# ADDITIONAL SITE CHRACTERIZATION REPORT

## CIRCLE K 1476 (PHILLIPS 66 FACILITY NO. 2701475, AOC #2063

ATLAS PROJECT NUMBER: Z076000087

ECOLOGY FACILITY ID: 35395376

ECOLOGY VCP NO.: NW2718

12660 1st Avenue South, Burien Washington 98168

**PREPARED FOR:**

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**December 19, 2022**

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**Subject:** **Additional Site Characterization Report**
**Circle K 1476 (Phillips 66 Facility No. 2701476, AOC #2063)**
**12660 1st Avenue South**
**Burien Washington 98168**

Dear Mr. Gurian:

Atlas Technical Consultants (Atlas) is pleased to submit this Additional Site Characterization Report to Phillips 66 Company (Phillips 66) for the above referenced facility, located at 12660 1st Avenue South in Seattle, Washington (Site). The objective of this report is to present the results from site investigation activities conducted to further assess current conditions at the Site and fill data gaps as requested by the Washington State Department of Ecology (Ecology) in their opinion letter dated November 17, 2020.

We appreciate the opportunity to be of service on this project and look forward to working with you on future projects. If you have any questions regarding this report, please contact the undersigned.

Respectfully submitted,
**Atlas Technical Consultants LLC**

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# 1. INTRODUCTION

In accordance with Atlas Technical Consultants LLC (Atlas) Work Plan dated May 10, 2021, Atlas prepared this Additional Site Characterization Report for the site located at 12660 1st Avenue South in Seattle, Washington (Site) **Figure 1**. The objective this site investigation is to further assess current conditions at the Site and fill data gaps as requested by the Washington State Department of Ecology (Ecology) in their opinion letter dated November 17, 2020.

## 1.1 Site Description

The Site is currently operating as a 76 branded retail gasoline station located on the northeast corner of 1st Avenue South and SW 128th Street in Seattle, Washington. The Site is located in King County in Section 8; Township 23 North; Range 4 East, in an area of residential and commercial development.

Current facilities at the Site include the gasoline station (which includes a convenience store), two fuel dispenser islands, each covered with a canopy, and one 12,000-gallon and two 10,000-gallon capacity underground storage tanks (USTs) containing unleaded gasoline. The remainder of the Site is covered with asphalt or concrete except for landscaped areas along the northern and eastern property boundaries (**Figure 2**).

Surrounding properties include a commercial building to the north, two residences and a vacant residential lot to the east, SW 128th Street to the south, beyond which is a restaurant, and 1st Avenue South to the west, beyond which is an Albertson's Grocery store and associated fueling station. The area is zoned as neighborhood center.

## 1.2 Site History

The property was first developed as a gasoline and automobile service station facility in 1966, although first generation USTs were installed in December 1964 and January 1965. Site ownership history prior to 1996 is unknown. Circle K Corporation owned the site from at least 1996 until the end of 1999 at which time Tosco Corporation became the property owner. ABC Pacific Corporation bought the property (date unknown) and sold the property to Silverlake Ventures II, Inc. in December 2003. Juns Investment Inc. is listed as the current property owner.

Prior to 1966 a residence reportedly existed at the northern portion of the Site. A UST containing heating oil was encountered in January 1992 during trenching activities associated with fueling system upgrades. The heating oil UST was subsequently decommissioned by removal. An unknown volume of contaminated soil was removed by excavation during the decommissioning activities. Over-excavation activities were performed until confirmation soil sample analytical results were below laboratory reporting limits. The location of the former heating oil UST is shown on **Figure 2**.

According to Ecology's Toxics Cleanup Program Web Reporting Databases, one 500-gallon waste oil UST was installed in December 1964, one 6,000-gallon leaded gasoline UST, one 8,000-gallon unleaded gasoline UST, and one 10,000-gallon unleaded gasoline UST were installed in January 1965. Additionally, one 6,000-gallon unleaded gasoline UST was installed in January 1976. The location of the former gasoline USTs and waste oil UST are shown on **Figure 2**.

In 1992, four gasoline USTs including two 6,000-gallon capacity, one 8,000-gallon capacity, and one 10,000-gallon capacity tanks, were removed from the central portion of the Site during fueling facility upgrades.

In July 1995, two 500-gallon USTs, one containing used oil, the other containing heating oil, were decommissioned by removal. The used oil UST was located north of the convenience store building and the heating oil UST was located south of the convenience store building. The installation and in-service dates of these two USTs are unknown.

