level for unweathered gasoline is 100 mg/kg. The benzene screening level is 10 mg/kg. The vertical separation distance is concentration specific and as follows:

- If concentrations of unweathered gasoline are less than 100 mg/kg, concentrations of benzene are less than 10 mg/kg, or concentrations of weathered gasoline and diesel are less than 250 mg/kg, six feet of vertical separation is required; and
- If concentrations of unweathered gasoline are greater than 100 mg/kg, concentrations of benzene are greater than 10 mg/kg, or concentrations of weathered gasoline and diesel are greater than 250 mg/kg, 15 feet of vertical separation is required.

For Tier 1 soil screening, MTCA specifies that the vapor intrusion pathway should be evaluated whenever soil concentrations are significantly higher than a concentration derived for the protection of groundwater. Ecology's Implementation Memo No. 15 and the 2022 Ecology Guidance for Evaluating Vapor Intrusion states that individual VOCs with concentrations less than three times the MTCA Method A Cleanup Level for unrestricted land use to not be significant, provided that the selected remedial action results in only limited contaminant mass remaining in the soil. The lateral inclusion soil vapor screening level for TPH-G is the MTCA Method A Cleanup level of 30 mg/kg and the lateral inclusion soil vapor screening level for TPH-D is 250 mg/kg.

The soil samples B-2, SB-3, SB-4 and VE-4 contain concentrations greater than the vertical screening levels, requiring 15 feet of vertical separation, and are within the 30-foot lateral distance to the closest point of the receptor. Soil samples collected from B-1, B-2, EW-1, EW-2, SB-1, SB-3, SB-8, MW-3, MW-15, and VE-1 contain concentrations greater than the vertical screening levels but are located greater than 30 feet from the on-site receptor. However, these areas of potential source material for vapor intrusion are situated next to a utility corridor, that has the potential to act as preferential pathway. Therefore, a soil vapor investigation at the receptor was warranted.

Additional information pertaining to building receptors and potential pathways for soil vapor intrusion into receptors are detailed in the following sections. Soil analytical results are presented in **Table 3**. Soil sample locations are presented in **Figure 2**.

3.5 DATA GAPS

Select borings at the Site have soil samples exceeding vapor intrusion screening levels at depths greater than 15 feet bgs, but do not have shallower samples to demonstrate shallow vertical delineation. However, due to the presence of preferential pathways near the on-site building, soil vapor sampling was performed without confirming shallow soil impacts in those areas. The data gaps present on-site do not affect the completeness of this evaluation.

3.6 RECEPTORS

The purpose of this Tier I Soil Vapor Intrusion Evaluation is to assess the on-site receptor. According to the King County Department of Assessments Online Portal, the Site features include a single-story 768-square-foot mini-mart convenience store constructed in 1985. The building is a prefabricated steel structure on a concrete block foundation. The building heating, ventilation, and air conditioning (HVAC) system consists of a heat pump and furnace. Duct work circulates air through vents in the ceiling of the building. The convenience store is within 30 feet of impacted soil and therefore is at risk of vapor intrusion. The store is for commercial use and is occupied during normal business and occupational hours. Therefore, commercial worker screening levels are appropriate for screening soil vapor concentrations for current land use.

3.6.1 VAPOR INTRUSION ROUTES

As stated in 2022 Ecology Guidance for Evaluating Vapor Intrusion, preferential pathways “include man-made structures such as sewers, land drains, and utility lines, as well as naturally occurring formations such as Karst or fractured bedrock conditions, or clay deposits with significant vertical fissuring.” The majority of the Site is covered by the service station convenience store or impervious surfaces including, concrete surfaces and asphalt pavement. A concrete sidewalk surrounds the storefront and is in good condition with minor surface level cracks. A large portion of air transmission occurs in and out of the building at the two swinging doors at the station forecourt. Customers fueling their vehicles enter the station through these doors. The doors are a likely route for petroleum vapors to enter the station building interior.

3.6.2 SUBSURFACE UTILITIES

Various subsurface utilities are present at the Site and along the parcel boundaries. Underground electric, overhead electric, and communication lines are located along the property boundary on Fauntleroy Way Southwest and Southwest Alaska Street. Utility routes through the site have been confirmed through the City of Seattle Development Services Utility Online Portal to include a water utility line and underground sanitary sewer. An overhead communication line is on the eastern side of the property and connects to the eastern wall of the station building. Various additional underground electrical lines are present, connecting the building to the pump islands. Underground storm sewer and UST vent lines are in the northeastern corner of the Site and connect to the northern wall of the station building.

As shown in **Figure 2**, underground sanitary sewer lines, underground electric lines, and underground water lines cross through areas of residual soil impact and connect to the station building in the northeast corner.

3.7 CROSS SECTIONS

Antea Group assembled cross-sectional views to illustrate vapor intrusion screening level exceedances, historical groundwater elevations, soil sample locations, monitoring well locations, utility lines, remediation trenches, and the locations and depths of identifiable potential vapor intrusion sources. Groundwater gauging data is presented on **Table 1**. Groundwater analytical data is presented on **Table 2**. Soil analytical data is presented on **Table 3**.

4.0 SOIL VAPOR PROBE INSTALLATION

Antea Group contracted Cascade Environmental, LLC (Cascade) and installed two soil vapor probes (SVP-1 and SVP-2) adjacent to the station building. Vapor probe installation activities included asphalt break out, borehole advancement using a hand auger, installation of the soil vapor probe, and surface restoration with a flush-mounted well monument. The probes were constructed of a six-inch-long dedicated stainless steel vapor screen

fitted with polytetrafluoroethylene (PTFE) tubing to grade. An air-tight valve was used at the end of the tubing and will be maintained in a closed position, except during sampling. Vapor screens for both SVP-1 and SVP-2 were set from approximately five feet bgs to five feet and five inches bgs. Size 10/20 silica sand was used to fill the annular space. The sand pack was from four feet and nine inches to six feet and one inch bgs at SVP-1 and from four feet and nine inches to five feet and 9 inches bgs at SVP-2. The soil vapor probes were sealed with dry bentonite chips, followed by pre-hydrated bentonite, and completed with concrete and a traffic-rated flush-mount monument.

5.0 SOIL VAPOR SAMPLE COLLECTION

Following the vapor probe installation, soil vapor conditions were allowed to equilibrate. At least 48 hours after installation, leak detection testing was performed on the vapor sampling system prior to collecting samples.

5.1 SHUT-IN TEST

During both the December 11, 2023 and June 17, 2024 sampling events, Antea Group conducted a shut-in test on the sampling train consisting of a sampling manifold, peristaltic pump, SUMMA® canister, and probe tubing, by closing the ball valves connected to the top of the vapor probes and applying a vacuum. The ball valve connected to the peristaltic pump was opened, and the pump was run until a vacuum of approximately 10 to 15 inches of mercury (inHg) registered on the inline vacuum gauge. Once a vacuum was induced in the sampling train assembly, the ball valve to the peristaltic pump was closed, and the pump turned off. Antea Group subsequently monitored the vacuum gauge for five minutes to confirm tightness. If the sampling train did not hold the required vacuum for five minutes, fittings and connections between the vapor probe, Summa® canister, and sample train were tightened, and another shut-in test was performed. Minimal corrective actions were required to pass the shut-in tests. Helium leak detection testing and purging was not completed until the shut-in test was passed.

5.2 HELIUM LEAK DETECTION TEST AND PURGING

During both December 11, 2023 and the June 17, 2024 sampling events, Antea Group conducted a helium leak detection test following the shut-in test. A shroud was placed around the vapor probe, SUMMA® canister, and sampling train and a vacuum was applied to the sampling train. The vapor probe was purged with a peristaltic pump for five minutes to run the leak detection test. The trace element (helium) was deployed around the vapor probe surface to ensure no leaks in the surface seal or design occurred. A field helium detector was used to measure the helium under the shroud and in the effluent tubing. A helium concentration from the effluent tubing on the sampling train greater than zero would indicate that the sampling system may have been compromised. If a leak was suspected based on testing, tubing connections were reviewed and corrected, and the helium test was run again. The process continued until the helium in the effluent was zero. In addition to the field testing for helium, the samples were analyzed for helium to determine if there was a leak in the sample train. Total purge volumes did not exceed recommended volumes during the leak detection tests.

5.3 SAMPLING

After the calculated purge volume was removed from the subsurface, the ball valve was closed, the pump was turned off, and the sample SUMMA® canister valve was opened to collect a sample until a vacuum of approximately three to five inHg read on the SUMMA® canister gauge. The final vacuum reading was recorded on the chain of custody to ensure there was no leak in transit to the laboratory.

After collecting the samples, Antea Group carefully dismantled the sampling train and removed it from the shroud. Once away from the shroud atmosphere, the sample containers were fully disconnected and prepared for transport and submittal to the laboratory under chain of custody for the following analyses:

- Petroleum equivalent carbon (EC) fractions of air phase petroleum hydrocarbons (APH) – EC5-8 (Aliphatics), EC9-12 (Aliphatics), and EC9-10 (Aromatics) by Massachusetts Department of Environmental Protection (DEP) APH Test Methods;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tert-butyl ether (MTBE), and naphthalene by EPA Method TO-15 SIM;
- Helium by EPA 3C Modified; and
- Fixed Gases – carbon dioxide, oxygen, and methane by American Society for Testing and Materials (ASTM) Method D1946.

6.0 PROJECT RESULTS

6.1 METEOROLOGICAL CONDITIONS

Meteorological conditions were not recorded during either sampling event. However, meteorological conditions from each respective sampling event date are described below according to historical weather data.

6.1.1 WINTER 2023

On December 11, 2023, the high temperature was 47 degrees Fahrenheit (°F) and the low was 42°F. There was 0.0 inches of precipitation within the 24-hour period. A maximum wind speed of 12 miles per hour (mph) was recorded. Barometric pressure was slightly increased throughout the day from 29.69 inches to 29.76 inches throughout the day.

6.1.2 SUMMER 2024

On June 17, 2024, the high temperature was 61°F and the low was 50°F. There was 0.03 inches of precipitation within the 24-hour period. A maximum wind speed of 10 mph was recorded. Barometric pressure slightly increased throughout the day from 29.53 inches to 29.62 inches.

6.2 SOIL VAPOR LABORATORY RESULTS

Soil vapor samples were collected from SVP-1 and SVP-2 approximately six months apart to capture seasonal variations in soil vapor concentrations.

6.1.3 WINTER 2023

The laboratory results indicate that the soil vapor sample collected on December 11, 2023 from sample location SVP-1 contained a detectable concentration of toluene at a concentration below MTCA Method B Soil Gas Screening Levels and Commercial Worker Screening Levels. The laboratory results indicate that the soil vapor sample from SVP-2 contained detectable concentrations of benzene and toluene at concentrations below MTCA Method B Soil Gas Screening Levels and Commercial Worker Screening Levels. The remaining analytes were not detected above laboratory method reporting limits (MRLs).

6.1.4 SUMMER 2024

The laboratory results indicate that the soil vapor sample collected on June 17, 2024, from sample location SVP-1 contained detectable concentrations of benzene, toluene, total xylenes, and APH EC5-8 at concentrations

below MTCA Method B Soil Gas Screening Levels and Commercial Worker Screening Levels. The laboratory results indicate that the soil vapor sample from SVP-2 contained detectable concentrations of toluene and total xylenes at concentrations below MTCA Method B Soil Gas Screening Levels and Commercial Worker Screening Levels. The remaining analytes were not detected above laboratory MRLs.

6.1.5 SUMMARY OF SOIL VAPOR RESULTS

The laboratory results indicated that each of the soil vapor probe soil gas samples obtained during the assessment activities exhibited concentrations below the Commercial Worker Sub-Slab Soil Gas Screening Levels and the more conservative Method B Soil Gas Screening Levels. Soil vapor analytical data from December 11, 2023 and June 17, 2024 sampling events are summarized in **Table 4**. Soil vapor sample locations are presented in **Figure 3**. The laboratory and analytical reports and chain of custody documentation from both events are included as **Appendix C**.

6.3 QUALITY CONTROL PROCEDURES

Results from the winter 2023 sampling event reported concentrations of helium ranging from below MRLs to 90 parts per million by volume (ppmV) in SVP-1 and SVP-2, respectively. The concentrations of helium are within the acceptable quality control criteria, defined in the 2022 Ecology Guidance for Evaluating Vapor Intrusion, as they are below 5% of the respective helium concentration measured beneath the shroud. The concentrations of helium reported in the samples compared to field measured concentrations in the shroud was 0.09% in the sample collected from SVP-1, and 0.13% in the sample collected from SVP-2.

Results from the summer 2024 sampling event reported concentrations of helium at 98 ppmV and 110 ppmV in SVP-1 and SVP-2, respectively. The concentrations of helium are within the acceptable quality control criteria. The concentrations of helium in the samples compared to measured concentrations in the shroud was 0.04% in the sample collected from SVP-1, and 0.04% in the sample collected from SVP-2.

The leak detection results collected during the sampling activities, which were then verified by laboratory analysis of helium in the samples, were within the acceptable quality control criteria defined in the 2022 Ecology Guidance for Evaluating Vapor Intrusion as an acceptable limit of helium in the sample being up to 5% of the concentration of helium in the shroud. Therefore, the samples collected from SVP-1 and SVP-2 are considered acceptable for assessing the risk for potential exposure.

Laboratory quality control issues were not identified by the lab for either sampling event with the exception of a qualifier for the naphthalene analysis on the December 11, 2023 samples. The lab report narrative states that the minimum criterion for naphthalene was not met in the continuing calibration verification (CCV). In accordance with operating procedures, an MRL check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified that instrument sensitivity was adequate to detect the analyte and the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question and the compound was not detected in the field samples, the data quality was not significantly affected. The naphthalene results were flagged accordingly, and no further corrective action was taken.

7.0 SUMMARY

This soil vapor investigation was conducted to evaluate potential vapor intrusion into the existing station building at the Site. The laboratory results for soil vapor samples collected in December 2023 and June 2024 indicate that constituents of concern were below both the Commercial Worker Sub-Slab Soil Gas Screening

Levels for cancer and noncancer as well as the more conservative Method B Soil Gas Screening Levels for cancer and noncancer.

8.0 CONCLUSIONS

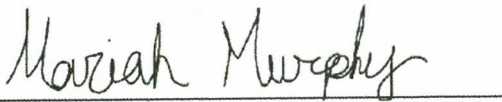
Seasonal samples were collected from two soil vapor probes at the Site. Results from both sampling events were below the currently applicable Commercial Worker Screening Levels as well as the more conservative Method B Soil Gas Screening Levels in all samples collected. Based on the data collected from the soil vapor sampling events, the soil to vapor pathway is incomplete, and no further evaluation of the vapor intrusion pathway is necessary for the current structure at the Site.

Antea Group respectfully requests Ecology's opinion on this soil vapor intrusion evaluation.

9.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

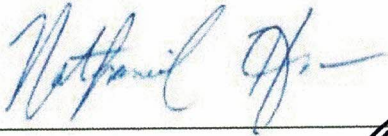
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Staff Professional

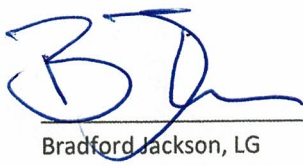
Date: March 31, 2025

Reviewed by:



Nathan Han
Project Manager

Date: March 31, 2025



Bradford Jackson, LG
Senior Project Manager



Bradford D. Jackson

Expires 10/19/2025

Date: March 31, 2025

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10.0 CONTACT INFORMATION

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11.0 REFERENCES

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Arcadis N.V. Subsurface Investigation and Remediation Well Installation. June 2014.

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Antea Group. Air Sparge Pilot Tests. July-Oct. 2021.

Antea Group. PetroFix Injection. Dec. 2022.

Antea Group. Subsurface Investigation. Sept.-Dec. 2023.

Tables

Table 1 – Groundwater Gauging Data

Table 2 – Groundwater Analytical Data

Table 3 – Soil Analytical Data

Table 4 – Soil Vapor Analytical Results

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
AS-1	5/7/2015	--	23.30	NP	--	--	NS
AS-1	3/2/2016	--	23.31	NP	--	--	NS
AS-2	3/2/2016	--	21.18	NP	--	--	NS
AS-3	3/2/2016	--	21.63	NP	--	--	NS
AS-4	3/2/2016	--	21.65	NP	--	--	NS
AS-5	3/2/2016	--	--	--	--	--	Dry
AS-6	3/2/2016	--	25.61	NP	--	--	NS
CW-2	3/2/2016	--	19.53	NP	--	--	NS
CW-3	3/2/2016	--	21.57	NP	--	--	NS
CW-4	3/2/2016	--	20.61	NP	--	--	NS
EW-1	5/9/2013	268.20	24.49	24.32	0.17	243.85	--
EW-1	5/7/2015	268.21	25.75	24.73	1.02	243.27	--
EW-1	3/2/2016	268.21	24.81	NP	--	243.40	NS
EW-1	6/6/2016	268.21	25.94	25.28	0.66	242.80	--
EW-1	9/12/2016	268.21	26.89	26.16	0.73	241.91	--
EW-1	12/12/2016	268.21	25.49	24.70	0.79	243.36	--
EW-1	2/22/2017	268.21	24.98	24.20	0.78	243.86	--
EW-1	8/29/2017	268.22	26.28	25.68	0.60	242.42	--
EW-1	10/25/2018	268.22	27.52	NP	--	240.70	NS
EW-1	2/20/2019	268.22	26.85	NP	--	241.37	NS
EW-1	5/14/2019	268.22	27.18	NP	--	241.04	NS
EW-1	8/27/2019	268.22	27.83	NP	--	240.39	NS
EW-1	11/25/2019	268.22	27.84	NP	--	240.38	NS
EW-1	3/25/2020	268.23	26.50	NP	--	241.73	NS
EW-1	8/6/2020	268.23	26.85	NP	--	241.38	NS
EW-1	2/6/2024	268.24	26.09	NP	--	242.15	--
EW-2	5/9/2013	267.93	24.11	NP	--	243.82	NS
EW-2	5/7/2015	267.93	24.78	NP	--	243.15	NS
EW-2	3/2/2016	267.93	24.80	NP	--	243.13	NS
EW-2	6/6/2016	267.93	25.17	NP	--	242.76	NS
EW-2	9/12/2016	267.93	26.22	NP	--	241.71	NS
EW-2	12/12/2016	267.93	24.64	NP	--	243.29	NS
EW-2	2/22/2017	267.93	24.10	NP	--	243.83	NS
EW-2	8/29/2017	267.93	25.56	NP	--	242.37	NS
EW-2	10/25/2018	267.93	27.30	NP	--	240.63	NS
EW-2	2/20/2019	267.93	26.52	NP	--	241.41	NS
EW-2	5/14/2019	267.93	26.96	NP	--	240.97	NS
EW-2	8/27/2019	267.93	27.65	NP	--	240.28	NS
EW-2	11/25/2019	267.93	27.81	NP	--	240.12	NS
EW-2	3/25/2020	267.93	26.21	NP	--	241.72	NS

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
EW-2	8/6/2020	267.93	26.61	NP	--	241.32	NS
EW-2	2/6/2024	267.93	25.55	NP	--	242.38	--
EW-3	5/9/2013	268.50	24.90	24.59	0.31	243.85	--
EW-3	5/7/2015	268.50	25.77	23.23	2.54	244.76	--
EW-3	3/2/2016	268.50	25.44	25.19	0.25	243.26	--
EW-3	9/12/2016	268.50	27.17	25.63	1.54	242.57	--
EW-3	12/12/2016	268.50	25.58	24.75	0.83	243.59	--
EW-3	2/22/2017	268.50	25.06	24.22	0.84	244.12	--
EW-3	8/29/2017	268.50	26.75	25.99	0.76	242.36	--
EW-3	10/25/2018	268.51	27.81	NP	--	240.70	NS
EW-3	2/20/2019	268.51	26.93	NP	--	241.58	NS
EW-3	5/14/2019	268.51	27.45	NP	--	241.06	NS
EW-3	8/27/2019	268.51	27.98	NP	--	240.53	NS
EW-3	11/25/2019	268.51	27.98	NP	--	240.53	NS
EW-3	3/25/2020	268.51	26.69	NP	--	241.82	NS
EW-3	8/6/2020	268.51	27.11	NP	--	241.40	NS
EW-3	2/6/2024	268.51	24.59	NP	--	243.92	--
GMW-1	5/10/2011	--	22.08	NP	--	--	--
GMW-1	11/29/2011	--	23.83	NP	--	--	--
GMW-1	6/1/2012	--	--	--	--	--	NM
GMW-1	11/29/2012	265.63	--	--	--	--	NM
GMW-1	5/9/2013	265.63	22.58	NP	--	243.05	--
GMW-1	11/19/2013	265.63	24.00	NP	--	241.63	--
GMW-1	5/13/2014	265.63	22.83	NP	--	242.80	NS
GMW-1	5/14/2014	265.63	--	--	--	--	--
GMW-1	5/7/2015	265.63	23.48	NP	--	242.15	--
GMW-1	3/2/2016	265.63	22.48	NP	--	243.15	--
GMW-1	6/6/2016	265.63	23.51	NP	--	242.12	--
GMW-1	9/12/2016	265.63	24.89	NP	--	240.74	--
GMW-1	12/12/2016	265.63	22.95	NP	--	242.68	--
GMW-1	2/22/2017	265.63	22.02	NP	--	243.61	--
GMW-1	8/29/2017	265.63	23.86	NP	--	241.77	--
GMW-1	3/13/2018	265.63	23.20	NP	--	242.43	--
GMW-1	10/25/2018	265.63	26.22	26.16	0.06	239.46	--
GMW-1	2/20/2019	265.64	24.34	NP	--	241.30	--
GMW-1	5/13/2019	265.64	25.28	NP	--	240.36	--
GMW-1	8/27/2019	265.65	26.68	NP	--	238.97	--
GMW-1	11/25/2019	265.65	26.95	26.90	0.05	238.74	NS
GMW-1	3/25/2020	265.66	24.91	NP	--	240.75	--
GMW-1	6/2/2020	265.66	25.05	NP	--	240.61	--
GMW-1	8/6/2020	265.67	25.92	NP	--	239.75	--
GMW-1	12/10/2020	265.67	25.50	25.49	0.01	240.18	--
GMW-1	3/8/2021	265.68	23.35	NP	--	242.33	--
GMW-1	6/9/2021	265.69	24.62	NP	--	241.07	--
GMW-1	9/13/2021	265.69	26.70	NP	--	238.99	
GMW-1	12/7/2021	265.70	24.55	NP	--	241.15	--
GMW-1	9/22/2022	265.71	25.45	NP	--	240.26	--
GMW-1	11/29/2022	265.72	26.24	NP	--	239.48	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
GMW-1	2/27/2023	265.72	24.34	NP	--	241.38	--
GMW-1	5/25/2023	265.73	24.30	NP	--	241.43	--
GMW-1	8/9/2023	265.73	24.84	NP	--	240.89	--
GMW-1	12/11/2023	265.74	23.43	NP	--	242.31	--
GMW-1	2/6/2024	265.74	22.16	NP	--	243.58	--
GMW-1	5/16/2024	265.74	23.61	NP	--	242.13	NS
MW-1	5/11/1993	99.89	23.02	NP	--	76.87	--
MW-1	3/4/1994	99.89	24.32	NP	--	75.57	--
MW-1	7/6/1994	99.89	24.60	NP	--	75.29	--
MW-1	10/7/1994	99.89	24.97	NP	--	74.92	--
MW-1	12/28/1994	99.89	24.86	NP	--	75.03	--
MW-1	3/13/1995	99.89	24.16	NP	--	75.73	--
MW-1	6/30/1995	99.89	23.98	NP	--	75.91	--
MW-1	9/6/1995	99.89	24.30	NP	--	75.59	--
MW-1	12/8/1995	99.89	24.41	NP	--	75.48	--
MW-1	3/11/1996	99.89	23.11	NP	--	76.78	--
MW-1	6/18/1996	99.89	22.80	NP	--	77.09	--
MW-1	9/9/1996	99.89	23.11	NP	--	76.78	--
MW-1	12/11/1996	99.89	23.07	NP	--	76.82	--
MW-1	3/13/1997	99.89	22.12	NP	--	77.77	--
MW-1	6/5/1997	99.89	21.75	NP	--	78.14	--
MW-1	9/5/1997	99.89	22.03	NP	--	77.86	--
MW-1	4/2/1998	99.89	21.27	NP	--	78.62	--
MW-1	6/8/1998	99.89	21.53	NP	--	78.36	--
MW-1	12/9/1998	99.89	22.22	NP	--	77.67	--
MW-1	6/26/1999	99.89	21.08	NP	--	78.81	--
MW-1	9/28/1999	99.89	21.88	NP	--	78.01	--
MW-1	1/19/2000	99.89	21.46	NP	--	78.43	--
MW-1	3/24/2000	99.89	21.40	NP	--	78.49	--
MW-1	7/2/2000	99.89	21.92	NP	--	77.97	--
MW-1	9/14/2000	99.89	22.54	NP	--	77.35	--
MW-1	12/14/2000	99.89	22.81	NP	--	77.08	--
MW-1	9/22/2001	99.89	23.55	NP	--	76.34	--
MW-1	12/9/2001	99.89	23.63	NP	--	76.26	--
MW-1	3/20/2002	99.89	22.88	NP	--	77.01	--
MW-1	6/11/2002	99.89	23.02	NP	--	76.87	--
MW-1	12/21/2002	99.89	24.54	NP	--	75.35	NS
MW-1	3/19/2003	99.89	24.50	NP	--	75.39	NS
MW-1	6/18/2003	99.89	24.36	NP	--	75.53	NS
MW-1	9/23/2003	99.89	--	--	--	--	NS
MW-1	10/21/2003	99.89	25.04	NP	--	74.85	--
MW-1	6/29/2004	99.89	24.22	NP	--	75.67	NS
MW-1	11/15/2004	99.89	25.11	NP	--	74.78	NS
MW-1	4/14/2005	99.89	25.10	NP	--	74.79	NS
MW-1	12/18/2005	99.89	25.46	NP	--	74.43	--
MW-1	6/11/2006	99.89	24.54	NP	--	75.35	--
MW-1	11/5/2006	99.89	25.59	NP	--	74.30	--
MW-1	9/25/2007	99.89	25.08	NP	--	74.81	--
MW-1	12/31/2007	99.89	25.23	NP	--	74.66	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-1	5/29/2008	99.89	25.01	NP	--	74.88	--
MW-1	10/28/2008	99.89	25.80	NP	--	74.09	--
MW-1	6/22/2009	99.89	26.11	NP	--	73.78	--
MW-1	12/15/2009	99.89	26.31	NP	--	73.58	--
MW-1	5/24/2010	267.43	25.20	NP	--	242.23	--
MW-1	10/12/2010	267.43	25.09	NP	--	242.34	--
MW-1	5/10/2011	267.43	23.60	NP	--	243.83	--
MW-1	11/29/2011	267.43	24.84	NP	--	242.59	--
MW-1	6/1/2012	267.43	23.67	NP	--	243.76	--
MW-1	11/29/2012	267.43	24.00	NP	--	243.43	--
MW-1	5/9/2013	267.43	23.79	NP	--	243.64	--
MW-1	11/19/2013	267.43	25.30	NP	--	242.13	--
MW-1	5/13/2014	267.43	24.12	NP	--	243.31	--
MW-1	5/7/2015	267.43	24.26	NP	--	243.17	--
MW-1	3/2/2016	267.43	24.53	NP	--	242.90	--
MW-1	6/6/2016	267.43	24.82	NP	--	242.61	NS
MW-1	9/12/2016	267.43	26.88	NP	--	240.55	IW
MW-1	12/12/2016	267.43	24.76	NP	--	242.67	NS
MW-1	2/22/2017	267.43	24.11	NP	--	243.32	--
MW-1	8/29/2017	267.43	25.20	NP	--	242.23	--
MW-1	3/13/2018	267.43	25.35	NP	--	242.08	--
MW-1	10/25/2018	267.43	26.43	NP	--	241.00	NS
MW-1	2/20/2019	267.43	26.37	NP	--	241.06	NS
MW-1	2/22/2019	267.43	26.33	NP	--	241.10	--
MW-1	5/14/2019	267.43	26.70	NP	--	240.73	--
MW-1	8/27/2019	267.43	27.20	NP	--	240.23	NS
MW-1	11/25/2019	267.43	27.21	NP	--	240.22	NS
MW-1	3/26/2020	267.43	26.02	NP	--	241.41	--
MW-1	6/3/2020	267.43	25.92	NP	--	241.51	--
MW-1	8/6/2020	267.43	26.32	NP	--	241.11	--
MW-1	12/10/2020	267.43	--	--	--	--	Dry
MW-1	3/8/2021	267.43	25.27	NP	--	242.16	--
MW-1	6/9/2021	267.43	25.76	25.76	0.00	241.67	--
MW-1	9/13/2021	267.43	--	NP	--	--	Dry
MW-1	12/7/2021	--	--	--	--	--	Dry
MW-1	3/8/2022	267.43	25.89	NP	--	241.54	--
MW-1	6/22/2022	267.43	26.07	NP	--	241.36	--
MW-1	9/22/2022	267.43	26.81	NP	--	240.62	--
MW-1	11/29/2022	267.43	27.20	NP	--	240.23	IW
MW-1	12/12/2022	267.43	27.16	NP	--	240.27	--
MW-1	2/27/2023	267.43	--	--	--	--	Dry
MW-1	5/25/2023	267.43	--	--	--	--	Dry
MW-1	8/9/2023	267.43	26.80	NP	--	240.63	IW
MW-1	2/6/2024	267.43	25.55	NP	--	241.88	--
MW-1	5/16/2024	267.43	25.70	NP	--	241.73	--
MW-2	5/11/1993	99.05	22.98	NP	--	76.07	--
MW-2	3/4/1994	99.05	24.30	NP	--	74.75	--
MW-2	7/6/1994	99.05	24.54	NP	--	74.51	--
MW-2	10/7/1994	99.05	24.94	NP	--	74.11	--

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Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	12/28/1994	99.05	24.60	NP	--	74.45	--
MW-2	3/13/1995	99.05	23.84	NP	--	75.21	--
MW-2	6/30/1995	99.05	23.72	NP	--	75.33	--
MW-2	9/6/1995	99.05	23.97	NP	--	75.08	--
MW-2	12/8/1995	99.05	23.97	NP	--	75.08	--
MW-2	3/11/1996	99.05	22.66	NP	--	76.39	--
MW-2	6/18/1996	99.05	22.18	NP	--	76.87	--
MW-2	9/9/1996	99.05	22.72	NP	--	76.33	--
MW-2	12/11/1996	99.05	22.67	NP	--	76.38	--
MW-2	3/13/1997	99.05	21.91	NP	--	77.14	--
MW-2	6/5/1997	99.05	21.06	NP	--	77.99	--
MW-2	9/5/1997	99.05	21.74	NP	--	77.31	--
MW-2	4/2/1998	99.05	20.71	NP	--	78.34	--
MW-2	6/8/1998	99.05	21.25	NP	--	77.80	--
MW-2	9/17/1998	99.05	22.10	NP	--	76.95	--
MW-2	12/9/1998	99.05	21.99	NP	--	77.06	--
MW-2	3/17/1999	99.05	19.67	NP	--	79.38	--
MW-2	6/26/1999	99.05	21.26	NP	--	77.79	--
MW-2	9/28/1999	99.05	21.75	NP	--	77.30	--
MW-2	1/19/2000	99.05	21.12	NP	--	77.93	--
MW-2	3/24/2000	99.05	20.74	NP	--	78.31	--
MW-2	7/2/2000	99.05	21.51	NP	--	77.54	--
MW-2	9/14/2000	99.05	22.31	NP	--	76.74	--
MW-2	12/14/2000	99.05	22.97	NP	--	76.08	--
MW-2	9/22/2001	99.05	23.59	NP	--	75.46	--
MW-2	12/9/2001	99.05	23.27	NP	--	75.78	--
MW-2	3/20/2002	99.05	22.41	NP	--	76.64	--
MW-2	6/11/2002	99.05	22.61	NP	--	76.44	--
MW-2	12/21/2002	99.05	24.30	NP	--	74.75	--
MW-2	3/19/2003	99.05	23.90	NP	--	75.15	--
MW-2	6/18/2003	99.05	23.87	NP	--	75.18	--
MW-2	9/23/2003	99.05	24.33	NP	--	74.72	--
MW-2	10/21/2003	99.05	24.38	NP	--	74.67	--
MW-2	6/29/2004	99.05	23.74	NP	--	75.31	--
MW-2	11/15/2004	99.05	24.70	NP	--	74.35	--
MW-2	4/14/2005	99.05	24.69	NP	--	74.36	--
MW-2	12/18/2005	99.05	25.15	NP	--	73.90	--
MW-2	6/11/2006	99.05	24.01	NP	--	75.04	--
MW-2	11/5/2006	99.05	25.40	NP	--	73.65	--
MW-2	9/25/2007	99.05	24.72	NP	--	74.33	--
MW-2	12/31/2007	99.05	24.67	NP	--	74.38	--
MW-2	5/29/2008	99.05	24.73	NP	--	74.32	--
MW-2	10/28/2008	99.05	25.74	NP	--	73.31	--
MW-2	6/22/2009	99.05	25.91	NP	--	73.14	--
MW-2	12/15/2009	99.05	25.87	NP	--	73.18	--
MW-2	5/24/2010	266.69	24.64	NP	--	242.05	--
MW-2	10/12/2010	266.69	25.03	NP	--	241.66	--
MW-2	5/10/2011	266.69	23.23	NP	--	243.46	--
MW-2	11/29/2011	266.69	24.82	NP	--	241.87	--
MW-2	6/1/2012	266.69	23.60	NP	--	243.09	--

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Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-2	11/29/2012	266.69	23.86	NP	--	242.83	--
MW-2	5/9/2013	266.69	23.41	NP	--	243.28	--
MW-2	11/19/2013	266.69	24.40	NP	--	242.29	--
MW-2	5/13/2014	266.69	23.74	NP	--	242.95	--
MW-2	5/7/2015	266.69	24.14	NP	--	242.55	--
MW-2	3/2/2016	266.69	23.79	NP	--	242.90	--
MW-2	6/6/2016	266.69	24.49	NP	--	242.20	--
MW-2	9/12/2016	266.69	26.69	NP	--	240.00	--
MW-2	12/12/2016	266.69	23.96	NP	--	242.73	--
MW-2	2/22/2017	266.69	23.18	NP	--	243.51	--
MW-2	8/29/2017	266.69	24.86	NP	--	241.83	--
MW-2	3/13/2018	266.69	24.45	NP	--	242.24	--
MW-2	10/25/2018	266.69	26.85	NP	--	239.84	--
MW-2	2/20/2019	266.69	25.27	NP	--	241.42	--
MW-2	5/14/2019	266.69	26.20	NP	--	240.49	--
MW-2	8/27/2019	266.69	27.30	NP	--	239.39	NS
MW-2	11/26/2019	266.69	27.29	NP	--	239.40	--
MW-2	3/26/2020	266.69	25.44	NP	--	241.25	--
MW-2	6/3/2020	266.69	25.60	NP	--	241.09	--
MW-2	8/7/2020	266.69	26.22	NP	--	240.47	--
MW-2	12/10/2020	266.69	24.06	NP	--	242.63	--
MW-2	3/8/2021	266.69	24.32	NP	--	242.37	--
MW-2	6/9/2021	266.69	25.45	NP	--	241.24	--
MW-2	9/13/2021	266.69	--	NP	--	--	Dry
MW-2	12/7/2021	266.69	25.12	NP	--	241.57	--
MW-2	3/8/2022	266.69	24.48	NP	--	242.21	--
MW-2	6/22/2022	266.69	25.03	NP	--	241.66	--
MW-2	9/22/2022	266.69	26.51	NP	--	240.18	--
MW-2	11/29/2022	266.69	25.93	NP	--	240.76	--
MW-2	2/27/2023	266.69	25.08	NP	--	241.61	--
MW-2	5/25/2023	266.69	25.52	NP	--	241.17	--
MW-2	8/9/2023	266.69	26.04	NP	--	240.65	--
MW-2	12/11/2023	266.69	24.29	NP	--	242.40	--
MW-2	2/6/2024	266.69	23.65	NP	--	243.04	--
MW-2	5/16/2024	266.69	24.84	NP	--	241.85	--
MW-3	6/7/1993	98.53	22.28	NP	--	76.25	--
MW-3	3/4/1994	98.53	23.62	NP	--	74.91	--
MW-3	7/6/1994	98.53	23.84	NP	--	74.69	--
MW-3	10/7/1994	98.53	24.21	NP	--	74.32	--
MW-3	12/28/1994	98.53	23.91	NP	--	74.62	--
MW-3	3/13/1995	98.53	23.12	NP	--	75.41	--
MW-3	6/30/1995	98.53	23.87	NP	--	74.66	--
MW-3	9/6/1995	98.53	23.14	NP	--	75.39	--
MW-3	12/8/1995	98.53	23.20	NP	--	75.33	--
MW-3	3/11/1996	98.53	21.63	NP	--	76.90	--
MW-3	6/18/1996	98.53	21.20	NP	--	77.33	--
MW-3	9/9/1996	98.53	21.67	NP	--	76.86	--
MW-3	12/11/1996	98.53	21.87	NP	--	76.66	--
MW-3	3/13/1997	98.53	20.67	NP	--	77.86	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-3	6/5/1997	98.53	19.83	NP	--	78.70	--
MW-3	9/5/1997	98.53	20.72	NP	--	77.81	--
MW-3	4/2/1998	98.53	19.63	NP	--	78.90	--
MW-3	6/8/1998	98.53	20.26	NP	--	78.27	--
MW-3	9/17/1998	98.53	21.21	NP	--	77.32	--
MW-3	12/9/1998	98.53	21.06	NP	--	77.47	--
MW-3	3/17/1999	98.53	18.72	NP	--	79.81	--
MW-3	6/26/1999	98.53	19.92	NP	--	78.61	--
MW-3	9/28/1999	98.53	20.79	NP	--	77.74	--
MW-3	1/19/2000	98.53	20.19	NP	--	78.34	--
MW-3	3/24/2000	98.53	19.64	NP	--	78.89	--
MW-3	7/2/2000	98.53	20.53	NP	--	78.00	--
MW-3	9/14/2000	98.53	21.34	NP	--	77.19	--
MW-3	12/14/2000	98.53	21.90	NP	--	76.63	--
MW-3	9/22/2001	98.53	22.82	NP	--	75.71	--
MW-3	12/9/2001	98.53	22.50	NP	--	76.03	--
MW-3	3/20/2002	98.53	21.55	NP	--	76.98	--
MW-3	6/11/2002	98.53	21.69	NP	--	76.84	--
MW-3	12/21/2002	98.53	24.37	NP	--	74.16	--
MW-3	3/19/2003	98.53	23.17	NP	--	75.36	NS
MW-3	6/18/2003	98.53	22.82	NP	--	75.71	--
MW-3	9/23/2003	98.53	23.55	NP	--	74.98	NS
MW-3	10/21/2003	98.53	23.52	NP	--	75.01	--
MW-3	6/29/2004	98.53	--	--	--	--	NS
MW-3	11/15/2004	98.53	23.95	NP	--	74.58	--
MW-3	4/14/2005	98.53	23.90	NP	--	74.63	--
MW-3	12/18/2005	98.53	24.42	NP	--	74.11	--
MW-3	6/11/2006	98.53	23.48	NP	--	75.05	--
MW-3	11/5/2006	98.53	24.59	NP	--	73.94	--
MW-3	9/25/2007	98.53	23.84	NP	--	74.69	--
MW-3	12/31/2007	98.53	23.83	NP	--	74.70	--
MW-3	5/29/2008	98.53	23.90	NP	--	74.63	--
MW-3	10/28/2008	98.53	24.97	NP	--	73.56	--
MW-3	6/22/2009	98.53	25.29	NP	--	73.24	--
MW-3	12/15/2009	98.53	25.14	NP	--	73.39	--
MW-3	5/24/2010	266.00	24.10	NP	--	241.90	--
MW-3	10/12/2010	266.00	24.40	NP	--	241.60	--
MW-3	5/10/2011	266.00	22.55	NP	--	243.45	--
MW-3	11/29/2011	266.00	24.19	NP	--	241.81	--
MW-3	6/1/2012	266.00	22.94	NP	--	243.06	--
MW-3	11/29/2012	266.00	22.90	NP	--	243.10	--
MW-3	5/9/2013	266.00	22.72	NP	--	243.28	--
MW-3	11/19/2013	266.01	24.30	NP	--	241.71	--
MW-3	5/13/2014	266.01	22.95	NP	--	243.06	--
MW-3	5/7/2015	266.01	23.52	NP	--	242.49	--
MW-3	3/2/2016	266.01	22.12	NP	--	243.89	--
MW-3	6/6/2016	266.01	23.76	NP	--	242.25	--
MW-3	9/12/2016	266.01	25.08	NP	--	240.93	--
MW-3	12/12/2016	266.01	22.42	NP	--	243.59	--
MW-3	2/22/2017	266.01	20.02	NP	--	245.99	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-3	8/29/2017	266.01	24.09	NP	--	241.92	--
MW-3	3/13/2018	266.01	23.22	NP	--	242.79	--
MW-3	10/25/2018	266.01	26.11	NP	--	239.90	--
MW-3	2/20/2019	266.01	23.86	NP	--	242.15	NS
MW-3	5/14/2019	266.01	25.42	NP	--	240.59	--
MW-3	8/27/2019	266.01	26.38	NP	--	239.63	NS
MW-3	11/25/2019	266.01	24.70	NP	--	241.31	--
MW-3	3/26/2020	266.01	25.79	NP	--	240.22	--
MW-3	6/2/2020	266.02	24.64	NP	--	241.38	NS
MW-3	8/7/2020	266.02	25.53	NP	--	240.49	--
MW-3	12/10/2020	266.02	24.59	NP	--	241.43	--
MW-3	3/8/2021	266.02	23.11	NP	--	242.91	--
MW-3	6/9/2021	266.02	24.63	NP	--	241.39	--
MW-3	9/13/2021	266.02	26.07	NP	--	239.95	--
MW-3	12/7/2021	266.02	22.98	NP	--	243.04	--
MW-3	3/8/2022	266.02	23.19	NP	--	242.83	--
MW-3	6/22/2022	266.02	24.07	NP	--	241.95	--
MW-3	9/22/2022	266.02	25.76	NP	--	240.26	--
MW-3	11/29/2022	266.02	24.19	NP	--	241.83	--
MW-3	2/27/2023	266.02	22.40	NP	--	243.62	--
MW-3	5/25/2023	266.02	24.78	NP	--	241.24	--
MW-3	8/9/2023	266.02	25.33	NP	--	240.69	--
MW-3	12/11/2023	266.02	20.72	NP	--	245.30	--
MW-3	2/6/2024	266.02	22.02	NP	--	244.00	--
MW-3	5/16/2024	266.02	24.10	NP	--	241.92	--
MW-4	5/11/1993	100.26	23.03	NP	--	77.23	--
MW-4	3/4/1994	100.26	26.83	22.83	4.00	76.63	--
MW-4	7/6/1994	100.26	25.63	24.20	1.43	75.77	--
MW-4	10/7/1994	100.26	26.07	24.44	1.63	75.49	--
MW-4	12/28/1994	100.26	25.85	24.42	1.43	75.55	--
MW-4	3/13/1995	100.26	25.59	23.71	1.88	76.17	--
MW-4	6/30/1995	100.26	24.64	23.53	1.11	76.51	--
MW-4	9/6/1995	100.26	24.78	23.73	1.05	76.32	--
MW-4	12/8/1995	100.26	24.94	23.89	1.05	76.16	--
MW-4	3/11/1996	100.26	24.68	22.30	2.38	77.48	--
MW-4	6/18/1996	100.26	24.04	21.93	2.11	77.91	--
MW-4	9/9/1996	100.26	24.08	22.23	1.85	77.66	--
MW-4	12/11/1996	100.26	23.07	22.69	0.38	77.49	--
MW-4	3/17/1999	100.26	--	--	--	--	--
MW-4	9/28/1999	100.26	--	--	--	--	--
MW-4	1/19/2000	100.26	--	--	--	--	--
MW-4	3/24/2000	100.26	--	--	--	--	--
MW-4	7/2/2000	100.26	--	--	--	--	--
MW-4	9/14/2000	100.26	--	--	--	--	--
MW-4	9/22/2001	100.26	26.60	23.33	3.27	76.28	--
MW-4	12/9/2001	100.26	25.50	23.13	2.37	76.66	--
MW-4	3/20/2002	100.26	26.50	22.77	3.73	76.74	--
MW-4	6/11/2002	100.26	24.25	23.15	1.10	76.89	--
MW-4	12/21/2002	100.26	--	--	--	--	NS