Current facilities at the Site include the gasoline station (which includes a convenience store), two fuel dispenser islands, each covered with a canopy, and one 12,000-gallon and two 10,000-gallon capacity USTs containing unleaded gasoline. The current USTs are located in the former UST basin. The remainder of the Site is covered with asphalt or concrete except for landscaped areas along the northern and eastern property boundaries (**Figure 2**).

## 1.3 Regulatory Status

Evidence of a gasoline release was first documented during the first-generation UST removal activities in 1992. Gasoline-impacted soil and groundwater were reported to Ecology and the property was listed with Ecology's Leaking UST (LUST) program and assigned LUST ID 1571. The LUST status with Ecology, as of January 1995, is listed as "Cleanup Started." The property was entered into Ecology's Voluntary Cleanup Program (VCP) in April 2013 and was assigned VCP No. NW2718.

## 1.4 Previous Investigation and Remedial Actions

Various environmental assessment and remediation activities have been conducted at the Site between 1992 and the present. The locations of all historical soil borings, wells, remediation system components, and other features are shown on **Figure 2**. For evaluation purposes, those concentrations that exceed the MTCA Method A CULs for soil and groundwater are presented in bold font on the Figures and Tables. A summary of the former investigative and exploration activities is presented below.

### 1.4.1 1992 UST Decommissioning and Investigation Activities

ESE Consultants Inc. (ESE) documented UST removal activities in the March 2, 1992, report Removal of "Unknown Owner" Underground Storage Tank From 12660 1st Ave So., Seattle, WA (ESE, 1992a). During January 1992 UST removal actions associated with fueling system

upgrades, confirmation soil samples were collected from the limits of the UST excavation pit. Analytical results from confirmation soil samples indicated the presence of petroleum hydrocarbon concentrations above the MTCA Method A CULs. Based on these results, approximately 1,400 cubic yards of petroleum-impacted soil was over-excavated beneath the northern 6,000-gallon UST to a depth of approximately 15 feet below ground surface (bgs) and the southern dispenser island to a depth of 13 feet bgs. Analytical results from confirmation soil samples collected from the over-excavation limits of the 6,000-gallon UST indicated the presence of petroleum hydrocarbon concentrations less than the MTCA Method A CULs. Analytical results from confirmation soil samples collected from the over-excavation limits of the southern dispenser island (south of the current western dispenser) indicated concentrations of petroleum hydrocarbons greater than the MTCA Method A CULs. The locations of the former USTs, the over-excavation limits, and the locations of the confirmation soil samples are shown on Figure 2 (ESE, 1992a). The January 1992 historical analytical results are presented on **Table 1A**.

During the UST fueling system upgrades in January 1992, a UST containing heating oil (presumably associated with the former residence) was encountered during trenching activities north of the UST pit, between the northern dispenser island and the building. The heating oil UST was decommissioned by removal on February 4, 1992. Hydrocarbon Identification (HCID) analysis indicated the presence of diesel-range hydrocarbons only. An unknown volume of diesel-impacted soil was removed by excavation during the decommissioning activities. Over-excavation activities were performed on February 6, 1992, until confirmation soil sample analytical results were below laboratory reporting limits. The locations of the former heating oil UST, the over-excavation limits, and the locations of the confirmation soil samples are shown on **Figure 2**. The results of the heating oil removal activities are documented in ESE's "Results of a Tank Removal and Soil Removal Program" (ESE, 1992b). The February 1992 historical soil analytical results are presented on **Table 1A**.

In April and May 1992, an initial site assessment was conducted which included drilling five soil borings (B-1 through B-5) for the collection of soil samples and the installation of monitoring wells. Boring B-3 was completed as groundwater monitoring well GW-2 and boring B-5 was completed as groundwater monitoring well GW-1. The remaining borings are identified as B-1, B-2, and B-4. The locations of initial borings B-1 through B-5 and GW-1 and GW-2 are shown on **Figure 2**. Boring B-2 was drilled at a 45-degree angle toward the canopy footing. Since the sample was "heated" during drilling activities, a sample from B-2 was not submitted for analysis. Analytical results indicated the presence of petroleum hydrocarbon concentrations above MTCA Method A CULs in soil samples from borings B-1, B-3, and B-4. The April and May 1992 historical soil analytical results are presented on **Table 1A**. Petroleum hydrocarbon constituents above MTCA Method A CULs were detected in groundwater samples collected from wells GW-1 and GW-2. A "sheen" of free-phase hydrocarbons was noted on the water from well GW-2 (ESE, 1992c). All historical groundwater gauging and analytical results are presented on **Table 2**.