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-4	3/19/2003	100.26	--	--	--	--	NS
MW-4	6/18/2003	100.26	--	--	--	--	NS
MW-4	9/23/2003	100.26	22.31	22.24	0.07	78.01	--
MW-4	10/21/2003	100.26	21.79	NP	--	78.47	--
MW-4	6/29/2004	100.26	22.88	NP	--	77.38	--
MW-4	11/15/2004	100.26	23.07	21.62	1.45	78.35	--
MW-4	4/14/2005	100.26	23.82	21.93	1.89	77.95	--
MW-4	12/18/2005	100.26	23.43	23.35	0.08	76.89	--
MW-4	6/11/2006	100.26	21.87	21.86	0.01	78.40	--
MW-4	11/5/2006	100.26	22.92	22.91	0.01	77.35	--
MW-4	9/25/2007	100.26	22.15	22.13	0.02	78.13	--
MW-4	12/31/2007	100.26	--	--	--	--	NS
MW-4	5/29/2008	100.26	--	--	--	--	NM
MW-4	10/28/2008	100.26	--	--	--	--	Dry
MW-4	6/22/2009	100.26	24.21	24.17	0.04	76.08	--
MW-4	12/15/2009	100.26	24.04	23.76	0.28	76.44	--
MW-4	5/24/2010	267.78	--	--	--	--	NM
MW-4	5/10/2011	267.78	--	--	--	--	NM
MW-4	11/29/2011	267.78	--	--	--	--	NM
MW-4	6/1/2012	267.78	--	--	--	--	NM
MW-4	11/29/2012	267.78	24.00	23.90	0.10	243.86	--
MW-4	5/9/2013	267.78	26.48	22.65	3.83	244.36	--
MW-4	11/19/2013	267.78	26.61	24.80	1.81	242.62	--
MW-4	5/13/2014	267.78	25.80	23.30	2.50	243.98	--
MW-4	5/7/2015	267.78	26.50	23.55	2.95	243.64	--
MW-4	3/2/2016	267.78	24.67	23.27	1.40	244.23	--
MW-4	6/6/2016	267.78	25.86	24.33	1.53	243.14	--
MW-4	9/12/2016	267.78	26.51	25.40	1.11	242.16	--
MW-4	12/12/2016	267.78	23.27	NP	--	244.51	--
MW-4	2/22/2017	267.78	22.63	22.56	0.07	245.21	--
MW-4	8/29/2017	267.78	26.50	24.82	1.68	242.62	NS
MW-4	3/13/2018	267.78	24.74	24.26	0.48	243.42	NS
MW-4	10/25/2018	267.78	26.76	26.48	0.28	241.24	NS
MW-4	2/20/2019	267.77	24.80	NP	--	242.97	NS
MW-4	5/14/2019	267.77	26.33	NP	--	241.44	NS
MW-4	8/27/2019	267.76	26.51	NP	--	241.25	NS
MW-4	11/25/2019	267.75	26.51	NP	--	241.24	NS
MW-4	3/26/2020	267.74	24.62	NP	--	243.12	--
MW-4	6/2/2020	267.74	24.65	NP	--	243.09	NS
MW-4	8/6/2020	267.73	26.29	26.15	0.14	241.56	NS
MW-4	12/10/2020	267.72	25.81	25.76	0.05	241.95	--
MW-4	3/8/2021	267.72	24.01	NP	--	243.71	--
MW-4	6/9/2021	267.71	25.28	NP	--	242.43	--
MW-4	9/13/2021	267.70	--	NP	--	--	Dry
MW-4	12/7/2021	267.70	24.36	NP	--	243.34	--
MW-4	3/8/2022	267.69	23.40	NP	--	244.29	--
MW-4	6/22/2022	267.68	25.41	NP	--	242.27	--
MW-4	9/22/2022	267.68	26.70	NP	--	240.98	IW
MW-4	11/29/2022	267.67	26.76	26.75	0.01	240.92	IW
MW-4	12/12/2022	267.67	23.49	NP	--	244.18	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-4	2/27/2023	267.67	22.01	NP	--	245.66	--
MW-4	5/25/2023	267.66	--	--	--	--	Dry
MW-4	8/9/2023	267.65	25.96	NP	--	241.69	IW
MW-4	12/11/2023	267.64	18.73	NP	--	248.91	--
MW-4	2/6/2024	267.64	20.80	NP	--	246.84	--
MW-4	5/16/2024	267.64	26.04	NP	--	241.60	--
MW-5	5/11/1993	100.88	22.97	NP	--	77.91	--
MW-5	3/4/1994	100.88	24.35	NP	--	76.53	--
MW-5	7/6/1994	100.88	24.72	NP	--	76.16	--
MW-5	10/7/1994	100.88	25.02	NP	--	75.86	--
MW-5	12/28/1994	100.88	24.98	NP	--	75.90	--
MW-5	3/13/1995	100.88	24.41	NP	--	76.47	--
MW-5	6/30/1995	100.88	24.06	NP	--	76.82	--
MW-5	9/6/1995	100.88	24.27	NP	--	76.61	--
MW-5	12/8/1995	100.88	24.49	NP	--	76.39	--
MW-5	3/11/1996	100.88	23.33	NP	--	77.55	--
MW-5	6/18/1996	100.88	22.91	NP	--	77.97	--
MW-5	9/9/1996	100.88	23.07	NP	--	77.81	--
MW-5	12/11/1996	100.88	23.13	NP	--	77.75	--
MW-5	3/13/1997	100.88	22.28	NP	--	78.60	--
MW-5	6/5/1997	100.88	21.78	NP	--	79.10	--
MW-5	9/5/1997	100.88	21.92	NP	--	78.96	--
MW-5	4/2/1998	100.88	21.35	NP	--	79.53	--
MW-5	6/8/1998	100.88	21.48	NP	--	79.40	--
MW-5	9/17/1998	100.88	22.12	NP	--	78.76	--
MW-5	12/9/1998	100.88	22.33	NP	--	78.55	--
MW-5	3/17/1999	100.88	20.93	NP	--	79.95	--
MW-5	6/26/1999	100.88	21.02	NP	--	79.86	--
MW-5	9/28/1999	100.88	21.76	NP	--	79.12	--
MW-5	1/19/2000	100.88	21.65	NP	--	79.23	--
MW-5	3/24/2000	100.88	21.48	NP	--	79.40	--
MW-5	7/2/2000	100.88	22.01	NP	--	78.87	--
MW-5	9/14/2000	100.88	22.59	NP	--	78.29	--
MW-5	12/14/2000	100.88	22.95	NP	--	77.93	--
MW-5	9/22/2001	100.88	23.86	NP	--	77.02	--
MW-5	12/9/2001	100.88	23.90	NP	--	76.98	--
MW-5	3/20/2002	100.88	23.13	NP	--	77.75	--
MW-5	6/11/2002	100.88	23.09	NP	--	77.79	--
MW-5	12/21/2002	100.88	24.65	NP	--	76.23	--
MW-5	3/19/2003	100.88	24.68	NP	--	76.20	--
MW-5	6/18/2003	100.88	24.37	NP	--	76.51	--
MW-5	9/23/2003	100.88	24.88	NP	--	76.00	--
MW-5	10/21/2003	100.88	24.99	NP	--	75.89	--
MW-5	6/29/2004	100.88	24.22	NP	--	76.66	--
MW-5	11/15/2004	100.88	24.97	NP	--	75.91	--
MW-5	4/14/2005	100.88	25.08	NP	--	75.80	--
MW-5	12/18/2005	100.88	25.47	NP	--	75.41	--
MW-5	6/11/2006	100.88	24.43	NP	--	76.45	--
MW-5	11/5/2006	100.88	25.55	NP	--	75.33	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-5	9/25/2007	100.88	24.95	NP	--	75.93	--
MW-5	12/31/2007	100.88	25.16	NP	--	75.72	--
MW-5	5/29/2008	100.88	25.01	NP	--	75.87	--
MW-5	10/28/2008	100.88	25.89	NP	--	74.99	--
MW-5	6/22/2009	100.88	26.95	NP	--	73.93	--
MW-5	12/15/2009	100.88	26.57	NP	--	74.31	--
MW-5	5/24/2010	100.88	25.55	NP	--	75.33	--
MW-5	10/12/2010	268.46	25.74	NP	--	242.72	--
MW-5	5/10/2011	268.46	24.61	NP	--	243.85	--
MW-5	11/29/2011	268.46	25.55	NP	--	242.91	--
MW-5	6/1/2012	268.46	24.60	NP	--	243.86	--
MW-5	11/29/2012	268.46	25.31	NP	--	243.15	--
MW-5	5/9/2013	268.46	24.52	NP	--	243.94	--
MW-5	11/19/2013	268.46	26.35	NP	--	242.11	--
MW-5	5/13/2014	268.46	25.18	NP	--	243.28	--
MW-5	5/7/2015	268.46	25.22	NP	--	243.24	--
MW-5	3/2/2016	268.46	25.55	NP	--	242.91	--
MW-5	6/6/2016	268.46	25.74	NP	--	242.72	--
MW-5	9/12/2016	268.46	27.43	NP	--	241.03	IW
MW-5	12/12/2016	268.46	25.36	NP	--	243.10	--
MW-5	2/22/2017	268.46	25.00	NP	--	243.46	--
MW-5	8/29/2017	268.46	26.20	NP	--	242.26	--
MW-5	3/13/2018	268.46	26.39	NP	--	242.07	--
MW-5	10/25/2018	268.46	27.13	NP	--	241.33	NS
MW-5	2/20/2019	268.46	27.33	NP	--	241.13	NS
MW-5	5/14/2019	268.46	27.24	NP	--	241.22	--
MW-5	8/27/2019	268.47	27.40	NP	--	241.07	NS
MW-5	11/25/2019	268.47	27.55	NP	--	240.92	NS
MW-5	3/25/2020	268.47	26.84	NP	--	241.63	--
MW-5	6/2/2020	268.47	26.80	NP	--	241.67	NS
MW-5	8/6/2020	268.47	27.03	NP	--	241.44	NS
MW-5	12/10/2020	268.48	--	--	--	--	Dry
MW-5	3/8/2021	268.48	26.06	NP	--	242.42	--
MW-5	6/9/2021	268.48	26.70	NP	--	241.78	--
MW-5	9/13/2021	268.48	--	--	--	--	Dry
MW-5	12/7/2021	268.48	--	--	--	--	Dry
MW-5	3/8/2022	268.49	26.61	NP	--	241.88	IW
MW-5	6/22/2022	268.49	26.90	NP	--	241.59	--
MW-5	9/22/2022	268.49	27.15	NP	--	241.34	IW
MW-5	11/29/2022	268.49	27.19	NP	--	241.30	IW
MW-5	12/12/2022	268.49	27.19	NP	--	241.30	--
MW-5	2/27/2023	268.49	--	--	--	--	Dry
MW-5	5/25/2023	268.50	27.62	NP	--	240.88	--
MW-5	8/9/2023	268.50	--	--	--	--	Dry
MW-5	2/6/2024	268.50	--	NP	--	--	Dry
MW-5	5/16/2024	268.50	--	NP	--	--	Dry
MW-6	9/5/1997	98.62	21.20	NP	--	77.42	--
MW-6	4/2/1998	98.62	19.70	NP	--	78.92	--
MW-6	6/8/1998	98.62	20.58	NP	--	78.04	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-6	9/17/1998	98.62	21.87	NP	--	76.75	--
MW-6	12/9/1998	98.62	21.20	NP	--	77.42	--
MW-6	3/17/1999	98.62	18.49	NP	--	80.13	--
MW-6	6/26/1999	98.62	18.49	NP	--	80.13	--
MW-6	9/28/1999	98.62	21.40	NP	--	77.22	--
MW-6	1/19/2000	98.62	20.39	NP	--	78.23	--
MW-6	3/24/2000	98.62	19.63	NP	--	78.99	--
MW-6	9/14/2000	98.62	21.92	NP	--	76.70	--
MW-6	12/14/2000	98.62	22.51	NP	--	76.11	--
MW-6	9/22/2001	98.62	23.31	NP	--	75.31	--
MW-6	12/9/2001	98.62	22.24	NP	--	76.38	--
MW-6	3/20/2002	98.62	21.44	NP	--	77.18	--
MW-6	6/11/2002	98.62	21.90	NP	--	76.72	--
MW-6	12/21/2002	98.62	--	--	--	--	NS
MW-6	3/19/2003	98.62	--	--	--	--	NS
MW-6	6/18/2003	98.62	--	--	--	--	NS
MW-6	9/23/2003	98.62	--	--	--	--	NS
MW-6	10/21/2003	98.62	22.69	NP	--	75.93	--
MW-6	6/29/2004	98.62	22.88	NP	--	75.74	--
MW-6	11/15/2004	98.62	24.12	NP	--	74.50	--
MW-6	4/14/2005	98.62	23.75	NP	--	74.87	--
MW-6	12/18/2005	98.62	24.79	NP	--	73.83	--
MW-6	6/11/2006	98.62	23.09	NP	--	75.53	--
MW-6	11/5/2006	98.62	25.80	NP	--	72.82	--
MW-6	9/25/2007	98.62	24.13	NP	--	74.49	--
MW-6	12/31/2007	98.62	23.59	NP	--	75.03	--
MW-6	5/29/2008	98.62	24.21	NP	--	74.41	--
MW-6	10/28/2008	98.62	25.47	NP	--	73.15	--
MW-6	6/22/2009	98.62	25.32	NP	--	73.30	--
MW-6	12/15/2009	98.62	23.33	NP	--	75.29	--
MW-6	5/24/2010	266.06	22.90	NP	--	243.16	--
MW-6	10/12/2010	266.06	23.06	NP	--	243.00	--
MW-6	5/10/2011	266.06	22.01	NP	--	244.05	--
MW-6	11/29/2011	266.06	23.42	NP	--	242.64	--
MW-6	6/1/2012	266.06	22.75	NP	--	243.31	--
MW-6	11/29/2012	266.06	--	--	--	--	NM
MW-6	5/9/2013	266.06	22.82	NP	--	243.24	--
MW-6	11/19/2013	266.06	24.00	NP	--	242.06	--
MW-6	5/13/2014	266.06	22.76	NP	--	243.30	--
MW-6	5/7/2015	266.06	23.71	NP	--	242.35	--
MW-6	6/6/2016	266.06	23.82	NP	--	242.24	--
MW-6	9/12/2016	266.06	25.22	NP	--	240.84	--
MW-6	12/12/2016	266.06	22.66	NP	--	243.40	--
MW-6	2/22/2017	266.06	21.24	NP	--	244.82	--
MW-6	8/29/2017	266.06	24.16	NP	--	241.90	--
MW-6	3/13/2018	265.97	23.04	NP	--	242.93	--
MW-6	10/25/2018	265.97	26.28	NP	--	239.69	--
MW-6	2/20/2019	265.97	13.90	NP	--	252.07	NS
MW-6	2/22/2019	265.97	14.14	NP	--	251.83	--
MW-6	5/14/2019	265.98	25.51	NP	--	240.47	NS

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-6	8/27/2019	265.98	26.73	NP	--	239.25	--
MW-6	11/26/2019	265.98	26.86	NP	--	239.12	NS
MW-6	3/26/2020	265.99	15.40	NP	--	250.59	--
MW-6	6/2/2020	265.99	15.09	NP	--	250.90	--
MW-6	8/7/2020	265.99	26.00	NP	--	239.99	NS
MW-6	12/10/2020	266.00	14.24	NP	--	251.76	--
MW-6	3/8/2021	266.00	13.52	NP	--	252.48	--
MW-6	6/9/2021	266.01	24.83	NP	--	241.18	--
MW-6	9/13/2021	266.01	26.14	NP	--	239.87	--
MW-6	12/7/2021	266.01	14.09	NP	--	251.92	--
MW-6	3/8/2022	266.02	15.19	NP	--	250.83	--
MW-6	6/22/2022	266.02	15.03	NP	--	250.99	--
MW-6	9/22/2022	266.02	25.64	NP	--	240.38	--
MW-6	11/29/2022	266.02	24.75	NP	--	241.27	--
MW-6	2/27/2023	266.03	18.10	NP	--	247.93	--
MW-6	5/25/2023	266.03	24.19	NP	--	241.84	--
MW-6	8/9/2023	266.03	25.14	NP	--	240.89	--
MW-6	12/11/2023	266.04	11.78	NP	--	254.26	--
MW-6	2/6/2024	266.04	20.73	NP	--	245.31	--
MW-6	5/16/2024	266.04	23.92	NP	--	242.12	--
MW-7	4/2/1998	97.32	18.79	NP	--	78.53	--
MW-7	6/8/1998	97.32	19.60	NP	--	77.72	--
MW-7	9/17/1998	97.32	20.82	NP	--	76.50	--
MW-7	12/9/1998	97.32	20.21	NP	--	77.11	--
MW-7	3/17/1999	97.32	17.61	NP	--	79.71	--
MW-7	6/26/1999	97.32	19.29	NP	--	78.03	--
MW-7	12/14/2000	97.32	--	--	--	--	--
MW-7	12/9/2001	97.32	--	--	--	--	--
MW-7	3/20/2002	97.32	--	--	--	--	--
MW-7	6/11/2002	97.32	--	--	--	--	--
MW-7	6/18/2003	97.32	--	--	--	--	AB
MW-8	4/2/1998	98.49	19.99	NP	--	78.50	--
MW-8	6/8/1998	98.49	20.39	NP	--	78.10	--
MW-8	9/17/1998	98.49	21.21	NP	--	77.28	--
MW-8	12/9/1998	98.49	21.03	NP	--	77.46	--
MW-8	3/17/1999	98.49	19.03	NP	--	79.46	--
MW-8	6/26/1999	98.49	20.02	NP	--	78.47	--
MW-8	12/14/2000	98.49	--	--	--	--	--
MW-8	12/9/2001	98.49	--	--	--	--	--
MW-8	3/20/2002	98.49	--	--	--	--	--
MW-8	6/11/2002	98.49	--	--	--	--	--
MW-8	6/18/2003	98.49	--	--	--	--	AB
MW-9	10/12/2010	263.35	23.89	NP	--	239.46	--
MW-9	5/10/2011	263.35	20.70	NP	--	242.65	--
MW-9	11/29/2011	263.35	22.64	NP	--	240.71	--
MW-9	6/1/2012	263.35	--	--	--	--	NM
MW-9	11/29/2012	263.35	--	--	--	--	NM

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-9	5/9/2013	263.35	21.09	NP	--	242.26	--
MW-9	11/19/2013	263.35	22.80	NP	--	240.55	--
MW-9	5/13/2014	263.35	21.39	NP	--	241.96	--
MW-9	5/7/2015	263.35	22.04	NP	--	241.31	--
MW-9	3/2/2016	263.35	22.29	NP	--	241.06	NS
MW-9	6/6/2016	263.35	22.01	NP	--	241.34	NS
MW-9	9/12/2016	263.35	23.43	NP	--	239.92	--
MW-9	2/22/2017	263.35	21.71	NP	--	241.64	NS
MW-9	8/29/2017	263.35	22.47	NP	--	240.88	--
MW-9	3/13/2018	263.35	21.78	NP	--	241.57	NS
MW-9	10/25/2018	263.35	24.61	NP	--	238.74	--
MW-9	2/20/2019	263.35	23.27	NP	--	240.08	--
MW-9	5/13/2019	263.35	23.78	NP	--	239.57	--
MW-9	8/27/2019	263.35	25.09	NP	--	238.26	--
MW-9	11/26/2019	263.35	25.60	NP	--	237.75	--
MW-9	3/26/2020	263.35	23.72	NP	--	239.63	--
MW-9	6/2/2020	263.35	23.76	NP	--	239.59	--
MW-9	8/7/2020	263.36	24.48	NP	--	238.88	--
MW-9	12/10/2020	263.36	24.33	NP	--	239.03	--
MW-9	3/8/2021	263.36	23.00	NP	--	240.36	--
MW-9	6/9/2021	263.36	23.02	NP	--	240.34	--
MW-9	9/13/2021	263.36	24.60	NP	--	238.76	--
MW-9	12/7/2021	263.36	23.47	NP	--	239.89	--
MW-9	9/22/2022	263.36	23.66	NP	--	239.70	--
MW-9	11/29/2022	263.37	23.65	NP	--	239.72	--
MW-9	5/25/2023	263.37	22.40	NP	--	240.97	--
MW-9	8/9/2023	263.37	22.85	NP	--	240.52	--
MW-9	12/11/2023	263.37	20.29	NP	--	243.08	--
MW-9	2/6/2024	263.37	21.88	NP	--	241.49	--
MW-9	5/16/2024	263.37	21.80	NP	--	241.57	--
MW-10	6/1/2012	268.30	24.20	NP	--	244.10	--
MW-10	11/29/2012	268.30	25.00	NP	--	243.30	--
MW-10	5/9/2013	268.30	24.25	NP	--	244.05	--
MW-10	11/19/2013	268.30	25.80	NP	--	242.50	--
MW-10	5/13/2014	268.30	24.78	NP	--	243.52	--
MW-10	5/7/2015	268.30	24.84	NP	--	243.46	--
MW-10	9/12/2016	268.30	26.52	NP	--	241.78	--
MW-10	8/29/2017	268.30	25.93	NP	--	242.37	--
MW-11	10/25/2018	266.38	26.40	NP	--	239.98	--
MW-11	2/20/2019	266.38	25.49	NP	--	240.89	--
MW-11	5/13/2019	266.38	25.99	NP	--	240.39	--
MW-11	8/27/2019	266.38	26.83	NP	--	239.55	--
MW-11	11/25/2019	266.39	27.13	NP	--	239.26	--
MW-11	3/25/2020	266.39	25.39	NP	--	241.00	--
MW-11	6/2/2020	266.40	25.34	NP	--	241.06	--
MW-11	8/6/2020	266.40	25.79	NP	--	240.61	--
MW-11	12/10/2020	266.40	26.25	NP	--	240.15	--
MW-11	3/8/2021	266.41	24.40	NP	--	242.01	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
MW-11	6/9/2021	266.41	25.12	NP	--	241.29	--
MW-11	9/13/2021	266.42	26.32	NP	--	240.10	--
MW-11	12/7/2021	266.42	25.70	NP	--	240.72	--
MW-11	9/22/2022	266.43	26.16	NP	--	240.27	--
MW-11	11/29/2022	266.43	26.41	NP	--	240.02	--
MW-11	2/27/2023	266.44	25.41	NP	--	241.03	--
MW-11	5/25/2023	266.44	25.45	NP	--	240.99	--
MW-11	8/9/2023	266.44	25.83	NP	--	240.61	--
MW-11	12/11/2023	266.45	25.11	NP	--	241.34	--
MW-11	2/6/2024	266.45	24.01	NP	--	242.44	--
MW-11	5/16/2024	266.45	24.67	NP	--	241.78	--
MW-12	10/25/2018	266.51	27.39	NP	--	239.12	--
MW-12	2/20/2019	266.51	26.21	NP	--	240.30	--
MW-12	5/13/2019	266.52	26.78	NP	--	239.74	--
MW-12	8/27/2019	266.52	27.82	NP	--	238.70	--
MW-12	11/25/2019	266.52	28.19	NP	--	238.33	--
MW-12	3/26/2020	266.52	26.50	NP	--	240.02	--
MW-12	6/2/2020	266.53	26.53	NP	--	240.00	--
MW-12	8/6/2020	266.53	27.05	NP	--	239.48	--
MW-12	12/10/2020	266.53	27.31	NP	--	239.22	--
MW-12	3/8/2021	266.53	25.32	NP	--	241.21	--
MW-12	6/9/2021	266.54	26.11	NP	--	240.43	--
MW-12	9/13/2021	266.54	27.40	NP	--	239.14	--
MW-12	12/7/2021	266.54	26.55	NP	--	239.99	--
MW-12	9/22/2022	266.55	26.87	NP	--	239.68	--
MW-12	11/29/2022	266.55	27.05	NP	--	239.50	--
MW-12	2/27/2023	266.55	25.85	NP	--	240.70	--
MW-12	5/25/2023	266.55	25.71	NP	--	240.84	--
MW-12	8/9/2023	266.56	26.00	NP	--	240.56	--
MW-12	12/11/2023	266.56	24.82	NP	--	241.74	--
MW-12	2/6/2024	266.56	23.81	NP	--	242.75	--
MW-12	5/16/2024	266.56	24.99	NP	--	241.57	--
MW-13	2/6/2024	265.51	19.39	NP	--	246.12	--
MW-13	5/16/2024	265.51	23.00	NP	--	242.51	--
MW-14	2/6/2024	266.17	21.64	NP	--	244.53	--
MW-14	5/16/2024	266.17	24.00	NP	--	242.17	--
MW-15	2/6/2024	268.67	26.99	NP	--	241.68	--
MW-15	5/16/2024	268.67	27.24	NP	--	241.43	--
MW-16	2/6/2024	268.03	26.24	NP	--	241.79	--
MW-16	5/16/2024	268.03	26.29	NP	--	241.74	--
VE-1	4/2/1998	--	--	--	--	--	--
VE-1	9/17/1998	--	--	--	--	--	--
VE-1	12/9/1998	--	--	--	--	--	--
VE-1	3/17/1999	--	--	--	--	--	--

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers
VE-1	6/26/1999	--	--	--	--	--	--
VE-1	9/28/1999	--	--	--	--	--	--
VE-1	3/24/2000	--	--	--	--	--	--
VE-1	7/2/2000	--	--	--	--	--	--
VE-1	9/14/2000	--	--	--	--	--	--
VE-1	12/14/2000	--	23.02	NP	--	--	--
VE-1	9/22/2001	--	24.22	NP	--	--	--
VE-1	12/9/2001	--	23.90	23.83	0.07	--	--
VE-1	3/20/2002	--	23.30	23.25	0.05	--	--
VE-1	6/11/2002	--	23.25	23.14	0.11	--	--
VE-1	12/21/2002	--	24.89	NP	--	--	--
VE-1	3/19/2003	--	24.71	NP	--	--	--
VE-1	6/18/2003	--	24.50	24.45	0.05	--	--
VE-1	9/23/2003	--	25.01	24.98	0.03	--	--
VE-1	10/22/2003	--	24.98	24.81	0.17	--	--
VE-1	6/29/2004	--	25.12	NP	--	--	--
VE-1	11/15/2004	--	25.40	24.79	0.61	--	--
VE-1	4/14/2005	--	26.15	24.84	1.31	--	--
VE-1	12/18/2005	--	26.00	25.65	0.35	--	--
VE-1	6/11/2006	--	26.53	NP	--	--	--
VE-1	11/5/2006	--	26.33	25.88	0.45	--	--
VE-1	9/25/2007	--	25.02	24.88	0.14	--	--
VE-1	12/31/2007	--	--	--	--	--	NS
VE-1	5/29/2008	--	25.63	24.79	0.84	--	--
VE-1	10/28/2008	--	26.07	25.80	0.27	--	--
VE-1	6/22/2009	--	--	--	--	--	Dry
VE-1	12/15/2009	--	26.56	26.50	0.06	--	--
VE-1	5/24/2010	268.17	26.70	NP	--	241.47	NS
VE-1	5/10/2011	268.17	--	--	--	--	NM
VE-1	11/29/2012	268.17	24.05	23.95	0.10	244.20	--
VE-1	5/9/2013	268.17	24.23	NP	--	243.94	NS
VE-1	11/19/2013	268.17	26.35	25.80	0.55	242.26	--
VE-1	5/13/2014	268.17	25.20	24.80	0.40	243.29	--
VE-1	5/7/2015	268.17	25.40	24.79	0.61	243.26	--
VE-1	3/2/2016	268.17	24.99	NP	--	243.18	NS
VE-2	5/7/2015	--	--	--	--	--	Dry
VE-2	3/2/2016	--	13.84	NP	--	--	NS
VE-3	3/2/2016	--	12.99	NP	--	--	NS
VE-4	3/2/2016	--	14.45	NP	--	--	NS
VE-5	3/2/2016	--	14.15	NP	--	--	NS

Table 1
Groundwater Gauging Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well I.D.	Date	GROUNDWATER ELEVATION DATA					
		TOC Elevation (ft)	Water Level Depth (ft)	LNAPL Depth (ft)	LNAPL Thickness (ft)	Water Level Elevation* (ft)	Qualifiers

Notes:

TOC = Top of Casing

ft = feet (in NAVD 88)

LNAPL = Light Non-Aqueous Phase Liquid

* = Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.80)

Wells were resurveyed in 2010 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83/98

-- = No Information Available

NP = No Product

Dry = Well Dry

AB = Well Abandoned

IW = Insufficient volume of water in the well to collect representative sample

NM = Not Measured

NS = Not Sampled

12/12/2022 - Data collected at MW-1, MW-4, and MW-5 prior to PetroFix injection for baseline readings

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
Well ID	Date												
GMW-1	5/10/2011	2.4	< 1.0	69.7	94.8	< 1.0	--	--	5,930	1,900	< 420	--	28.4
GMW-1	11/29/2011	< 1.0	< 1.0	86.9	113	--	--	--	6,080	610	< 380	--	< 10.0
GMW-1	5/9/2013	< 1.0	< 1.0	4.4	4.6	< 1.0	--	--	1,010	< 420	< 420	< 10.0	< 10.0
GMW-1	11/19/2013	< 0.50	< 0.70	6.6	6.8	< 0.50	--	--	1,400	2,500	< 73	1.2	16.7
GMW-1	5/14/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	590	560	< 66	< 4.7	< 4.7
GMW-1	5/7/2015	< 0.50	< 0.50	10	10	< 0.50	--	--	1,600	480	< 66	< 4.7	< 4.7
GMW-1	3/2/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	1,400	< 46	< 100	--	--
GMW-1	6/6/2016	< 0.50	< 0.50	5.3	4.0	< 0.50	--	--	3,300	130	< 100	--	--
GMW-1	9/12/2016	< 0.50	< 0.50	32	34	< 0.50	--	--	4,600	210	< 67	--	--
GMW-1	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	350	< 50	400	--	--
GMW-1	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	82.2 J	< 82.5	< 165	--	--
GMW-1	8/29/2017	< 0.331	0.480 J	2.45	2.66 J	< 0.367	--	--	2,070	216	104 J	--	--
GMW-1	3/13/2018	< 1.00	< 1.00	0.394 J	< 3.00	< 1.00	--	--	2,500	99.7 J	< 250	--	--
GMW-1	10/25/2018	< 1.00	< 1.00	9.58	12.8	< 1.00	< 0.0100	< 1.00	4,200	9,050	346 J	14.5	16.2
GMW-1	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	773 B	143 J	< 83.3	< 1.90	< 1.90
GMW-1	5/13/2019	< 0.331	< 0.412	2.36	4.18	< 0.367	< 0.00240	< 0.361	985	771	< 83.3	--	< 1.90
GMW-1	8/27/2019	< 0.0896	< 0.412	12	13.9	< 0.102	< 0.00240	< 0.108	2,750	777	< 167	--	8.01
GMW-1	3/25/2020	0.171 J	< 0.412	1.1	1.06 J	< 0.102	< 0.00240	< 0.108	594	409	< 83.3	--	< 1.90
GMW-1	6/2/2020	< 0.0941	< 0.278	0.216 J	0.210 J	< 0.101	< 0.00536	< 0.0819	1,840	--	--	--	< 2.95
GMW-1	8/6/2020	0.242 J	1.98	4.55	4.15	< 0.101	< 0.00536	< 0.0819	1,400	751	< 83.3	--	3.04 J
GMW-1	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 120	< 370	< 10	< 10
GMW-1	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	2,200	420	< 370	< 2.0	< 2.0
GMW-1	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	700	2,600	< 350	< 2.0	3.2
GMW-1	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	590	360	< 360	< 2.0	< 2.0
GMW-1	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	260	< 270	< 0.50	1.9
GMW-1	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	150	< 360	< 2.0	2.3
GMW-1	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	180	< 370	< 2.0	< 2.0
GMW-1	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	200	< 370	< 2.0	74
MW-1	5/11/1993	82	11	8.0	14	--	--	--	3,300	--	--	--	--
MW-1	3/4/1994	6.0	3.0	3.0	11	--	--	--	830	580	--	< 3.0	38
MW-1	7/6/1994	5.0	< 0.5	2.0	10	--	--	--	900	< 250	--	--	--
MW-1	10/7/1994	6.0	< 0.5	3.0	11	--	--	--	1,500	--	--	--	--
MW-1	12/28/1994	5.0	< 0.5	2.0	7.0	--	--	--	1,400	--	--	--	--
MW-1	3/13/1995	16	< 0.5	3.0	9.0	--	--	--	1,400	--	--	--	--
MW-1	6/30/1995	4.0	< 0.5	3.0	7.0	--	--	--	1,400	--	--	--	--
MW-1	9/6/1995	5.0	< 0.5	3.0	6.0	--	--	--	1,300	--	--	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-1	12/8/1995	7.0	2.0	2.0	7.0	--	--	--	1,300	--	--	--	--
MW-1	3/11/1996	3.0	< 0.5	< 0.5	1.0	--	--	--	900	--	--	--	--
MW-1	6/18/1996	1.0	1.0	< 0.5	2.0	--	--	--	400	--	--	--	--
MW-1	9/9/1996	2.0	< 0.5	1.0	1.0	13	--	--	600	--	--	--	--
MW-1	12/11/1996	4.0	2.0	2.0	4.0	< 10	--	--	710	--	--	--	--
MW-1	3/13/1997	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	--	--	100	--	--	--	--
MW-1	6/5/1997	2.0	2.0	< 0.5	< 1.5	5.0	--	--	250	--	--	--	--
MW-1	9/5/1997	8.0	4.0	2.0	6.0	8.0	--	--	300	--	--	--	--
MW-1	4/2/1998	1.0	3.0	< 0.5	< 1.5	< 5.0	--	--	210	--	--	--	--
MW-1	6/8/1998	< 0.5	3.0	1.0	4.0	6.0	--	--	300	--	--	--	--
MW-1	12/9/1998	< 0.5	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-1	6/26/1999	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 100	--	--	--	--
MW-1	1/19/2000	< 0.5	4.0	1.0	3.0	< 0.5	--	--	< 50	--	--	--	--
MW-1	7/2/2000	1.0	< 0.5	1.0	2.0	2.0	--	--	120	--	--	--	--
MW-1	12/14/2000	< 10	19	< 10	< 30	< 40	--	--	1,700	--	--	--	--
MW-1	10/21/2003	32.5	4.61	17.3	19.2	< 1.00	--	--	3,270	--	--	--	--
MW-1	12/18/2005	10.8	2.04	1.23	2.76	< 1.00	--	--	2,960	--	--	--	--
MW-1	6/11/2006	11.4	1.12	1.6	2.34	19.8	--	--	1,840	--	--	--	--
MW-1	11/5/2006	73.2	6.12	2.04	< 6.00	--	--	--	3,880	--	--	--	--
MW-1	9/25/2007	27.8	1.67	0.86	< 3.00	--	--	--	1,640	--	--	--	--
MW-1	12/31/2007	22.7	1.34	1.03	< 3.00	--	--	--	1,970	--	--	--	--
MW-1	5/29/2008	3.58	0.58	< 0.500	< 3.00	--	--	--	2,370	--	--	--	--
MW-1	10/28/2008	2.8	1.07	< 0.500	< 3.00	--	--	--	1,450	--	--	--	--
MW-1	6/22/2009	30	5.7	24	30.5	--	--	--	2,200	--	--	< 2.00	4.9
MW-1	12/15/2009	11	2.0	4.8	3.6	--	--	--	1,500	--	--	< 2.00	3.8
MW-1	5/24/2010	18	< 2.5	< 2.5	6.4	--	--	--	940	--	--	--	--
MW-1	10/12/2010	2.8	< 1.0	1.2	< 3.0	5.2	--	--	849	--	--	--	< 10.0
MW-1	5/10/2011	17.8	6.6	1.8	10.9	2.5	--	--	642	840	< 420	--	< 10.0
MW-1	11/29/2011	5.5	< 1.0	< 1.0	< 3.0	--	--	--	815	< 75	< 380	--	10.3
MW-1	6/1/2012	3.6	< 1.0	< 1.0	3.0	7.4	--	--	544	362	< 396	< 10.0	< 10.0
MW-1	11/29/2012	1.2	< 1.0	< 1.0	< 3.0	< 1.0	--	--	1,320	< 430	< 430	< 3.0	11.3
MW-1	5/9/2013	6.3	< 1.0	< 1.0	4.1	1.6	--	--	557	620	< 430	< 10.0	< 10.0
MW-1	11/19/2013	1.9 J	< 0.70	< 0.80	1.7 J	1.5 J	--	--	470	400	320	0.15 J	4.8
MW-1	5/13/2014	1.4	< 0.50	< 0.50	0.57 J	0.67 J	--	--	490	250	110 J	< 4.7	6.9 J
MW-1	5/7/2015	1.2	< 0.50	< 0.50	< 0.50	< 0.50	--	--	610	270	190 J	7.1 J	18.7
MW-1	3/2/2016	1.2	< 0.50	0.77 J	3.0	< 0.50	--	--	460	140	< 110	--	--
MW-1	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	212	447	222 J	--	--
MW-1	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	526	611	450	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-1	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	298 B	369	352	--	--
MW-1	2/22/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	369	322	< 1.90	< 1.90
MW-1	5/14/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	40.0 J	271	220 J	< 1.90	< 1.90
MW-1	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	104 B	339	131 J	--	< 1.90
MW-1	6/3/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	160	--	--	--	< 2.95
MW-1	8/6/2020	0.133 J	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	186 B	261	101 J	--	< 2.95
MW-1	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	410	360	< 10	< 10
MW-1	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	510	< 350	< 2.0	< 2.0
MW-1	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	100	1,700	930	< 2.0	< 2.0
MW-1	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	630	< 250	< 0.50	< 0.50
MW-1	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	610	620	< 2.0	< 2.0
MW-1	5/16/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 150	650	560	< 2.0	< 2.0
MW-2	5/11/1993	2,500	48	100	240	--	--	--	17,000	--	--	--	--
MW-2	3/4/1994	1,500	20	130	180	--	--	--	4,300	1,300	--	< 3.0	5.0
MW-2	7/6/1994	1,100	16	53	97	--	--	--	4,400	390	--	--	--
MW-2	10/7/1994	1,100	18	57	82	--	--	--	4,400	--	--	--	--
MW-2	12/28/1994	250	5.0	13	14	--	--	--	2,100	--	--	--	--
MW-2	3/13/1995	200	12	29	50	--	--	--	2,700	--	--	--	--
MW-2	6/30/1995	400	8.0	50	39	--	--	--	3,400	--	--	--	--
MW-2	9/6/1995	350	8.0	50	35	--	--	--	3,400	--	--	--	--
MW-2	12/8/1995	610	5.0	29	36	--	--	--	3,100	--	--	--	--
MW-2	3/11/1996	280	12	100	120	--	--	--	5,400	--	--	--	--
MW-2	6/18/1996	280	12	130	56	--	--	--	4,500	--	--	--	--
MW-2	9/9/1996	790	5.0	78	35	< 1.0	--	--	4,100	--	--	--	--
MW-2	12/11/1996	460	13	65	41	43	--	--	3,700	--	--	--	--
MW-2	3/13/1997	140	12	130	48	< 50	--	--	3,200	--	--	--	--
MW-2	6/5/1997	160	22	180	79	< 100	--	--	3,400	--	--	--	--
MW-2	4/2/1998	170	51	35	210	< 50	--	--	4,700	--	--	--	--
MW-2	6/8/1998	420	26	150	75	140	--	--	3,800	--	--	--	--
MW-2	9/17/1998	720	15	79	44	< 5.0	--	--	2,900	--	--	--	--
MW-2	12/9/1998	520	8.0	100	62	< 5.0	--	--	4,500	--	--	--	--
MW-2	3/17/1999	19	27	300	230	< 5.0	--	--	5,000	--	--	--	--
MW-2	6/26/1999	400	29	160	130	13	--	--	3,400	--	--	--	--
MW-2	9/28/1999	690	20	23	110	87	--	--	7,300	--	--	--	--
MW-2	1/19/2000	920	20	260	74	< 0.5	--	--	8,700	--	--	--	--
MW-2	3/24/2000	310	79	240	97	< 5.0	--	--	10,000	--	--	--	--
MW-2	7/2/2000	520	35	190	85	49	--	--	8,200	--	--	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-2	9/14/2000	1,100	100	110	100	< 5.0	--	--	14,000	--	--	--	--
MW-2	12/14/2000	740	< 10	68	< 30	< 40	--	--	15,000	--	--	--	--
MW-2	9/22/2001	180	9.0	240	110	20	--	--	12,000	--	--	--	--
MW-2	12/9/2001	310	9.5	100	96	< 4.0	--	--	14,000	--	--	--	--
MW-2	3/20/2002	250	< 5.0	220	98	280	--	--	15,000	--	--	--	--
MW-2	6/11/2002	290	< 10	160	57	< 40	--	--	13,000	--	--	--	--
MW-2	12/21/2002	111	13.4	211	70.3	148	--	--	5,970	--	--	--	--
MW-2	3/19/2003	79.9	8.71	156	55	< 25.0	--	--	5,270	--	--	--	--
MW-2	6/18/2003	36.7	14.7	245	119	143	--	--	6,770	--	--	--	--
MW-2	9/23/2003	40.5	15.8	179	103	< 20.0	--	--	6,490	--	--	--	--
MW-2	10/21/2003	31.1	9.38	86	61	< 1.00	--	--	4,600	--	--	--	--
MW-2	6/29/2004	17.8	11.2	228	76.5	95.2	--	--	5,550	--	--	--	--
MW-2	11/15/2004	12.3	6.11	135	63.3	< 2.00	--	--	5,670	--	--	--	--
MW-2	4/14/2005	130	2.8	41.8	26.6	< 2.00	--	--	4,680	--	--	--	--
MW-2	12/18/2005	122	3.5	43.9	27.8	< 5.00	--	--	5,700	--	--	--	--
MW-2	6/11/2006	4.48	5.8	118	56.7	< 2.00	--	--	5,450	--	--	--	--
MW-2	11/5/2006	263	< 5.00	46.2	< 30.0	--	--	--	7,490	--	--	--	--
MW-2	9/25/2007	715	9.74	50.8	64	--	--	--	7,530	--	--	--	--
MW-2	12/31/2007	477	10.6	69.3	76.3	--	--	--	6,000	--	--	--	--
MW-2	5/29/2008	648	11.1	55.9	48.4	--	--	--	9,600	--	--	--	--
MW-2	10/28/2008	1,430	16	194	145	--	--	--	10,300	--	--	--	--
MW-2	6/22/2009	1,200	40	100	130	--	--	--	4,800	--	--	< 2.00	< 2.00
MW-2	12/15/2009	1,600	8.2	66	82	--	--	--	4,300	--	--	< 2.00	< 2.00
MW-2	5/24/2010	320	7.7	69	84	--	--	--	4,200	--	--	--	--
MW-2	10/12/2010	1,890	14.8	54.8	39.7	15.5	--	--	3,590	--	--	--	< 10.0
MW-2	5/10/2011	281	4.2	69.9	49.9	7.3	--	--	5,520	1,000	2,000	--	< 10.0
MW-2	11/29/2011	549	7.0	82.6	61.6	--	--	--	5,640	98	< 380	--	< 10.0
MW-2	6/1/2012	107	12.7	64.2	46.1	5.0	--	--	2,940	2,240	3,080	< 10.0	10.0
MW-2	11/29/2012	399	10.2	187	154	14.7	--	--	10,400	2,100	760	3.2	7.7
MW-2	5/9/2013	42.9	6.2	115	35.4	< 5.0	--	--	3,660	1,700	< 400	< 10.0	12.3
MW-2	11/19/2013	7.3	4.4 J	17	40	6.3	--	--	1,400	280	100 J	3.2	9.8
MW-2	5/13/2014	79	3.3 J	58	20	6.0	--	--	3,100	1,800	880	< 4.7	6.6 J
MW-2	5/7/2015	33	6.1	91	32	2.4	--	--	2,700	1,900	690	< 4.7	34.1
MW-2	3/2/2016	54	5.3 J	94	26	< 5.0	--	--	5,100	1,600	< 100	--	--
MW-2	6/6/2016	43	4.9	92	21	1.1 J	--	--	5,000	880	790	--	--
MW-2	9/12/2016	130	6.5	83	20	2.2	--	--	5,000	710	660	--	--
MW-2	12/12/2016	4.1	0.74 J	12	10	< 0.50	--	--	1,000	590	< 110	--	--
MW-2	2/22/2017	< 0.331	< 0.412	2.06	2.08 J	< 0.367	--	--	1,310	1,370	321 J	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-2	8/29/2017	27.4	10.7	90.9	29.4	< 0.367	--	--	10,000	1,070	242 J	--	--
MW-2	3/13/2018	7.65	11.5	90.0	14.6	< 1.00	--	--	3,110	2,360	742	--	--
MW-2	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	171 B	788	444	0.623 J	25.5
MW-2	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	85.8 BJ	199 J	175 J	< 1.90	< 1.90
MW-2	5/14/2019	1.45	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	40.0 J	250	197 J	--	< 1.90
MW-2	11/26/2019	0.883 J	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	256 B	414	706	< 1.90	79.2
MW-2	3/26/2020	1.39	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	134 B	2,400	456	--	8.84
MW-2	6/3/2020	0.307 J	< 0.278	0.337 J	1.52 J	< 0.101	< 0.00536	< 0.0819	3,320	--	--	--	8.7
MW-2	8/7/2020	0.910 J	349 J	0.452 J	1.36 J	< 0.101	< 0.00536	< 0.0819	377 B	4,300	431	--	< 2.95
MW-2	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	590	190	< 350	< 4.0	< 4.0
MW-2	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	590	190	< 350	< 4.0	< 4.0
MW-2	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	300	< 370	< 10	< 10
MW-2	6/9/2021	1.3	< 1.0	< 1.0	< 2.0	< 1.0	--	--	410	1,200	< 350	< 2.0	< 2.0
MW-2	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	220	420	< 2.0	< 2.0
MW-2	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	140	< 380	< 2.0	< 2.0
MW-2	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 0.50	< 0.50
MW-2	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	230	< 260	< 0.50	1.4
MW-2	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0 F1	< 1.0	--	--	< 250	120	< 360	< 2.0	< 2.0
MW-2	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 120	< 370	< 2.0	< 2.0
MW-3	6/7/1993	140	7.0	13	14	--	--	--	2,200	--	--	--	--
MW-3	3/4/1994	99	2.0	11	10	--	--	--	1,200	590	--	< 3.0	4.0
MW-3	7/6/1994	44	6.0	26	27	--	--	--	1,500	270	--	--	--
MW-3	10/7/1994	63	4.0	16	13	--	--	--	1,500	--	--	--	--
MW-3	12/28/1994	77	3.0	13	9	--	--	--	1,800	--	--	--	--
MW-3	3/13/1995	87	4.0	18	10	--	--	--	1,700	--	--	--	--
MW-3	6/30/1995	90	3.0	52	13	--	--	--	1,800	--	--	--	--
MW-3	9/6/1995	96	3.0	41	14	--	--	--	1,700	--	--	--	--
MW-3	12/8/1995	73	4.0	23	15	--	--	--	1,800	--	--	--	--
MW-3	3/11/1996	120	11	170	36	--	--	--	2,800	--	--	--	--
MW-3	6/18/1996	150	18	320	59	--	--	--	3,500	--	--	--	--
MW-3	9/9/1996	62	16	220	96	15	--	--	3,500	--	--	--	--
MW-3	12/11/1996	96	9.0	< 0.5	34	< 10	--	--	2,100	--	--	--	--
MW-3	3/13/1997	97	13	250	65	< 50	--	--	3,100	--	--	--	--
MW-3	6/5/1997	46	19	250	130	< 100	--	--	3,900	--	--	--	--
MW-3	9/5/1997	98	29	270	140	< 5.0	--	--	4,400	--	--	--	--
MW-3	4/2/1998	80	25	320	150	< 50	--	--	3,700	--	--	--	--
MW-3	6/8/1998	60	22	240	96	< 50	--	--	3,500	--	--	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-3	12/9/1998	63	9.0	170	59	< 5.0	--	--	3,200	--	--	--	--
MW-3	6/26/1999	72	16	270	52	56	--	--	3,100	--	--	--	--
MW-3	1/19/2000	72	29	430	110	< 0.5	--	--	5,700	--	--	--	--
MW-3	7/2/2000	35	18	230	64	7.0	--	--	3,300	--	--	--	--
MW-3	12/14/2000	40	< 10	210	< 30	< 40	--	--	5,500	--	--	--	--
MW-3	12/9/2001	42	4.1	77	22	< 4.0	--	--	4,200	--	--	--	--
MW-3	6/11/2002	77	< 5.0	320	54	< 20	--	--	8,400	--	--	--	--
MW-3	12/21/2002	37.7	3.31	68.6	18.3	39.3	--	--	3,440	--	--	--	--
MW-3	6/18/2003	39.1	4.22	113	30.3	62.6	--	--	4,020	--	--	--	--
MW-3	10/21/2003	19.8	2.92	31.2	16.3	< 1.00	--	--	3,190	--	--	--	--
MW-3	11/15/2004	15.8	2.36	20.9	11.1	2.36	--	--	3,170	--	--	--	--
MW-3	4/14/2005	17.1	5.21	14.3	11.2	< 2.00	--	--	3,340	--	--	--	--
MW-3	12/18/2005	15.1	2.92	20.7	15.1	< 1.00	--	--	4,150	--	--	--	--
MW-3	6/11/2006	20.9	3.6	30	21.3	1.11	--	--	4,000	--	--	--	--
MW-3	11/5/2006	16.8	2.85	19	16.6	--	--	--	4,970	--	--	--	--
MW-3	9/25/2007	18.2	2.34	17.1	13.8	--	--	--	4,530	--	--	--	--
MW-3	12/31/2007	16.5	2.38	32.7	16.1	--	--	--	4,490	--	--	--	--
MW-3	5/29/2008	16.5	1.83	14.4	15	--	--	--	5,350	--	--	--	--
MW-3	10/28/2008	14.4	1.86	13.8	10.3	--	--	--	3,250	--	--	--	--
MW-3	6/22/2009	15	1.7	35	7.3	--	--	--	2,000	--	--	< 2.00	< 2.00
MW-3	12/15/2009	13	1.5	28	7.3	--	--	--	2,100	--	--	< 2.00	7.7
MW-3	5/24/2010	29	6.2	28	19	--	--	--	2,300	--	--	--	--
MW-3	10/12/2010	31.1	< 1.0	16.6	4.7	< 1.0	--	--	2,380	--	--	--	< 10.0
MW-3	5/10/2011	33.6	1.2	57.5	7.9	2.4	--	--	3,280	820	840	--	< 10.0
MW-3	11/29/2011	30.4	< 1.0	21.0	6.9	--	--	--	3,130	< 76	< 380	--	< 10.0
MW-3	6/1/2012	29.0	< 1.0	35.9	7.6	2.6	--	--	2,360	512	446	< 10.0	< 10.0
MW-3	11/29/2012	3.2	1.9	40.7	10.6	1.8	--	--	2,320	670	500	< 3.0	4.1
MW-3	5/9/2013	32.8	4.2	98.3	13.9	2.7	--	--	2,850	610	< 420	< 10.0	< 10.0
MW-3	11/19/2013	3.5 J	< 0.70	3.4 J	1.3 J	0.68 J	--	--	380	620	340	0.47 J	3.2
MW-3	5/13/2014	8.4	0.94 J	17	3.7	1.1	--	--	1,100	710	700	< 4.7	< 4.7
MW-3	5/7/2015	9.9	< 0.50	10	2.1	1.2	--	--	1,800	430	440	< 4.7	< 4.7
MW-3	3/2/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 48	150 J	--	--
MW-3	6/6/2016	1.4	< 0.50	0.78 J	< 0.50	< 0.50	--	--	500	110	180 J	--	--
MW-3	9/12/2016	4.3	< 0.50	2.1	< 0.50	< 0.50	--	--	1,200	100	< 67	--	--
MW-3	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	53 J	210	140 J	--	--
MW-3	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	245	254	< 165	--	--
MW-3	8/29/2017	3.87	0.434 J	3.82	1.78 J	< 0.367	--	--	1,310	383	238 J	--	--
MW-3	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	52.8 B J	79.1 J	115 J	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-3	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	35.6 B J	69.3 J	< 250	0.602 J	0.868 B J
MW-3	5/14/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	71.9 J	101 J	--	< 1.90
MW-3	11/25/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00245	< 0.361	63.6 BJ	< 66.7	276	--	2.06 J
MW-3	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	101 J	94.3 J	--	< 1.90
MW-3	8/7/2020	< 0.0941	< 0.278	< 0.137	1.44 J	< 0.101	< 0.00536	< 0.0819	66.5 BJ	109 J	101 J	--	< 2.95
MW-3	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-3	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-3	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	120	< 360	< 10	< 10
MW-3	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	120	< 350	< 2.0	< 2.0
MW-3	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	140	< 350	< 2.0	< 2.0
MW-3	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	110	< 360	< 2.0	< 2.0
MW-3	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 110	< 360	< 2.0	< 2.0
MW-3	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 250	< 0.50	< 0.50
MW-3	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 0.50	0.55
MW-3	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-3	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	130	< 370	< 2.0	< 2.0
MW-4	5/11/1993	8,700	4,000	57	3,200	--	--	--	31,000	--	--	--	--
MW-4	3/17/1999	12,000	17,000	1,800	10,000	< 50	--	--	100,000	--	--	--	--
MW-4	9/28/1999	27,000	65,000	18,000	100,000	< 1000	--	--	97,000	--	--	--	--
MW-4	1/19/2000	22,000	18,000	2,400	15,000	< 5.0	--	--	100,000	--	--	--	--
MW-4	3/24/2000	13,000	18,000	2,200	13,000	< 5.0	--	--	100,000	--	--	--	--
MW-4	7/2/2000	13,000	17,000	1,800	10,000	220	--	--	92,000	--	--	--	--
MW-4	9/14/2000	22,000	27,000	6,900	23,000	< 5.0	--	--	160,000	--	--	--	--
MW-4	12/9/2001	12,000	10,000	1,900	8,800	< 40	--	--	110,000	--	--	--	--
MW-4	3/20/2002	13,000	19,000	2,500	13,000	360	--	--	100,000	--	--	--	--
MW-4	6/11/2002	13,000	17,000	2,300	12,000	< 400	--	--	95,000	--	--	--	--
MW-4	9/23/2003	7,140	8,980	1,270	8,820	< 50.0	--	--	75,900	--	--	--	--
MW-4	10/21/2003	3,190	6,370	779	6,160	< 500	--	--	44,700	--	--	--	--
MW-4	6/29/2004	11,200	16,300	3,550	22,600	2,500	--	--	378,000	--	--	--	--
MW-4	12/18/2005	9,430	12,800	2,000	13,500	< 100	--	--	214,000	--	--	--	--
MW-4	6/11/2006	13,000	18,200	2,300	14,000	< 1000	--	--	117,000	--	--	--	--
MW-4	11/5/2006	6,950	10,500	2,070	13,500	--	--	--	120,000	--	--	--	--
MW-4	12/12/2016	120	37	57	1,000	< 2.5	--	--	25,000	2,100	380	--	--
MW-4	3/26/2020	162	209	130	1,670	< 5.10	< 0.00240	< 5.40	17,400	11,200	439	53.5	204
MW-4	3/8/2021	80	530	330	3,300	< 1.0	--	< 1.0	23,000	7,700	1,600	24	74
MW-4	6/9/2021	85	120	130	1,800	< 1.0	--	--	15,000	13,000	2,000	29	82
MW-4	12/7/2021	61	73	130	2,300 H	< 1.0	--	--	19,000	11,000	1,900	110	220

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-4	3/8/2022	1.6	< 1.0	6.3	61	< 1.0	--	--	1,000	760	630	46	74
MW-4	6/22/2022	15	10	45	340	< 1.0	--	--	6,800	7,000	< 260	48	110
MW-4	12/12/2022	< 10	11	66	830	< 10	--	--	5,800	2,500 2300 H*1	750 780 H*1	41	67
MW-4	2/27/2023	< 10	< 10	< 10	< 20	< 10	--	--	< 500	--	--	< 2.0	1,200
MW-4_PDB	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	240	< 380	--	--
MW-4_PDB	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	--	--	--	--
MW-4	12/11/2023	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	110	< 350	< 2.0	< 2.0
MW-4_PDB	12/11/2023	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	< 180	< 580	--	--
MW-4_PDB	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	120	< 390	< 2.0	< 2.0
MW-5	5/11/1993	130	25	23	22	--	--	--	1,800	--	--	--	--
MW-5	3/4/1994	26	6.0	11	8.0	--	--	--	710	420	--	< 3.0	27
MW-5	7/6/1994	11	3.0	1.0	4.0	--	--	--	400	< 250	--	--	--
MW-5	10/7/1994	13	4.0	2.0	4.0	--	--	--	510	--	--	--	--
MW-5	12/28/1994	46	13	20	22	--	--	--	1,300	--	--	--	--
MW-5	3/13/1995	34	8.0	40	28	--	--	--	2,800	--	--	--	--
MW-5	6/30/1995	50	11	12	15	--	--	--	1,100	--	--	--	--
MW-5	9/6/1995	42	14	30	18	--	--	--	1,100	--	--	--	--
MW-5	12/8/1995	32	7.0	42	62	--	--	--	1,700	--	--	--	--
MW-5	3/11/1996	85	9.0	210	140	--	--	--	8,100	--	--	--	--
MW-5	6/18/1996	100	17	88	25	--	--	--	2,700	--	--	--	--
MW-5	9/9/1996	180	29	100	27	< 1.0	--	--	2,200	--	--	--	--
MW-5	12/11/1996	110	18	96	250	12	--	--	4,900	--	--	--	--
MW-5	3/13/1997	190	35	190	73	< 50	--	--	5,500	--	--	--	--
MW-5	6/5/1997	290	42	200	37	< 100	--	--	4,100	--	--	--	--
MW-5	9/5/1997	420	83	190	730	< 50	--	--	3,100	--	--	--	--
MW-5	4/2/1998	470	89	340	83	< 50	--	--	5,400	--	--	--	--
MW-5	6/8/1998	360	110	220	66	71	--	--	4,200	--	--	--	--
MW-5	12/9/1998	170	41	120	120	< 1.0	--	--	4,900	--	--	--	--
MW-5	6/26/1999	180	82	210	24	8	--	--	3,300	--	--	--	--
MW-5	1/19/2000	480	350	370	87	< 0.5	--	--	6,500	--	--	--	--
MW-5	7/2/2000	390	110	290	54	20	--	--	6,100	--	--	--	--
MW-5	12/14/2000	26	< 10	< 10	< 30	< 40	--	--	4,000	--	--	--	--
MW-5	12/9/2001	51	< 10	120	140	< 10	--	--	12,000	--	--	--	--
MW-5	6/11/2002	94	21	110	24	< 20	--	--	5,700	--	--	--	--
MW-5	12/21/2002	6.32	2.95	6.59	11.1	5.88	--	--	1,300	--	--	--	--
MW-5	6/18/2003	7.18	1.95	12	24.7	6.0	--	--	1,950	--	--	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-5	10/21/2003	1.18	2.19	0.732	3.38	< 1.00	--	--	322	--	--	--	--
MW-5	6/29/2004	5.4	3.24	4.79	14.1	6.95	--	--	1,180	--	--	--	--
MW-5	11/15/2004	0.74	< 0.500	< 0.500	< 1.00	< 2.00	--	--	399	--	--	--	--
MW-5	4/14/2005	14.3	13.4	33.9	40	< 2.00	--	--	2,900	--	--	--	--
MW-5	12/18/2005	2.49	2.43	3.58	5.11	< 1.00	--	--	661	--	--	--	--
MW-5	6/11/2006	6.08	1.05	2.78	3.1	< 1.00	--	--	2,830	--	--	--	--
MW-5	11/5/2006	1.41	0.78	1.29	< 3.00	--	--	--	723	--	--	--	--
MW-5	9/25/2007	1.86	0.53	0.77	< 3.00	--	--	--	712	--	--	--	--
MW-5	12/31/2007	9.4	11.3	38.1	75.7	--	--	--	7,190	--	--	--	--
MW-5	5/29/2008	7.47	9.12	15.7	23.7	--	--	--	2,740	--	--	--	--
MW-5	10/28/2008	2.01	1.46	< 0.500	3.48	--	--	--	516	--	--	--	--
MW-5	6/22/2009	36	24	87	49.9	--	--	--	4,800	--	--	--	23
MW-5	12/15/2009	24	19	29	23	--	--	--	2,300	--	--	11	12
MW-5	5/24/2010	59	8.4	96	41	--	--	--	4,200	--	--	--	--
MW-5	10/12/2010	31.4	2.6	12.7	4.8	< 1.0	--	--	2,320	--	--	--	< 10.0
MW-5	5/10/2011	12.4	4.1	39.3	25.5	< 1.0	--	--	4,710	470	< 400	--	< 10.0
MW-5	11/29/2011	12.3	2.2	6.4	3.1	--	--	--	2,210	95	< 380	--	10.5
MW-5	6/1/2012	13.3	3.0	9.6	10.7	< 1.0	--	--	1,620	1,040	< 392	< 10.0	< 10.0
MW-5	11/29/2012	18.0	8.0	61.7	28.2	< 1.0	--	--	4,160	1,100	< 440	< 3.0	42.5
MW-5	5/9/2013	19.0	6.7	48.3	18.5	< 1.0	--	--	3,470	< 400	< 400	< 10.0	< 10.0
MW-5	11/19/2013	24	5.7	17	6.3	< 0.50	--	--	1,800	240	660	1.3	6.7
MW-5	5/13/2014	17	7.5	69	23	< 0.50	--	--	4,400	440	370	9.2 J	16.2
MW-5	5/7/2015	11	4.8	32	12	< 0.50	--	--	2,800	240	260	5.2 J	18.4
MW-5	3/2/2016	4.5	2.8	24	13	< 0.50	--	--	4,100	320	530	--	--
MW-5	6/6/2016	6.9	4.4	23	15	< 0.50	--	--	5,300	310	620	--	--
MW-5	12/12/2016	1.7	1.8	9.0	4.5	< 0.50	--	--	4,300	17,000	< 540	--	--
MW-5	2/22/2017	0.572 J	< 0.412	1.39	1.10 J	< 0.367	--	--	3,440	9,890	204 J	--	--
MW-5	8/29/2017	7.48	1.60	6.01	11.1	< 0.367	--	--	1,810	7,040	432	--	--
MW-5	3/13/2018	< 1.00	< 1.00	0.544 J	< 3.00	< 1.00	--	--	356 B	1,440	216 J	--	--
MW-5	5/14/2019	0.403 J	< 0.412	< 0.384	5.45	< 0.367	< 0.00240	< 0.361	54.5 J	1,120	122 J	--	--
MW-5	3/25/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	300	108 J	3.84 J	21.2
MW-5	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	170	< 360	< 10	< 10
MW-5	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	270	< 360	< 2.0	6.8
MW-5	12/12/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	--	--	--	--
MW-6	9/5/1997	< 0.5	19	6.0	15	32	--	--	930	--	--	--	--
MW-6	4/2/1998	< 0.5	10	3.0	11	6.0	--	--	600	--	--	--	--
MW-6	6/8/1998	< 0.5	6.0	2.0	5.0	10	--	--	430	--	--	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT		B	T	E	X	MTBE	EDB	EDC	TPH-G	TPH-D	TPH-O	Lead, Dissolved	Lead, Total
UNIT		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-6	12/9/1998	< 1.0	< 1.0	1.0	3.0	2.0	--	--	260	--	--	--	--
MW-6	1/19/2000	< 0.5	< 0.5	6.0	10	7.0	--	--	330	--	--	--	--
MW-6	12/14/2000	< 10	< 10	< 10	< 30	< 40	--	--	1,000	--	--	--	--
MW-6	10/21/2003	10	3.66	0.898	5.03	< 1.00	--	--	254	--	--	--	--
MW-6	6/29/2004	6.8	1.73	< 0.500	5.65	6.35	--	--	540	--	--	--	--
MW-6	11/15/2004	43.5	14.5	0.58	10.4	< 2.00	--	--	370	--	--	--	--
MW-6	4/14/2005	6.39	0.95	< 0.500	3.75	< 2.00	--	--	443	--	--	--	--
MW-6	12/18/2005	< 0.500	< 0.500	< 0.500	3.01	< 1.00	--	--	694	--	--	--	--
MW-6	6/11/2006	< 0.500	< 0.500	< 0.500	< 3.00	< 1.00	--	--	601	--	--	--	--
MW-6	11/5/2006	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	444	--	--	--	--
MW-6	9/25/2007	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	321	--	--	--	--
MW-6	12/31/2007	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	168	--	--	--	--
MW-6	5/29/2008	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	1,620	--	--	--	--
MW-6	10/28/2008	< 0.500	< 0.500	< 0.500	< 3.00	--	--	--	481	--	--	--	--
MW-6	6/22/2009	< 1.00	< 1.00	< 1.00	< 3.00	--	--	--	< 50.0	--	--	< 2.00	< 2.00
MW-6	12/15/2009	< 1.00	< 1.00	< 1.00	< 2.00	--	--	--	190	--	--	< 2.00	< 2.00
MW-6	5/24/2010	8.1	< 2.5	< 2.5	< 5.0	--	--	--	280	--	--	--	--
MW-6	10/12/2010	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	--	--	--	< 10.0
MW-6	5/10/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	96.0	180	< 390	--	< 10.0
MW-6	11/29/2011	< 1.0	< 1.0	< 1.0	< 3.0	--	--	--	< 50.0	< 78	< 390	--	< 10.0
MW-6	6/1/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	124	< 76.9	< 385	< 10.0	< 10.0
MW-6	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	216	< 400	< 400	< 10.0	< 10.0
MW-6	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	130 J	31 J	< 71	0.12 J	0.97 J
MW-6	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	120 J	80 J	180 J	< 4.7	< 4.7
MW-6	5/7/2015	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 28	< 65	< 4.7	< 4.7
MW-6	6/6/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 46	< 100	--	--
MW-6	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	140	280	--	--
MW-6	12/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 47	< 100	--	--
MW-6	2/22/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	33.5 J	< 82.5	< 165	--	--
MW-6	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	160	< 139	183 J	--	--
MW-6	3/13/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	--	--	40.0 B J	< 200	< 250	--	--
MW-6	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	< 100	73.4 J	< 250	< 2.00	< 2.00
MW-6	2/22/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	76.5 J	214 J	< 1.90	< 1.90
MW-6	8/27/2019	< 0.0896	< 0.412	< 0.158	< 1.06	< 0.367	< 0.00245	< 1.00	< 31.6	79.6 J	85.9 J	--	3.18 J
MW-6	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	73.9 J	152 J	--	< 1.90
MW-6	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	--	--	--	< 2.95
MW-6	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-6	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-6	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 110	< 360	< 10	< 10
MW-6	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	--	--	--	--
MW-6	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	12/7/2021	< 1.0	< 1.0	< 1.0	3.5	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	3/8/2022	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	250	400	< 2.0	< 2.0
MW-6	6/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 260	< 0.50	< 0.50
MW-6	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 270	< 0.50	< 5.0
MW-6	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 110	< 350	< 2.0	< 2.0
MW-6	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	< 120	< 370	< 2.0	< 2.0
MW-7	4/2/1998	< 5.0	35	480	1,100	< 50	--	--	13,100	--	--	--	--
MW-7	6/8/1998	< 5.0	40	420	810	63	--	--	12,000	--	--	--	--
MW-7	12/9/1998	< 5.0	26	360	610	11	--	--	9,600	--	--	--	--
MW-7	6/26/1999	11	24	410	600	< 5.0	--	--	8,300	--	--	--	--
MW-8	4/2/1998	< 0.5	1.0	< 0.5	< 1.5	< 5.0	--	--	< 100	--	--	--	--
MW-8	6/8/1998	< 0.5	1.0	2.0	< 1.5	< 5.0	--	--	< 100	--	--	--	--
MW-8	12/9/1998	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-8	6/26/1999	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	--	< 500	--	--	--	--
MW-9	10/12/2010	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	--	--	--	< 10.0
MW-9	5/10/2011	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	160	< 420	--	< 10.0
MW-9	11/29/2011	< 1.0	< 1.0	< 1.0	< 3.0	--	--	--	< 50.0	< 76	< 380	--	< 10.0
MW-9	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 400	< 400	< 10.0	< 10.0
MW-9	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	< 50	49 J	< 75	0.090 J	1.0
MW-9	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 29	< 67	< 4.7	< 4.7
MW-9	5/7/2015	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	28 J	< 65	< 4.7	< 4.7
MW-9	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	190	170 J	--	--
MW-9	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	52.9 J	115 J	101 J	--	--
MW-9	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0101	< 1.00	78.3 BJ	217	140 J	< 2.00	0.299 B J
MW-9	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	36.7 BJ	116 J	120 J	< 1.90	< 1.90
MW-9	5/13/2019	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	< 0.00240	< 0.361	< 31.6	220	107 J	--	< 1.90
MW-9	8/27/2019	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	107 J	98.9 J	--	< 1.90
MW-9	11/26/2019	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	47 BJ	108 J	227 J	--	< 1.90
MW-9	3/26/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	< 31.6	190 J	199 J	--	< 1.90
MW-9	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	--	--	--	< 2.95
MW-9	8/7/2020	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.00536	< 0.0819	< 31.6	216	110 J	--	< 2.95
MW-9	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-9	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-9	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	< 120	< 370	< 10	< 10
MW-9	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	210	< 360	< 2.0	< 2.0
MW-9	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	170	< 360	< 2.0	< 2.0
MW-9	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	< 110	< 360	< 2.0	< 2.0
MW-9	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 100	< 250	< 0.50	< 0.50
MW-9	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	< 120	< 370	< 2.0	< 2.0
MW-10	6/1/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 50.0	< 76.9	< 385	< 10.0	< 10.0
MW-10	11/29/2012	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 420	< 420	< 3.0	20.4
MW-10	5/9/2013	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	--	--	< 100	< 400	< 400	< 10.0	< 10.0
MW-10	11/19/2013	< 0.50	< 0.70	< 0.80	< 0.80	< 0.50	--	--	66 J	< 34	< 78	< 0.085	12.8
MW-10	5/13/2014	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	< 50	< 28	< 66	< 4.7	< 4.7
MW-10	5/7/2015	< 0.50	< 0.50	0.81 J	7.1	< 0.50	--	--	150 J	75 J	150 J	< 4.7	6.3 J
MW-10	9/12/2016	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	--	--	130 J	< 29	< 68	--	--
MW-10	8/29/2017	< 0.331	< 0.412	< 0.384	< 1.06	< 0.367	--	--	< 31.6	78.2 J	126 J	--	--
MW-11	10/25/2018	< 1.00	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	170 B	343	419	0.582 J	1.09 B J
MW-11	2/20/2019	< 0.331	< 0.412	< 0.384	< 1.06	1.04	< 0.00240	< 0.361	132 B	354	466	< 1.90	< 1.90
MW-11	5/13/2019	< 0.331	< 0.412	< 0.384	< 1.06	0.674 J	< 0.00240	< 0.361	40.1 J	423	308	--	< 1.90
MW-11	8/27/2019	< 0.0896	< 0.412	< 0.158	< 0.316	0.818	< 0.00240	< 0.108	< 31.6	227	295	--	2.51 J
MW-11	11/25/2019	< 0.0896	< 0.412	< 0.158	< 0.316	0.771	< 0.00240	< 0.108	137 B	220	408	--	< 1.90
MW-11	3/25/2020	< 0.0896	< 0.412	< 0.158	< 0.316	< 0.102	< 0.00240	< 0.108	75.1 BJ	747	131 J	--	< 1.90
MW-11	6/2/2020	< 0.0941	< 0.278	< 0.137	< 0.174	0.229 J	< 0.00536	< 0.0819	91.5 J	--	--	--	3.23 J
MW-11	8/6/2020	< 0.0941	< 0.278	< 0.137	< 0.174	0.266 J	< 0.00536	< 0.0819	85.2 BJ	289	317	--	< 2.95
MW-11	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-11	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	< 250	< 110	< 350	< 4.0	< 4.0
MW-11	3/8/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	< 1.0	< 250	840	< 370	< 10	< 10
MW-11	6/9/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	390	< 350	< 2.0	< 2.0
MW-11	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	370	390	< 2.0	< 2.0
MW-11	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 250	540	480	< 2.0	< 2.0
MW-11	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	290	< 270	< 0.50	< 0.50
MW-11	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 250	680	460	< 2.0	< 2.0
MW-11	2/27/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	420	< 360	< 2.0	< 2.0
MW-11	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	< 50	310	< 360	< 2.0	< 2.0
MW-11	8/9/2023	--	--	--	--	--	--	--	--	420	--	< 2.0	< 2.0
MW-11	12/11/2023	--	--	--	--	--	--	--	--	420	< 360	< 2.0	< 2.0

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
MW-12	10/25/2018	1.17	< 1.00	< 1.00	< 3.00	< 1.00	< 0.0100	< 1.00	867	705	189 J	< 2.00	1.00 B J
MW-12	2/20/2019	4.91	< 0.412	2.81	2.54 J	< 0.367	< 0.00240	< 0.361	3,370	486	206 J	< 1.90	< 1.90
MW-12	5/13/2019	3.79	< 0.412	0.457 J	< 1.06	< 0.367	< 0.00240	< 0.361	1,320	394	198 J	--	< 1.90
MW-12	8/27/2019	3.11	< 0.412	0.705	0.404 J	< 0.102	< 0.00245	< 0.108	260	404	192 J	--	< 1.90
MW-12	11/25/2019	2.79	< 0.412	1.06	0.464 J	< 0.102	< 0.00240	< 0.108	855	349	183 J	< 1.90	25.8
MW-12	3/26/2020	1.18	< 0.412	0.844	0.318 J	< 0.102	< 0.00240	< 0.108	300 B	1,710	281	--	< 1.90
MW-12	6/2/2020	0.872	< 0.278	2.35	0.526 J	< 0.101	< 0.00536	< 0.0819	917	--	--	--	< 2.95
MW-12	8/6/2020	0.644 J	< 0.278	0.500 J	0.448 J	< 0.101	< 0.00536	< 0.0819	268 J	1,630	317	--	< 2.95
MW-12	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	290	400	< 350	< 4.0	< 4.0
MW-12	12/10/2020	< 3.0	< 2.0	< 3.0	< 3.0	< 2.0	--	--	290	400	< 350	< 4.0	< 4.0
MW-12	3/8/2021	< 1.0 F1F2	< 1.0 F1F2	18 F1	< 2.0 F1F2	< 1.0 F1F2	--	< 1.0 F1F2	1,600	2,500	< 360	< 10	< 10 F1
MW-12	6/9/2021	< 1.0	< 1.0	2.2	< 2.0	< 1.0	--	--	530	3,000	390	< 2.0	< 2.0
MW-12	9/13/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	430	2,700	370	< 2.0	< 2.0
MW-12	12/7/2021	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	440	2,700	420	< 2.0	< 2.0
MW-12	9/22/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	950	440	< 240	< 0.50	< 0.50
MW-12	11/29/2022	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	510	870	< 350	< 2.0	< 2.0
MW-12	2/27/2023	< 1.0	< 1.0	1.2	< 2.0	< 1.0	--	--	1,100	900	< 370	< 2.0	< 2.0
MW-12	5/25/2023	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	--	--	820	1,300	< 360	< 2.0	< 2.0
MW-12	8/9/2023	--	--	--	--	--	--	--	1,800	1,600	< 350	< 2.0	< 2.0
MW-12	12/11/2023	--	--	--	--	--	--	--	1,800	1,600	--	< 2.0	< 2.0
MW-12	2/6/2024	--	--	--	--	--	--	--	3,900	2,100	< 350	< 2.0	< 2.0
MW-12	5/16/2024	--	--	--	--	--	--	--	3,600	1,600	--	< 2.0	< 2.0
MW-13	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	110	130	< 360	< 2.0	< 2.0
MW-13	5/16/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 150	210	< 350	< 2.0	4.4
MW-14	2/6/2024	1.7	3.8	150	110	--	--	--	4,600	4,200	420	< 2.0	< 2.0
MW-14	5/16/2024	< 10	< 10	110	37	--	--	--	4,300	3,700	410	< 2.0	5.3
MW-15	2/6/2024	< 1.0	< 1.0	5.2	3.6	--	--	--	3,700	1,600	< 360	4.2	5.7
MW-15	5/16/2024	1.8	1.7	5.9	5.6	--	--	--	4,200	2,400	< 350	< 2.0	< 2.0
MW-16	2/6/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 100	< 110	< 360	< 2.0	< 2.0
MW-16	5/16/2024	< 1.0	< 1.0	< 1.0	< 2.0	--	--	--	< 150	< 210	< 370	< 2.0	< 2.0
VE-1	4/2/1998	3,900	2,300	820	4,500	< 2,500	--	--	60,500	--	--	--	--
VE-1	9/17/1998	2,700	2,000	1,400	7,700	< 100	--	--	240,000	--	--	--	--
VE-1	12/9/1998	2,200	1,400	770	3,700	< 25	--	--	73,000	--	--	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT		B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level		5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer		100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer		2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer		870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer		11	-	-	-	4,000	1.4	16	--	--	--	--	--
VE-1	3/17/1999	4,000	2,400	790	4,100	< 25	--	--	42,000	--	--	--	--
VE-1	6/26/1999	3,800	2,600	670	3,500	< 100	--	--	42,000	--	--	--	--
VE-1	9/28/1999	3,400	2,000	630	3,000	< 25	--	--	25,000	--	--	--	--
VE-1	3/24/2000	3,200	610	27	3,600	< 5.0	--	--	31,000	--	--	--	--
VE-1	7/2/2000	3,200	1,900	620	3,000	130	--	--	27,000	--	--	--	--
VE-1	9/14/2000	3,200	2,200	920	3,000	< 5.0	--	--	29,000	--	--	--	--
VE-1	12/14/2000	2,400	1,300	580	2,600	< 40	--	--	28,000	--	--	--	--
VE-1	12/9/2001	1,300	880	510	2,400	< 40	--	--	24,000	--	--	--	--
VE-1	3/20/2002	1,800	1,300	560	2,400	280	--	--	52,000	--	--	--	--
VE-1	6/11/2002	2,800	1,600	650	2,900	< 80	--	--	26,000	--	--	--	--
VE-1	12/21/2002	1,630	1,150	741	3,660	< 200	--	--	25,900	--	--	--	--
VE-1	3/19/2003	1,590	1,450	743	3,640	< 250	--	--	27,100	--	--	--	--
VE-1	6/18/2003	2,190	1,710	929	5,230	79.8	--	--	37,000	--	--	--	--
VE-1	9/23/2003	1,620	1,270	704	3,500	< 20.0	--	--	28,300	--	--	--	--
VE-1	10/22/2003	3,360	1,850	847	4,130	< 50.0	--	--	36,700	--	--	--	--
VE-1	6/29/2004	8,070	7,030	2,230	10,400	820	--	--	192,000	--	--	--	--
VE-1	11/15/2004	5,680	6,280	3,430	17,600	< 100	--	--	99,900	--	--	--	--
VE-1	4/14/2005	3,120	3,300	1,210	5,560	< 40.0	--	--	39,600	--	--	--	--
VE-1	12/18/2005	6,140	5,850	1,400	6,750	< 100	--	--	142,000	--	--	--	--
VE-1	6/11/2006	7,200	8,100	3,900	25,100	< 500	--	--	68,300	--	--	--	--
VE-1	11/5/2006	3,780	4,320	1,190	6,390	--	--	--	60,500	--	--	--	--

Table 2
Groundwater Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT	B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	TPH-G µg/L	TPH-D µg/L	TPH-O µg/L	Lead, Dissolved µg/L	Lead, Total µg/L
MTCA Method A Groundwater Cleanup Level	5	1,000	700	1,000	20	0.01	5	1,000/800 ¹	500	500	--	15
Method B Groundwater Screening Level - Noncancer	100	15,000	2,800	320	120,000	290	120	--	--	--	--	--
Method B Groundwater Screening Level - Cancer	2.4	-	-	-	860	0.3	3.5	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Noncancer	870	130,000	24,000	2,800	1,000,000	2,500	990	--	--	--	--	--
Commercial Worker Groundwater Screening Level - Cancer	11	-	-	-	4,000	1.4	16	--	--	--	--	--

Notes:
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes, Total
MTBE = Methyl tert-butyl ether
TPH-G = Total petroleum hydrocarbons as gasoline by Northwest Method NWTPH-Gx
TPH-D = Total petroleum hydrocarbons as diesel by Northwest Method NWTPH-Dx
TPH-O = Total petroleum hydrocarbons as oil by Northwest Method NWTPH-Dx
EDB = Ethylene dibromide
EDC = 1,2-Dichloroethane
1,000/800¹ µg/L if no detectable levels of Benzene in the sample - otherwise 800 µg/L
<1.0 = Concentrations were not detected above the laboratory method reporting limit
µg/L = Micrograms per liter (ppb)
-- = No value given/Not analyzed/Not applicable
MTCA = Model Toxics Control Act
Results in **bold** indicate concentrations in excess of Commercial Worker Groundwater Screening Levels, or MTCA Method A Cleanup Levels when a Commercial Worker Groundwater Screening Level is not provided
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
B = The same analyte is found in the associated blank
F1 = MS and/or MSD recovery exceeds control limits
F2 = MS/MSD RPD exceeds control limits
H = Sample was prepped or analyzed beyond the specified holding time
*1 = LCS/LCSD RPD exceeds control limits
MW-4_PDB = Sample collected from a Passive Diffusion Bag (PDB)
Regarding MW-4_20221212: Method NWTPH-Dx: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-413921 and analytical batch 580-414023 recovered outside control limits for the following analytes: #2 Diesel (C10-C24) and Motor Oil (>C24-C36). The following sample was re-prepared outside of preparation holding time due to low surrogate in the method blank MW4 _ 20221212 (580-121302-1). Both data sets are reported.

MW-5 12/12/2022 samples were not analyzed for TPH-D, TPH-O, Total Lead, or Dissolved Lead due to insufficient sample volume remaining in the well during time of collection.

Table 3
Soil Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT			B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TPH-G mg/kg	TPH-D mg/kg	TPH-O mg/kg	Lead mg/kg	Total cPAHs mg/kg	Total Naphthalenes mg/kg
MTCA Method A Soil Cleanup Level			0.03	7	6	9	0.1	30	2,000	2,000	250	1	5
Lateral VI Screening Level			0.09	21	18	27	0.3	30	250	--	--	--	15
Location ID	Sample Date	Sample Depth											
MW-3	3/23/1992	13	< 0.34	< 0.34	0.11	0.24	--	43	< 34	< 100	6.3	--	--
MW-3	3/23/1992	18.5	0.94	< 2.9	5.1	8.8	--	140	< 29	< 88	2.6	--	--
MW-1	5/6/1993	3	< 0.005	< 0.005	< 0.005	< 0.005	--	< 1.0	--	--	--	--	--
MW-2	5/7/1993	18	0.48	0.7	0.5	1.9	--	190	--	--	--	--	--
MW-4	5/7/1993	23	6.6	26	11	71	--	1,200	--	--	--	--	--
MW-5	5/7/1993	18	< 0.005	0.02	0.036	0.14	--	7	--	--	--	--	--
VE-1	4/26/1995	10	< 0.63	< 0.63	24	160	--	3,500	--	--	--	--	--
VE-1	4/26/1995	25	1.7	3.4	8.2	40	--	1,300	--	--	--	--	--
MW-6	6/1/1997	15	< 0.025	< 0.025	< 0.025	< 0.025	--	< 5.0	--	--	--	--	--
MW-6	6/1/1997	21	< 0.025	< 0.025	< 0.025	< 0.025	--	< 5.0	--	--	--	--	--
B-1	10/24/2002	4	< 0.020	< 0.05	0.88	3.0	--	210	--	--	--	--	--
B-2	10/24/2002	12	< 0.020	< 0.05	< 0.05	0.59	--	240	--	--	--	--	--
B-3	10/24/2002	15	< 0.020	< 0.05	< 0.05	< 0.05	--	< 5.0	--	--	--	--	--
GMW-1	12/21/2007	16	< 0.02	< 0.05	< 0.05	< 0.15	--	< 10	--	--	--	--	--
GMW-1	12/21/2007	21	< 0.02	< 0.05	< 0.05	< 0.15	--	10	--	--	--	--	--
GMW-1	12/21/2007	26	< 0.02	< 0.05	< 0.05	< 0.15	--	< 10	--	--	--	--	--
GMW-1	12/21/2007	36	< 0.02	< 0.05	< 0.05	< 0.15	--	< 10	--	--	--	--	--
MW-9	8/24/2010	13.5	< 0.0031	< 0.0031	< 0.0031	< 0.0094	--	< 6.2	< 19.8	< 79.2	1.9	--	--
MW-9	8/24/2010	21	< 0.0026	< 0.0026	< 0.0026	< 0.0078	--	< 5.2	< 20.5	< 81.9	1.4	--	--
MW-9	8/24/2010	35.5	< 0.0034	< 0.0034	< 0.0034	< 0.00101	--	< 6.2	< 21.5	< 85.9	1.7	--	--
MW-10	1/23/2012	15	< 0.0034	< 0.0034	< 0.0034	< 0.0103	< 0.0034	< 6.3	< 17.9	< 71.6	1.9	--	--
MW-10	1/23/2012	20	< 0.0044	< 0.0044	< 0.0044	< 0.0133	< 0.0044	< 6.7	< 19.3	< 77.1	2.4	--	--
MW-10	1/23/2012	25	< 0.0034	< 0.0034	< 0.0034	< 0.0103	< 0.0034	< 6.7	< 19.2	< 76.8	1.9	--	--
MW-10	1/23/2012	35	< 0.0030	< 0.0030	< 0.0030	< 0.0089	< 0.0030	< 6.1	< 19.0	< 75.8	2.7	--	--
SB-1	1/23/2012	15	0.0057	0.0092	0.488	0.135	< 0.0027	555	< 17.3	< 69.2	5.3	--	--
SB-1	1/23/2012	25	< 0.0031	< 0.0031	< 0.0031	< 0.0093	< 0.0031	< 6.4	< 19.3	< 77.1	1.6	--	--
SB-1	1/23/2012	35	< 0.0033	< 0.0033	< 0.0033	< 0.0098	< 0.0033	< 6.7	< 19.6	< 78.2	2.2	--	--
SB-1	1/23/2012	40	< 0.0031	< 0.0031	< 0.0031	< 0.0094	< 0.0031	< 6.4	< 19.4	< 77.7	2.2	--	--

Table 3
Soil Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT			B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TPH-G mg/kg	TPH-D mg/kg	TPH-O mg/kg	Lead mg/kg	Total cPAHs mg/kg	Total Naphthalenes mg/kg
MTCA Method A Soil Cleanup Level			0.03	7	6	9	0.1	30	2,000	2,000	250	1	5
SB-2	1/24/2012	20	< 0.0034	< 0.0034	0.848	0.0178	< 0.0034	1,500	< 18.1	< 72.2	2.9	--	--
SB-2	1/24/2012	35	< 0.0030	< 0.0030	< 0.0030	< 0.0090	< 0.0030	< 6.5	< 19.0	< 75.8	2.7	--	--
SB-3	1/23/2012	5	0.0088	< 0.0035	0.0071	< 0.0106	< 0.0035	392	2,710	9,400	11.4	--	--
SB-3	1/24/2012	10	< 0.0031	< 0.0031	< 0.0031	< 0.0093	< 0.0031	111	68.4	330	11.4	--	--
SB-3	1/24/2012	20	0.0956	5.14	13.2	50.8	< 0.0558	4,390	102	< 68.4	4.4	--	--
SB-3	1/24/2012	50	0.589	< 0.0035	0.0368	< 0.0105	< 0.0035	< 6.6	< 19.5	< 77.8	4.4	--	--
EW-3	1/25/2012	15	< 0.0035	< 0.0035	< 0.0035	< 0.0105	< 0.0035	30.1	< 19.0	< 75.9	6.6	--	--
EW-3	1/25/2012	20	0.069	0.0923	0.232	0.699	< 0.0031	621	29.7	< 64.5	2.9	--	--
EW-3	1/25/2012	30	0.0201	0.0101	0.0113	0.036	< 0.0031	< 6.8	< 18.7	< 74.8	3.2	--	--
SB-4	1/25/2012	15	< 0.0031	< 0.0031	< 0.0031	< 0.0092	< 0.0031	109	< 17.0	< 68.2	3.0	--	--
SB-4	1/25/2012	20	< 0.0029	< 0.0029	< 0.0029	< 0.0086	< 0.0029	5.7	< 16.8	< 67.1	2.5	--	--
SB-4	1/25/2012	35	< 0.0029	< 0.0029	< 0.0029	< 0.0087	< 0.0029	< 6.5	< 19.6	< 78.4	4.5	--	--
EW-1	1/25/2012	15	0.177	0.53	9.15	11.5	< 0.0598	2,160	59.9	< 70.8	3.9	--	--
EW-1	1/26/2012	25	2.54	12.7	10.5	51.8	< 2.66	3,270	123	< 71.7	6.7	--	--
EW-1	1/26/2012	30	0.259	0.0942	0.0849	1.85	< 0.0031	97.6	< 18.8	< 75.4	3.2	--	--
EW-2	1/26/2012	10	0.0042	0.0054	0.0055	0.031	< 0.0030	38.1	< 19.6	< 78.4	8.3	--	--
EW-2	1/26/2012	15	0.129	0.0142	2.01	0.103	< 0.0027	2,270	25.5	< 73.9	5.1	--	--
EW-2	1/26/2012	30	0.005	< 0.0027	< 0.0027	< 0.0081	< 0.0027	9.8	< 19.0	< 76.0	3.3	--	--
AS-1	8/1/2013	15	< 0.0039	< 0.0039	< 0.0039	< 0.0117	--	< 5.9	< 16.2	< 64.8	--	0.02073	--
AS-1	8/1/2013	20	< 0.0227	< 0.0568	0.767	0.881	--	989	167	< 59.1	--	0.0189	--
AS-1	8/1/2013	25	< 0.0031	< 0.0031	0.0038	< 0.0093	--	< 5.7	< 14.9	< 59.7	--	0.019	--
AS-1	8/1/2013	27.5	< 0.005	< 0.0042	< 0.0042	< 0.0126	--	< 6.2	< 16.3	< 65	--	0.0207	--
VE-2	8/1/2013	10	< 0.0042	< 0.0042	< 0.0042	< 0.0127	--	< 6.6	< 16.7	< 66.7	--	--	--
VE-2	8/1/2013	13.5	0.0036	< 0.0034	< 0.0034	< 0.0102	--	8.3	< 15.6	< 62.8	--	--	--
AS-4	6/11/2014	15	0.0073	< 0.0011	0.0017 J	< 0.0011	--	< 1.6	< 3.6	< 12	--	--	--
AS-5	6/11/2014	25	0.62	0.19 J	0.12 J	0.46	--	18	30	43	--	--	0.176
AS-6	6/11/2014	25	0.34	0.46	0.54	2.2	--	130	< 3.8	< 13	--	--	0.1
AS-2	6/13/2014	20	0.0012 J	0.0027 J	0.031	0.0094	--	16	< 3.5	< 12	--	0.00058 J	0.0053
AS-3	6/13/2014	10	--	--	--	--	--	2.9 J	7.3 J	39	--	0.7451	--
AS-3	6/13/2014	15	< 0.027	< 0.054	< 0.054	0.33	--	7	17	< 11	--	0.01836	--
AS-3	6/13/2014	20	0.085 J	2.1	8.3	33	--	1,800	8.1	< 11	--	0.00055	--
AS-3	6/13/2014	25	0.63 J	21	19	84	--	3,700	5.6 J	< 12	--	0.00862	--

Table 3
Soil Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT			B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TPH-G mg/kg	TPH-D mg/kg	TPH-O mg/kg	Lead mg/kg	Total cPAHs mg/kg	Total Naphthalenes mg/kg
MTCA Method A Soil Cleanup Level			0.03	7	6	9	0.1	30	2,000	2,000	250	1	5
VE-4	6/13/2014	10	< 0.026	0.061 J	0.14 J	0.98	--	440	520	290	--	0.1846	--
MW-11	10/19/2018	22.5	< 0.000471	0.0015	0.00118	< 0.00563	< 0.000347	1.37	< 1.57	< 3.92	0.462	0.00053379	0.00354
MW-11	10/19/2018	30	< 0.000500	0.00178	0.000696	< 0.00597	< 0.000369	1.62	1.67	< 4.16	1.28	0.00056625	0.00375
MW-12	10/19/2018	17.5	< 0.000443	0.023	0.00183	0.00787	< 0.000327	54.2	< 1.46	< 3.65	1.03	0.00049679	0.003285
MW-12	10/19/2018	22.5	< 0.000456	< 0.00142	0.0502	0.0314	< 0.000336	106	13.8	< 3.79	1.42	0.00051567	0.1033
MW-12	10/19/2018	25	< 0.000462	< 0.00144	0.00412	< 0.00552	< 0.000341	3.06	< 1.54	< 3.85	1.47	0.00052322	0.00468
MW-12	10/19/2018	32.5	< 0.000500	< 0.00156	0.000733	< 0.00597	< 0.000368	3.67	< 1.66	< 4.16	1.39	0.00056549	0.00375
SB-6(F)	7/20/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-6(F)	7/20/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-6(F)	7/20/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-1(F)	10/18/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-1(F)	10/18/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-1(F)	10/18/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-2(F)	10/18/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-2(F)	10/18/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-2(F)	10/18/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-3(F)	10/19/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-3(F)	10/19/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-3(F)	10/19/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-4(F)	10/19/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-4(F)	10/19/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-4(F)	10/19/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-5(F)	10/19/2022	20	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-5(F)	10/19/2022	25	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-5(F)	10/19/2022	30	< 0.02	< 0.10	< 0.05	< 0.15	--	< 10	< 50	< 250	--	--	--
SB-7	9/28/2023	10	< 0.024	< 0.072	< 0.048	< 0.048	< 0.048	< 4.8	< 54	< 54	6.6	--	0.011
SB-7	9/28/2023	20	< 0.028	< 0.083	< 0.055	< 0.055	< 0.055	130	< 51	< 51	2.3	--	< 0.0053
SB-7	9/28/2023	35	< 0.028	< 0.083	< 0.055	< 0.055	< 0.055	24	< 58	< 58	2.7	--	< 0.0060
SB-8	9/28/2023	4	< 0.018	< 0.055	< 0.037	< 0.037	< 0.037	< 3.7	< 54	< 54	4.9	--	< 0.0055
SB-8	9/28/2023	10	0.15	< 0.098	< 0.066	< 0.066	< 0.066	< 6.6	< 60	< 60	6.0	--	0.19
SB-8	9/28/2023	15	< 0.026	< 0.077	0.12	0.056	< 0.051	180	73	< 54	3.0	--	0.069
SB-8	9/28/2023	20	0.36	0.46	1.3	7.4	< 0.057	800 *1	< 57	< 57	7.0	--	0.57
SB-8	9/28/2023	25	< 0.027	< 0.08	< 0.053	< 0.053	< 0.053	6.9 *1	< 57	< 57	2.2	--	0.0086

Table 3
Soil Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT			B	T	E	X	MTBE	TPH-G	TPH-D	TPH-O	Lead	Total cPAHs	Total Naphthalenes
UNIT			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MTCA Method A Soil Cleanup Level			0.03	7	6	9	0.1	30	2,000	2,000	250	1	5
SB-8	9/28/2023	30	0.069	0.65	0.73	4.1	< 0.054	460	< 57	< 57	4.0	--	0.084
SB-8	9/28/2023	35	0.086	0.5	0.41	2.3	< 0.057	170	< 55	< 55	2.6	--	0.05
SB-9	12/19/2023	5	< 0.0013	< 0.0065	< 0.0013	< 0.0065	< 0.0013	< 6.6	< 62	240	9.6	--	< 0.0062
SB-9	12/20/2023	10	0.0013	< 0.0059	< 0.0012	< 0.0059	< 0.0012	< 5.4	< 58	160	13	--	0.13
SB-9	12/20/2023	15	< 0.0011	< 0.0055	< 0.0011	< 0.0055	< 0.0011	< 5.5	< 56	< 56	3.2	--	0.0075
SB-9	12/20/2023	20	0.017	< 0.0051	0.057	< 0.0051	< 0.0010	120	< 54	< 54	3.2	--	0.037
SB-9	12/20/2023	25	0.0090	< 0.0049	0.042	0.017	< 0.00097	30	< 58	< 58	3.5	--	0.059
MW-14	12/18/2023	5	< 0.0011	< 0.0057	< 0.0012	< 0.0057	< 0.0011	< 4.8	< 57	< 57	4.1	--	< 0.0053
MW-14	12/21/2023	10	< 0.0012	< 0.0059	< 0.0012	< 0.0059	< 0.0012	7.4	< 61	< 61	5.3	--	< 0.0063
MW-14	12/21/2023	15	< 0.0012	< 0.0062	< 0.0012	< 0.0062	< 0.0012	32	< 59	< 59	3.6	--	< 0.0057
MW-14	12/21/2023	17.5	< 0.0012	< 0.0058	0.13	0.12	< 0.0012	130	< 55	< 55	1.8	--	0.070
MW-14	12/21/2023	20	< 0.0012	< 0.0060	0.042	0.048	< 0.0012	39	< 52	< 52	1.8	--	0.031
MW-14	12/21/2023	30	< 0.0012	< 0.0062	< 0.0012	< 0.0062	< 0.0012	31	< 62	< 62	2.7	--	< 0.0060
MW-15	12/19/2023	5	< 0.0012	< 0.0060	< 0.0012	< 0.0060	< 0.0012	< 6.1 H*1	< 61	< 61	6.4	--	< 0.0063
MW-15	12/20/2023	10	< 0.0011	< 0.0055	< 0.0011	< 0.0055	< 0.0011	< 5.8 *1	< 59	68	4.6	--	< 0.0059
MW-15	12/20/2023	15	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010	1,200 H*1	120	< 53	3.9	--	0.063
MW-15	12/20/2023	20	< 0.0012	< 0.0060	0.0033	< 0.0060	< 0.0012	140 *1	< 55	< 55	3.5	--	0.016
MW-15	12/20/2023	25	0.0012	< 0.0060	0.022	0.013	< 0.0012	8.6 *1	< 59	< 59	2.9	--	0.0098
MW-15	12/20/2023	30	< 0.0011	< 0.0055	< 0.0011	< 0.0055	< 0.0011	< 4.7 *1	< 55	69	11	--	0.041
MW-15	12/20/2023	35	< 0.0013	< 0.0063	0.0038	< 0.0063	< 0.0013	20 H*1	< 60	< 60	3.6	--	< 0.0060
MW-16	12/19/2023	5	< 0.0013	< 0.0063	< 0.0013	< 0.0063	< 0.0013	< 6.2	< 64	< 64	7.2	--	< 0.0059
MW-16	12/22/2023	10	< 0.0014	< 0.0068	< 0.0014	< 0.0068	< 0.0014	< 6.9	< 64	< 64	7.5	--	< 0.0066 *-*1
MW-16	12/22/2023	15	< 0.0012	< 0.0062	< 0.0012	< 0.0062	< 0.0012	< 6.0	< 61	< 61	5.0	--	< 0.0059 *-*1
MW-16	12/22/2023	20	< 0.0013	< 0.0063	< 0.0013	< 0.0063	< 0.0013	< 5.6	< 60	< 60	2.8	--	< 0.0058 *-*1
MW-16	12/22/2023	25	< 0.0012	< 0.0060	< 0.0012	< 0.0060	< 0.0012	< 6.1	< 59	< 59	2.5	--	< 0.0059 *-*1
MW-16	12/22/2023	30	< 0.0013	< 0.0067	< 0.0013	< 0.0067	< 0.0013	9.1	< 64	< 64	2.3	--	< 0.0065 *-*1

Table 3
Soil Analytical Data
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

CONSTITUENT UNIT	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TPH-G mg/kg	TPH-D mg/kg	TPH-O mg/kg	Lead mg/kg	Total cPAHs mg/kg	Total Naphthalenes mg/kg
MTCA Method A Soil Cleanup Level	0.03	7	6	9	0.1	30	2,000	2,000	250	1	5

Notes:
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes, Total
MTBE = Methyl tert-butyl ether
TPH-G = Total petroleum hydrocarbons as gasoline by Northwest Method NWTPH-Gx
TPH-D = Total petroleum hydrocarbons as diesel by Northwest Method NWTPH-Dx
TPH-O = Total petroleum hydrocarbons as oil by Northwest Method NWTPH-Dx
cPAH = carcinogenic polycyclic aromatic hydrocarbons
Total cPAH value is the sum of all analyzed cPAHs
Total naphthalenes value is the sum of the naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene values
<1.0 = Concentrations were not detected above the laboratory report detection limit
mg/kg = Microgram per kilogram
-- = No value given/Not analyzed/Not applicable
MTCA = Model Toxics Control Act
Results in **bold** indicate concentrations in excess of Lateral VI Screening Level
Lateral individual VOCs VI Screening Levels are three times the MTCA Method A Cleanup Levels as described in the Ecology March 2022 Vapor Intrusion Guidance Document.
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
H = Sample was prepped or analyzed beyond the specified holding time
*1 = LCS/LCSD RPD exceeds control limits
*- = LCS and/or LCSD is outside acceptance limits, low biased
SB-X(F) = Phase II environmental assessment conducted at Franciscan property located at 4550 Fauntleroy Way Southwest
VE-1 = Formerly known as VW-1. VW-1 was installed in April 1995. The name was changed in April 1998 to VE-1. Referenced from the Arcadis 11/19/2010 Soil Vapor Extraction Pilot Test Workplan.
Reanalysis of the following sample were performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. : MW-15-5, MW-15-10, and MW-15-35.

Table 4
Soil Vapor Analytical Results
Former BP Facility No. 11060
4580 Fauntleroy Way Southwest, Seattle, Washington

Well ID	Date	Benzene (µg/m ³)	Toluene (µg/m ³)	Ethylbenzene (µg/m ³)	Total Xylenes (µg/m ³)	Methyl tert-Butyl Ether (µg/m ³)	Naphthalene (µg/m ³)	APH [EC5-8 Aliphatics] (µg/m ³)	APH [EC9-12 Aliphatics] (µg/m ³)	APH [EC9-10 Aromatics] (µg/m ³)	Total TPH (µg/m ³)
Method B Soil Gas Screening Level - Noncancer		460	76,000	15,000	1,500	46,000	46	--	--	--	1,500 ^a
Method B Soil Gas Screening Level - Cancer		11	--	--	--	320	2.5	--	--	--	--
Commercial Worker Sub-Slab Soil Gas Screening Level - Noncancer		3,900	650,000	130,000	13,000	390,000	390	--	--	--	13,000^a
Commercial Worker Sub-Slab Soil Gas Screening Level - Cancer		50	--	--	--	1,500	11	--	--	--	--
SVP-1	12/11/2023	< 0.11	0.17	< 0.15	< 0.30	< 0.038	< 0.15 V	< 30	< 15	< 3.8	24.925
SVP-1	6/17/2024	0.22	1.4	< 0.15	0.37	< 0.038	< 0.15	36	< 15	< 3.8	40.04
SVP-2	12/11/2023	0.15	2.3	< 0.14	< 0.28	< 0.035	< 0.14 V	< 28	< 14	< 3.5	25.48
SVP-2	6/17/2024	< 0.12	0.43	< 0.16	0.20	< 0.041	< 0.16	< 32	< 16	< 4.1	16.77

NOTES:
Screening Levels taken from Washington State Department of Ecology (Ecology) - Cleanup Levels and Risk Calculation (CLARC) Vapor Intrusion Method B Table and Vapor Intrusion Worker Table - January 2025
All concentrations are in µg/m³
a - Total Petroleum Hydrocarbon (TPH) Generic Cleanup Level
(µg/m³) = microgram per cubic meter
< = Less than the stated laboratory method reporting limit (MRL)
Air-phase petroleum hydrocarbons (APH) by Massachusetts Department of Environmental Protection (DEP) APH Test Methods
Benzene, toluene, ethylbenzene, xylenes (BTEX), and naphthalene by Environmental Protection Agency (EPA) Method TO-15 SIM
Total Xylenes = Sum of m,p-Xylenes and o-Xylene
Total TPH concentrations for each sample = Sum of the APHs, BTEX, and Naphthalene values. Non-detect concentrations are included in the calculation as half their MRL value.
Results in **bold** indicate concentrations in excess of Commercial Worker Sub-Slab Soil Gas Screening Levels
V= The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

Figures

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Soil Vapor Analytical Map

Figure 4 – Site Map with Cross Section Lines

Figure 5 – Geological Cross Section A-A'

Figure 6 – Geological Cross Section B-B'

Figure 7 – Geological Cross Section C-C'



USGS Topographic Map 1:24000
Duwamish Head, WA 2017

0 500 1,000 2,000 3,000 4,000 Feet

FIGURE 1

SITE LOCATION MAP
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY SOUTHWEST
SEATTLE, WASHINGTON

PROJECT NO.
WA - 11060 SEATTLE

PREPARED BY
SAA

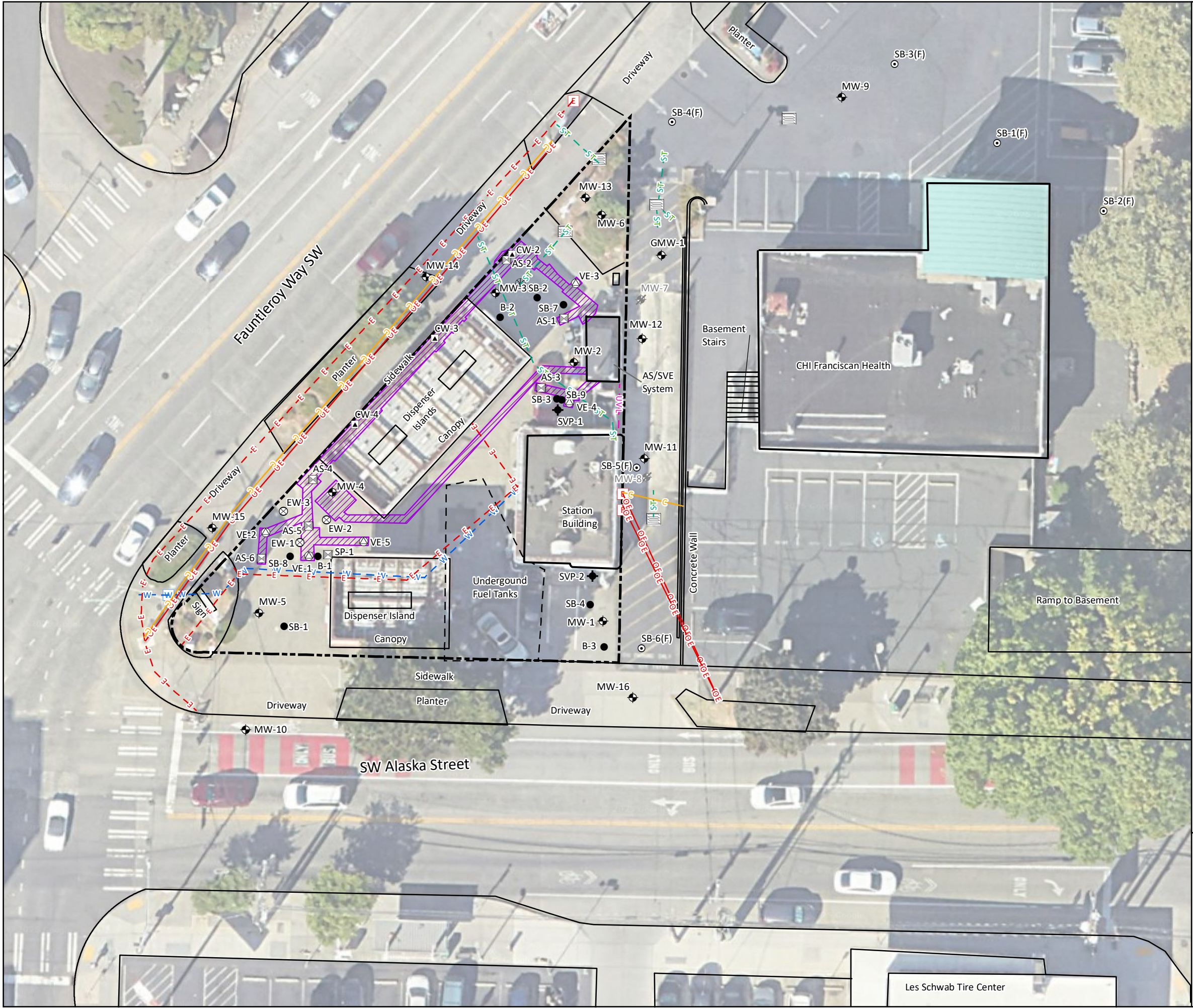
REF SCALE
1:24,000

DATE
2/15/2021

REVIEWED BY
JS

MAP SCALE
1 INCH = 2,000 FEET





Legend

Monitoring Well

Abandoned Monitoring Well

Extraction Well

Air Sparge Well

Soil Vapor Probe

Vapor Extraction Well

Combination Air Sparge and Vapor Extraction Well

Soil Boring

Soil Boring (2023 Franciscan Phase II Assessment)

Approximate Property Line

Trench Location

Overhead Communication Line

Overhead Electric Line

Underground Electric Line

Underground Storm Sewer Line

UST Vent Lines, Exact Location Unknown

Underground Water Line

Electric Meter

Inlet

Storm Manhole

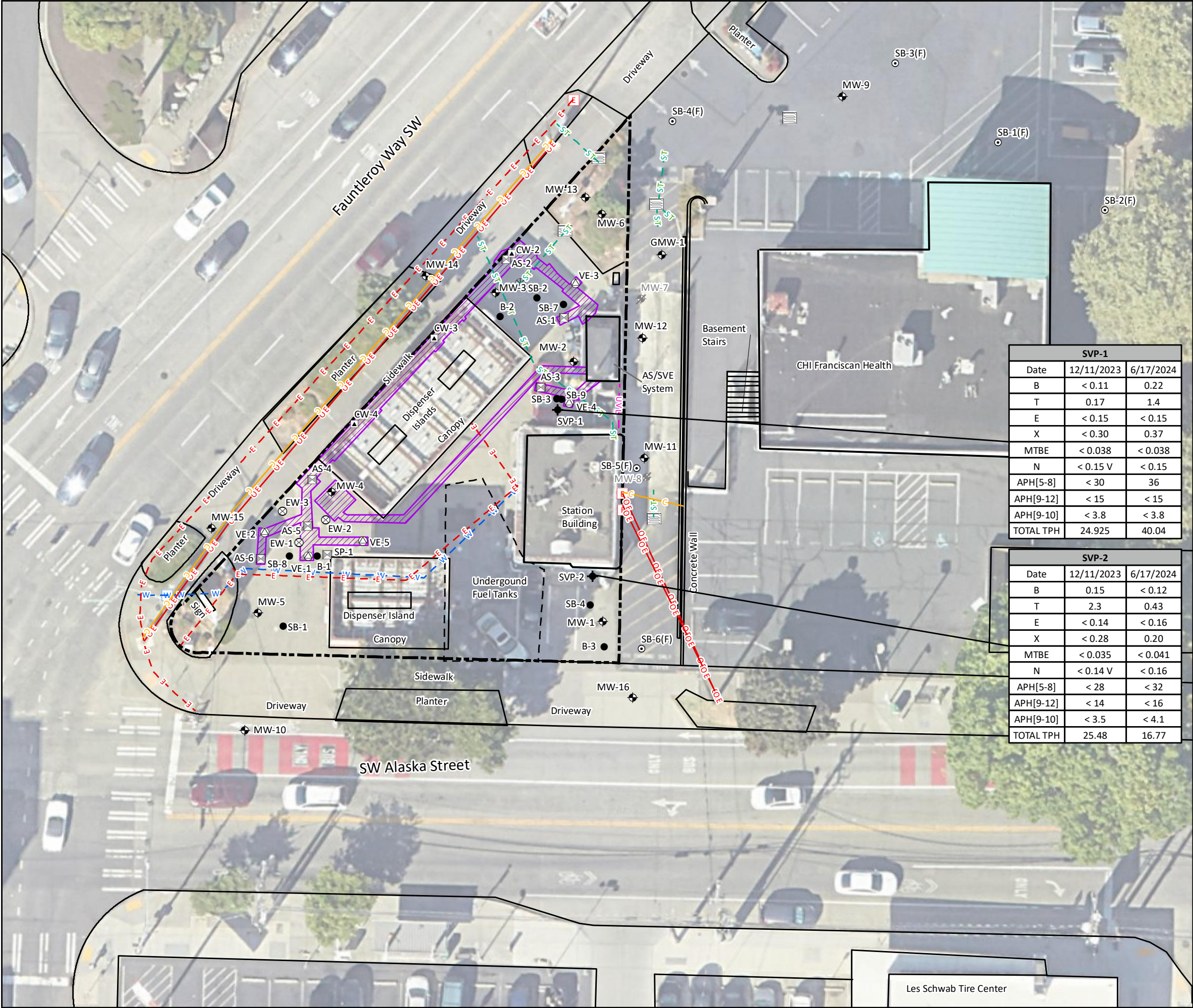
Water Meter

Note: Wells were resurveyed in 2024 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83/98

FIGURE 2
SITE MAP
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY SOUTHWEST
SEATTLE, WASHINGTON

PROJECT NO. 11060	PREPARED BY MH	REF SCALE 1:300	 data management analytics
DATE 1/28/2025	REVIEWED BY LD	MAP SCALE 1 INCH = 25 FEET	

Z:\GIS Projects\BP\BP_WA\11060 Seattle\Project Number\Layout\11060 Site Map Survey Update.mxd



Legend

Monitoring Well

Abandoned Monitoring Well

Extraction Well

Air Sparge Well

Soil Vapor Probe

Vapor Extraction Well

Combination Air Sparge and Vapor Extraction Well

Soil Boring

Soil Boring (2023 Franciscan Phase II Assessent)

Approximate Property Line

Trench Location

Overhead Communication Line

Overhead Electric Line

Underground Electric Line

Underground Storm Sewer Line

UST Vent Lines, Exact Location Unknown

Underground Water Line

Electric Meter

Inlet

Storm Manhole

Water Meter

Notes:

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total xylenes

MTBE = Methyl tert-butyl ether

N = Naphthalene

APH = Aliphatic hydrocarbons

TPH = Total petroleum hydrocarbons

< = less than laboratory indicated detection limit

V = the continuing calibration verification standard was outside (biased low) the specified limts for this compound

SVP-1		
Date	12/11/2023	6/17/2024
B	< 0.11	0.22
T	0.17	1.4
E	< 0.15	< 0.15
X	< 0.30	0.37
MTBE	< 0.038	< 0.038
N	< 0.15 V	< 0.15
APH[5-8]	< 30	36
APH[9-12]	< 15	< 15
APH[9-10]	< 3.8	< 3.8
TOTAL TPH	24.925	40.04

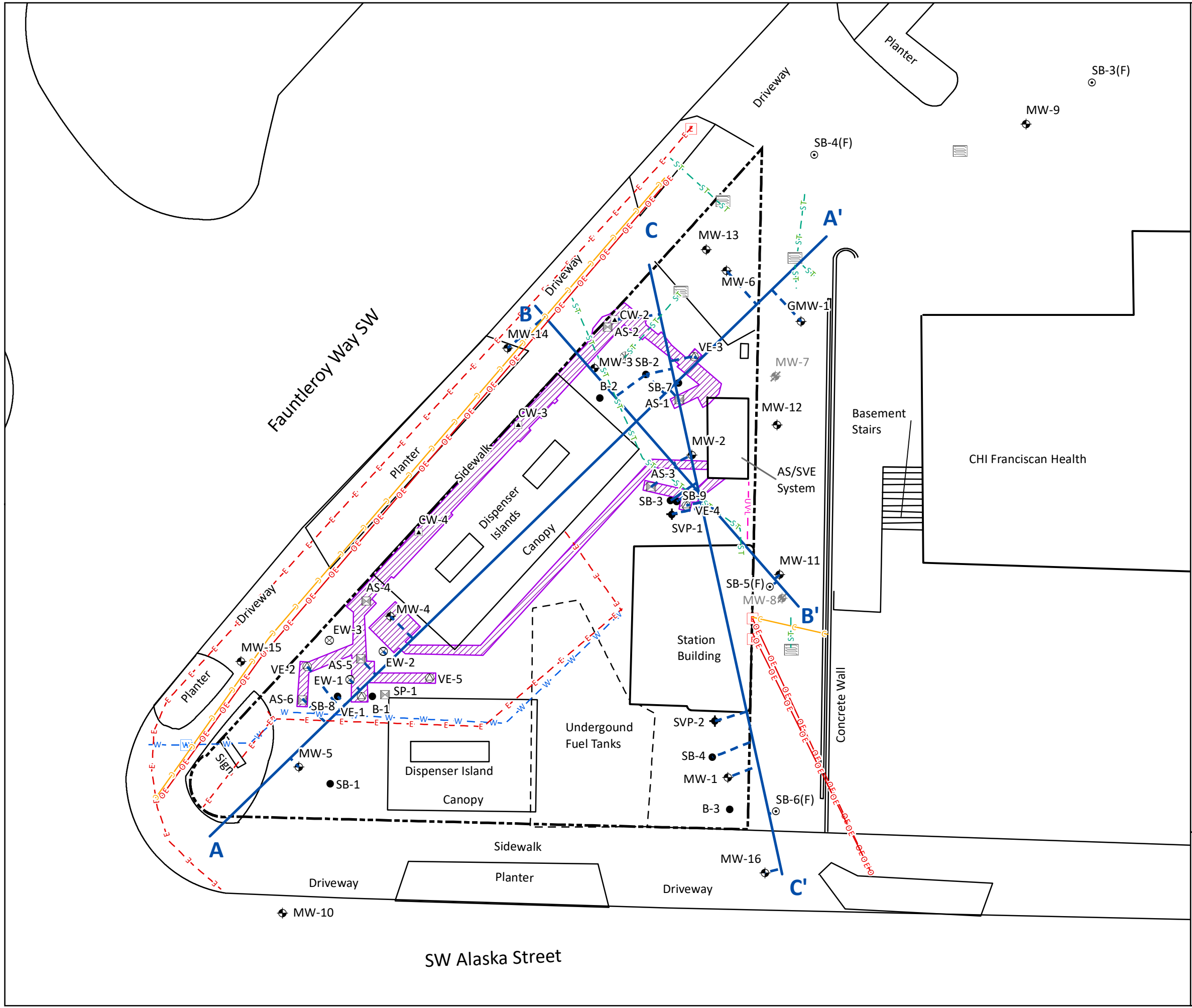
SVP-2		
Date	12/11/2023	6/17/2024
B	0.15	< 0.12
T	2.3	0.43
E	< 0.14	< 0.16
X	< 0.28	0.20
MTBE	< 0.035	< 0.041
N	< 0.14 V	< 0.16
APH[5-8]	< 28	< 32
APH[9-12]	< 14	< 16
APH[9-10]	< 3.5	< 4.1
TOTAL TPH	25.48	16.77

Note: Wells were resurveyed in 2024 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83/98

FIGURE 3
SOIL VAPOR ANALYTICAL MAP
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY SOUTHWEST
SEATTLE, WASHINGTON

PROJECT NO. 11060	PREPARED BY MH	REF SCALE 1:300	
DATE 1/31/2025	REVIEWED BY LD	MAP SCALE 1 INCH = 25 FEET	

Z:\GIS Projects\BP\BP_WA\11060 Seattle\Project Number\Layout\11060 SVA 4Q232Q24.mxd



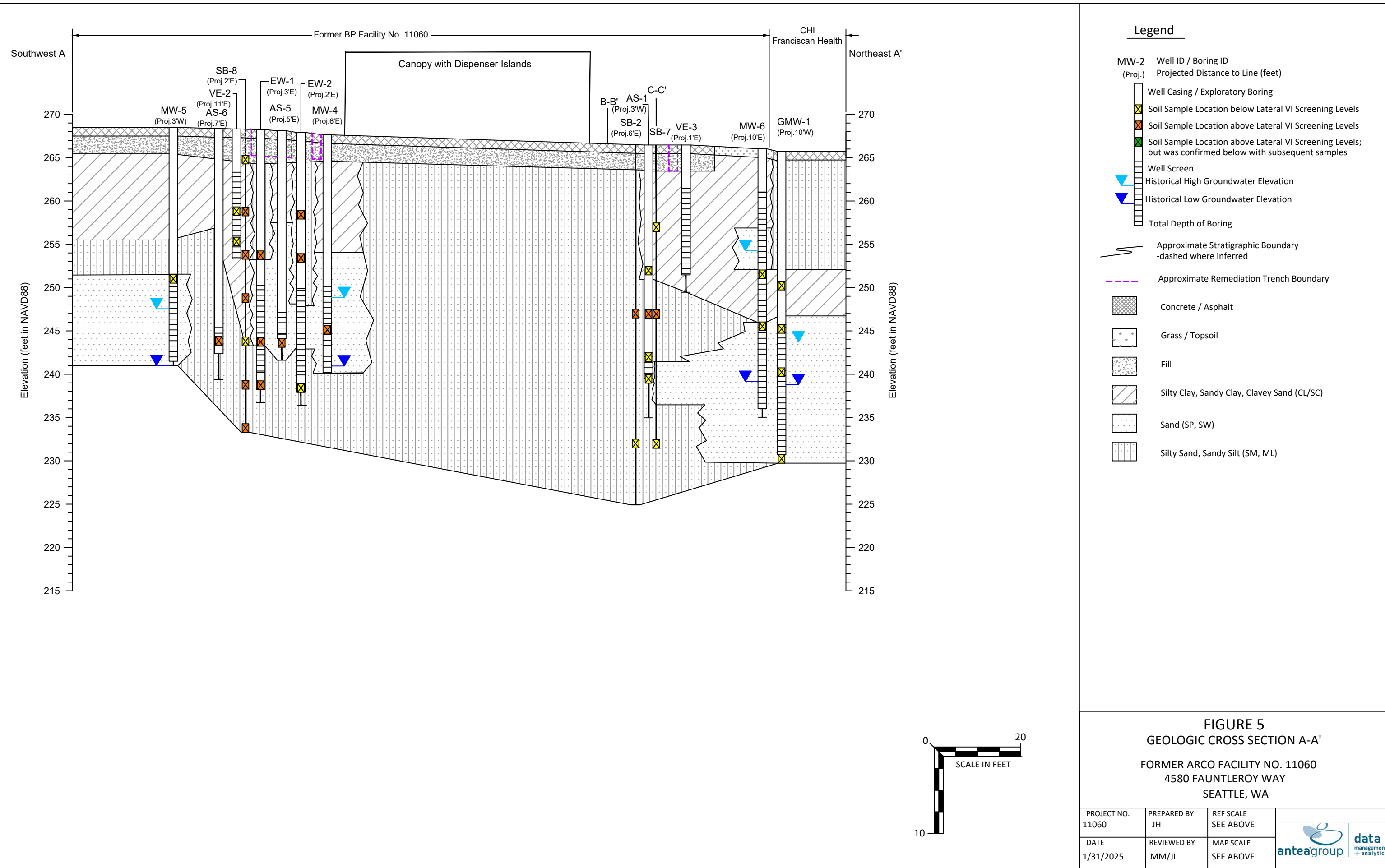
- Legend**
- Monitoring Well
 - Abandoned Monitoring Well
 - Extraction Well
 - Air Sparge Well
 - Soil Vapor Probe
 - Vapor Extraction Well
 - Combination Air Sparge and Vapor Extraction Well
 - Soil Boring
 - Soil Boring (2023 Franciscan Phase II Assessment)
 - Approximate Property Line
 - Trench Location
 - Overhead Communication Line
 - Overhead Electric Line
 - Underground Electric Line
 - Underground Storm Sewer Line
 - UST Vent Lines, Exact Location Unknown
 - Underground Water Line
 - Electric Meter
 - Inlet
 - Storm Manhole
 - Water Meter
 - Cross Section Line
 - Projected Distance to Line

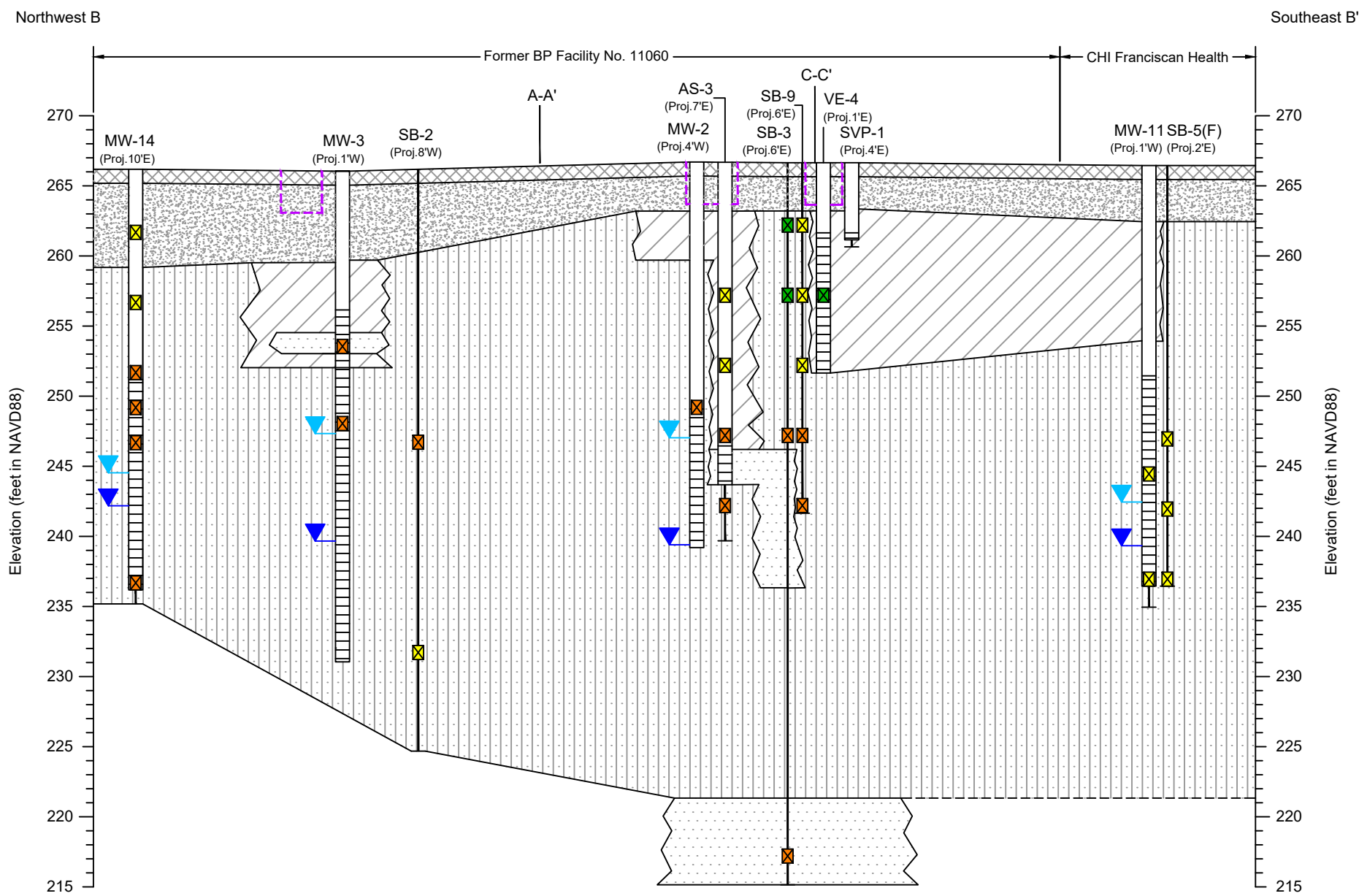
Note: Wells were resurveyed in 2024 and are referenced to vertical datum NAVD 88 and horizontal datum NAD 83/98



FIGURE 4
SITE MAP WITH CROSS SECTION LINES
FORMER BP FACILITY NO. 11060
4580 FAUNTLEROY WAY SOUTHWEST
SEATTLE, WASHINGTON

PROJECT NO. 11060	PREPARED BY MB/JH/MH	REF SCALE 1:240	 data management analytics
DATE 1/29/2025	REVIEWED BY LD	MAP SCALE 1 INCH = 20 FEET	





Legend

MW-2 Well ID / Boring ID
(Proj.) Projected Distance to Line (feet)

- Well Casing / Exploratory Boring
- Soil Sample Location below Lateral VI Screening Levels
- Soil Sample Location above Lateral VI Screening Levels
- Soil Sample Location above Lateral VI Screening Levels; but was confirmed below with subsequent samples
- Well Screen
- Historical High Groundwater Elevation
- Historical Low Groundwater Elevation
- Total Depth of Boring

- Approximate Remediation Trench Boundary
- Concrete / Asphalt
- Grass / Topsoil
- Fill
- Silty Clay, Sandy Clay, Clayey Sand (CL/SC)
- Sand (SP, SW)
- Silty Sand, Sandy Silt (SM, ML)

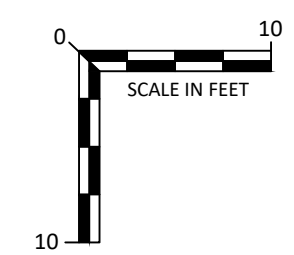


FIGURE 6

GEOLOGIC CROSS SECTION B-B'

FORMER ARCO FACILITY NO. 11060

4580 FAUNTLEROY WAY

SEATTLE, WA

PROJECT NO. 11060	PREPARED BY JH	REF SCALE SEE ABOVE	
DATE 1/31/2025	REVIEWED BY MM/JL	MAP SCALE SEE ABOVE	

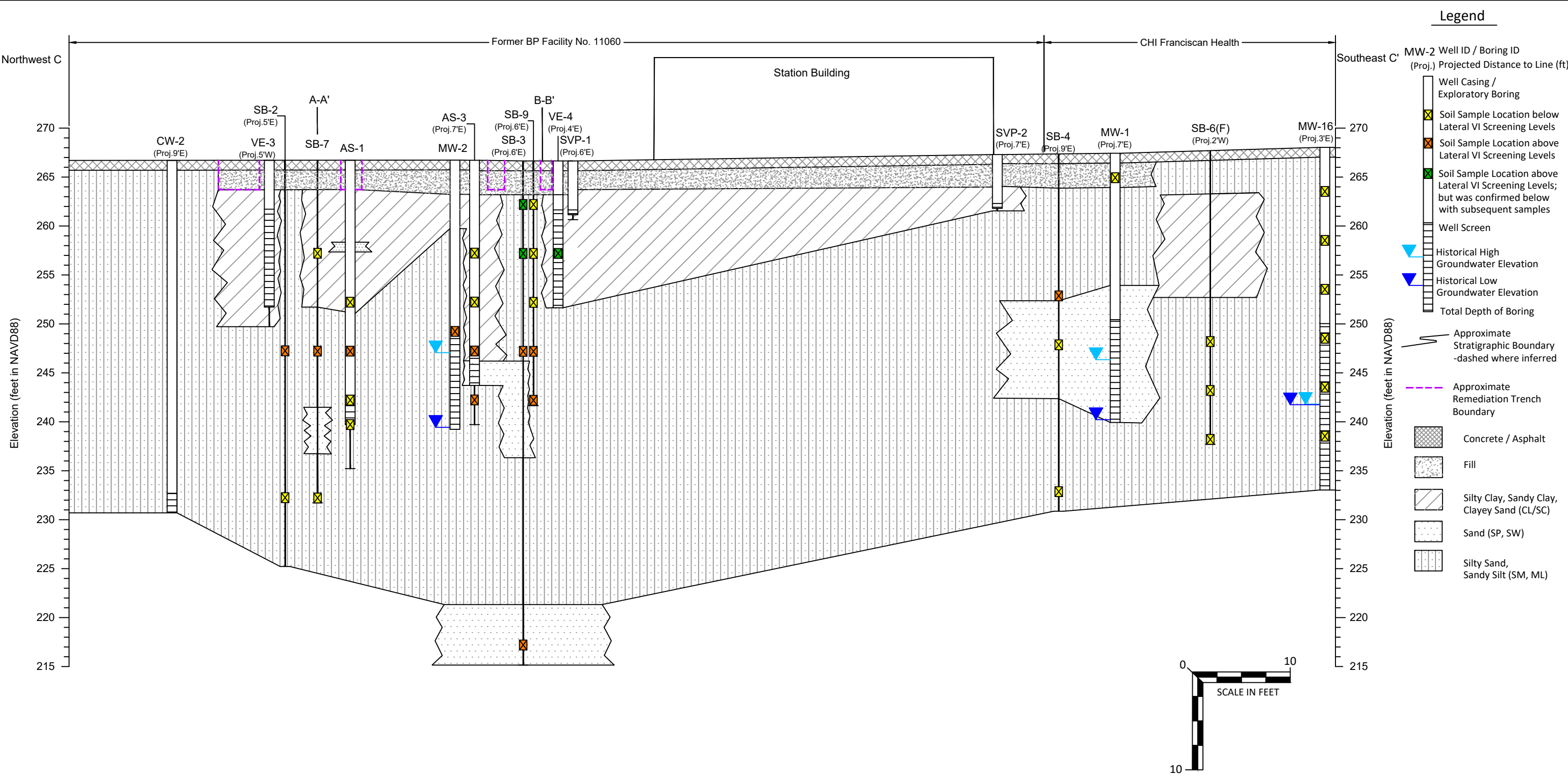


FIGURE 7
GEOLOGIC CROSS SECTION C-C'

FORMER ARCO FACILITY NO. 11060
4580 FAUNTLEROY WAY
SEATTLE, WA

PROJECT NO. 11060	PREPARED BY JH	REF SCALE SEE ABOVE	
DATE 1/31/2025	REVIEWED BY MM/JL	MAP SCALE SEE ABOVE	

Appendix A – Site Investigation History Summary

Appendix A – Site Investigation History Summary

A summary of the previous investigations conducted at Former BP Facility No. 11060 located at 4580 Fauntleroy Way Southwest, Seattle, King County, Washington is provided below.

March 1992 – Subsurface Investigation

On March 23, 1992, a subsurface investigation was conducted to determine the extent of hydrocarbons in soil and groundwater. Three soil borings were advanced, but due to sloughing pea gravel, only soil boring/monitoring well MW-3 could be installed. Laboratory analytical results from soil samples collected at 13 and 18.5 feet below ground surface (bgs) exceeded the Washington State Department of Ecology's (Ecology) Model Toxics Control Act (MTCA) Method A Cleanup Levels for benzene and total petroleum hydrocarbons as gasoline (TPH-G). On April 8, 1992, a groundwater sample was collected from MW-3. Laboratory analytical results of the groundwater sample exceeded the MTCA Method A Cleanup Levels for benzene and total petroleum hydrocarbons as diesel (TPH-D) (Geraghty & Miller 1992).

May 1993 – Subsurface Investigation

In May 1993, a subsurface investigation was conducted to provide additional information on residual petroleum hydrocarbons in soil and groundwater. Four soil borings were advanced and completed as monitoring wells MW-1, MW-2, MW-4, and MW-5. Samples were submitted for laboratory analysis of TPH-G and benzene, toluene, ethylbenzene, and xylenes (BTEX). Laboratory analytical results from soil samples collected from MW-2 at 18 feet bgs exceeded the MTCA Method A Cleanup Levels for TPH-G and benzene. Laboratory analytical results from soil samples collected from MW-4 at 23 feet bgs exceeded the MTCA Method A Cleanup Levels for TPH-G, benzene, toluene, and total xylenes. In May and June 1993, groundwater samples were collected from MW-1 through MW-5. Laboratory analytical results of the groundwater samples exceeded the MTCA Method A Cleanup Levels for TPH-G and benzene for all samples, toluene and ethylbenzene for MW-2 and MW-4, and xylene for MW-2, MW-4, and MW-5 (RZA AGRA, Inc. 1993).

March 1994 – Subsurface Investigation

In March 1994, Stage II vapor recovery equipment was installed, and soil samples were collected at depths of one to two feet bgs around the service islands, product lines, and tank pit. Soil sample analytical results indicated TPH-G concentrations ranging from 20 to 6,400 milligrams per kilogram (mg/kg), TPH-D concentrations ranging from 90 to 25,000 mg/kg, and total petroleum hydrocarbons as oil (TPH-O) concentrations ranging from 100 to 590 mg/kg. The highest hydrocarbon concentrations were detected in samples collected from backfill material within two feet below grade at the tank pit (Alisto Engineering Group, 1995).

Fourth Quarter 1994 – Remediation Activity

During the fourth quarter of 1994, a passive product recovery unit (belt skimmer) was installed in MW-4. Approximately 3,800 gallons of total fluids were recovered from MW-4 (Alisto Engineering Group, 1995).

March 1995 – SVE Well Installation

In March through May 1995, two soil borings, VW-1 and SP-1, were advanced to 28 and 38 feet bgs. In April 1998, the VW-1 name was changed to VE-1 as referenced from the Arcadis November 19, 2010 Soil Vapor Extraction (SVE) Pilot Test Workplan. Soil samples from VE-1 taken at 10 and 25 feet bgs detected concentrations of TPH-G at 3,500 and 1,300 mg/kg. No soil samples were collected from SP-1. Light non-aqueous phase liquid (LNAPL) was observed in VE-1 at a thickness of 0.08 feet. Groundwater samples collected from SP-1 detected TPH-G and benzene at concentrations of 310 and 52 micrograms per liter (µg/L).

In May 1995, an air sparge (AS) and vapor extraction test was conducted to determine sparge and vacuum remediation feasibility at the Site. An effective radius of influence of approximately 30 feet was determined achievable with an air flow rate of 10 cubic feet per meter (cfm) at 25 pounds per square inch (psi). The air flow required to maintain aerobic conditions was determined to be 0.816 standard cubic feet per meter (scfm) and recommended for two scfm. No vacuum pressure drawdowns were observed in any test well, however air samples collected during testing detected TPH-G concentrations of up to 1,500 parts per million by volume (ppmV) and benzene concentrations of up to 14 ppmV (Alisto Engineering Group, 1995).

June 1996 – Well Installation

In June 1996, six combined air sparging and vapor extraction wells (CW-1 through CW-6) and one air sparging well (SP-2) were installed for a proposed remediation system. No samples were collected for laboratory analysis (Alisto Engineering Group, 1996).

June 1997 – Subsurface Investigation

In June 1997, monitoring well MW-6 was installed. Soil and groundwater samples collected from MW-6 were below MTCA Method A Cleanup Levels for TPH-G (Alisto Engineering Group, 1997).

April 1998 – Well Installation and Abandonment

Groundwater samples were collected from monitoring wells MW-7 and MW-8 between April 1998 and June 1999. Details regarding the installation and abandonment of these wells are not known at this time (Delta Environmental Consultants, Inc., 2003).

July 2003 – Indoor Air Survey

In July 2003, indoor station air was tested for gasoline range hydrocarbons. Air was monitored using a photoionization detector (PID) around the station area and passive organic vapor monitoring devices placed in select indoor and outdoor locations. In September 2003, two additional passive organic vapor monitoring devices were placed in the station building. PID monitoring and laboratory analytical from July and September 2003 concluded that air quality was within acceptable ranges during the times of investigation (Delta Environmental Consultants, Inc., 2003).

2007 – Subsurface Investigation

In 2007, monitoring well GMW-1 was installed as part of Phase II activities on the VMFH Medical Clinic property. Four soil samples and one groundwater sample were submitted for laboratory analysis. All soil samples were below MTCA Method A Cleanup Levels for TPH-G and BTEX. The groundwater sample was below MTCA Method A Cleanup Levels for TPH-G, TPH-D, and lead (Arcadis N.V., 2011).

August 2010 – Subsurface Investigation

In August 2010, one monitoring well (MW-9) was installed off-site and downgradient of the Site. Three soil samples were collected during installation and submitted for laboratory analysis. None of the soil samples contained concentrations of petroleum hydrocarbons greater than laboratory detection limits. The soil samples did contain detectable concentrations of lead, none of which exceeded MTCA Method A Cleanup Levels (Arcadis N.V., 2010).

January 2012 – Subsurface Investigation

In January 2012, three extraction wells (EW-1 through EW-3), one monitoring well (MW-10), and four soil borings (SB-1 through SB-4) were advanced at the Site. Two to four soil samples were submitted for laboratory

analysis from each boring. Soil samples exceeded MTCA Method A Cleanup Levels for TPH-G from borings SB-1 through SB-4 and EW-1 through EW-3, TPH-D and TPH-O from boring SB-3, benzene from boring SB-3, SB-4, EW-1 through EW-3, toluene from boring EW-1, ethylbenzene from SB-3 and EW-1, total xylenes from SB-3 and EW-1, and benzo[a]pyrene from SB-3 (Arcadis N.V., 2013).

August 2012 – Remediation – Product recovery

In August 2012, product recovery activities were conducted at wells MW-4 and VE-1. In 1994, a belt skimmer was installed in MW-4 as an interim remedial measure for recovery LNAPL. In August 2013, the belt skimmer was removed and decommissioned from MW-4 due to the water table dropping below the level of the belt skimmer. (Arcadis N.V., 2011).

June 2014 – Subsurface Investigation and Remediation Well Installation

In 2014, six AS wells (AS-1 through AS-6) and five SVE wells (VE-1 through VE-5) were installed for the AS/SVE remediation system. Combined AS/SVE wells CW-2 through CW-4 were incorporated into the remediation system. Soil samples collected during well installation activity contained concentrations of petroleum hydrocarbons exceeding MTCA Method A Cleanup Levels for TPH-G from borings AS-3, AS-6, and VE-4, benzene from borings AS-3, AS-5, and AS-6, toluene from boring AS-3, ethylbenzene from boring AS-3, total xylenes from boring AS-3, and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) from borings AS-3 and VE-4 (Arcadis N.V., 2015).

2015 – Remediation System Installation

Between October and November 2015, AS/SVE remediation system trenching and underground conveyance piping were installed to the system equipment compound. In January 2016, AS/SVE system equipment was placed, a well manifold was constructed, and remediation wells were connected to the system compound. The AS system equipment consisted of a 15 horsepower (HP) air compressor capable of 90 scfm at 28 psi, nine AS wells, remedial piping, and a five-well manifold connected with solenoid valves for pulsing operations. The SVE system equipment consisted of a five HP blower capable of 120 scfm at 80 inches of water (in WC) vacuum, eight SVE wells, a five-well manifold with an additional two individual SVE lines, remedial piping, knock-out tank, vapor control valve (VCV), FALCO electric catalytic oxidizer, and round pipe effluent stack. The system was equipped with a programmable logic controller for automated operation. Safety devices were equipped throughout the system. Notice of Construction No. 10813 and Registration No. 29664 was issued by Puget Sound Clean Air Agency (PSCAA) (Arcadis N.V., 2016).

October 2018 – Subsurface Investigation

In October 2018, two soil borings were advanced and completed as monitoring wells MW-11 and MW-12. Soil samples collected during well installation activities contained concentrations of TPH-G exceeding MTCA Method A Cleanup Levels from boring MW-12 (Arcadis N.V., 2018).

2021 – Remediation System Air Sparge Pilot Tests

In July 2021, an AS pilot test was conducted to determine if low sparge pressure operations were feasible at the Site. Positive pressures were observed in test wells during lowest achievable flow rate in AS wells and higher than typical vacuum operation in SVE wells. The catalytic oxidizer unit did not have consistent operation due to electrical component issues causing inconsistent SVE and system operation during the test. A second pilot test with continuous SVE operation was determined necessary.

In September and October 2021, a second AS test was performed after fixing the catalytical oxidizer component. To test subsurface pressure changes and potential for pulsed air sparge operations, AS was introduced at the lowest achievable flow rate and later shut down. A second round of AS startup and shutdown was performed. SVE operation was continuous throughout the test to apply a constant vacuum to the subsurface and try to overcome positive AS pressures. During the test, positive pressures were observed in the test wells while AS and SVE were operational. When AS was shutdown, vacuum conditions were observed in the test wells. Combined SVE well influent PID readings increased from 24 ppmV to 29.5 ppm when AS was operational. Individual SVE wells VE-1 and VE-2 increased from 19.4 ppmV to 453.4 ppmV and 74.7ppmV to 417.3 ppmV, respectively, when AS was operational (Antea Group, 2021).

December 2022 – Petrofix Injection

In December 2022, a PetroFix® amendment injection pilot study was conducted. Baseline groundwater monitoring was conducted prior to the injection. Approximately 1,600 pounds of PetroFix® amendment and 819 gallons of water were injected in EW-1 through EW-3 and MW-4. Continuous monitoring of observations wells for depth to groundwater, pressure, and PetroFix® surfacing was conducted throughout the test. Following the injection test, performance groundwater sampling occurred (Antea Group, 2022).

2023 – Subsurface Investigation

In September and December of 2023, two soil vapor probes, SVP-1 and SVP-2, three soil borings, SB-7 through SB-9, and four groundwater monitoring wells, MW-13 through MW-16, were installed on-site as part of a subsurface investigation. The purpose of the investigation was to delineate the extent of the Ecology MTCA Site boundary, evaluate effectiveness of the SVE system in reducing historical soil impacts, and assess the soil vapor intrusion pathways on-site (Antea Group, 2023).

References

Geraghty & Miller. Subsurface Investigation. 23 Mar. 1992.
RZA AGRA, Inc. Subsurface Investigation. May 1993.
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Alisto Engineering Group. Subsurface Investigation. June 1997.
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Delta Environmental Consultants, Inc. (Delta). Indoor Air Survey. July 2003.
Arcadis N.V. Phase II Activities. 2007.
Arcadis N.V. Subsurface Investigation. Aug. 2010.
Arcadis N.V. Subsurface Investigation. Jan. 2012.
Arcadis N.V. Remediation - Product Recovery. Aug. 2012.
Arcadis N.V. Subsurface Investigation and Remediation Well Installation. June 2014.
Arcadis N.V. Remediation System Installation. Oct.-Nov. 2015.
Arcadis N.V. Subsurface Investigation. Oct. 2018.
Antea Group. Air Sparge Pilot Tests. July-Oct. 2021.
Antea Group. PetroFix Injection. Dec. 2022.
Antea Group. Subsurface Investigation. Sept.-Dec. 2023.

Appendix B – Boring Logs



ALISTO ENGINEERING GROUP
TUKWILA, WASHINGTON

LOG OF BORING CW-1

Page 1 of 1

SEE SITE PLAN

ALISTO PROJECT NO: 20-007-03

DATE DRILLED: 07/24/96

CLIENT: BP Oil Company

LOCATION: 4580 Fauntleroy Way S.W., Seattle, Washington

DRILLING METHOD: Hollow-Stem Auger (10"); logged from cuttings

DRILLING COMPANY: Geotech Exploration

CASING ELEVATION:

LOGGED BY: G.B.L.

APPROVED BY: Al Sevilla

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						Pt	PEAT: organic and sandy soils.
						SM	silty SAND: gray, dense; fine- to medium-grained sand; minor gravel to 1/2-inch-diameter.
						SP	SAND: gray, dense; medium-grained sand; larger cobbles.
							Boring terminated at 38 feet.



ALISTO ENGINEERING GROUP
TUKWILA, WASHINGTON

LOG OF BORING CW-2

Page 1 of 1

SEE SITE PLAN

ALISTO PROJECT NO: 20-007-03

DATE DRILLED: 07/24/96

CLIENT: BP Oil Company

LOCATION: 4580 Fauntleroy Way S.W., Seattle, Washington

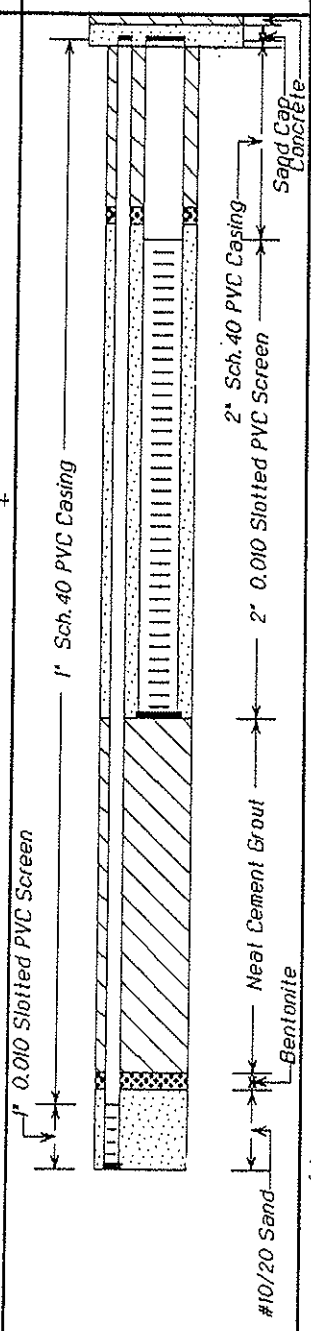
DRILLING METHOD: Hollow-Stem Auger (10"); logged from cuttings

DRILLING COMPANY: Geotech Exploration

CASING ELEVATION:

LOGGED BY: G.B.L.

APPROVED BY: Al Sevilla

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							8" concrete underlain with wood debris and compacted crushed rock (fill)
			6			OH	silty organic soils: brown.
			12			SM	silty SAND: gray brown, damp, dense; fine- to medium-grained sand; minor gravel to 1/2-inch-diameter.
	300+		18				Same: at 15 feet, damp, more dense; fine-grained sand; increased silt.
			24				
			30				
			36				Boring terminated at 36 feet.



ALISTO ENGINEERING GROUP
TUKWILA, WASHINGTON

LOG OF BORING CW-3

Page 1 of 1

SEE SITE PLAN

ALISTO PROJECT NO: 20-007-03

DATE DRILLED: 07/25/98

CLIENT: BP Oil Company

LOCATION: 4580 Fauntleroy Way S.W., Seattle, Washington

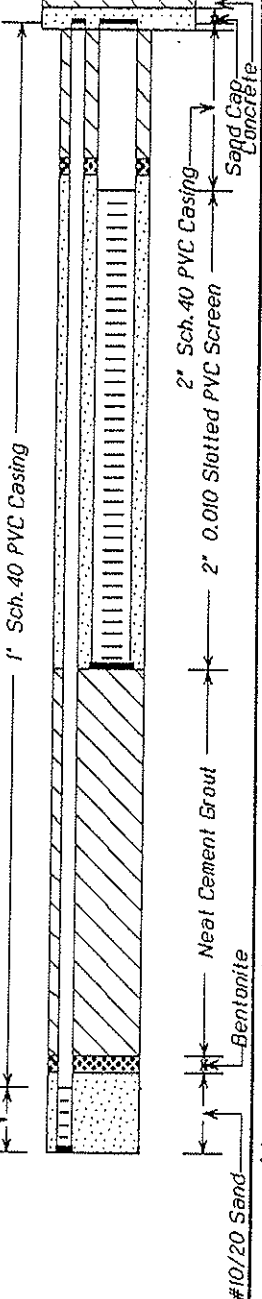
DRILLING METHOD: Hollow-Stem Auger (10"); logged by cuttings

DRILLING COMPANY: Geotech Exploration

CASING ELEVATION:

LOGGED BY: G.B.L.

APPROVED BY: Al Sevilla

BLOWS/6 IN.	PTD VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							8" concrete underlain by 2 feet of crushed rock (fill)
			0			SM	silty SAND: gray, moist, compact; fine- to medium-grained sand; minor gravel up to 1/2-inch-diameter.
			12				
			18				
			24				
			30			SW	SAND: gray, damp, very dense; less silt.
			36				Boring terminated at 36 feet.



LOG OF BORING CW-4

SEE SITE PLAN

ALISTO PROJECT NO: 20-007-03

DATE DRILLED: 07/25/98

CLIENT: BP Oil Company

LOCATION: 4580 Fauntleroy Way S.W., Seattle, Washington

DRILLING METHOD: Hollow-Stem Auger (10"); logged by cuttings

DRILLING COMPANY: Geotech Exploration

CASING ELEVATION:

LOGGED BY: G.B.L.

APPROVED BY: Al Sevilla

BLOWS/6 IN.

PTD VALUES

WELL DIAGRAM

DEPTH
feet

SAMPLES

GRAPHIC LOG

SOIL CLASS

GEOLOGIC DESCRIPTION

8" concrete underlain by 12" of crushed rock (fill)

Sand and building debris; large cobbles up to 8- to 8-inches-diameter.

silty SAND: gray, moist, dense; fine- to medium-grained sand; minor gravel up to 1/2-inch-diameter.

silty SAND: gray brown, moist, dense; plastic.

Same: at 23 feet, very dense.

Boring terminated at 38 feet.



ALISTO ENGINEERING GROUP
TUKWILA, WASHINGTON

LOG OF BORING CW-5

Page 1 of 1

SEE SITE PLAN

ALISTO PROJECT NO: 20-007-03

DATE DRILLED: 07/25/98

CLIENT: BP Oil Company

LOCATION: 4580 Fauntleroy Way S.W., Seattle, Washington

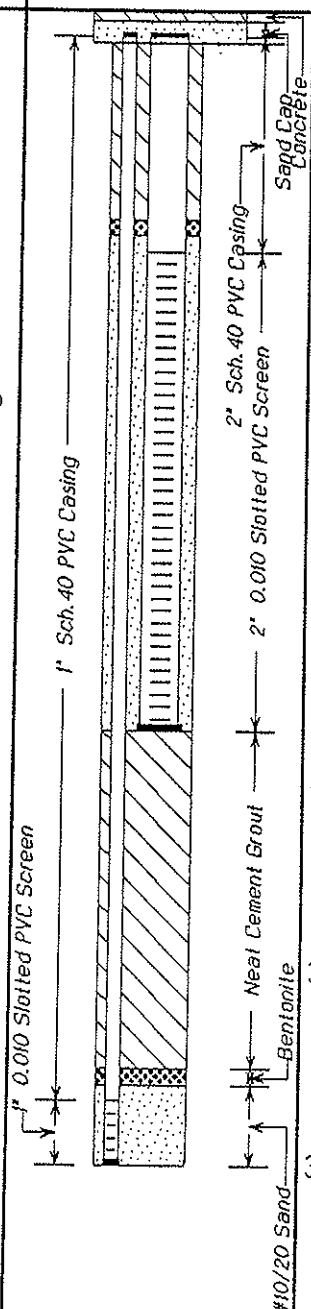
DRILLING METHOD: Hollow-Stem Auger (10"); logged by cuttings

DRILLING COMPANY: Geotech Exploration

CASING ELEVATION:

LOGGED BY: G.B.L.

APPROVED BY: Al Sevilla

BLOWS/6 IN.	PTD VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							10" concrete underlain by 6" of crushed rock (fill)
	30		6			GW	Pea Gravel (fill)
	150		12			SW	SAND: gray; well graded (fill).
			18			SM	silty SAND: gray brown; fine- to medium-grained sand; minor gravel to 1/2-inch-diameter; progressively more silty material.
			24				
			30				
			36				Boring terminated at 36 feet.



ALISTO ENGINEERING GROUP
TUKWILA, WASHINGTON

LOG OF BORING CW-6

Page 1 of 1

SEE SITE PLAN

ALISTO PROJECT NO: 20-007-03

DATE DRILLED: 07/24/96

CLIENT: BP Oil Company

LOCATION: 4580 Fauntleroy Way S.W., Seattle, Washington

DRILLING METHOD: Hollow-Stem Auger (10"); logged by cuttings

DRILLING COMPANY: Geotech Exploration

CASING ELEVATION:

LOGGED BY: G.B.L.

APPROVED BY: Al Sevilla

BLOWS/6 IN.

PTD VALUES

WELL DIAGRAM

DEPTH
feet

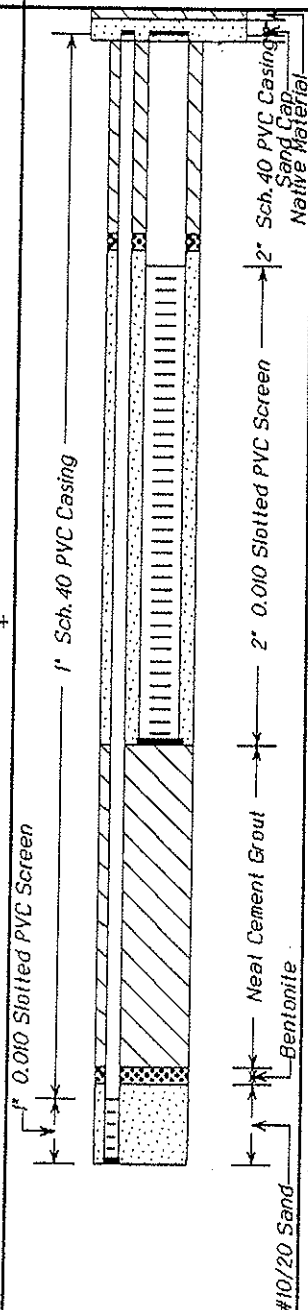
SAMPLES

GRAPHIC LOG

SOIL CLASS

GEOLOGIC DESCRIPTION

300+



2" Sch. 40 PVC Casing
Sand Cap
Native Material
2" 0.010 Slotted PVC Screen
Neat Cement Grout
Bentonite
#10/20 Sand

Pt
SM

PEAT: brown; organic and silty soils.

silty SAND: gray, damp; fine- to medium-grained sand; minor gravel up to 1/2-inch-diameter.

Same: at 25 feet, more dense.

Boring terminated at 36 feet.



ALISTO ENGINEERING GROUP
TUKWILA, WASHINGTON

LOG OF BORING SP-2

Page 1 of 1

SEE SITE PLAN

ALISTO PROJECT NO: 20-007-03

DATE DRILLED: 07/25/96

CLIENT: BP Oil Company

LOCATION: 4580 Fauntleroy Way S.W., Seattle, Washington

DRILLING METHOD: Hollow-Stem Auger (8"); logged by cuttings

DRILLING COMPANY: Geotech Exploration

CASING ELEVATION:

LOGGED BY: G.B.L.

APPROVED BY: Al Sevilla

BLOWS/6 IN.

PTD VALUES

WELL DIAGRAM

DEPTH
feet

SAMPLES

GRAPHIC LOG

SOIL CLASS

GEOLOGIC DESCRIPTION

8" concrete underlain by 12" of crushed rock (fill)

SM
silty SAND: gray; fine- to medium-grained sand; minor gravel to 1/2-inch-diameter.

Same: at 18 feet, increasing density.

Boring terminated at 36 feet.

50

2" 0.010 Slotted PVC Screen

2" Sch. 40 PVC

#10/20 Sand

Neat Cement

Bentonite Seal

Sand Cap
Concrete

PROJECT: BP Fauntleroy

W.O. W-8783-1 WELL NO.B-1/MW-1

Elevation reference:

Well completed: 06 May 1993

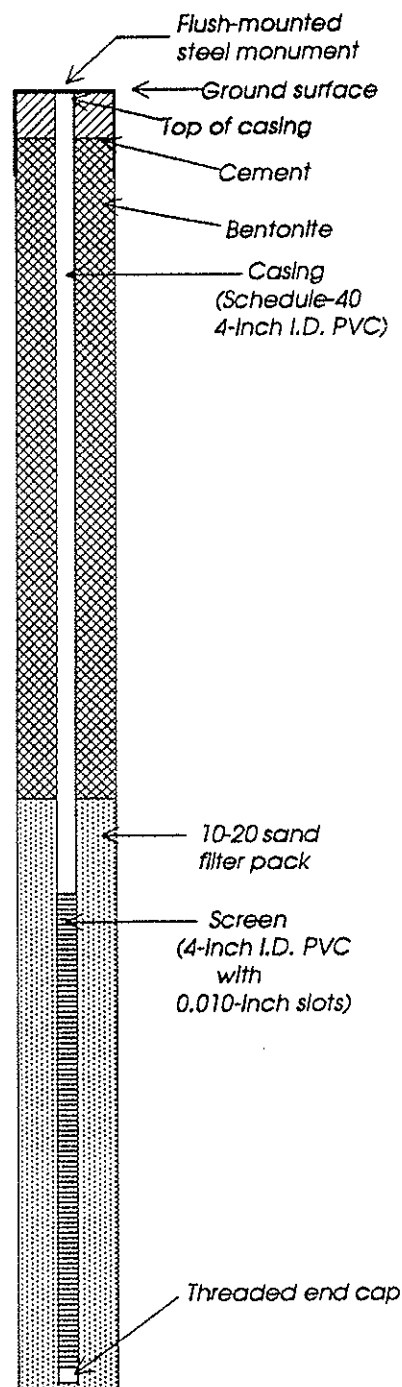
Ground surface elevation:

Casing elevation: 99.31 feet

AS-BUILT DESIGN

Page 1
of 1

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	TESTING
0	Concrete over very moist, gray, very fine sandy SILT with some gravel						
		X	S-1	5			
5							
	Loose, moist, gray, SILT with some gravel and very fine sand		S-2	5	0		
10							
	Loose, moist, red, SAND with some silt and trace of gravel		S-3	8	0		
15							
	Medium dense, moist, gray, fine to medium SAND with trace silt and gravel		S-4	24	0		
20							
	Medium dense to slightly dense, wet, gray to mottled limonite brown orange, fine SAND with trace silt interbedded with SAND with some silt		S-5	19	0		
25							
	Medium dense to slightly dense, saturated, gray to mottled, very fine SAND with trace silt		S-6	25	2		
	Bottom of boring at 27.5 feet.						
30							



LEGEND

 2-inch O.D.
split-spoon sample

 Observed groundwater level
ATD = at time of drilling

Sample not recovered

RZA AGRA, Inc.
Geotechnical & Environmental Group
11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started:

06 May 1993

Drilling completed:

06 May 1993

Logged by:

JC

PROJECT: BP Fauntleroy

W.O. W-8783-1 WELL NO.B-2/MW-2

Elevation reference:

Well completed: 07 May 1993

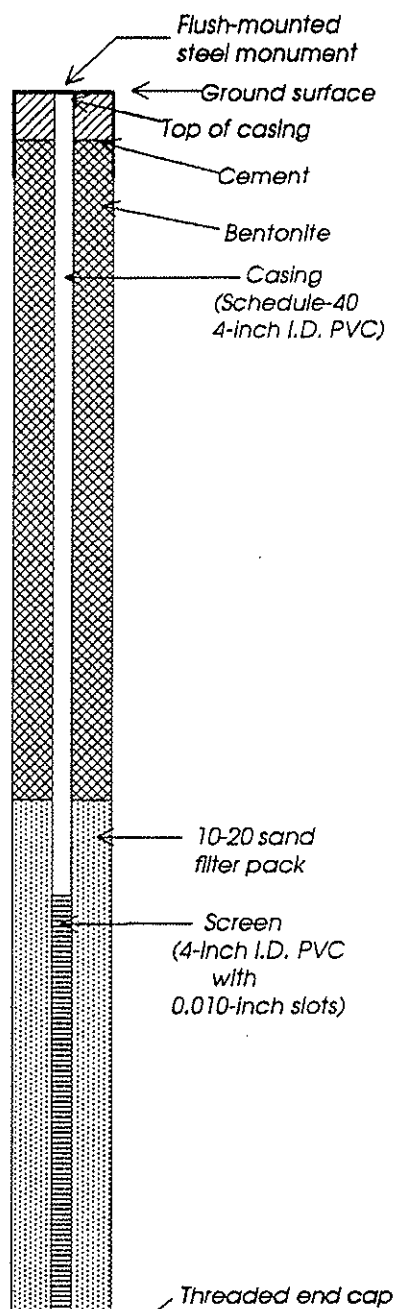
Ground surface elevation:

Casing elevation: 98.73 feet

AS-BUILT DESIGN

Page 1
of 1

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	QVM READING	GROUND WATER	TESTING
0	Concrete						
	Loose, gray-brown, silty, gravelly SAND (Fill)						
	Loose, moist, tan, silty CLAY with some organics	S-1	5	0			
5							
	Loose, moist, gray, sandy SILT with trace gravel to tan silty CLAY						
	Loose, moist, reddish-brown mottled, silty SAND with some gravel	S-2	9	0			
10							
	Loose, moist, mottled gray-brown (except where stained black), silty SAND with some clay	S-3	7	5			
15							
	Medium dense, moist, olive gray-green mottled gray, fine sandy SILT with trace gravel	S-4	25	1			
	Medium dense, moist to wet, mottled gray and orange brown, medium SAND with some silt and trace gravel	S-5	27	539			
20							
	Medium dense, moist to wet, gray mottled orange brown, silty SAND with some clay	S-6	18	338			
	Very dense, moist to wet, gray mottled orange brown, silty SAND with trace gravel and clay	S-7	61	73			
25							
	Bottom of boring at 27.5 feet.						
30							



LEGEND

2-inch O.D.
split-spoon sample

RZA AGRA, Inc.
Geotechnical & Environmental Group

11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started:

07 May 1993

Drilling completed:

07 May 1993

Logged by:

JC

PROJECT: BP Fauntleroy

W.O. W-8783-1 WELL NO.B-3/MW-4

Elevation reference:

Well completed: 07 May 1993

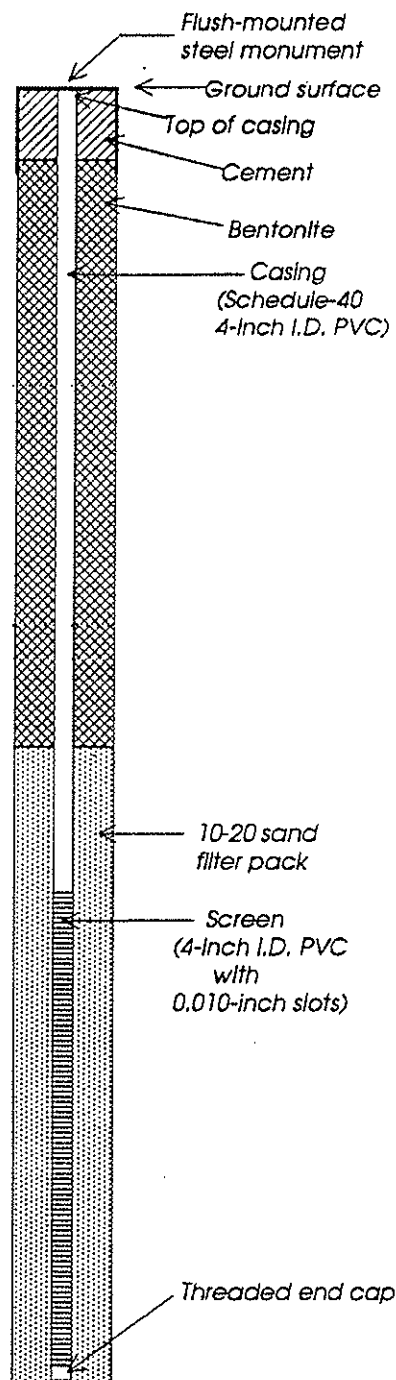
Ground surface elevation:

Casing elevation: 99.77 feet

AS-BUILT DESIGN

Page 1
of 1

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	QVM READING	GROUND WATER	TESTING
0	Concrete over moist, gray, SAND with some silt and gravel and wood fragments						
	Medium dense, moist, gray, clayey SILT with varying sand	I	S-1	8	375		
5							
	Same as above with sand pockets	I	S-2	7	16		
10							
		X	S-3	6			
15							
	Very dense, moist, brown-gray, fine to medium SAND with trace to some silt and trace gravel	I	S-4	82	852		
20							
	Dense, saturated, gray mottled redish brown, medium SAND grading in to and interbedded with brown, sandy SILT	I	S-5	35	618	ATD	
25							
	Dense, saturated, gray stained orange in fine layers, very fine SAND with trace silt	I	S-6	31	111		
	Bottom of boring at 27.5 feet.						
30							



LEGEND

I 2-inch O.D.
split-spoon sample

X Sample not recovered

RZA AGRA, Inc.
Geotechnical & Environmental Group11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

Drilling started: 07 May 1993

Drilling completed: 07 May 1993

Logged by: JC

Elevation reference:

Well completed: 07 May 1993

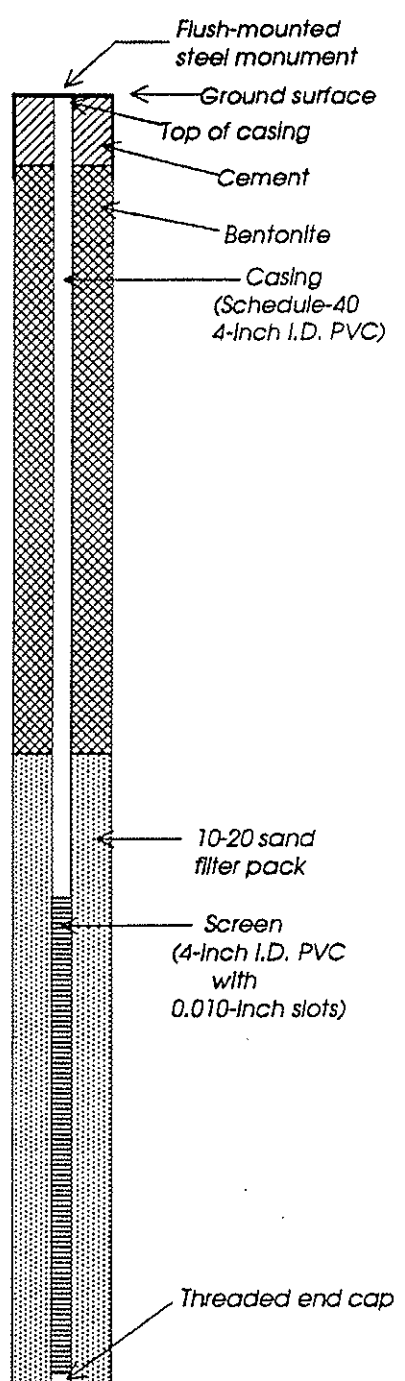
Ground surface elevation:

Casing elevation: 100.31 feet

AS-BUILT DESIGN

Page 1
of 1

DEPTH (feet)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	BLOW COUNTS	OVM READING	GROUND WATER	TESTING
0	Concrete over moist, brown, silty SAND with some gravel (Fill)						
5	Loose, moist, gray mottled orange, CLAY with some silt and veins of medium sand		S-1	9	0		
10	Same as above with trace to some gravel		S-2	7	0		
15	Loose, moist to wet, gray-black, mixed sandy SILT and silty CLAY with trace gravel		S-3	10	31		
	Same as above not stained black, moist		S-4	23	648		
20	Medium dense, moist to wet, gray-brown, very fine SAND		S-5	32	560		
25	Dense, wet, tan-gray with spots of gray, very fine SAND with trace silt		S-6	35	35		
	Same as above saturated		S-7	45	1		
30	Bottom of boring at 27.5 feet.						



Flush-mounted steel monument

Ground surface

Top of casing

Cement

Bentonite

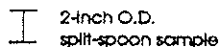
Casing (Schedule-40 4-inch I.D. PVC)

10-20 sand filter pack

Screen (4-inch I.D. PVC with 0.010-inch slots)

Threaded end cap

LEGEND



RZA AGRA, Inc.
Geotechnical & Environmental Group

11335 NE 122nd Way, Suite 100
Kirkland, Washington 98034-6918

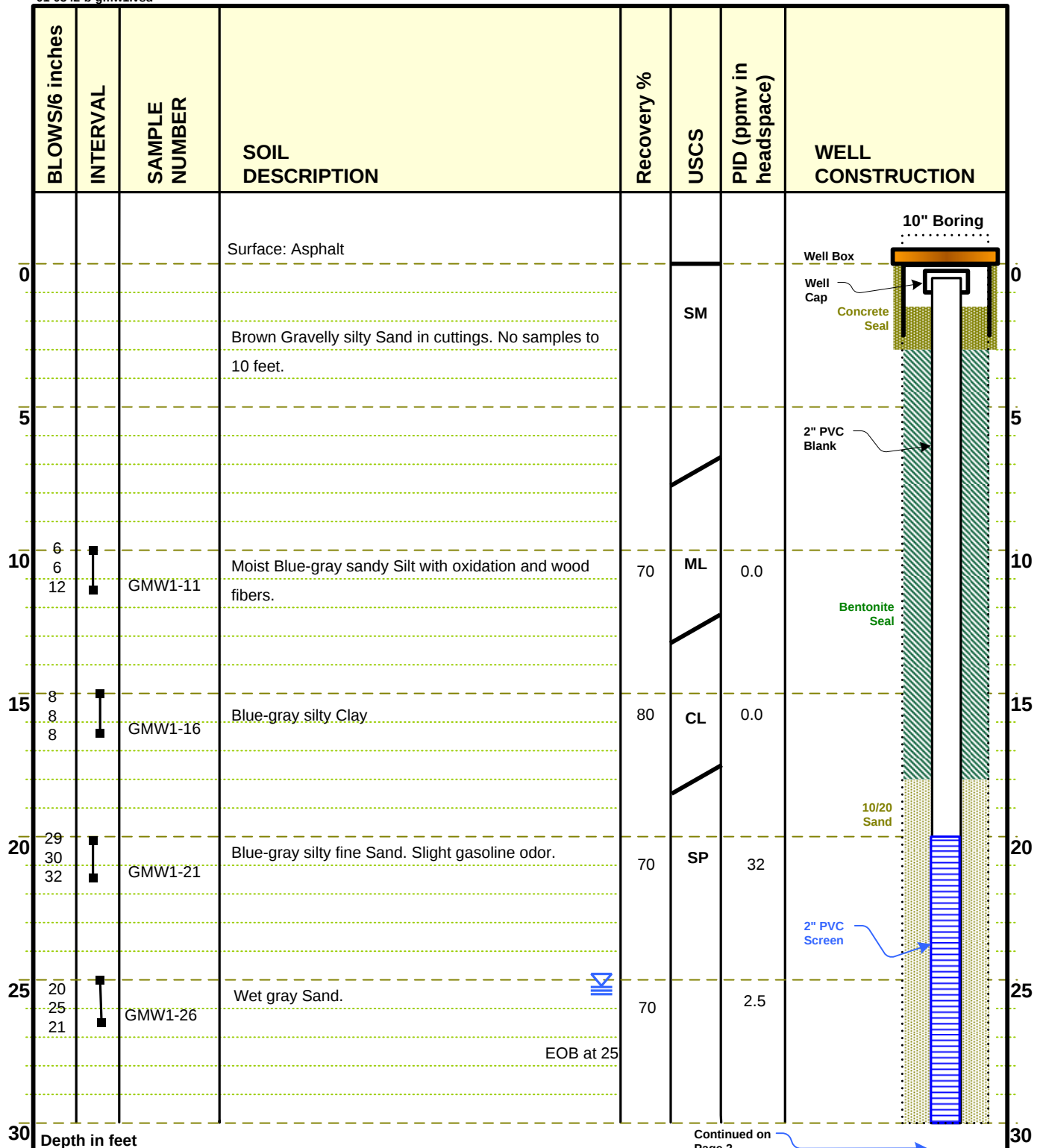
Drilling started:

07 May 1993

Drilling completed:

07 May 1993

Logged by: JC



Drilling Method: Hollow-stem auger

Date: 12-21-07

Other Information:

Drilling Company: Cascade Drilling

Weather:

Boring Diameter: 2.5 inch Sampler

Page 1 of 2

Logged By: Rob Roberts



Boring/Well Log
Huling Site C
4550 Fauntleroy Way SW
Seattle, WA

GMW-1

Date Start/Finish: 1/25/2012-1/26/2012
Drilling Company: Cascade Drilling Inc.
Driller's Name: James
Drilling Method: Hollow Stem Auger
Auger Size: 12"
Rig Type: Hollow Stem Auger
Sampling Method: Sleeve

Northing: NM
Easting: NM
Casing Elevation: NM

Borehole Depth: 31.5 ft.
Surface Elevation: NM

Descriptions By: Samuel Miles

Well/Boring ID: EW-1
Client: BP West Coast Products LLC

Location: 4580 Fauntleroy Way SW
 Seattle, WA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								Concrete	Steel Monument Locking J-Plug
5	-5		5.0-6.0	5.0-6.0	AK	D	8.7		Silty sand, fine to medium sand, low plasticity, brown, no HCLO.	
10	-10		10.0-11.5	10.0-11.5	8 6 8	D	8.1		Sandy silt, fine to medium sand, medium plasticity, grey/brown, no HCLO.	Concrete 6" Schedule 80 PVC Well Casing
15	-15		15.0-16.5	15.0-16.5	20 20 26	D	>800		Fine to medium sand with trace gravel and silt, low plasticity, grey, HCLO.	
20	-20		20.0-21.5	20.0-21.5	20/6 50/6	M	>800			
25	-25		25.0-26.5	25.0-26.5	21/20	W	>500		Silty sand, fine to medium sand, non plastic, grey/brown, HCLO.	6" Stainless Steel 0.020" Wire-Wrapped Screen # 10/20 Sand First Encountered Groundwater
30	-30		30.0-31.5	30.0-31.5	21 16 18	W	>400		Silty sand, fine to medium sand, non plastic, grey/brown, HCLO.	6" Schedule 80 PVC Sump
									End of boring @ 31.5'	



Remarks: D = Dry
 HCLO = Hydrocarbon-like Odor
 M = Moist
 NM = Not Measured
 OD = Outer Diameter
 Analytical Samples:
 EW-1-15'
 EW-1-30'

ft. = feet
 LNAPL = Light Non-Aqueous Phase Liquid
 NA = Not Applicable/Available
 NR = No Recovery
 W = Wet

 EW-1-25'

Date Start/Finish: 1/23/2012-1/24/2012
Drilling Company: Cascade Drilling Inc.
Driller's Name: James
Drilling Method: Hollow Stem Auger
Auger Size: 12"
Rig Type: Hollow Stem Auger
Sampling Method: Sleeve

Northing: NM
Easting: NM
Casing Elevation: NM

Borehole Depth: 31.5 ft.
Surface Elevation: NM

Descriptions By: Samuel Miles

Well/Boring ID: EW-2

Client: BP West Coast Products LLC

Location: 4580 Fauntleroy Way SW
 Seattle, WA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								Concrete	Steel Monument Locking J-Plug
5	-5		5.0-6.0	5.0-6.0	AK	D	3.7		Silty sand, fine to medium sand, low plasticity, brown, no HCLO.	Concrete 6" Schedule 80 PVC Well Casing
10	-10		10.0-11.5	10.0-11.0	3 4 5	D	7.4		Silty sand, fine to medium sand, low plasticity, brown, no HCLO.	
15	-15		15.0-16.5	15.0-16.5	8 10 11	D	>500		Silty sand, fine to medium sand, low plasticity, brown, strong HCLO.	
20	-20		20.0-21.5	20.0-21.5	18 26 22	M	>500		Medium sand with trace silt, low plasticity, some cobbles, brown, HCLO.	
25	-25		25.0-26.5	25.0-26.5	16 19 25	W	164.1		Sandy silt, medium plasticity, brown/grey, HCLO.	6" Stainless Steel 0.020" Wire-Wrapped Screen # 10/20 Sand First Encountered Groundwater
30	-30		30.0-31.5	30.0-31.5	19 22 22	W	20.4		Silty sand, fine sand, low plasticity, brown, no HCLO.	6" Schedule 80 PVC Sump
									End of boring @ 31.5'	



Remarks: D = Dry
 HCLO = Hydrocarbon-like Odor
 M = Moist
 NM = Not Measured
 OD = Outer Diameter
 Analytical Samples:
 EW-2-10'
 EW-2-30'

ft. = feet
 LNAPL = Light Non-Aqueous Phase Liquid
 NA = Not Applicable/Available
 NR = No Recovery
 W = Wet

 EW-2-15'

Date Start/Finish: 1/24/2012-1/25/2012
Drilling Company: Cascade Drilling Inc.
Driller's Name: James
Drilling Method: Hollow Stem Auger
Auger Size: 12"
Rig Type: Hollow Stem Auger
Sampling Method: Sleeve

Northing: NM
Easting: NM
Casing Elevation: NM

Borehole Depth: 31.5 ft.
Surface Elevation: NM

Descriptions By: Samuel Miles

Well/Boring ID: EW-3
Client: BP West Coast Products LLC

Location: 4580 Fauntleroy Way SW
 Seattle, WA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								Concrete	Steel Monument Locking J-Plug
5	-5		5.0-6.0	5.0-6.0	AK	D	6.3		Silty sand, fine to medium sand, low plasticity, gray brown, no HCLO.	
10	-10		10.0-11.5	10.0-11.5	6 6 7	D	5.7		Silty sand, fine to medium sand, some gravel, low plasticity, grey/brown, no HCLO.	Concrete 6" Schedule 80 PVC Well Casing
15	-15		15.0-16.5	15.0-16.5	10 12 10	D	10.1		Silty sand, fine sand, some gravel, medium plasticity, grey/brown.	
20	-20		20.0-21.5	20.0-21.5	50/6	D	>800		Fine to medium sand with some gravel, low plasticity, grey/brown, HCLO.	
25	-25		25.0-26.5	25.0-26.5	31 30 30	MW	>150		Medium sand with trace silt, grey/brown, HCLO.	6" Stainless Steel 0.020" Wire-Wrapped Screen # 10/20 Sand First Encountered Groundwater
30	-30		30.0-31.5	30.0-31.5	36 50/6	W	51.4		Silty sand, fine sand, low plasticity, brown, HCLO.	6" Schedule 80 PVC Sump
									End of boring @ 31.5'	



Remarks: D = Dry
 HCLO = Hydrocarbon-like Odor
 M = Moist
 NM = Not Measured
 OD = Outer Diameter
 Analytical Samples:
 EW-3-15'
 Dup-2

ft. = feet
 LNAPL = Light Non-Aqueous Phase Liquid
 NA = Not Applicable/Available
 NR = No Recovery
 W = Wet

 EW-3-20'
 EW-3-30'

Date Start/Finish: 1-23-12
Drilling Company: Cascade Drilling Inc.
Driller's Name: James
Drilling Method: Hollow Stem Auger
Auger Size: 8"
Rig Type: Hollow Stem Auger
Sampling Method: 16-Inch Split-Spoon

Northing: NM
Easting: NM
Casing Elevation: NM

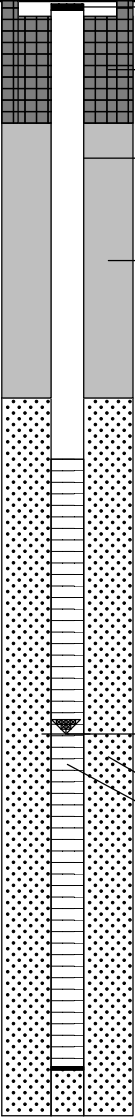
Borehole Depth: 36.5 ft.
Surface Elevation: NM

Descriptions By: Samuel Miles

Well/Boring ID: MW-10

Client: BP West Coast Products LLC

Location: WA-11060
 4580 Fauntleroy Way SW
 Seattle, WA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0									
									Concrete	 Locking J-Plug Concrete 2" Sch. 40 PVC well casing Bentonite chips First Encountered Groundwater # 2/12 Sand 2" Sch. 40 PVC screen
									Crushed rock with silt.	
5	-5		5.0-6.0	5.0-6.0	AK	M	NA		Silty sand, fine to medium sand, low plasticity.	
10	-10		10.0-11.5	10.0-11.0	50/6	M	2.4		Woody debris.	
									Fine to medium sand with silt, low plasticity, grey/brown.	
15	-15		15.0-16.5	15.0-16.5	50/6	D	27		Silty sand, fine to medium sand, low plasticity, grey.	
20	-20		20.0-21.5	20.0-21.5	50/6	M	3.6		Silty sand, fine sand, low plasticity, orange/grey.	
25	-25		25.0-26.5	25.0-26.5	50/6	M	0.7		Silty sand, fine to medium sand, low plasticity, orange/grey.	
30	-30		30.0-31.5	30.0-31.5	50/5	M	1.1		Silty sand, fine to medium sand, low plasticity, orange/grey.	
35	-35		35.0-36.5	35.0-36.5	50/6	W	0.3		Sandy silt, fine sand, low plasticity, grey/brown.	
									End of boring @ 36.5'	



Remarks: D = Dry
 HCLO = Hydrocarbon-like Odor
 M = Moist
 NM = Not Measured
 OD = Outer Diameter
 Analytical Samples:
 MW-10-15'
 MW-10-25'

ft. = feet
 LNAPL= Light Non-Aqueous Phase Liquid
 NA = Not Applicable/Available
 NR = No Recovery
 W = Wet

 MW-10-20'
 MW-10-35'

Date Start/Finish: 1-23-12 Drilling Company: Cascade Drilling Inc. Driller's Name: James Drilling Method: Hollow Stem Auger Auger Size: 8" Rig Type: Hollow Stem Auger Sampling Method: Sleeve	Northing: NM Easting: NM Casing Elevation: NM Borehole Depth: 41.5 ft Surface Elevation: NM Descriptions By: Samuel Miles	Well/Boring ID: SB-1 Client: BP West Coast Products LLC Location: 4580 Fauntleroy Way SW Seattle, WA
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0									
5	-5		5.0-6.0	5.0-6.0	AK	D	0.4		Concrete	 Concrete
10	-10		10.0-11.5	10.0-11.5	8 12 12	D	2.1		Medium sand with trace silt, grey/brown, dry, low plasticity.	
15	-15		15.0-16.5	15.0-16.5	14 14 15	D	>400		Silt with fine sand, medium plasticity, grey/brown.	
20	-20		20.0-21.5	20.0-21.5	14 16 17	D	>200		Sandy silt, fine sand, non plastic, brown.	
25	-25		25.0-26.5	25.0-26.5	15 14 15	M/W	8.1		Fine to medium sand with trace silt, grey/brown, non plastic, strong HCLO.	
30	-30		30.0-31.5	30.0-31.5	50/5	W	14.4		Fine to medium sand with trace silt, brown, non plastic, HCLO.	 Bentonite
35	-35		35.0-36.0	35.0-36.5	24 50/6	W	>50		Sandy silt, fine sand, non plastic, brown.	 First Encountered Groundwater
40	-40		40.0-41.5	40.0-41.5	37 50/6	W	4.9		Sandy silt, fine to medium sand, non plastic, brown, no HCLO.	
									Sandy silt, fine to medium sand, non plastic, brown, slight HCLO.	
									Sandy silt, fine sand, grey/brown.	
									End of boring @ 41.5'	

	Remarks: D = Dry HCLO = Hydrocarbon-like Odor M = Moist NM = Not Measured OD = Outer Diameter Analytical Sample: Dup-1 SB-1-35' ft. = feet LNAPL= Light Non-Aqueous Phase Liquid NA = Not Applicable/Available NR = No Recovery W = Wet SB-1-15' SB-1-25' SB-1-40'
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Date Start/Finish: 1-23-12 & 1-24-12 Drilling Company: Cascade Drilling Inc. Driller's Name: James Drilling Method: Hollow Stem Auger Auger Size: 8" Rig Type: Hollow Stem Auger Sampling Method: Sleeve	Northing: NM Easting: NM Casing Elevation: NM Borehole Depth: 41.5 ft. Surface Elevation: NM Descriptions By: Samuel Miles	Well/Boring ID: SB-2 Client: BP West Coast Products LLC Location: 4580 Fauntleroy Way SW Seattle, WA
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0									
								Concrete		Concrete
								Sandy silt, brown, medium plasticity, moist, no HCLO.		
5	-5		5.0-6.0	5.0-6.0	AK	D/M	1.5			
10	-10		10.0-11.5	10.0-11.5	6 6 8	D/M	1.4		Some gravel from 10-11 feet.	
								Medium sand with some silt, brown/grey, low plasticity.		
15	-15		15.0-16.5	15.0-16.5	6 10 12	D	8.5		Sandy silt with some gravel, medium plasticity, grey, dry.	
20	-20		20.0-21.5	20.0-21.5	17 20 20	D	>200		Fine to medium sand with some silt, non plasticity, grey/brown, dry, HCLO.	
25	-25		25.0-26.5	-	17 18 18	-	NA		No recovery.	
30	-30		30.0-31.5	-	50/5	-	NA		No recovery.	
35	-35		35.0-36.0	35.0-36.5	46 50/6	W	14.4		Silty sand, fine to medium sand, medium plasticity, grey/brown, wet.	
40	-40		40.0-41.5	40.0-41.5	40 56	W	8.7		Silty sand, fine to medium sand, medium plasticity, grey/brown, wet.	
									End of boring @ 41.5'	

	Remarks: D = Dry HCLO = Hydrocarbon-like Odor M = Moist NM = Not Measured OD = Outer Diameter Analytical Samples: SB-2-20'	ft. = feet LNAPL= Light Non-Aqueous Phase Liquid NA = Not Applicable/Available NR = No Recovery W = Wet SB-2-35'
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Date Start/Finish: 1-23-12 & 1-24-12 Drilling Company: Cascade Drilling Inc. Driller's Name: James Drilling Method: Hollow Stem Auger Auger Size: 8" Rig Type: Hollow Stem Auger Sampling Method: Sleeve	Northing: NM Easting: NM Casing Elevation: NM Borehole Depth: 51.5 Surface Elevation: NM Descriptions By: Samuel Miles	Well/Boring ID: SB-3 Client: BP West Coast Products LLC Location: 4580 Fauntleroy Way SW Seattle, WA
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								Concrete	Concrete
5	-5		5.0-6.0	5.0-6.0	AK	M	58.9		Sandy silt, very fine sand, medium plasticity, grey with brown streaks, HCLO.	
10	-10		10.0-11.5	10.0-11.5	5 5 6	M	3.1		Silty sand, fine to medium sand, low plasticity, grey, woody debris.	
15	-15		15.0-16.5	15.0-16.5	14 12 14	M	8.7		Silt with some fine sand, low plasticity, grey with brown streaks, some woody debris.	
20	-20		20.0-21.5	20.0-21.5	16 19 20	M	>79.9		Medium sand, trace silt, grey, HCLO, no plasticity.	
25	-25		25.0-26.5	25.0-26.5	27/56	M	>250		Medium sand, trace silt, grey, HCLO, no plasticity.	First Encountered Groundwater
30	-30		30.0-31.5	30.0-31.5	24 29 30	W	>89.2		Silty sand, very fine, no plasticity, grey, HCLO.	Bentonite
35	-35		35.0-36.0	35.0-36.5	34	W	>50.0		Silty sand, very fine, no plasticity, grey/brown, HCLO.	
40	-40		40.0-41.5	40.0-41.5	30 50	M	>87.0		Silt with trace sand, brown, chalky.	
45	-45		45.0-46.5	45.0-46.5	31 30 30	W/M	70.9		Very fine sand with silt, low plasticity, grey.	
50	-50		50.0-51.5	50.0-51.5	21 25 20	W/M	40.7		Very fine sand with silt, low plasticity, grey.	
									End of boring @ 51.5'	

	Remarks: D = Dry HCLO = Hydrocarbon-like Odor M = Moist NM = Not Measured OD = Outer Diameter Analytical Sample: SB-3-5' SB-3-20'	ft. = feet LNAPL= Light Non-Aqueous Phase Liquid NA = Not Applicable/Available NR = No Recovery W = Wet SB-3-10' SB-3-50'
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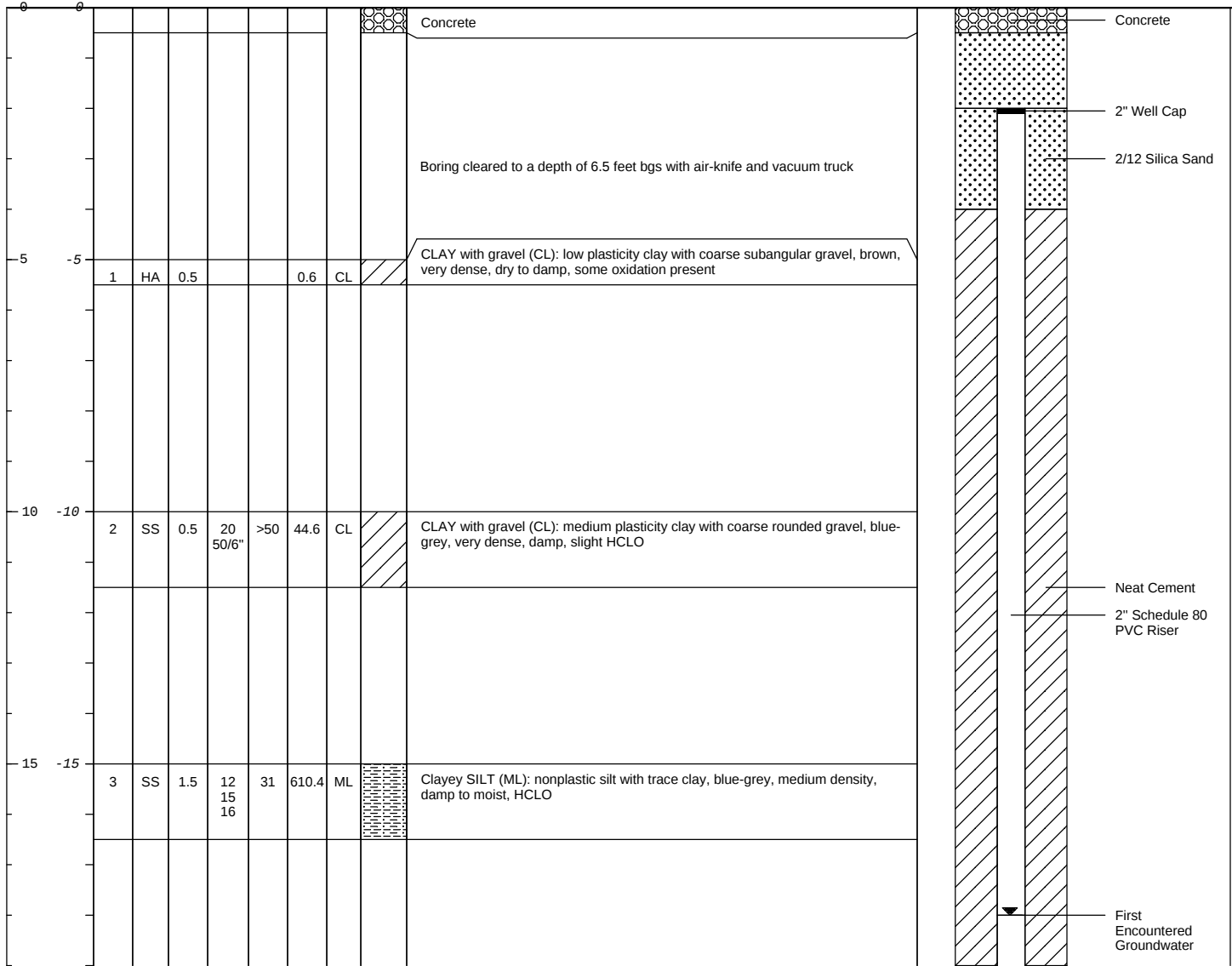
Date Start/Finish: 1-23-12 & 1-24-12 Drilling Company: Cascade Drilling Inc. Driller's Name: James Drilling Method: Hollow Stem Auger Auger Size: 8" Rig Type: Hollow Stem Auger Sampling Method: Sleeve	Northing: NM Easting: NM Casing Elevation: NM Borehole Depth: 36.5 ft. Surface Elevation: NM Descriptions By: Samuel Miles	Well/Boring ID: SB-4 Client: BP West Coast Products LLC Location: 4580 Fauntleroy Way SW Seattle, WA
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	0								Concrete	Concrete
									Medium sand with some silt, brown.	
5	-5		5.0-6.0	5.0-6.0	AK	D	0.7		Sandy silt, fine sand, some plasticity, brown, no HCLO.	
10	-10		10.0-11.5	10.0-11.5	4 5 4	D	0.2		Sandy silt, fine sand, some gravel, medium plasticity, brown/grey, no HCLO.	
15	-15		15.0-16.5	15.0-16.5	16 21 20	D	>150		Fine to medium sand with trace silt, grey/brown, low plasticity, some HCLO.	
20	-20		20.0-21.5	20.0-21.5	15 21 31	M	7.8		Fine to medium sand with trace silt, some gravel, grey/brown, low plasticity, some HCLO.	Bentonite
25	-25		25.0-26.5	25.0-26.5	17 26 22	W	4.5		Silty sand, fine to medium sand, low plasticity, brown/grey.	First Encountered Groundwater
30	-30		30.0-31.5	30.0-31.5	27 30 30	W	0.5		Sandy silt, fine sand, low plasticity, brown, no HCLO.	
35	-35		35.0-36.0	35.0-36.5	21 22 20	W	0.3		Fine sand with silt, low plasticity, brown.	
									End of boring @ 36.5'	

	Remarks: D = Dry HCLO = Hydrocarbon-like Odor M = Moist NM = Not Measured OD = Outer Diameter Analytical Sample: SB-4-15' SB-4-35'	ft. = feet LNAPL= Light Non-Aqueous Phase Liquid NA = Not Applicable/Available NR = No Recovery W = Wet SB-4-20'
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Date Start/Finish: 6/9/2014 - 6/13/2014 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 8" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 29 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: AS-2 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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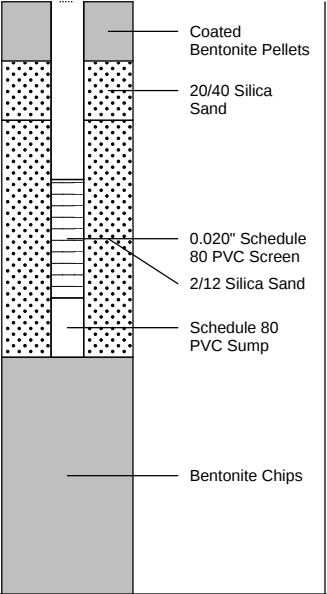
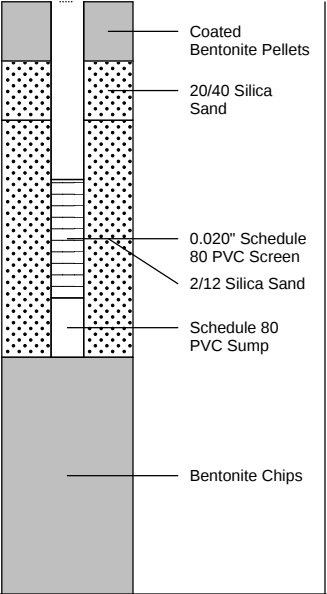
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface HA = Hand Auger NE = Not Established PID = Photoionization Detector ppm = parts per million HCLO = Hydrocarbon-like Odor SS = Split Spoon sample, 2" x 1.5' PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 6/9/2014 - 6/13/2014 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 8" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 29 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: AS-2 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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20	-20	4	SS	1.0	20 18 20	38	851.7	SW-SM		Silty SAND (SW-SM): well sorted fine to medium sand with little low plasticity silt, grey, dense, wet, HCLO	
		5	SS	1.0	20 35 30	65	258.3	SW-SM		Silty SAND (SW-SM): moderately well sorted fine to medium sand with little low to medium plasticity silt, grey-brown, dense, wet, HCLO	
25	-25	6	SS	1.0	45 50/6"	>50	12.3	SM		Silty SAND (SM): moderately well sorted fine to medium sand with low to medium plasticity silt, brown, very dense, wet	
											
		7	SS	1.0	30 50/5"	>50	18.3	SM		Silty SAND (SM): moderately well sorted medium sand with medium plasticity silt, brown, very dense, wet	

	Remarks: bgs = below ground surface ppm = parts per million HA = Hand Auger HCLO = Hydrocarbon-like Odor NE = Not Established SS = Split Spoon sample, 2" x 1.5' PID = Photoionization Detector PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 6/9/2014 - 6/13/2014
Drilling Company: Cascade Drilling
Driller's Name: Curtis Askew
Drilling Method: Hollow Stem Auger
Auger Size: 8" Outer Diameter
Rig Type:
Sampling Method: HA/SS

Northing: NE
Easting: NE
Casing Elevation: NE

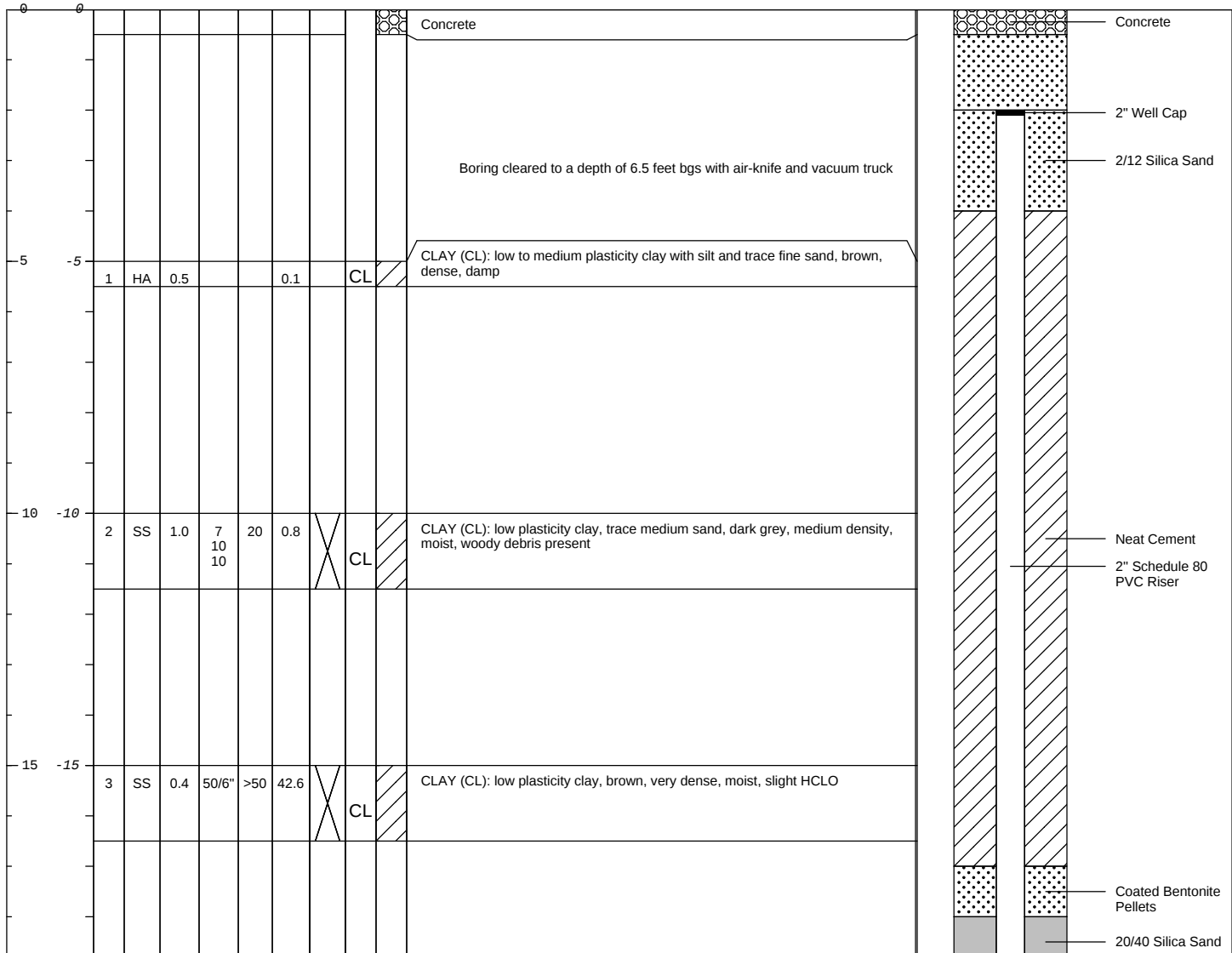
Borehole Depth: 26.5 feet bgs
Surface Elevation: NE

Descriptions By: Ryan Brauchla

Well/Boring ID: AS-3
Client: BP West Coast Products, LLC.

Location: Former ARCO 11060, Shell Station,
 4580 Fauntleroy Way SW
 Seattle, WA 98116

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Remarks: bgs = below ground surface ppm = parts per million
 HA = Hand Auger HCLO = Hydrocarbon-like Odor
 NE = Not Established SS = Split Spoon sample, 2" x 1.5'
 PID = Photoionization Detector PVC = Polyvinyl Chloride

 Traffic rate well vault to be installed at later date

Date Start/Finish: 6/9/2014 - 6/13/2014 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 8" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 26.5 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: AS-3 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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20	-20	4	SS	1.2	27 31 40	71	867.7	X	SW		SAND (SW): well sorted medium sand with trace silt, brown-grey, dense, moist, strong HCLO	
		5	SS	1.5	21 30 34	64	1,838		ML		Sandy SILT (ML): low plasticity silt with medium sand, grey, dense, damp, HCLO	
25	-25	6	SS	1.0	1 1 1	2	349.7	X	ML		Sandy SILT (ML): low plasticity silt with medium sand, grey, soft, wet, HCLO with visible product encountered at 26 ft bgs	

0.020" Schedule 80 PVC Screen

2/12 Silica Sand

Schedule 80 PVC Sump

First Encountered Groundwater

Bentonite Pellets

ARCADIS Infrastructure · Water · Environment · Buildings	Remarks: bgs = below ground surface ppm = parts per million HA = Hand Auger HCLO = Hydrocarbon-like Odor NE = Not Established SS = Split Spoon sample, 2" x 1.5' PID = Photoionization Detector PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 6/9/2014 - 6/10/2014 - 6/11/2014
Drilling Company: Cascade Drilling
Driller's Name: Curtis Askew
Drilling Method: Hollow Stem Auger
Auger Size: 8" Outer Diameter
Rig Type:
Sampling Method: HA/SS

Northing: NE
Easting: NE
Casing Elevation: NE

Borehole Depth: 29 feet bgs
Surface Elevation: NE

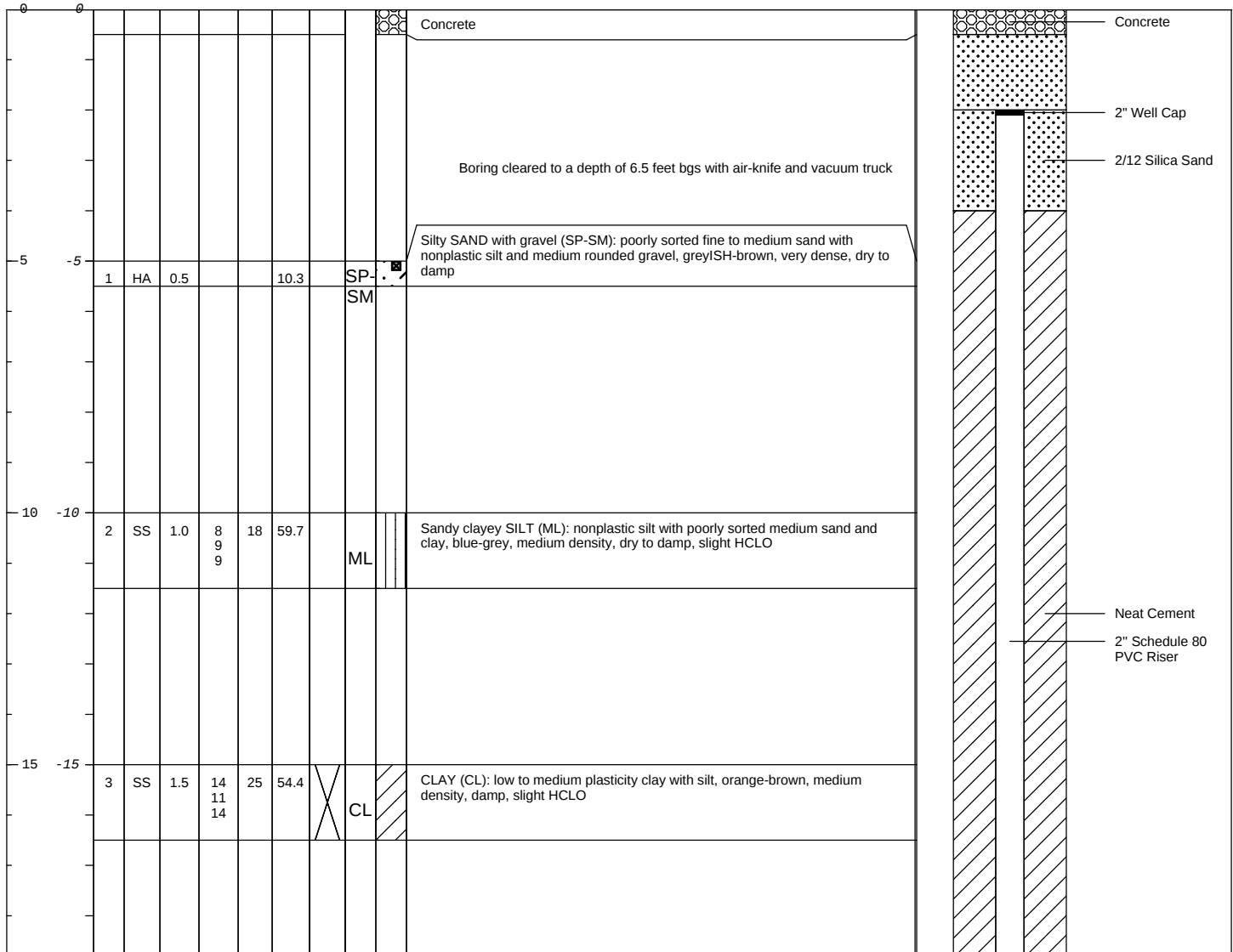
Descriptions By: Ryan Brauchla

Well/Boring ID: AS-4

Client: BP West Coast Products, LLC.

Location: Former ARCO 11060, Shell Station,
 4580 Fauntleroy Way SW
 Seattle, WA 98116

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Remarks: bgs = below ground surface ppm = parts per million
 HA = Hand Auger HCLO = Hydrocarbon-like Odor
 NE = Not Established SS = Split Spoon sample, 2" x 1.5'
 PID = Photoionization Detector PVC = Polyvinyl Chloride

 Traffic rate well vault to be installed at later date

Date Start/Finish: 6/9/2014 - 6/10/2014 - 6/11/2014 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 8" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 29 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: AS-4 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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20	-20	4	SS	1.0	50/6"	>50	1,468		SW		SAND (SW): well sorted medium sand with trace nonplastic silt, blue-grey, very dense, damp, HCLO	
		5	SS	1.0	30 50/5"	>50	835.9		SW		SAND (SW): well sorted medium sand with trace nonplastic silt, blue-grey, very dense, wet, HCLO	
25	-25	6	SS	0.4	75/4"	>75	1,270		SP		SAND with gravel (SP): poorly sorted sand with rounded coarse gravel and trace medium plasticity silt, blue-grey, very dense, wet, HCLO	
		7	SS	1.0	19 50/6"	>50	258.6		ML		SILT (ML): low plasticity silt, blue-grey, very dense, wet	

	Remarks: bgs = below ground surface ppm = parts per million HA = Hand Auger HCLO = Hydrocarbon-like Odor NE = Not Established SS = Split Spoon sample, 2" x 1.5' PID = Photoionization Detector PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 6/9/2014 - 6/10/2014 - 6/11/2014
Drilling Company: Cascade Drilling
Driller's Name: Curtis Askew
Drilling Method: Hollow Stem Auger
Auger Size: 8" Outer Diameter
Rig Type:
Sampling Method: HA/SS

Northing: NE
Easting: NE
Casing Elevation: NE

Borehole Depth: 26.5 feet bgs
Surface Elevation: NE

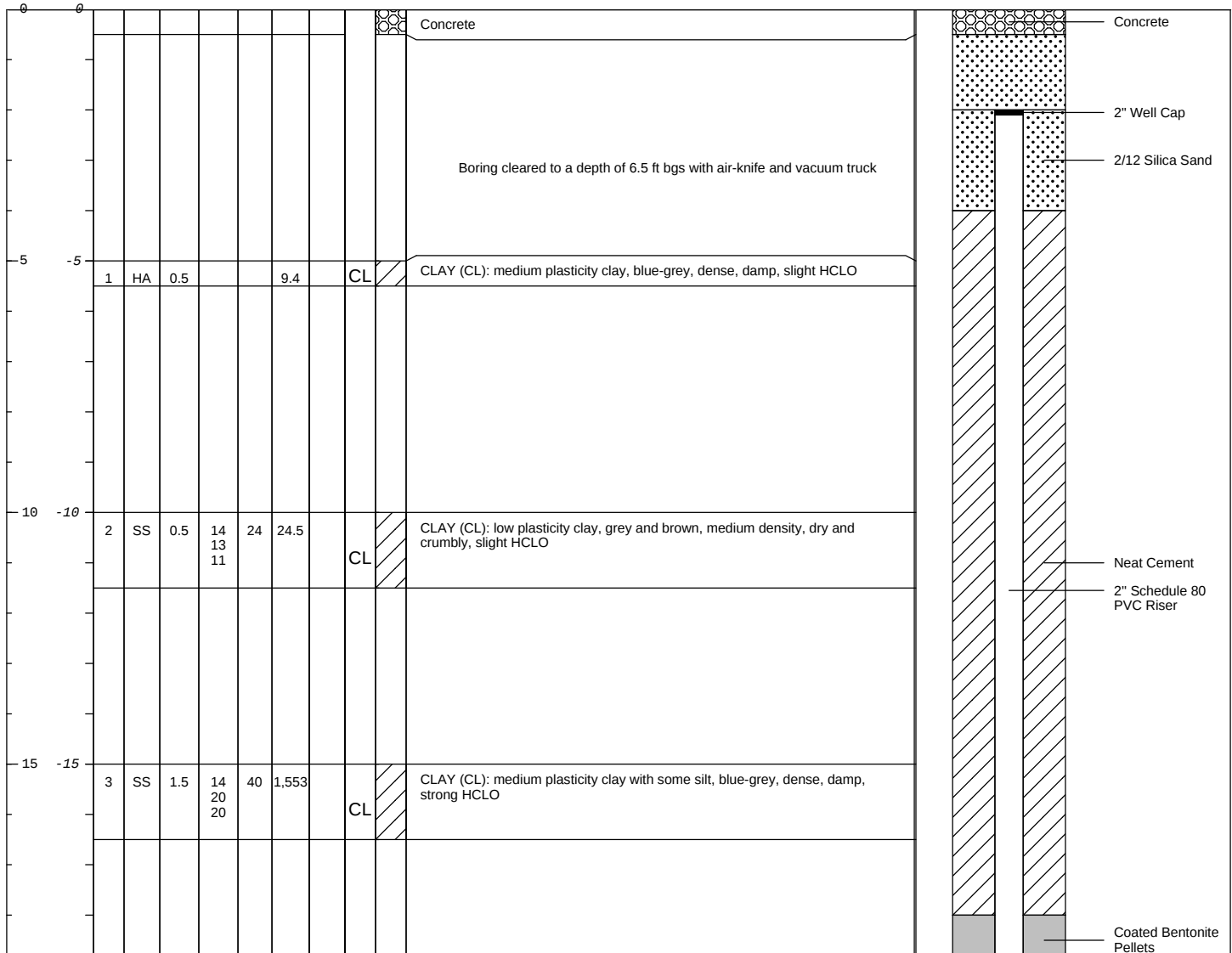
Descriptions By: Ryan Brauchla

Well/Boring ID: AS-5

Client: BP West Coast Products, LLC.

Location: Former ARCO 11060, Shell Station,
 4580 Fauntleroy Way SW
 Seattle, WA 98116

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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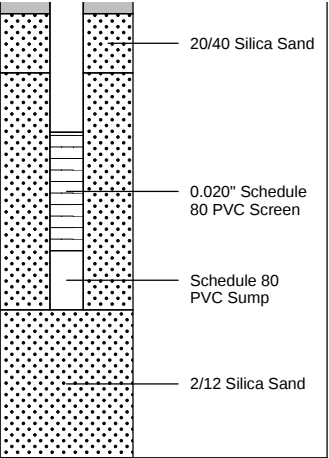


Remarks: bgs = below ground surface ppm = parts per million
 HA = Hand Auger HCLO = Hydrocarbon-like Odor
 NE = Not Established SS = Split Spoon sample, 2" x 1.5'
 PID = Photoionization Detector PVC = Polyvinyl Chloride

 Traffic rate well vault to be installed at later date

Date Start/Finish: 6/9/2014 - 6/10/2014 - 6/11/2014 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 8" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 26.5 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: AS-5 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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20	-20	4	SS	0.5	50/6"	>50	1,106		SW		SAND (SW): well sorted fine to medium sand with trace silt, brown, very dense, damp, strong HCLO	
		5	SS	0.5	50/6"	>50	1,353		SP		Gravelly SAND (SP): poorly sorted fine to coarse sand with large rounded gravel and trace nonplastic silt, brown, very dense, damp, strong HCLO	
25	-25	6	SS	0.5	26 50/5"	>50	637.1		ML		Clayey SILT (ML): low plasticity silt with clay and trace very fine sand, brown-grey, very dense, damp, HCLO	

	Remarks: bgs = below ground surface ppm = parts per million HA = Hand Auger HCLO = Hydrocarbon-like Odor NE = Not Established SS = Split Spoon sample, 2" x 1.5' PID = Photoionization Detector PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 6/9/2014 - 6/10/2014 - 6/11/2014
Drilling Company: Cascade Drilling
Driller's Name: Curtis Askew
Drilling Method: Hollow Stem Auger
Auger Size: 8" Outer Diameter
Rig Type:
Sampling Method: HA/SS

Northing: NE
Easting: NE
Casing Elevation: NE

Borehole Depth: 29 feet bgs
Surface Elevation: NE

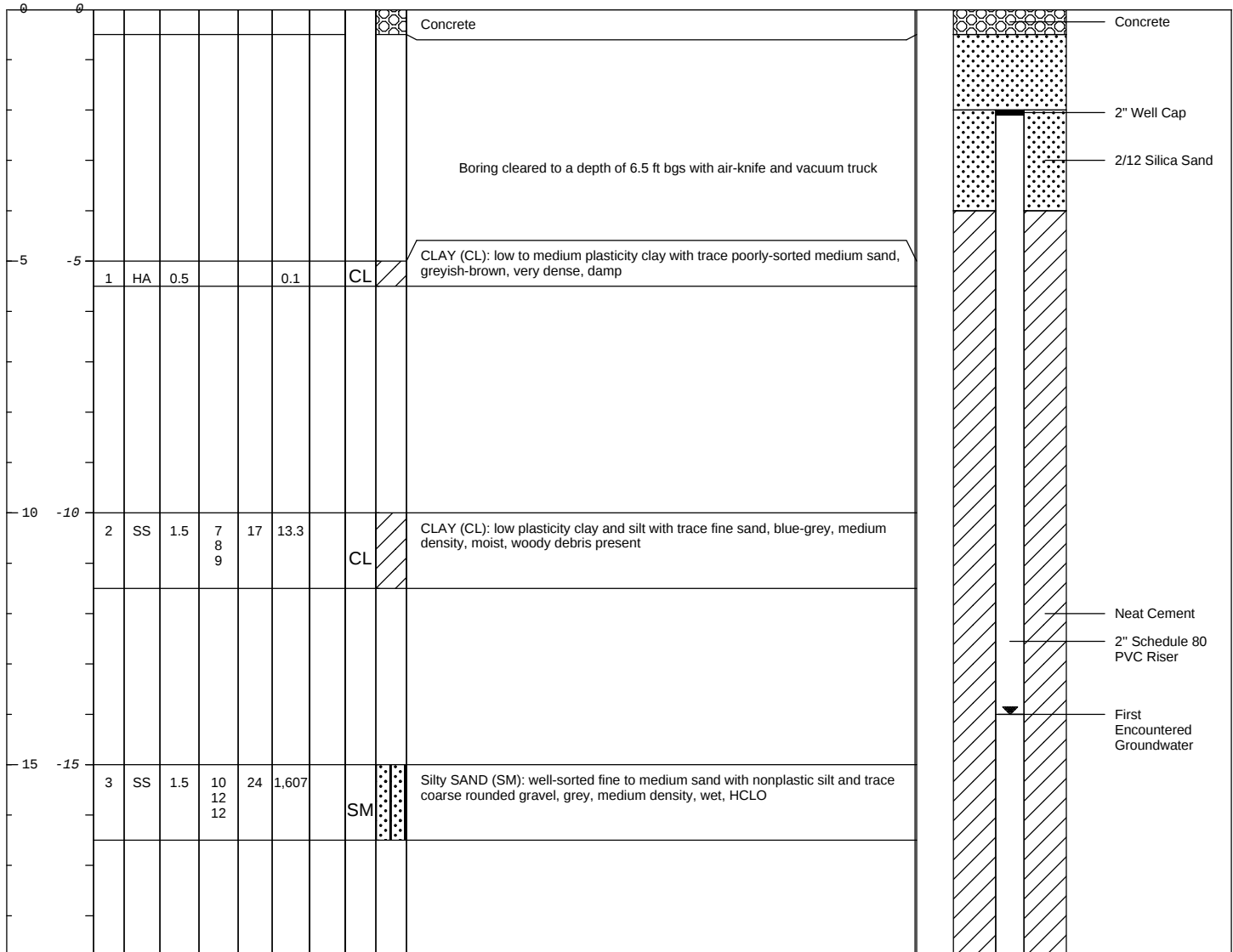
Descriptions By: Ryan Brauchla

Well/Boring ID: AS-6

Client: BP West Coast Products, LLC.

Location: Former ARCO 11060, Shell Station,
 4580 Fauntleroy Way SW
 Seattle, WA 98116

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Remarks: bgs = below ground surface ppm = parts per million
 HA = Hand Auger HCLO = Hydrocarbon-like Odor
 NE = Not Established SS = Split Spoon sample, 2" x 1.5'
 PID = Photoionization Detector PVC = Polyvinyl Chloride

 Traffic rate well vault to be installed at later date

Date Start/Finish: 6/9/2014 - 6/10/2014 - 6/11/2014 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 8" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 29 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: AS-6 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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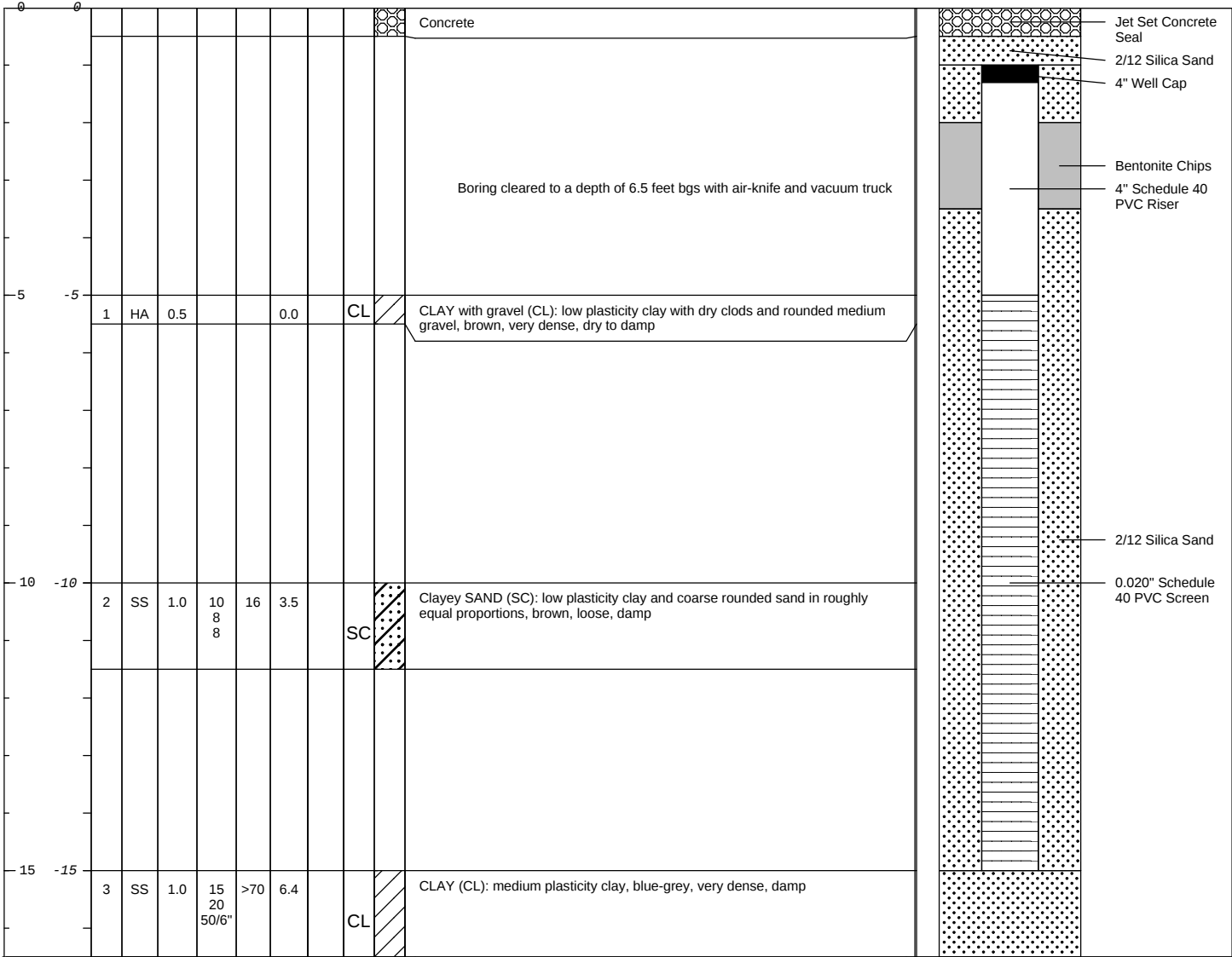
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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20	-20	4	SS	1.0	15 24 20	44	895.7		SM		Silty SAND (SM): well-sorted fine to medium sand with little nonplastic silt, brown, dense, wet, HCLO	
												Coated Bentonite Pellets
												20/40 Silica Sand
		5	SS	1.5	23 24 27	51	1,383		SM		Silty SAND (SM): well-sorted fine to medium sand with nonplastic silt, brown, dense, wet, HCLO	
									CL		CLAY lens @ 23.5 ft bgs	
									SW		SAND with gravel (SW): well-sorted medium sand with little coarse rounded gravel, brown-grey, dense, dry, HCLO	0.020" Schedule 80 PVC Screen
25	-25	6	SS	1.5	19 24 17	41	1,495		ML		Sandy SILT (ML): nonplastic silt with fine sand, brownish-grey, dense, wet, HCLO	Schedule 80 PVC Sump
		7	SS	1.5	27 30 31	61	69.6		ML		Sandy SILT (ML): nonplastic silt with fine sand, brownish-grey, dense, wet, HCLO	2/12 Silica Sand

	Remarks: bgs = below ground surface ppm = parts per million HA = Hand Auger HCLO = Hydrocarbon-like Odor NE = Not Established SS = Split Spoon sample, 2" x 1.5' PID = Photoionization Detector PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 6/9/14 - 6/10/14 - 6/11/14 - 6/13/14 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 10" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 16.5 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: VE-3 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface HA = Hand Auger NE = Not Established PID = Photoionization Detector ppm = parts per million HCLO = Hydrocarbon-like Odor SS = Split Spoon sample, 2" x 1.5' PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 6/9/2014 - 6/13/2014 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 10" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 16.5 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: VE-4 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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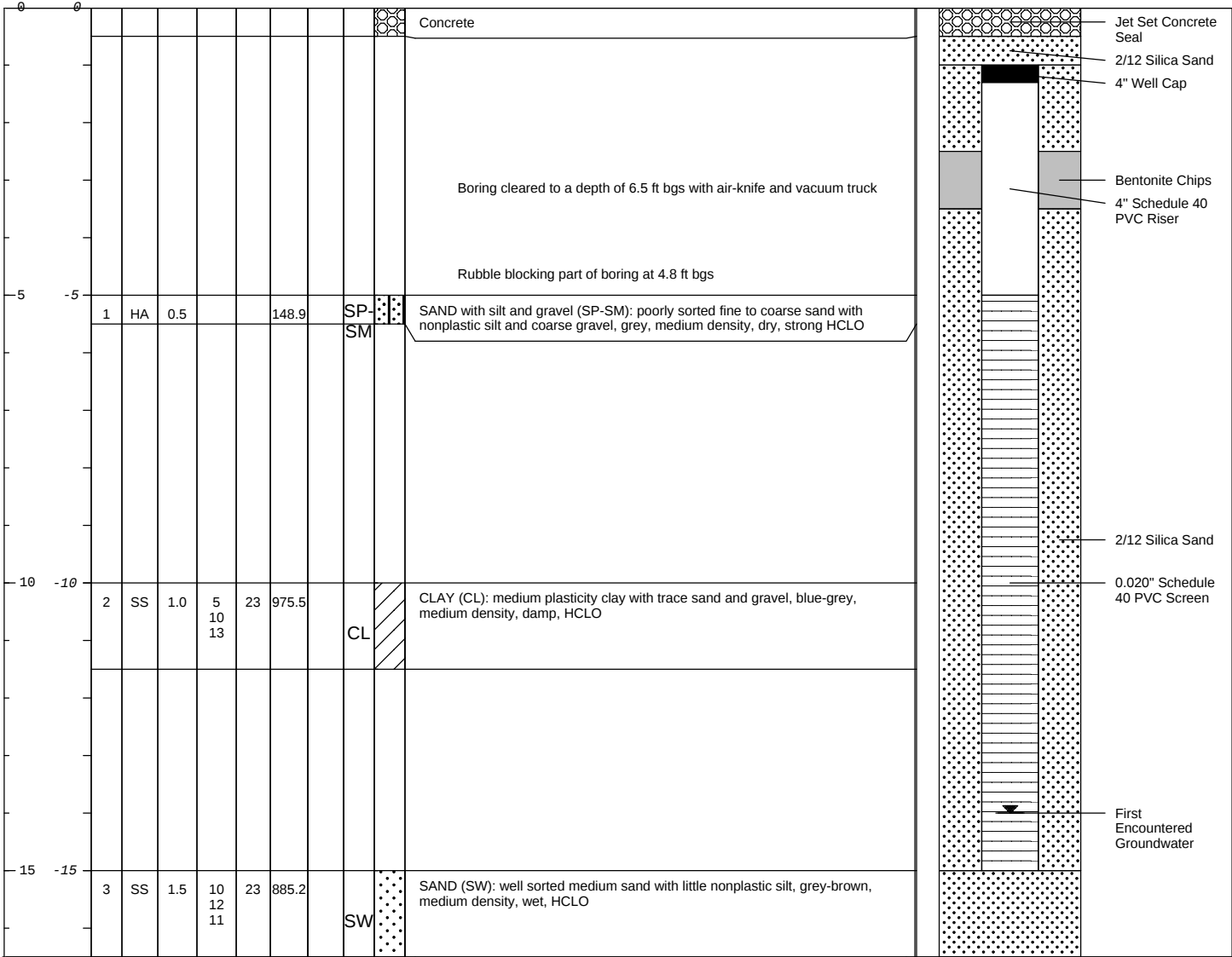
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0										Concrete	Jet Set Concrete Seal
											Construction backfill with fragments of concrete and tile was observed to a depth of 3 feet bgs	2/12 Silica Sand
											Boring cleared to a depth of 6.5 feet bgs with air-knife and vacuum truck	4" Well Cap
												Bentonite Chips
												4" Schedule 40 PVC Riser
5	-5	1	HA	0.5			0.0		CL		CLAY (CL): low to medium plasticity clay with some poorly-sorted fine to medium sand, brown, dense, damp	
10	-10	2	SS	1.0	7 10 10	20	119.9		CL		CLAY with gravel (CL): low to medium plasticity clay with coarse rounded gravel, brown, medium density, damp	2/12 Silica Sand
												0.020" Schedule 40 PVC Screen
15	-15	3	SS	0	50/6"	>50					No recovery	
		4	SS	0	50/6"	>50					No recovery	

	Remarks: bgs = below ground surface HA = Hand Auger NE = Not Established PID = Photoionization Detector ppm = parts per million HCLO = Hydrocarbon-like Odor SS = Split Spoon sample, 2" x 1.5' PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 6/9/2014 - 6/10/2014 - 6/11/2014 Drilling Company: Cascade Drilling Driller's Name: Curtis Askew Drilling Method: Hollow Stem Auger Auger Size: 10" Outer Diameter Rig Type: Sampling Method: HA/SS	Northing: NE Easting: NE Casing Elevation: NE Borehole Depth: 16.5 feet bgs Surface Elevation: NE Descriptions By: Ryan Brauchla	Well/Boring ID: VE-5 Client: BP West Coast Products, LLC. Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way SW Seattle, WA 98116
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: bgs = below ground surface HA = Hand Auger NE = Not Established PID = Photoionization Detector ppm = parts per million HCLO = Hydrocarbon-like Odor SS = Split Spoon sample, 2" x 1.5' PVC = Polyvinyl Chloride Traffic rate well vault to be installed at later date
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Date Start/Finish: 8/1/2013 Drilling Company: Cascade Drilling Driller's Name: Drilling Method: Hollow Stem Auger Auger Size: 8" Outer Diameter Rig Type: Sampling Method: Split Spoon	Northing: Easting: Casing Elevation: NE Borehole Depth: 31.5' bgs Surface Elevation: Descriptions By: RB	Well/Boring ID: AS-1 Client: BP West Coast Products LLC Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way South West Seattle, WA
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N-Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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0	0										Concrete	Concrete
		HA	2.5-3	.5			0.4		SC	/	Clayey Sand, fine to medium, poorly sorted, medium plasticity, brown, loose, moist	8" Flush-mount Monument
												2" Well Cap
5	-5	HA	5-6.5	.5			0.3		SC	/	Same as above	
		1	7.5-9	1.5	2 3 4	7	1.0		SC	/	Same as above with a color change to grey at 8.5' bgs	
10	-10	2	10-11.5	1.5	1 2 2	4	1.4		SC	/	Same as above, very loose	
		3	12.5-14	1.5	1 2 2	4	65.7		SP	.	Sand lens, fine to medium, no plasticity, grey	Neat Cement
									SC	/	Sand, fine to medium with clay, poorly sorted, medium plasticity, brown, slight HCLO	2" Schedule 80 PVC Riser
15	-15	4	15-16.5	1.5	5 6 6	12	10.2		SC	/	Same as above	First Encountered Groundwater
									SM	.	Silty Sand, fine to medium, subrounded with a little clay, low plasticity, medium density, wet	
		5	17.5-19	1.5	8 10 10	20	1,365		SM	.	Same as above with Strong HCLO	

	Remarks: ft bgs = feet below ground surface NM = Not Measured ppm = parts per million NE = Not Established HA = Hand Auger HCLO = Hydrocarbon-like Odor
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Date Start/Finish: 8/1/2013 Drilling Company: Cascade Drilling Driller's Name: Drilling Method: Hollow Stem Auger Auger Size: 8" Outer Diameter Rig Type: Sampling Method: Split Spoon	Northing: Easting: Casing Elevation: NE Borehole Depth: 31.5' bgs Surface Elevation: Descriptions By: RB	Well/Boring ID: AS-1 Client: BP West Coast Products LLC Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way South West Seattle, WA
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N-Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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20	-20	6	20-21.5	1.5	8 10 8	18	1,310	X	SM		Same as above	
		7	22.5-24	1.5	8 10 10	20	1,093		SM		Similar to above with decreasing clay and silt, color change from blue/grey to brown/grey	
25	-25	8	25-26.5	1.5	10 12 12	24	82.8	X	SM		Same as above, no HCLO, granite cobble encountered	
		9	27.5-29	1.5	7 9 6	15	56.1	X	ML		Silt with fine subangular sand, low plasticity	
30	-30	10	30-31.5	1.5	7 9 11	20	87.4		ML		Same as above	

Coated Bentonite Pellets

2/12 Silica Sand

0.020" Schedule 80 PVC Screen

Schedule 80 PVC Sump

	Remarks: ft bgs = feet below ground surface NM = Not Measured ppm = parts per million NE = Not Established HA = Hand Auger HCLO = Hydrocarbon-like Odor
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Date Start/Finish: 8/1/2013 Drilling Company: Cascade Drilling Driller's Name: Drilling Method: Hollow Stem Auger Auger Size: 10" Outer Diameter Rig Type: Sampling Method: Split Spoon	Northing: Easting: Casing Elevation: NE Borehole Depth: 15' bgs Surface Elevation: Descriptions By: RB	Well/Boring ID: VE-2 Client: BP West Coast Products LLC Location: Former ARCO 11060, Shell Station, 4580 Fauntleroy Way South West Seattle, WA
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N-Value	PID Headspace (ppm)	Analytical Sample	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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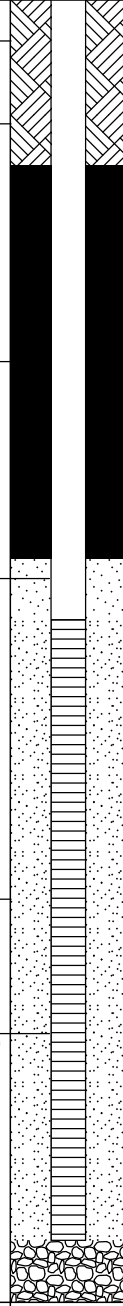
0	0										Concrete	Concrete
												10" Flush-mount Monument
												4" Well Cap
		HA	2.5-3	.5			1.3		CL		Clay with sand, fine poorly sorted sand, medium plasticity, grey, some woody debris, moist	Bentonite Chips
												4" Schedule 40 PVC Riser
5	-5	HA	5-5.5	.5			0.6		CL		Clay with sand, fine to medium poorly sorted subangular sand, medium plasticity clay nodules in sand matrix, grey, moist	
		1	7.5-9	1.5	2 2 3	5	1.3		CL		Clay with sand, fine poorly sorted subangular sand, medium plasticity clay, loose, grey, moist	
10	-10	2	10-11.5	1.5	2 3 3	6	4.0		CL		Same as above	2/12 Silica Sand
												0.020" Schedule 40 PVC Screen
15	-15	3	13.5-15	1.5	2 4 5	9	350		CL		Same as above with some HCLO	

	Remarks: ft bgs = feet below ground surface NM = Not Measured ppm = parts per million NE = Not Established HA = Hand Auger HCLO = Hydrocarbon-like Odor
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Soil Boring Log

Sheet: 1 of 1

Project Name: BP 11060 Date Started: 10/19/2018 Logger: E. Krueger
Project Number: GP18BPNA.TR00.WA000 Date Completed: 10/19/2018 Editor: NA
Project Location: 4580 Fauntleroy Street, WA Weather Conditions: Sunny 60°F

Depth (feet)	Blow Counts	Recovery (in.)	Sample ID & Time	PID (ppm)	USCS Class	Description	Construction Details	Well
1			MW-11 (22.5-24) 1320	0.0		(0.0-0.5') Concrete surface.	8 1/4 inch Diameter Borehole Concrete (0-4 ft)	
2	HA	6						
3						(2.0-2.5') SANDY SILT (ML), low plasticity, with trace gravel, fine grain; small subrounded gravel; moist; loose; brown.		
4	HA	6						
5						(4.0-4.5') SILTY CLAY (CL/ML), medium plasticity; some sand, fine grain; moist; loose; brown; orangish staining.		
6	HA	6						
7						(6.0-6.5') SILTY CLAY (CL/ML), medium plasticity; some sand, fine grain; moist; loose; brown; orangish staining. wood debris, cleared to 6.5 ft bgs.		
8	12, 14, 16	18				(7.5-9.0') SILTY CLAY (CL/ML), medium plasticity; some sand, fine grain; moist; loose; olive green gray; wood debris.		
9								
10								
11	12, 20, 21	18	MW-11 (30-31.5) 1325	3.5		(10.0-11.5') SILTY CLAY (CL/ML), medium plasticity; some sand, fine grain; moist; loose; brown; orangish staining.	2 inch Diameter Well Casing (0-15 ft)	
12								
13	10, 14, 14	18				(12.5-14.0') SANDY SILT (ML), low plasticity; trace clay and gravel, fine grain; loose; moist; orange brown.		
14								
15						(15.0-16.5') SANDY SILT (ML), low plasticity, fine grain; moist; loose; orange brown.		
16	35, 50/6	18						
17						(17.5-19.0') SILTY SAND (SM), fine grain; poorly graded; moist; loose; gray.		
18	20, 50/6	18						
19						(20.0-21.5') SILTY SAND (SM), fine grain; poorly graded; moist; loose; gray.		
20								
21	24, 28, 29	18	MW-11 (22.5-24) 1320	10.6		(22.5-24.0') SILTY SAND (SM), fine grain; poorly graded; wet; wet, loose; gray.	Sand Pack 2/12 (13.5-30 ft)	
22								
23	27, 28, 30	18				(25.0-26.5') SILTY SAND (SM), fine grain; poorly graded; wet; loose; gray.		
24								
25						(27.5-29.0') SILTY SAND (SM), fine grain; trace clay, poorly graded; moist; wet; dense; gray.		
26	28, 30, 30	18						
27						(30.0-31.5') SILTY SAND (SM), fine grain; some clay, poorly graded; moist; wet; dense; gray.		
28	30, 21, 34	18						
29								
30								
31	27, 50/6	18	MW-11 (30-31.5) 1325	9.6		(30.0-31.5') SILTY SAND (SM), fine grain; some clay, poorly graded; moist; wet; dense; gray.		
32					End of boring at 31.5 ft bgs.			

Drilling Co.: Cascade Drilling Sampling Method: Hand Auger / Split Spoon
Driller: Wes Sampling Interval: 2.5'
Drilling Method: Hand Auger / Hollow Stem Auger Water Level Start (ft. bgs.): 22.5
Drilling Fluid: None Water Level Finish (ft. btoc.): NA
Remarks: ' / ft = feet; " / in = inch; bgs = below ground surface; ppm Converted to Well: ☒ Yes ☐ No
= parts per million; NA = not applicable / available. HA = Surface Elev.: NA
hand auger. North Coord.:
East Coord.:

Soil Boring Log

Sheet: 1 of 1

Project Name: BP 11060

Date Started: 10/19/2018

Logger: E. Krueger

Project Number: GP18BPNA.TR00.WA000

Date Completed: 10/19/2018

Editor: NA

Project Location: 4580 Fauntleroy Street, WA

Weather Conditions: Sunny 60°F

Depth (feet)	Blow Counts	Recovery (in.)	Sample ID & Time	PID (ppm)	USCS Class	Description	Construction Details	Well
1						(0.0-8") Concrete.	8 1/4 inch Diameter Borehole	
2								
3	HA	6		0.2		(2.0-2.5') SAND (SW), with some gravel, fine to coarse grain; well sorted; loose; brown.	Concrete (0-4 ft)	
4								
5	HA	6		0.6		(4.0-4.5') SANDY SILT (ML), low plasticity, fine grain; dry; loose; brown.		
6								
7	HA	6		1.0		(6.0-6.5') SANDY SILT (ML), low plasticity, fine grain; dry; loose; brown.		
8								
9	4, 8, 9	18		1.7		(7.5-9.0') SANDY SILT (ML), low plasticity, fine grain; dry; brown.	Hydrated Bentonite Pellets (4-13.5 ft)	
10								
11	10, 12, 14	18		2.6		(10.0-10.5') SANDY SILT (ML), low plasticity, fine grain; dry; brown.		
12						(10.5-11.5') SILTY CLAY (CL), low plasticity; moist; blue gray.		
13								
14	4, 8, 8	18		11.0		(12.5-14.0') SILTY CLAY (CL), low plasticity; moist; blue gray. From 13-14 ft bgs, brown with black staining.	2 inch Diameter Well Casing (0-15 ft)	
15								
16	12, 13, 18	18		3.3		(15.0-16.5') SILTY CLAY (CL), low plasticity; moist; dense; orange brown.		
17								
18								
19	18, 18, 20	18	MW-12 (17.5-19) 1520	600.3		(17.5-19.0') SILTY SAND (SM), fine grain; poorly graded; dry; loose; gray.		
20								
21	17, 20, 21	18		999.6		(20.0-21.5') SILTY SAND (SM), fine grain; poorly graded; dry; loose; gray.		
22							Sand Pack 2/12 (13.5-30 ft)	
23								
24	19, 19, 20	18	MW-12 (22.5-24) 1525	1,625		(22.5-24.0') SILTY SAND (SM), fine grain; poorly graded; moist; loose; gray.		
25								
26	21, 24, 26	18	MW-12 (25-26.5) 1530	153		(25.0-26.5') SILTY SAND (SM), fine grain; poorly graded; moist to wet; loose; gray.	Well Screen 2 inch diameter 0.020 slot (15-30 ft)	
27								
28								
29	20, 20, 24	18		39.5		(27.5-29.0') SILTY SAND (SM), fine grain; poorly graded; wet; dense; brown.		
30								
31	24, 27, 28	18		34.5		(30.0-31.5') SANDY SILT (ML), with trace clay, low plasticity, fine grain; wet; dense; orangish brown.		
32								
33								
34	18, 19, 18	18	MW-12 (32.5-34) 1535	29.7		(32.5-34.0') SANDY SILT (ML), with trace clay, low plasticity, fine grain; wet; dense; brown.		
35						End of boring at 34.0 ft bgs.		

Drilling Co.: Cascade Drilling

Driller: Wes

Drilling Method: Hand Auger / Hollow Stem Auger

Drilling Fluid: None

Remarks: ' / ft = feet; " / in = inch; bgs = below ground surface; ppm = parts per million; NA = not applicable / available. HA = hand auger.

Sampling Method: Hand Auger / Split Spoon

Sampling Interval: 2.5'

Water Level Start (ft. bgs.): 27.58

Water Level Finish (ft. btoc.): NA

Converted to Well: ☒ Yes ☐ No

Surface Elev.: NA

North Coord:

East Coord:

PROJECT: <i>Franciscan West Seattle</i>				JOB # <i>22-148</i>		BORING # <i>SB-1</i>		PAGE 1 of 1	
Location: <i>4550 Fauntleroy Way SW</i>				Approximate elevation:					
Subcontractor/Driller: <i>Cascade</i>				Equipment / Drilling Method: <i>Truck mounted auger - Hollow stem auger</i>					
Date: <i>October 18, 2022</i>				Logged by: <i>Paul Hitch</i>					

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
5	Dark gray to light gray, well graded sandy gravel, dry.	GW	SS	18/18	SB-1-5	10:05		0.0	N	
10	Gray, soft, silty sand, some weathered stone, dry.	SM	SS	18/18	SB-1-10	10:33	5-7-8	0.0	N	
15	Gray silty sand, soft, moist.	SM	SS	18/18	SB-1-15	10:37	7-10-15	0.0	N	
20	Light gray silty sand, dense, wet.	SM	SS	18/18	SB-1-20	10:42	13-15-19	0.0	N	
25	Gray to brown silty clay, some sand, soft to dense, wet.	CL	SS	18/18	SB-1-25	10:52	6-11-14	0.0	N	
30	Light brown silty sand, some weathered stone, dense, wet. End of boring at 30 ft bgs.	SM	SS GW	18/18	SB-1-30	11:00 for SS, 11:42 for GW	14-16-22	0.0	N	Temporary well set with a screen interval between 20-30 feet for groundwater sample collection.

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling
or date of measurement

PROJECT: <i>Franciscan West Seattle</i>				JOB # <i>22-148</i>		BORING # <i>SB-2</i>		PAGE 1 of 1	
Location: <i>4550 Fauntleroy Way SW</i>				Approximate elevation:					
Subcontractor/Driller: <i>Cascade</i>				Equipment / Drilling Method: <i>Truck mounted auger - Hollow stem auger</i>					
Date: <i>October 18, 2022</i>				Logged by: <i>Paul Hitch</i>					

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
5	Tan poorly graded sand, some weathered stone, soft, dry.	SW	SS	18/18	SB-2-5	13:01	6-6-7	0.0	N	
10	Brown silty sand, soft, loose weathered stone, dry.	SM	SS	18/18	SB-2-10	13:05	6-10-10	0.0	N	
15	Brown to gray silt, red mottling, dense, dry.	OL	SS	18/18	SB-2-15	13:15	11-13-15	0.0	N	
20	Brown to gray silt, some loose weathered stone, dense, med	OL	SS	18/18	SB-2-20	13:21	13-15-17	0.0	N	
25	Brown to gray silty sand, dense, wet.	SM	SS	18/18	SB-2-25	13:32	11-15-17	0.0	N	
30	Brown to gray silty sand, dense, wet. End of boring at 30 ft bgs.	SM	SS	18/18	SB-2-30	13:36	13-15-8	0.0	N	Temporary well set with a screen interval between 20-30 feet for groundwater sample collection. The well did not charge and a GW sample was not collected.

Explanation

 Soil sample interval

 No Recovery

 Contact located approximately

 Groundwater level at time of drilling or date of measurement

PROJECT: <i>Franciscan West Seattle</i>				JOB # <i>22-148</i>		BORING # <i>SB-3</i>		PAGE 1 of 1	
Location: <i>4550 Fauntleroy Way SW</i>				Approximate elevation:					
Subcontractor/Driller: <i>Cascade</i>				Equipment / Drilling Method: <i>Truck mounted auger - Hollow stem auger</i>					
Date: <i>October 19, 2022</i>				Logged by: <i>Paul Hitch</i>					

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
5	Dark gray sandy gravel, loose, soft, dry.	GW	SS	4/18	SB-3-5	8:31		0.0	N	
10	Dark gray sandy gravel, loose, soft, dry.	GW	SS	2/18	SB-3-10	8:37	9-11-10	0.0	N	Poor recovery.
15	Brown sandy clay, dense, dry.	SC	SS	10/18	SB-3-15	8:45	7-18-22	0.0	N	
20	Brown sandy clay, dense, dry.	SC	SS	10/18	SB-3-20	8:59	11-22-27	0.0	N	
25	Brown silty sand, dense, large weathered stone, moist.	SM	SS	18/18	SB-3-25	9:03	22-23-25	0.0	N	
30	Brown silty sand, small weathered stone, moist-wet, dense. End of broing at 30 ft bgs.	SM	SS GW	18/18	SB-3-30 for SS and SB-3- W for GW	9:10 for SS and 9:55 for GW	22-24-26	0.0	N	Temporary well set with a screen interval between 20-30 feet for groundwater sample collection.

Explanation

 Soil sample interval

 No Recovery

--- Contact located approximately

 Groundwater level at time of drilling
or date of measurement

PROJECT: <i>Franciscan West Seattle</i>				JOB # <i>22-148</i>		BORING # <i>SB-4</i>		PAGE 1 of 1	
Location: <i>4550 Fauntleroy Way SW</i>				Approximate elevation:					
Subcontractor/Driller: <i>Cascade</i>				Equipment / Drilling Method: <i>Truck mounted auger - Hollow stem auger</i>					
Date: <i>October 19, 2022</i>				Logged by: <i>Paul Hitch</i>					

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
5	Brown sandy silt, red mottling, some weathered stone, soft, dry.	GW	SS	18/18	SB-4-5	11:00	3-3-3	0.0	N	
10	Brown sandy silt, some gray clay, red mottling, soft, moist.	CL	SS	18/18	SB-4-10	11:08	4-4-6	0.0	N	
15	Brown sandy silt, some gray clay, red mottling, soft, moist.	SM	SS	6/18	SB-4-15	11:18	11-13-16	0.3	N	
20	Gray clay to sandy silt, some weathered stone, dense, moist.	SM	SS	18/18	SB-4-20	11:25	12-17-18	12.5	N	Some odor.
25	Gray sandy silt, some weathered stone, dense, moist.	SM	SS	18/18	SB-4-25	11:33	16-18-22	0.1	N	
30	Gray sandy silt, some weathered stone, dense, moist. End of boring at 30 ft bgs.	SM	SS GW	18/18	SB-4-30 for SS and SB-4- W for GW	11:39 for SS and 12:30 for GW	19-22-27	0.0	N	Temporary well set with a screen interval between 20-30 feet for groundwater sample collection.

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling
or date of measurement

PROJECT: <i>Franciscan West Seattle</i>			JOB # 22-148			BORING # SB-5		PAGE 1 of 1	
Location: 4550 Fauntleroy Way SW			Approximate elevation:						
Subcontractor/Driller: Cascade			Equipment / Drilling Method: Truck mounted auger - Hollow stem auger						
Date: October 19, 2022			Logged by: Paul Hitch						

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
5	Brown sandy silt, some weathered stone, soft, dry.	SM	SS	18/18	SB-5-5	14:05	3-4-4	0.0	N	
10	Brown sandy silt, med-dense, to gray clay, dense dry to moist.	SM	SS	18/18	SB-5-10	14:10	3-4-5	0.0	N	
15	Brown sandy silt, gray mottling, dense, moist.	SM	SS	18/18	SB-5-15	14:15	11-13-15	0.1	N	
20	Brown to gray sandy silt, large weathered stone, dense, moist.	SM	SS	18/18	SB-5-20	14:25	13-19-19	0.0	N	
25	Gray sandy silt, dene, wet.	SM	SS	18/18	SB-5-25	14:32	9-13-14	0.0	N	
30	Gray sandy silt, some clay, dense, wet. End of boring at 30 ft bgs.	SM	SS GW	18/18	SB-5-30 for SS and SB-5- W for GW	14:38 for SS and 15:35 for GW	10-13-17	0.0	N	Temporary well set with a screen interval between 20-30 feet for groundwater sample collection.

Explanation

Soil sample interval

No Recovery

Contact located approximately

Groundwater level at time of drilling
or date of measurement

PROJECT: <i>Franciscan West Seattle</i>				JOB # <i>22-148</i>		BORING # <i>SB-6</i>		PAGE 1 of 1	
Location: <i>4550 Fauntleroy Way SW</i>				Approximate elevation:					
Subcontractor/Driller: <i>Cascade</i>				Equipment / Drilling Method: <i>Truck mounted auger - Hollow stem auger</i>					
Date: <i>October 20, 2022</i>				Logged by: <i>Paul Hitch</i>					

Boring Depth (feet)	Soil Description	Unified Soil Symbol	Sample Type	Sample Recovery	Sample Number	Time	Blows/Foot	PID Reading	Sheen	Comments
5	Brown sandy silt to gray clay, soft, dry.	SM	SS	18/18	SB-6-5	8:11	3-4-4	0.0	N	
10	Gray clay, soft, dry.	CL	SS	18/18	SB-6-10	8:16	4-5-5	0.0	N	
15	Brown sandy silt, dense, dry.	SM	SS	18/18	SB-6-15	8:21	14-18-20	0.0	N	
20	Gray sandy silt, red mottling, dene, moist.	SM	SS	18/18	SB-6-20	8:25	6-11-13	0.0	N	
25	Light brown to gray andy silt, dense, wet.	SM	SS	18/18	SB-6-25	8:31	11-13-16	0.0	N	
30	Light brown to gray andy silt, dense, wet. End of boring at 30 ft bgs.	SM	SS GW	18/18	SB-6-30 for SS and SB-6- W for GW	8:36 for SS and 9:11 for GW	15-17-19	0.0	N	Temporary well set with a screen interval between 20-30 feet for groundwater sample collection.

Explanation

 Soil sample interval

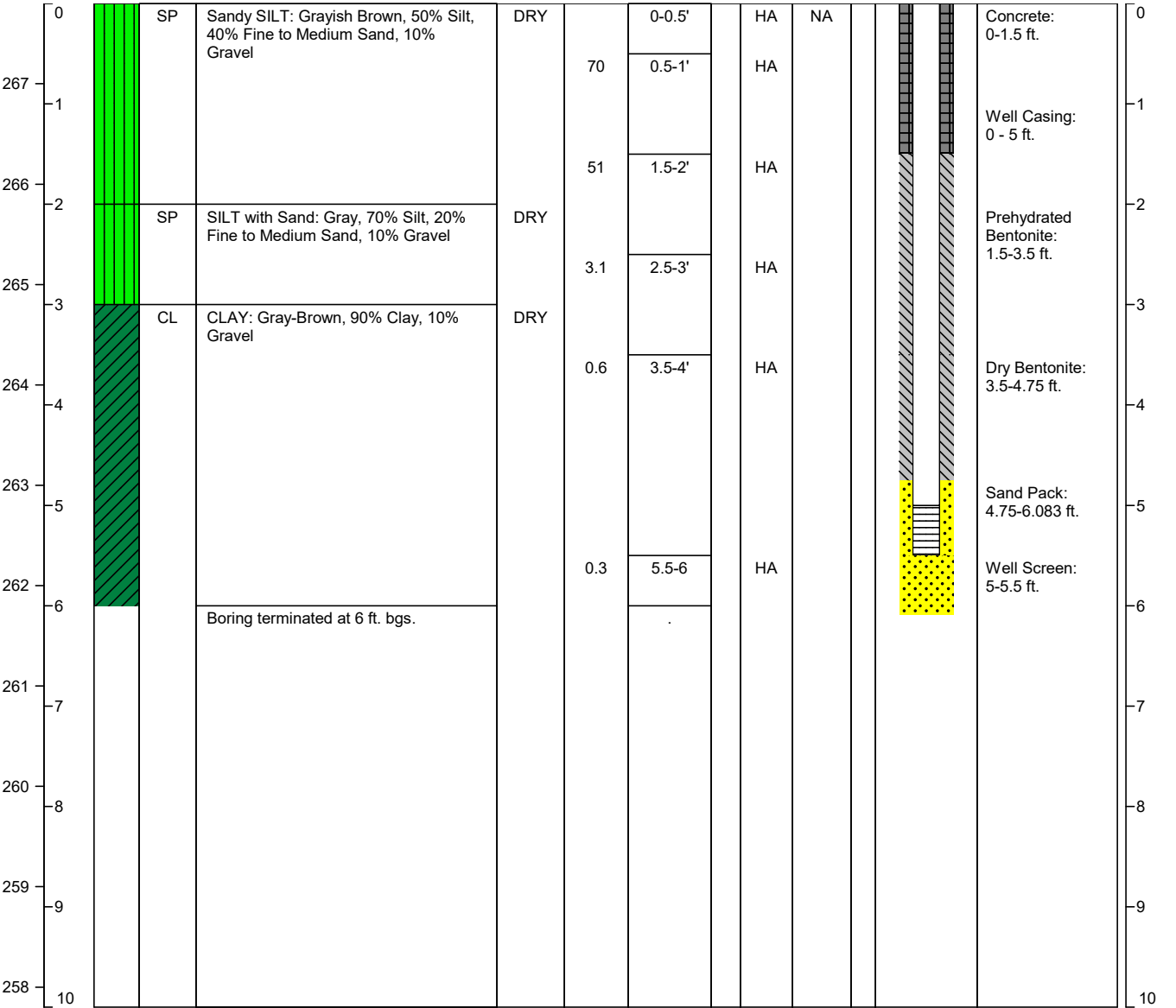
 No Recovery

 Contact located approximately

 Groundwater level at time of drilling
or date of measurement

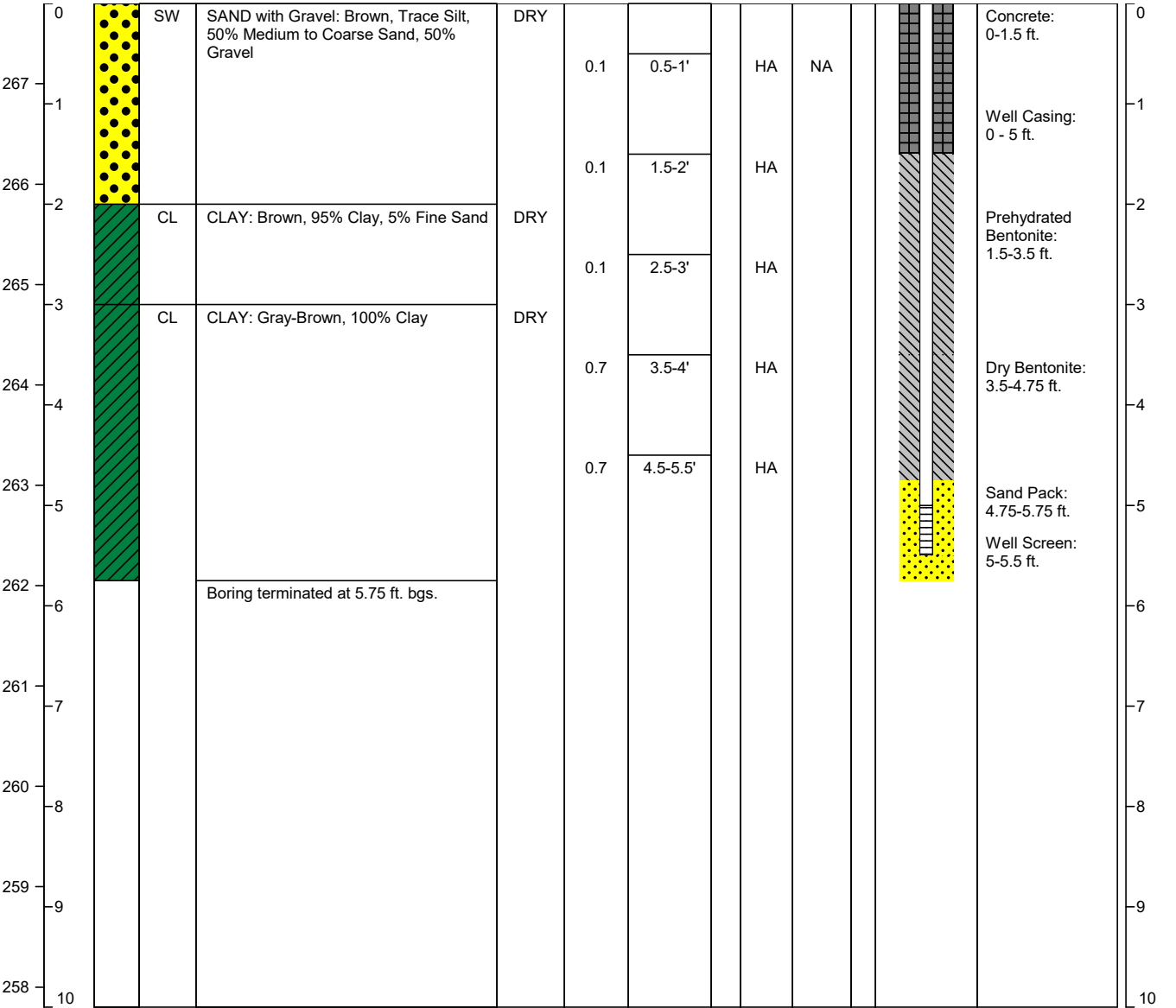
Project Name WA - 11060 Seattle				Monitoring Well Construction Log		Well Number / Well ID SVP-1 / BPR 567	
Address 4580 Fauntleroy Way SW Seattle Washington		Drilling Contractor Cascade	Ground Surface Elevation: 267.80		Top of Casing Elevation: NS		
		Drilling Method Hand Auger	Boring Depth 6.083 ft.		Boring Diameter 3 in.		
Logged By JL and MH	Approved By J. Leurquin	Sampling Method Hand Auger	Well Depth 6.083 ft	Casing Type 2" SCH40 PVC	Well Screen Interval 5 - 5.5 ft.	Slot Size 0.0057"	
Antea Group Project Number WA - 11060 Seattle		Headspace Monitoring Device PID	Date Drilling Started / Completed 9/27/2023		Sand Pack Interval 4.75 - 6.083 ft.		

LITHOLOGY				SAMPLING DATA				WELL DATA						
Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth



Project Name WA - 11060 Seattle				Monitoring Well Construction Log		Well Number / Well ID SVP-2 / BPR 568	
Address 4580 Fauntleroy Way SW Seattle Washington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 267.80		Top of Casing Elevation: NS		
		Drilling Method Hand Auger	Boring Depth 5.75 ft.		Boring Diameter 3 in.		
Logged By JL and MH	Approved By J. Leurquin	Sampling Method Hand Auger	Well Depth 5.75 ft.	Casing Type 2' SCH40 PVC	Well Screen Interval 5 - 5.5 ft.	Slot Size 0.25"	
Antea Group Project Number WA - 11060 Seattle		Headspace Monitoring Device PID	Date Drilling Started / Completed 09/26/2023		Sand Pack Interval 4.75 - 5.75 ft.		

LITHOLOGY				SAMPLING DATA				WELL DATA						
Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth



Project Name WA - 11060 Seattle			Soil Boring Log		Soil Boring Number SB-7
Address 4580 Fauntleroy Way SW Seattle WA	Drilling Contractor/License Cascade Drilling		Headspace Monitoring Device PID	Boring Depth 35 ft.	
	Drilling Method Sonic		Sampling Method Sonic	Boring Diameter 6 in.	
Logged By JL and MH	Approved By J. Leurquin	Drilling Equipment Sonic	Sampling Equipment Sonic	Backfill Material / Surface Finish Fill	
Antea Group Project Number WA - 11060 Seattle		Driller Name Cascade Drilling	Date Drilling Started 09/28/2023	Date Drilling Completed 09/28/2023	

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth
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0	0							HA				0
			CL	CLAY: Gray-Brown, 90% Clay, 10% Medium Sand	DRY	0.1	2.5-3'			NA		
			CL	CLAY: Gray-Brown, 90% Clay, 5% Medium Sand, 5% Gravel	DRY	0.7	4.5-5'	HA				5
			CL	CLAY: Gray-Brown, 90% Clay, 10% Fine to Medium Sand; Compact	WET	0.3	10-15'	S				10
			ML	Sandy Silty CLAY: Brown Red, 50% Silt Clay Mixture, 45% Fine Sand, 5% Gravel	DRY	1.7	15-20'	S				15
						4.6						20

HA = Hand Auger
S = Sonic

Project Name WA - 11060 Seattle			Soil Boring Log		Soil Boring Number SB-7
Address 4580 Fauntleroy Way SW Seattle WA		Drilling Contractor/License Cascade Drilling	Headspace Monitoring Device PID	Boring Depth 35 ft.	
		Drilling Method Sonic	Sampling Method Sonic	Boring Diameter 6 in.	
Logged By JL and MH	Approved By J. Leurquin	Drilling Equipment Sonic	Sampling Equipment Sonic	Backfill Material / Surface Finish Fill	
Antea Group Project Number WA - 11060 Seattle		Driller Name Cascade Drilling	Date Drilling Started 09/28/2023	Date Drilling Completed 09/28/2023	

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth
			SM	Silty SAND: Gray, 25% Silt, 70% Fine to Coarse Sand, 5% Gravel	DRY	908.9	20-25'		S			
-25	25		SP	SAND: Brown, 100% Fine Sand, Compact	DRY	4.3	25-30'		S			25
-30	30		ML	Sandy SILT: Gray Brown, 50% Silt, 45% Very Fine Sand, 5% Gravel	DRY	920.4	30-35'		S			30
-35	35		ML	Sandy SILT: Brown Gray, 60% Silt, 40% Very Fine to Medium Sand. End of Boring at 35'	DRY	100						35
				Boring terminated at 35 ft. bgs.								
-40	40											40

HA = Hand Auger
S = Sonic

Project Name BP 11060			Soil Boring Log		Soil Boring Number SB-8	
Address 4580 Fautleroy Way SW		Drilling Contractor/License Cascade Drilling		Headspace Monitoring Device PID		Boring Depth 35 ft.
Seattle	Washington	Drilling Method Sonic		Sampling Method Continuous Sample		Boring Diameter 6 in.
Logged By JL and MH	Approved By J. Leurquin	Drilling Equipment Sonic		Sampling Equipment Sonic		Backfill Material / Surface Finish Fill
Antea Group Project Number WA - 11060 Seattle		Driller Name Cascade Drilling		Date Drilling Started 09/28/2023		Date Drilling Completed 09/28/2023

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth
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0	0		ML	Sandy SILT with Gravel: Gray-Brown, 60% Silt, 20% Fine to Coarse Sand, 20% Gravel	DRY		0 - 5'		HA	NA		0
						0.1						
-5	5		CL	Silty CLAY with Sand: Gray-Brown, 80% Clay Silt Mixture, 20% Fine to Medium Sand	DRY		5 - 10'		HA			5
						0.1						
-10	10		CL	Silty CLAY: Gray-Brown, 90% Clay Silt Mixture, 10% Fine Sand	DRY	0.3	10 - 15'		S			10
-15	15		CL	CLAY: Gray Brown with Black Pockets, 90% Clay, 5% Fine Sand	DRY	174.3	15 - 20'		S			15
-20	20											20

HA = Hand Auger
S = Sonic

Project Name BP 11060			Soil Boring Log		Soil Boring Number SB-8
Address 4580 Fauntleroy Way SW Seattle Washington		Drilling Contractor/License Cascade Drilling	Headspace Monitoring Device PID	Boring Depth 35 ft.	
		Drilling Method Sonic	Sampling Method Continuous Sample	Boring Diameter 6 in.	
Logged By JL and MH	Approved By J. Leurquin	Drilling Equipment Sonic	Sampling Equipment Sonic	Backfill Material / Surface Finish Fill	
Antea Group Project Number WA - 11060 Seattle		Driller Name Cascade Drilling	Date Drilling Started 09/28/2023	Date Drilling Completed 09/28/2023	

LITHOLOGY					SAMPLING DATA							
Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth

						1,747	20 - 25'		S			
-25	25		SM	SAND: Brown, 100% Fine Sand, Compact	DRY	10.3	25 - 30'		S			25
-30	30		SM	SAND: Brown, 100% Fine Sand, Trace Gravel	DRY	868.7	30 - 35'		S			30
-35	35		SM	SAND: Brown 100% Fine Sand. End of Boring at 35'	DRY	847			S			35
				Boring terminated at 35 ft. bgs.								
-40	40											40

Project Name Former BP Facility #11060			Soil Boring Log		Soil Boring Number SB-9
Address 4580 Fauntleroy Way Seattle Washington		Drilling Contractor/License Cascade Drilling	Headspace Monitoring Device PID	Boring Depth 25 ft.	Boring Diameter 8.25 in.
Logged By D. Lindelof		Approved By J. Leurquin	Drilling Method Air Knife / Hollow Stem Auger	Sampling Method Hand Auger / Split Spoon	Backfill Material / Surface Finish Bentonite / Cement
Antea Group Project Number WA-0011060		Driller Name Cascade Drilling	Date Drilling Started 12/19/2023	Date Drilling Completed 12/20/2023	

LITHOLOGY

SAMPLING DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Depth
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0	0		SP-SM	Concrete								0
				Fine to Coarse SAND with SILT, few gravel, medium dense, grey brown, no petroleum odor	moist	0.2	0 - 5		HA	NA		
			ML	Sandy SILT, medium dense, grey brown, no petroleum odor	moist	0.0						
-5	5		ML	Sandy SILT, medium dense, grey brown, no petroleum odor	moist	0.0						5
			ML	Sandy SILT, medium dense, grey, no petroleum odor	moist							
			ML	SILT with fine SAND, medium dense, grey, no petroleum odor	moist	0.6	7.5 - 9		SS	6 12 18		
-10	10		SM	Silty SAND, medium dense, brown, no petroleum odor	moist	0.2	10 -11.5		SS	3 4 5		10
			ML	Sandy SILT, trace gravel, grey brown, very slight petroleum odor	moist	0.6	12 -13.5		SS	4 8 18		
-15	15		ML	Sandy SILT; grey brown, no petroleum odor	moist	2.7	15 -16.5		SS	10 20 28		15
			SM	Silty fine SAND, grey brown, very dense, slight-moderate petroleum odor	moist	28.8	17.5 -19		SS	26 50/6		
-20	20		SM	Silty fine SAND, grey, very dense, strong petroleum odor	moist	351.0	20 -21.5		SS	22 50/6		20
			SM	Silty fine SAND, grey, very dense, moderate petroleum odor	moist	109.1	22.5 -24		SS			
-25	25		SM	Silty fine SAND, grey, very dense, strong petroleum odor	moist	249.4	24.5-25		SS	50/6		25
				Boring terminated at 25 ft. bgs.								

HA = Hand Auger
SS = Split Spoon

Project Name					Well Number / Well ID	
Former BP Facility #11060					MW-13 / BPR 763	
Address 4580 Fauntleroy Way SeattleWashington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 266.04		Top of Casing Elevation: 265.51	
		Drilling Method Air Knife / Hollow Stem Auger	Boring Depth 30 ft.		Boring Diameter 4 in.	
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 30 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 15 - 30 ft.	Slot Size 0.010
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/19/2023 - 12/20/2023		Sand Pack Interval 13 - 30 ft.	

LITHOLOGY

SAMPLING DATA

WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
266 0													Concrete Pad with Well Vault: 0 - 2 ft.	0
265 1			SC	Fine SAND, few clay particles, trace gravel, medium dense, brown, no petroleum odor	moist	0.0	0.75-1.25		HA	NA				1
264 2					moist									2
263 3			SM	Silty fine SAND, trace gravel, medium dense, brown, no petroleum odor		0.2	2.75-3.25		HA				Hydrated Bentonite Chips: 2 - 13 ft.	3
262 4														4
261 5				same as above	moist	0.0	4.75-5.25		HA				2" SCH40 Blank PVC Casing: 0 - 15 ft.	5
260 6														6
259 7							6.75-7.25		SS					7
258 8														8
257 9														9
256 10				same as above	moist	0.7	10 - 11		SS	5 14 12				10
255 11														11
254 12														12
253 13														13
252 14				SILT, few sand, medium dense, medium plasticity, brown to grey, slight petroleum odor									Sand Pack: 13 - 30 ft.	14
251 15			ML		moist	3.8	15 - 16		SS	15 22 30			2" SCH 40 PVC Casing with 0.010 Slotted Screen: 15 - 30 ft.	15
250 16			SM	Silty fine SAND, medium dense, grey, slight petroleum odor										16
249 17				Sampling end at 16 ft. bgs; well installed to 30 ft. bgs.										17
248 18														18
247 19														19
246 20														20
245 21														21
244 22														22
243 23														23
242 24														24
241 25														25
240 26														26
239 27														27
238 28														28
237 29														29
30 30														30

HA = Hand Auger
SS = Split Spoon

Project Name Former BP Facility #11060		Monitoring Well Construction Log		Well Number / Well ID MW-14 / BPR 762	
Address 4580 Fauntleroy Way Seattle Washington	Drilling Contractor Cascade Drilling		Ground Surface Elevation: 266.84		Top of Casing Elevation: 266.17
	Drilling Method Air Knife / Hollow Stem Auger		Boring Depth 31 ft.		Boring Diameter 4 in.
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 30 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 15 - 30 ft.
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Slot Size 0.010
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Sand Pack Interval 13 - 30 ft.

LITHOLOGY
SAMPLING DATA
WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
0														0
266	1		SM	Silty SAND with gravel, medium dense, brown, no petroleum odor	moist	0.1	0.75-1.25		HA		NA		Concrete Pad with Well Vault: 0 - 2 ft.	1
265	2													2
264	3			same as above	moist	0.2	2.75-3.25		HA				Hydrated Bentonite Chips: 2 - 13 ft.	3
263	4													4
262	5			same as above	moist	0.1	4.75-5.25		HA				2" SCH40 Blank PVC Casing: 0 - 15 ft.	5
261	6													6
260	7		ML	Clayey SILT with few fine sand, stiff, medium plasticity, brown, no petroleum odor	moist	0.1	7- 8.5		SS	4				7
259	8									6				8
258	9									14				9
257	10		ML	SILT, little sand, stiff, non-plastic, grey brown, no petroleum odor	moist	0.2	10- 11.5		SS	5				10
256	11									5				11
255	12		ML	SILT, stiff, medium plasticity, black, moderate petroleum odor	moist	4.7	12- 13.5		SS	15				12
254	13		ML	SILT, little sand, stiff, medium plasticity, grey, no petroleum odor						6				13
253	14									12				14
252	15		ML	SILT, few sand, medium dense, medium plasticity, grey, no petroleum odor	moist	4.3	15- 16.5		SS	28				15
251	16		SM	Silty fine SAND, medium dense, grey, no petroleum odor						7			2" SCH 40 PVC Casing with 0.010 Slotted Screen: 15 - 30 ft.	16
250	17									15				17
249	18		SM	Silty fine SAND, dense, very stiff, brown, petroleum odor	moist	822.7	17.5 -19		SS	25				18
248	19									30				19
247	20									35				20

HA = Hand Auger
SS = Split Spoon

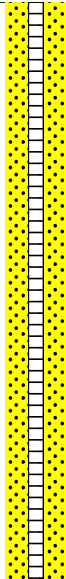
Project Name Former BP Facility #11060		Monitoring Well Construction Log		Well Number / Well ID MW-14 / BPR 762	
Address 4580 Fauntleroy Way Seattle Washington	Drilling Contractor Cascade Drilling		Ground Surface Elevation: 266.84		Top of Casing Elevation: 266.17
	Drilling Method Air Knife / Hollow Stem Auger		Boring Depth 31 ft.		Boring Diameter 4 in.
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 30 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 15 - 30 ft.
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Slot Size 0.010
		Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Sand Pack Interval 13 - 30 ft.	

LITHOLOGY

SAMPLING DATA

WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
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246	21		SM	Silty fine SAND, very dense, brown, petroleum odor, cobble @ 21'	moist	364	20 -21.5		SS	50/6				21
245	22													22
244	23		SM	Silty fine SAND, very dense, grey to brown, no petroleum odor	moist	31.6	22.5 -24		SS	50/6				23
243	24													24
242	25		SM	Silty fine SAND, abundant cobbles, very dense, brown, slight petroleum odor	moist	20.4	25 -26.5		SS	30 50/6				25
241	26													26
240	27													27
239	28		SM	Silty fine SAND, very dense, grey to brown, very slight petroleum odor	moist	19.4	27.5 -29		SS	27 50/6				28
238	29													29
237	30		SM	Silty fine SAND, very dense, grey to brown, no petroleum odor	moist	12.9	30 - 31		SS	26 50/6				30
236	31			Sampling end at 31 ft. bgs; well installed to 30 ft bgs.										31
235	32													32
234	33													33
233	34													34
232	35													35
231	36													36
230	37													37
229	38													38
228	39													39
227	40													40

HA = Hand Auger
SS = Split Spoon

Project Name Former BP Facility #11060				Monitoring Well Construction Log		Well Number / Well ID MW-15 / BDR 761	
Address 4580 Fauntleroy Way Seattle Washington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 268.99		Top of Casing Elevation: 268.67		
		Drilling Method Air Knife / Hollow Stem Auger	Boring Depth 35 ft.		Boring Diameter 8.25 in.		
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 35 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 20 - 35 ft.	Slot Size 0.010	
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/20/2023		Sand Pack Interval 18 - 35 ft.		

LITHOLOGY
SAMPLING DATA
WELL DATA

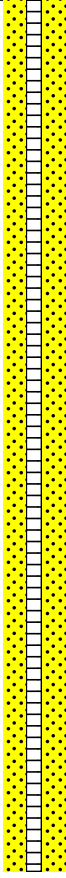
Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
0				Concrete									Concrete Pad with Well Vault: 0 - 2 ft.	0
268	1		SP	Fine SAND, trace cobbles, medium dense, brown grey, no petroleum odor	moist	0.0	0.75-1.25		HA		NA			1
267	2													2
266	3		ML	SILT with fine sand, medium dense, grey, no petroleum odor	moist	0.0	2.75-3.25		HA				Hydrated Bentonite Chips: 2 - 18 ft.	3
265	4													4
264	5		ML	SILT with fine sand, medium dense, grey, no petroleum odor	moist	0.0	4.75-5.25		HA				2" SCH40 Blank PVC Casing: 0 - 20 ft.	5
263	6													6
262	7				moist	0.2	7- 8.5		SS	9				7
261	8		CL	Silty CLAY, few fine sand, soft, low plasticity, brown, no petroleum odor						9				8
260	9									6				9
259	10		CL	Silty CLAY, few fine sand, dense, low plasticity, brown, no petroleum odor	moist	0.0	10- 11.5		SS	50/6				10
258	11													11
257	12				moist	17.8								12
256	13		ML	SILT with fine sand, soft-firm, low plasticity, grey, slight petroleum odor			12.5 -14		SS	15				13
255	14									20				14
254	15		ML	Sandy SILT, firm, low plasticity, grey, strong petroleum odor	moist	90.7	15- 16.5		SS	25				15
253	16									50/6				16
252	17													17
251	18		SM	Silty fine SAND, very dense, grey, strong petroleum odor	moist	92.7	17.5 -19		SS	25				18
250	19									50/6			Sand Pack: 18 - 35 ft.	19
249	20													20

HA = Hand Auger
SS = Split Spoon

Project Name Former BP Facility #11060				Monitoring Well Construction Log		Well Number / Well ID MW-15 / BDR 761	
Address 4580 Fauntleroy Way Seattle Washington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 268.99		Top of Casing Elevation: 268.67		
		Drilling Method Air Knife / Hollow Stem Auger	Boring Depth 35 ft.		Boring Diameter 8.25 in.		
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 35 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 20 - 35 ft.	Slot Size 0.010	
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/20/2023		Sand Pack Interval 18 - 35 ft.		

LITHOLOGY
SAMPLING DATA
WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
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248	21		SM	Silty fine SAND, dense, grey-brown, strong petroleum odor	moist	162.9	20 -21.5		SS	50/6			2" SCH 40 PVC Casing with 0.010 Slotted Screen: 20 - 35 ft.	21
247	22													22
246	23		SM	Silty fine SAND, few gravel, very dense, grey-brown, very slight petroleum odor	moist	196.2	22.5 -24		SS	50/6				23
245	24													24
244	25		SM	Silty fine SAND, very dense, grey-brown, very slight petroleum odor	moist	191.8	25 -26.5		SS	20				25
243	26									50/6				26
242	27		SM	Silty fine SAND, very dense, grey-brown, slight petroleum odor	moist	16.9	27.5 -29		SS	22				27
241	28									50/6				28
240	29													29
239	30		SM	same as above	moist	14.5	30 -31.5		SS	20				30
238	31									40				31
237	32									50/3				32
236	33													33
235	34													34
234	35		SM	Silty fine SAND, very dense, grey-brown, no petroleum odor	moist	9.1	34.5 -35		SS	50/4				35
233	36			Sampling end at 35 ft. bgs; well installed to 35 ft. bgs.										36
232	37													37
231	38													38
230	39													39
229	40													40

HA = Hand Auger
SS = Split Spoon

Project Name					Well Number / Well ID	
Former BP Facility #11060					MW-16 / BPR 764	
Address 4580 Fauntleroy Way SeattleWashington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 268.32		Top of Casing Elevation: 268.03	
		Drilling Method Air Knife / Hollow Stem Auger	Boring Depth 35 ft.		Boring Diameter 4 in.	
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 35 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 20 - 35 ft.	Slot Size 0.010
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Sand Pack Interval 13 - 30 ft.	

LITHOLOGY
SAMPLING DATA
WELL DATA

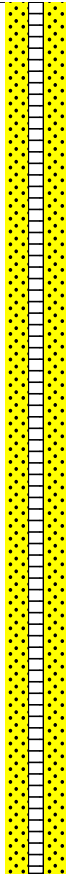
Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
268	0			Concrete									Concrete Pad with Well Vault: 0 - 2 ft.	0
267	1		SM	Fine to coarse SAND with silt, medium dense, brown, no petroleum odor	moist	0.0	0.75-1.25		HA	NA				1
266	2													2
265	3		SM	Silty SAND, medium dense, brown, no petroleum odor	moist	0.0	2.75-3.25		HA				Hydrated Bentonite Chips: 2 - 13 ft.	3
264	4													4
263	5			same as above	moist	0.4	4.75-5.25		HA				2" SCH40 Blank PVC Casing: 0 - 15 ft.	5
262	6													6
261	7													7
260	8		ML	SILT, some fine sand, medium stiff, medium plasticity, grey, no petroleum odor	moist	0.1	7.5- 9		SS	7 10 12				8
259	9													9
258	10		ML	SILT, some fine sand, stiff, medium plasticity, grey, no petroleum odor	moist	0.0	10- 11.5		SS					10
257	11													11
256	12													12
255	13				moist	0.0	12.5 -14		SS	12 25 25				13
254	14													14
253	15			same as above	moist	1.3	15- 16.5		SS	25 50/6				15
252	16													16
251	17													17
250	18		SM	Silty fine SAND, very dense, grey, no petroleum odor	moist	0.7	17.5 -19		SS	25 28 50/3			Sand Pack: 18 - 35 ft.	18
249	19													19
	20													20

HA = Hand Auger
SS = Split Spoon

Project Name					Well Number / Well ID	
Former BP Facility #11060					MW-16 / BPR 764	
Address 4580 Fauntleroy Way SeattleWashington		Drilling Contractor Cascade Drilling	Ground Surface Elevation: 268.32		Top of Casing Elevation: 268.03	
		Drilling Method Air Knife / Hollow Stem Auger	Boring Depth 35 ft.		Boring Diameter 4 in.	
Logged By D. Lindelof	Approved By J. Leurquin	Sampling Method Hand Auger / Split Spoon	Well Depth 35 ft.	Casing Type 2" SCH 40 PVC	Well Screen Interval 20 - 35 ft.	Slot Size 0.010
Antea Group Project Number WA-0011060		Headspace Monitoring Device PID	Date Drilling Started / Completed 12/18/2023 - 12/21/2023		Sand Pack Interval 13 - 30 ft.	

LITHOLOGY
SAMPLING DATA
WELL DATA

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Soil Recovery Interval (ft)	Lab Analysis	Sampling Method	Density / Blows	Water Level	Well Diagram	Well Details	Depth
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248	21		SM	Silty fine SAND, very dense, grey no petroleum odor	moist	1.2	20 -21.5		SS	29 50/3			2" SCH 40 PVC Casing with 0.010 Slotted Screen: 20 - 35 ft.	21
247	22													22
246	23		SM	Silty fine SAND, very dense, grey-brown, no petroleum odor	moist	0.9	22.5 -24		SS	50/6				23
245	24													24
244	25		SM	Silty fine SAND, very dense, brown, no petroleum odor	moist	0.3	25 -26.5		SS	50/6				25
243	26													26
242	27													27
241	28			same as above	moist	0.1	27.5 -29		SS	50/6				28
240	29													29
239	30		SM	Silty fine SAND, very dense, brown, no petroleum odor, dilatant	moist	0.0	30- 30.5		SS	50/6				30
238	31			Sampling end at 30.5 ft. bgs; well installed to 35 ft bgs.	-wet									31
237	32													32
236	33													33
235	34													34
234	35													35
233	36													36
232	37													37
231	38													38
230	39													39
229	40													40

HA = Hand Auger
SS = Split Spoon

Appendix C – Analytical Lab Reports and Chain of Custody Documentation



LABORATORY REPORT

December 27, 2023

Jonah Leurquin
Antea Group
18378-B Redmond Way
Redmond, WA 98052

RE: WA-11060 Seattle SV Sampling / WA-11060 Seattle

Dear Jonah:

Enclosed are the results of the samples submitted to our laboratory on December 12, 2023. For your reference, these analyses have been assigned our service request number P2305905.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental


By Sue Anderson at 5:16 pm, Dec 27, 2023

Sue Anderson
Project Manager



Client: Antea Group
Project: WA-11060 Seattle SV Sampling / WA-11060 Seattle

Service Request No: P2305905

CASE NARRATIVE

The samples were received intact under chain of custody on December 12, 2023 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Fixed Gases Analysis

The samples were analyzed for fixed gases (oxygen, methane and carbon dioxide) according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD). This procedure is described in laboratory SOP VOA-EPA3C. This method is included on the laboratory's DoD-ELAP scope of accreditation, however it is not included in the NELAP accreditation.

Helium Analysis

The samples were also analyzed for helium according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD). This procedure is described in laboratory SOP VOA-HHe. This method is not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

Air-Phase Petroleum Hydrocarbons (APH) Analysis

The samples were also analyzed for total aliphatic and aromatic gasoline range hydrocarbons by gas chromatography/mass spectrometry according to the Method for the Determination of Air-Phase Petroleum Hydrocarbons (APH), Massachusetts Department of Environmental Protection, Revision 1, December, 2009. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP accreditation.

Significant non-petroleum related peaks (i.e. halogenated, oxygenated, terpenes, etc.) are subtracted from the hydrocarbon range areas when present. Any internal/tuning standards and target APH analytes eluting in the hydrocarbon ranges are also subtracted. Additionally, C₉-C₁₀ Aromatic Hydrocarbons are excluded from the C₉-C₁₂ Aliphatic Hydrocarbon range.

Volatile Organic Compound Analysis

The samples were also analyzed for volatile organic compounds and tentatively identified compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. The method was modified to include the use of nitrogen as a diluent gas in place of zero-grade air for container pressurization. This method is included on the laboratory's NELAP and DoD-ELAP scope of



accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The minimum criterion for Naphthalene was not met in the Continuing Calibration Verification (CCV) analyzed on 19 December 2023. In accordance with ALS Environmental standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question, the compound was not detected in the field samples and the Laboratory Control Samples (LCS/DLCS) met acceptance criteria for the analyte, the data quality has not been significantly affected. This procedure is a quantitative confirmation of non-detect results at or below the MRL. The data has been flagged accordingly. No further corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	https://dec.alaska.gov/spar/csp/lab-approval/list-of-approved-labs	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	https://internet.deq.louisiana.gov/portal/divisions/lalap/accredited-laboratories	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtm	2022028
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	006-999-456
New Jersey DEP (NELAP)	https://dep.nj.gov/dsr/oqa/certified-laboratories/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oklahoma DEQ (NELAP)	labaccreditation.deq.ok.gov/labaccreditation/	2207
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjllabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-23-14
Utah DOH (NELAP)	https://uphl.utah.gov/certifications/environmental-laboratory-certification/	CA016272023-15
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Antea Group
 Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

Service Request: P2305905

Date Received: 12/12/2023
 Time Received: 09:39

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	3C Modified - Fxd Gases Can	3C Modified - Helium Can	MA APH 1.0 - MA VOC PH Can	TO-15 Modified - VOC SIM
SVP-1_20231211	P2305905-001	Air	12/11/2023	13:30	AS01678	-2.03	4.62	X	X	X	X
SVP-2_20231211	P2305905-002	Air	12/11/2023	16:10	AS01283	-0.86	4.83	X	X	X	X

ALS Environmental Sample Acceptance Check Form

Client: Antea USA Inc Work order: P2305905
 Project: WA-11060 Seattle SV Sampling / WA-11060 Seattle
 Sample(s) received on: 12/12/23 Date opened: 12/12/23 by: ANTHONY.VASQUE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | ☒ | ☐ | ☐ |
| 2 Did sample containers arrive in good condition? | ☒ | ☐ | ☐ |
| 3 Were chain-of-custody papers used and filled out? | ☒ | ☐ | ☐ |
| 4 Did sample container labels and/or tags agree with custody papers? | ☒ | ☐ | ☐ |
| 5 Was sample volume received adequate for analysis? | ☒ | ☐ | ☐ |
| 6 Are samples within specified holding times? | ☒ | ☐ | ☐ |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | ☐ | ☐ | ☒ |
| Cooler Temperature: 0° C Blank Temperature: ° C | | | |
| 8 Were custody seals on outside of cooler/Box/Container? | ☐ | ☒ | ☐ |
| Location of seal(s)? _____ Sealing Lid? | ☐ | ☐ | ☒ |
| Were signature and date included? | ☐ | ☐ | ☒ |
| Were seals intact? | ☐ | ☐ | ☒ |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | ☐ | ☐ | ☒ |
| Is there a client indication that the submitted samples are pH preserved? | ☐ | ☐ | ☒ |
| Were VOA vials checked for presence/absence of air bubbles? | ☐ | ☐ | ☒ |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | ☐ | ☐ | ☒ |
| 10 Tubes: Are the tubes capped and intact? | ☐ | ☐ | ☒ |
| 11 Badges: Are the badges properly capped and intact? | ☐ | ☐ | ☒ |
| Are dual bed badges separated and individually capped and intact? | ☐ | ☐ | ☒ |
| 12 Lab Notification: Analyst and PM were alerted of Short HT or RUSH samples? | ☐ | ☐ | ☒ |
| 13 Client Notification: Client has been notified regarding HT exceedances and/or other CoC discrepancies? | ☒ | ☒ | ☒ |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2305905-001.01	6.0 L Silonite Can					
P2305905-002.01	6.0 L Silonite Can					
P2305905-003.01	6.0 L Silonite Can					Return Unused

Explain any discrepancies: (include lab sample ID numbers): _____

Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-1_20231211
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P2305905-001

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Gilbert Gutierrez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01678

Date Collected: 12/11/23
Date Received: 12/12/23
Date Analyzed: 12/20/23
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -2.03 **Final Pressure (psig):** 4.62

Container Dilution Factor: 1.52

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
7782-44-7	Oxygen*	11.2	0.15	
74-82-8	Methane	ND	0.15	
124-38-9	Carbon Dioxide	2.88	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-2_20231211
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P2305905-002

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Gilbert Gutierrez
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01283

Date Collected: 12/11/23
Date Received: 12/12/23
Date Analyzed: 12/20/23
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -0.86 **Final Pressure (psig):** 4.83

Container Dilution Factor: 1.41

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
7782-44-7	Oxygen*	11.5	0.14	
74-82-8	Methane	ND	0.14	
124-38-9	Carbon Dioxide	1.16	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: Method Blank
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
ALS Sample ID: P231220-MB

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Gilbert Gutierrez
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/20/23
Volume(s) Analyzed: 0.10 ml(s)

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
7782-44-7	Oxygen*	ND	0.10	
74-82-8	Methane	ND	0.10	
124-38-9	Carbon Dioxide	ND	0.10	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Antea Group

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905

ALS Sample ID: P231220-DLCS

Test Code: EPA Method 3C Modified

Instrument ID: Agilent 8890/GC38/TCD

Analyst: Gilbert Gutierrez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 12/20/23

Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS ppmV	LCS ppmV	DLCS ppmV	LCS	DLCS	Acceptance Limits			
7782-44-7	Oxygen*	25,100	24,100	24,700	96	98	92-112	2	7	
74-82-8	Methane	40,000	39,600	39,700	99	99	95-111	0	5	
124-38-9	Carbon Dioxide	49,600	49,600	48,600	100	98	93-112	2	6	

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905

Helium

Test Code: EPA 3C Modified

Instrument ID: Agilent 7890A/GC20/TCD

Analyst: Gilbert Gutierrez

Sample Type: 6.0 L Silonite Canister(s)

Test Notes:

Date(s) Collected: 12/11/23

Date Received: 12/12/23

Date Analyzed: 12/20/23

Client Sample ID	ALS Sample ID	Injection Volume ml(s)	Container Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SVP-1_20231211	P2305905-001	0.10	1.52	ND	38	
SVP-2_20231211	P2305905-002	0.10	1.41	90	35	
Method Blank	P231220-MB	0.10	1.00	ND	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Antea Group

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905

ALS Sample ID: P231220-DLCS

Test Code: EPA 3C Modified

Instrument ID: Agilent 7890A/GC20/TCD

Analyst: Gilbert Gutierrez

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 12/20/23

Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppmV	ppmV	ppmV			Limits		Limit	Qualifier
7440-59-7	Helium	10,000	10,500	10,300	105	103	83-129	2	13	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-1_20231211
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P2305905-001

Test Code: Massachusetts APH, Revision 1, December 2009
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01678

Date Collected: 12/11/23
Date Received: 12/12/23
Date Analyzed: 12/19/23
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.03 **Final Pressure (psig):** 4.62

Container Dilution Factor: 1.52

Compound	Result µg/m³	MRL µg/m³	Data Qualifier
C ₅ - C ₈ Aliphatic Hydrocarbons ^{1,2}	ND	30	
C ₉ - C ₁₂ Aliphatic Hydrocarbons ^{1,3}	ND	15	
C ₉ - C ₁₀ Aromatic Hydrocarbons	ND	3.8	

Significant non-petroleum related peaks (i.e. halogenated, oxygenated, terpenes, etc.) are subtracted from the hydrocarbon range areas when present.

¹Hydrocarbon Range data from total ion chromatogram excluding any internal/tuning standards eluting in that range.

²C₅-C₈ Aliphatic Hydrocarbons exclude the concentration of Target APH analytes eluting in that range.

³C₉-C₁₂ Aliphatic Hydrocarbons exclude concentration of Target APH Analytes eluting in that range and concentration of C₉-C₁₀ Aromatic Hydrocarbons.

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-2_20231211
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P2305905-002

Test Code: Massachusetts APH, Revision 1, December 2009
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01283

Date Collected: 12/11/23
Date Received: 12/12/23
Date Analyzed: 12/19/23
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.86 **Final Pressure (psig):** 4.83

Container Dilution Factor: 1.41

Compound	Result µg/m ³	MRL µg/m ³	Data Qualifier
C ₅ - C ₈ Aliphatic Hydrocarbons ^{1,2}	ND	28	
C ₉ - C ₁₂ Aliphatic Hydrocarbons ^{1,3}	ND	14	
C ₉ - C ₁₀ Aromatic Hydrocarbons	ND	3.5	

Significant non-petroleum related peaks (i.e. halogenated, oxygenated, terpenes, etc.) are subtracted from the hydrocarbon range areas when present.

¹Hydrocarbon Range data from total ion chromatogram excluding any internal/tuning standards eluting in that range.

²C₅-C₈ Aliphatic Hydrocarbons exclude the concentration of Target APH analytes eluting in that range.

³C₉-C₁₂ Aliphatic Hydrocarbons exclude concentration of Target APH Analytes eluting in that range and concentration of C₉-C₁₀ Aromatic Hydrocarbons.

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: Method Blank
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P231218-MB

Test Code: Massachusetts APH, Revision 1, December 2009
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Charles Im
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/18/23
Volume(s) Analyzed: 1.00 Liter(s)

Compound	Result µg/m³	MRL µg/m³	Data Qualifier
C ₅ - C ₈ Aliphatic Hydrocarbons ^{1,2}	ND	20	
C ₉ - C ₁₂ Aliphatic Hydrocarbons ^{1,3}	ND	10	
C ₉ - C ₁₀ Aromatic Hydrocarbons	ND	2.5	

Significant non-petroleum related peaks (i.e. halogenated, oxygenated, terpenes, etc.) are subtracted from the hydrocarbon range areas when present.

¹Hydrocarbon Range data from total ion chromatogram excluding any internal/tuning standards eluting in that range.

²C₅-C₈ Aliphatic Hydrocarbons exclude the concentration of Target APH analytes eluting in that range.

³C₉-C₁₂ Aliphatic Hydrocarbons exclude concentration of Target APH Analytes eluting in that range and concentration of C₉-C₁₀ Aromatic Hydrocarbons.

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Antea Group
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P231218-DLCS

Test Code: Massachusetts APH, Revision 1, December 2009
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Charles Im
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 1/0/00
Volume(s) Analyzed: 0.125 Liter(s)

Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
	LCS / DLCS		LCS	DLCS			Acceptance	RPD	
	µg/m ³		µg/m ³	µg/m ³	LCS	DLCS	Limits	Limit	
C5 - C8 Aliphatic Hydrocarbons	206		201	205	98	100	70-130	2	30
C9 - C12 Aliphatic Hydrocarbons	204		173	180	85	88	70-130	3	30
C9 - C10 Aromatic Hydrocarbons	404		329	340	81	84	70-130	4	30

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group

Client Sample ID: SVP-1_20231211

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905

ALS Sample ID: P2305905-001

Test Code: EPA TO-15 SIM Modified

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Analyst: Chase Griffin

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01678

Date Collected: 12/11/23

Date Received: 12/12/23

Date Analyzed: 12/19/23

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.03 Final Pressure (psig): 4.62

Container Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
1634-04-4	Methyl tert-Butyl Ether	ND	0.038	ND	0.011	
71-43-2	Benzene	ND	0.11	ND	0.036	
108-88-3	Toluene	0.17	0.15	0.046	0.040	
100-41-4	Ethylbenzene	ND	0.15	ND	0.035	
179601-23-1	m,p-Xylenes	ND	0.15	ND	0.035	
95-47-6	o-Xylene	ND	0.15	ND	0.035	
91-20-3	Naphthalene	ND	0.15	ND	0.029	V

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-2_20231211
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P2305905-002

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19
Analyst: Chase Griffin
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01283

Date Collected: 12/11/23
Date Received: 12/12/23
Date Analyzed: 12/19/23
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.86 **Final Pressure (psig):** 4.83

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
1634-04-4	Methyl tert-Butyl Ether	ND	0.035	ND	0.0098	
71-43-2	Benzene	0.15	0.11	0.046	0.033	
108-88-3	Toluene	2.3	0.14	0.62	0.037	
100-41-4	Ethylbenzene	ND	0.14	ND	0.032	
179601-23-1	m,p-Xylenes	ND	0.14	ND	0.032	
95-47-6	o-Xylene	ND	0.14	ND	0.032	
91-20-3	Naphthalene	ND	0.14	ND	0.027	V

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: Method Blank
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P231219-MB

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19
Analyst: Chase Griffin
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/19/23
Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
1634-04-4	Methyl tert-Butyl Ether	ND	0.025	ND	0.0069	
71-43-2	Benzene	ND	0.075	ND	0.023	
108-88-3	Toluene	ND	0.10	ND	0.027	
100-41-4	Ethylbenzene	ND	0.10	ND	0.023	
179601-23-1	m,p-Xylenes	ND	0.10	ND	0.023	
95-47-6	o-Xylene	ND	0.10	ND	0.023	
91-20-3	Naphthalene	ND	0.10	ND	0.019	V

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Antea Group

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905

Test Code: EPA TO-15 SIM Modified

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Analyst: Chase Griffin

Sample Type: 6.0 L Silonite Canister(s)

Test Notes:

Date(s) Collected: 12/11/23

Date(s) Received: 12/12/23

Date(s) Analyzed: 12/19/23

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Acceptance Limits	Data Qualifier
		% Recovered	% Recovered		
Method Blank	P231219-MB	79	83	70-130	
Lab Control Sample	P231219-LCS	78	79	70-130	
Duplicate Lab Control Sample	P231219-DLCS	77	78	70-130	
SVP-1_20231211	P2305905-001	77	79	70-130	
SVP-2_20231211	P2305905-002	79	75	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Antea Group
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2305905
 ALS Sample ID: P231219-DLCS

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19
Analyst: Chase Griffin
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 12/19/23
Volume(s) Analyzed: 0.050 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
1634-04-4	Methyl tert-Butyl Ether	21.6	17.4	17.0	81	79	75-131	3	25	
71-43-2	Benzene	20.4	19.2	18.8	94	92	60-122	2	25	
108-88-3	Toluene	21.4	18.9	18.4	88	86	69-120	2	25	
100-41-4	Ethylbenzene	21.8	18.8	18.3	86	84	70-134	2	25	
179601-23-1	m,p-Xylenes	43.2	37.7	36.6	87	85	73-132	2	25	
95-47-6	o-Xylene	21.6	21.2	20.6	98	95	69-136	3	25	
91-20-3	Naphthalene	22.0	12.4	12.7	56	58	43-144	4	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



LABORATORY REPORT

July 23, 2024

Jonah Leurquin
Antea Group
18378-B Redmond Way
Redmond, WA 98052

RE: WA-11060 Seattle SV Sampling / WA-11060 Seattle

Dear Jonah:

Your report P2402488 has been amended for the samples submitted to our laboratory on June 18, 2024. The data was reprocessed to add Methyl tert-Butyl Ether and Total Xylenes to the analyte list. The change has been indicated by the "Revised Report" footer located at the bottom right corner of each page.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental


By Sue Anderson at 3:19 pm, Jul 23, 2024

Sue Anderson
Project Manager



Client: Antea Group
Project: WA-11060 Seattle SV Sampling / WA-11060 Seattle

Service Request No: P2402488

CASE NARRATIVE

The samples were received intact under chain of custody on June 18, 2024 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Air-Phase Petroleum Hydrocarbons (APH) Analysis

The samples were analyzed for total aliphatic and aromatic gasoline range hydrocarbons by gas chromatography/mass spectrometry according to the Method for the Determination of Air-Phase Petroleum Hydrocarbons (APH), Massachusetts Department of Environmental Protection, Revision 1, December, 2009. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP accreditation.

Significant non-petroleum related peaks (i.e. halogenated, oxygenated, terpenes, etc.) are subtracted from the hydrocarbon range areas when present. Any internal/tuning standards and target APH analytes eluting in the hydrocarbon ranges are also subtracted. Additionally, C₉-C₁₀ Aromatic Hydrocarbons are excluded from the C₉-C₁₂ Aliphatic Hydrocarbon range.

Fixed Gases Analysis

The samples were analyzed for fixed gases (oxygen, methane and carbon dioxide) according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD). This procedure is described in laboratory SOP VOA-EPA3C. This method is not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

Helium Analysis

The samples were analyzed for helium according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD). This procedure is described in laboratory SOP VOA-HHe. This method is not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

Volatile Organic Compound Analysis

The samples were also analyzed in SIM mode for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. The method was modified to include the use of nitrogen as a diluent gas in place of zero-grade air for container pressurization. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.



The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to $<1/2$ the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	https://dec.alaska.gov/spar/csp/lab-approval/list-of-approved-labs	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	https://internet.deq.louisiana.gov/portal/divisions/lalap/accredited-laboratories	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtm	CA01627
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	006-999-456
New Jersey DEP (NELAP)	https://dep.nj.gov/dsr/oqa/certified-laboratories/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oklahoma DEQ (NELAP)	labaccreditation.deq.ok.gov/labaccreditation/	2207
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413
Utah DOH (NELAP)	https://uphl.utah.gov/certifications/environmental-laboratory-certification/	CA01627
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Antea Group
 Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

Service Request: P2402488

Date Received: 6/18/2024
 Time Received: 09:35

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	P _i l (psig)	P _f l (psig)				
								3C Modified - Fxd Gases Can	3C Modified - Helium Can	MA APH 1.0 - MA VOC PH Can	TO-15 Modified - VOC SIM
SVP-1_20240617	P2402488-001	Air	6/17/2024	14:10	AS01454	-1.60	5.17	X	X	X	X
SVP-2_20240617	P2402488-002	Air	6/17/2024	12:30	AS01629	-2.21	5.57	X	X	X	X

ALS Environmental Sample Acceptance Check Form

Client: Antea USA Inc Work order: P2402488
 Project: WA-11060 Seattle SV Sampling / WA-11060 Seattle
 Sample(s) received on: 6/18/24 Date opened: 6/18/24 by: ANTHONY.VASQUEZ

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

	Yes	No	N/A
1 Were sample containers properly marked with client sample ID?	☒	☐	☐
2 Did sample containers arrive in good condition?	☒	☐	☐
3 Were chain-of-custody papers used and filled out?	☒	☐	☐
4 Did sample container labels and/or tags agree with custody papers?	☒	☐	☐
5 Was sample volume received adequate for analysis?	☒	☐	☐
6 Are samples within specified holding times?	☒	☐	☐
7 Was proper temperature (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8 Were custody seals on outside of cooler/Box/Container?	☐	☒	☐
Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
Were signature and date included?	☐	☐	☒
Were seals intact?	☐	☐	☒
9 Do containers have appropriate preservation , according to method/SOP or Client specified information?	☐	☐	☒
Is there a client indication that the submitted samples are pH preserved?	☐	☐	☒
Were VOA vials checked for presence/absence of air bubbles?	☐	☐	☒
Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?	☐	☐	☒
10 Tubes: Are the tubes capped and intact?	☐	☐	☒
11 Badges: Are the badges properly capped and intact?	☐	☐	☒
Are dual bed badges separated and individually capped and intact?	☐	☐	☒
12 Lab Notification: Analyst and PM were alerted of Short HT or RUSH samples?	☐	☐	☒
13 Client Notification: Client has been notified regarding HT exceedances and/or other CoC discrepancies?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2402488-001.01	6.0 L Silonite Can					
P2402488-002.01	6.0 L Silonite Can					
P2402488-003.01	6.0 L Silonite Can					Return Unused

Explain any discrepancies: (include lab sample ID numbers): _____

Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group

Client Sample ID: SVP-1_20240617

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488

ALS Sample ID: P2402488-001

Test Code: Massachusetts APH, Revision 1, December 2009

Date Collected: 6/17/24

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 6/18/24

Analyst: Charles Im

Date Analyzed: 7/12/24

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01454

Initial Pressure (psig): -1.60 **Final Pressure (psig):** 5.17

Container Dilution Factor: 1.52

Compound	Result µg/m ³	MRL µg/m ³	Data Qualifier
C ₅ - C ₈ Aliphatic Hydrocarbons ^{1,2}	36	30	
C ₉ - C ₁₂ Aliphatic Hydrocarbons ^{1,3}	ND	15	
C ₉ - C ₁₀ Aromatic Hydrocarbons	ND	3.8	

Significant non-petroleum related peaks (i.e. halogenated, oxygenated, terpenes, etc.) are subtracted from the hydrocarbon range areas when present.

¹Hydrocarbon Range data from total ion chromatogram excluding any internal/tuning standards eluting in that range.

²C₅-C₈ Aliphatic Hydrocarbons exclude the concentration of Target APH analytes eluting in that range.

³C₉-C₁₂ Aliphatic Hydrocarbons exclude concentration of Target APH Analytes eluting in that range and concentration of C₉-C₁₀ Aromatic Hydrocarbons.

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-2_20240617
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
 ALS Sample ID: P2402488-002

Test Code: Massachusetts APH, Revision 1, December 2009
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Charles Im
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01629

Date Collected: 6/17/24
Date Received: 6/18/24
Date Analyzed: 7/12/24
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.21 **Final Pressure (psig):** 5.57

Container Dilution Factor: 1.62

Compound	Result µg/m³	MRL µg/m³	Data Qualifier
C ₅ - C ₈ Aliphatic Hydrocarbons ^{1,2}	ND	32	
C ₉ - C ₁₂ Aliphatic Hydrocarbons ^{1,3}	ND	16	
C ₉ - C ₁₀ Aromatic Hydrocarbons	ND	4.1	

Significant non-petroleum related peaks (i.e. halogenated, oxygenated, terpenes, etc.) are subtracted from the hydrocarbon range areas when present.

¹Hydrocarbon Range data from total ion chromatogram excluding any internal/tuning standards eluting in that range.

²C₅-C₈ Aliphatic Hydrocarbons exclude the concentration of Target APH analytes eluting in that range.

³C₉-C₁₂ Aliphatic Hydrocarbons exclude concentration of Target APH Analytes eluting in that range and concentration of C₉-C₁₀ Aromatic Hydrocarbons.

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: Method Blank
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
 ALS Sample ID: P240712-MB

Test Code: Massachusetts APH, Revision 1, December 2009
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Charles Im
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 7/12/24
Volume(s) Analyzed: 1.00 Liter(s)

Compound	Result µg/m ³	MRL µg/m ³	Data Qualifier
C ₅ - C ₈ Aliphatic Hydrocarbons ^{1,2}	ND	20	
C ₉ - C ₁₂ Aliphatic Hydrocarbons ^{1,3}	ND	10	
C ₉ - C ₁₀ Aromatic Hydrocarbons	ND	2.5	

Significant non-petroleum related peaks (i.e. halogenated, oxygenated, terpenes, etc.) are subtracted from the hydrocarbon range areas when present.

¹Hydrocarbon Range data from total ion chromatogram excluding any internal/tuning standards eluting in that range.

²C₅-C₈ Aliphatic Hydrocarbons exclude the concentration of Target APH analytes eluting in that range.

³C₉-C₁₂ Aliphatic Hydrocarbons exclude concentration of Target APH Analytes eluting in that range and concentration of C₉-C₁₀ Aromatic Hydrocarbons.

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Antea Group
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
 ALS Sample ID: P240712-DLCS

Test Code: Massachusetts APH, Revision 1, December 2009
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Charles Im
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 7/12/24
Volume(s) Analyzed: 0.125 Liter(s)

Compound	Spike Amount	Result		ALS		ALS		Data
	LCS / DLCS	LCS	DLCS	% Recovery		Acceptance	RPD	
	µg/m³	µg/m³	µg/m³	LCS	DLCS	Limits	Limit	Qualifier
C5 - C8 Aliphatic Hydrocarbons	1,210	1150	1120	95	93	70-130	2	30
C9 - C12 Aliphatic Hydrocarbons	1,210	1200	1170	99	97	70-130	2	30
C9 - C10 Aromatic Hydrocarbons	988	1030	1010	104	102	70-130	2	30

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-1_20240617
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
 ALS Sample ID: P2402488-001

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Stephanie Reynoso/Braden Kalous
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01454

Date Collected: 6/17/24
Date Received: 6/18/24
Date Analyzed: 6/24/24
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -1.60 **Final Pressure (psig):** 5.17

Container Dilution Factor: 1.52

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
7782-44-7	Oxygen*	8.34	0.15	
74-82-8	Methane	ND	0.15	
124-38-9	Carbon Dioxide	2.16	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-2_20240617
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
 ALS Sample ID: P2402488-002

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Stephanie Reynoso/Braden Kalous
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01629

Date Collected: 6/17/24
Date Received: 6/18/24
Date Analyzed: 6/24/24
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -2.21 **Final Pressure (psig):** 5.57

Container Dilution Factor: 1.62

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
7782-44-7	Oxygen*	8.28	0.16	
74-82-8	Methane	ND	0.16	
124-38-9	Carbon Dioxide	4.21	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: Method Blank
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
ALS Sample ID: P240624-MB

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Stephanie Reynoso/Braden Kalous
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 6/24/24
Volume(s) Analyzed: 0.10 ml(s)

CAS #	Compound	Result %, v/v	MRL %, v/v	Data Qualifier
7782-44-7	Oxygen*	ND	0.10	
74-82-8	Methane	ND	0.10	
124-38-9	Carbon Dioxide	ND	0.10	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Antea Group

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488

ALS Sample ID: P240624-DLCS

Test Code: EPA Method 3C Modified

Instrument ID: Agilent 8890/GC38/TCD

Analyst: Stephanie Reynoso/Braden Kalous

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/24/24

Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS ppmV	LCS ppmV	DLCS ppmV	LCS	DLCS	Acceptance Limits			
7782-44-7	Oxygen*	25,100	23,600	24,000	94	96	92-112	2	7	
74-82-8	Methane	40,000	38,800	39,600	97	99	95-111	2	5	
124-38-9	Carbon Dioxide	49,600	52,700	54,100	106	109	93-112	3	6	

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488

Helium

Test Code: EPA 3C Modified

Instrument ID: Agilent 7890A/GC20/TCD

Analyst: Braden Kalous

Sample Type: 6.0 L Silonite Canister(s)

Test Notes:

Date(s) Collected: 6/17/24

Date Received: 6/18/24

Date Analyzed: 6/20/24

Client Sample ID	ALS Sample ID	Injection Volume ml(s)	Container Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SVP-1_20240617	P2402488-001	0.10	1.52	98	38	
SVP-2_20240617	P2402488-002	0.10	1.62	110	41	
Method Blank	P240620-MB	0.10	1.00	ND	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Antea Group

Client Sample ID: Duplicate Lab Control Sample

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488

ALS Sample ID: P240620-DLCS

Test Code: EPA 3C Modified

Instrument ID: Agilent 7890A/GC20/TCD

Analyst: Braden Kalous

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/20/24

Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppmV	ppmV	ppmV			Limits		Limit	Qualifier
7440-59-7	Helium	10,000	11,100	11,500	111	115	83-129	4	13	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: SVP-1_20240617
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
 ALS Sample ID: P2402488-001

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19
Analyst: Chase Griffin/Meghry Jilakian
Sample Type: 6.0 L Silonite Canister
Test Notes:
Container ID: AS01454

Date Collected: 6/17/24
Date Received: 6/18/24
Date Analyzed: 7/1/24
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.60 **Final Pressure (psig):** 5.17

Container Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
1634-04-4	Methyl tert-Butyl Ether	ND	0.038	ND	0.011	
71-43-2	Benzene	0.22	0.11	0.068	0.036	
108-88-3	Toluene	1.4	0.15	0.37	0.040	
100-41-4	Ethylbenzene	ND	0.15	ND	0.035	
179601-23-1	m,p-Xylenes	0.37	0.15	0.084	0.035	
95-47-6	o-Xylene	ND	0.15	ND	0.035	
91-20-3	Naphthalene	ND	0.15	ND	0.029	
1330-20-7	Total Xylenes	0.37	0.15	0.084	0.035	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group

Client Sample ID: SVP-2_20240617

Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488

ALS Sample ID: P2402488-002

Test Code: EPA TO-15 SIM Modified

Date Collected: 6/17/24

Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19

Date Received: 6/18/24

Analyst: Chase Griffin/Meghry Jilakian

Date Analyzed: 7/1/24

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01629

Initial Pressure (psig): -2.21 Final Pressure (psig): 5.57

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
1634-04-4	Methyl tert-Butyl Ether	ND	0.041	ND	0.011	
71-43-2	Benzene	ND	0.12	ND	0.038	
108-88-3	Toluene	0.43	0.16	0.11	0.043	
100-41-4	Ethylbenzene	ND	0.16	ND	0.037	
179601-23-1	m,p-Xylenes	0.20	0.16	0.046	0.037	
95-47-6	o-Xylene	ND	0.16	ND	0.037	
91-20-3	Naphthalene	ND	0.16	ND	0.031	
1330-20-7	Total Xylenes	0.20	0.16	0.046	0.037	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Antea Group
Client Sample ID: Method Blank
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
ALS Sample ID: P240701-MB

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19
Analyst: Chase Griffin/Meghry Jilakian
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 7/1/24
Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
1634-04-4	Methyl tert-Butyl Ether	ND	0.025	ND	0.0069	
71-43-2	Benzene	ND	0.075	ND	0.023	
108-88-3	Toluene	ND	0.10	ND	0.027	
100-41-4	Ethylbenzene	ND	0.10	ND	0.023	
179601-23-1	m,p-Xylenes	ND	0.10	ND	0.023	
95-47-6	o-Xylene	ND	0.10	ND	0.023	
91-20-3	Naphthalene	ND	0.10	ND	0.019	
1330-20-7	Total Xylenes	ND	0.10	ND	0.023	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Antea Group
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19
Analyst: Chase Griffin/Meghry Jilakian
Sample Type: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 6/17/24
Date(s) Received: 6/18/24
Date(s) Analyzed: 7/1/24

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Acceptance Limits	Data Qualifier
		% Recovered	% Recovered		
Method Blank	P240701-MB	100	97	70-130	
Lab Control Sample	P240701-LCS	94	95	70-130	
Duplicate Lab Control Sample	P240701-DLCS	93	96	70-130	
SVP-1_20240617	P2402488-001	85	94	70-130	
SVP-2_20240617	P2402488-002	94	94	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Antea Group
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WA-11060 Seattle SV Sampling / WA-11060 Seattle

ALS Project ID: P2402488
 ALS Sample ID: P240701-DLCS

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS19
Analyst: Chase Griffin/Meghry Jilakian
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 7/1/24
Volume(s) Analyzed: 0.050 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits			
1634-04-4	Methyl tert-Butyl Ether	21.6	17.9	18.1	83	84	75-131	1	25	
71-43-2	Benzene	20.6	18.9	18.6	92	90	60-122	2	25	
108-88-3	Toluene	21.4	21.0	21.0	98	98	69-120	0	25	
100-41-4	Ethylbenzene	21.8	21.1	21.0	97	96	70-134	1	25	
179601-23-1	m,p-Xylenes	43.2	39.7	39.3	92	91	73-132	1	25	
95-47-6	o-Xylene	21.6	21.4	21.1	99	98	69-136	1	25	
91-20-3	Naphthalene	22.0	12.1	11.9	55	54	43-144	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.