### 1.4.2 1994 and 1995 Pre-Remediation Investigation Activities

The following is a summary of SEACOR's August 5, 1994, "Additional Site Assessment Investigation" (SEACOR, 1994a and 1994b) and January 9, 1995, "Additional On-site and Initial Off-site Subsurface Investigation" (SEACOR, 1995a) reports.

In 1994 and 1995, a total of 11 additional soil borings were advanced on- and off-site to depths between 75 and 94 feet bgs. One previously existing monitoring well (GW-3) was abandoned and re-installed at a deeper depth (also identified as GW-3). Of the 11 completed borings, 10 were completed as monitoring wells (identified as GW-4 through GW-12). The remaining boring was completed as an air sparge well (identified as AI-1). Analytical results indicated concentrations of petroleum hydrocarbons above MTCA Method A CULs in soil samples collected from borings GW-5 and GW-8. The 1994 and 1995 historical soil analytical results are presented on **Table 1A**. Petroleum hydrocarbon constituents above MTCA Method A CULs were detected in groundwater samples collected from wells GW-5 and GW-8 through GW-10. Light non-aqueous phase liquid (LNAPL) was observed in monitoring wells GW-2 and GW-6. In March and May 1994, LNAPL recovery programs were initiated for GW-2 and GW-6. All of the historical gauging and groundwater analytical results are presented on **Table 2**.

In May 1994, an Air Sparge/Soil Vapor Extraction (AS/SVE) pilot test was conducted at the Site. Groundwater monitoring well MW-2 was used as the vapor extraction pilot test well, and wells MW-1, MW-5, and MW-6 were used as observation wells. Results indicate that SVE achieved an effective radius of influence of approximately 46 feet at a flow rate of 105 standard cubic feet per minute (scfm) and vacuum of 35 inches of water (in. H2O). Mass recovery rates during the pilot test were approximately 29 pounds per day as TPH-G and 12 pounds per day as BTEX. It was concluded SVE and AS were technologically feasible to remediate subsurface petroleum hydrocarbons.

In July 1995, two 500-gallon USTs, one containing used oil, the other containing heating oil, were decommissioned by removal. The used oil UST was located north of the convenience store building (presumably installed in 1964) and the heating oil UST was located south of the convenience store building. The installation and in-service date of the heating oil UST is unknown. Heavy oil-range hydrocarbons were not detected in any of the confirmation soil samples collected from the excavation limits (**Table 1A**). The locations of the former heating oil UST and used oil UST, the excavation limits, and the locations of the confirmation soil samples are shown on **Figure 2** (SEACOR, 1995b).

In August 1995 the following tests were performed: an aquifer pump test was conducted to evaluate the feasibility of a groundwater pump and treat system, and a percolation test was conducted to evaluate the feasibility of an infiltration trench as a means of effluent discharge. Well GW-7 was utilized for the pumping well and wells GW-2, GW-5, GW-6, and GW-8 through GW-11 were utilized as observation wells. Both a groundwater pump and treat system and an infiltration trench for effluent discharged were determined to be feasible options.

### 1.4.3 1998 Investigation and Remediation Activities

In 1998, the Groundwater Extraction/Air Sparge/Soil Vapor Extraction (WE/AS/SVE) system plumbing was completed, and remediation activities were initiated. Six additional air sparge wells (identified as AS-1 through AS-6) were installed to depths of 90 feet bgs. No soil analytical data was found pertaining to these well installations. The final system configuration consisted of seven air sparge wells (AI-1 and AS-1 through AS-6), six combination GWE/SVE wells (GW-1, GW-2, GW-5, GW-6, GW-7 and GW-10), and three combination groundwater monitoring/SVE and GWE wells (GW-2, GW-5, and GW-6). Prior to December 2004, an additional extraction well (identified as GW-2A) was installed, information pertaining to the installation of this well could not be located. Based on information within historical reports, it appears groundwater was extracted from GW-2A during operation of the remediation system. Extracted vapors were passed through a catalytic oxidizer for treatment. Extracted groundwater was passed through an air stripper and two carbon adsorption units then discharged into an on-site infiltration trench. The system ran consistently until October 2006 when it was shut down due to asymptotic conditions. A total of 1,550 pounds of hydrocarbons was removed by the SVE system. In addition, over one million gallons of water was extracted, treated, and discharged to the infiltration trench. LNAPL was not observed in monitoring wells GW-2 and GW-6 after August 2001 and November 1995, respectively.

### 1.4.4 2012 Post-Remediation Investigation Activities

In July 2012, Cardno ATC conducted a post-remediation subsurface investigation at the Site. Five soil borings (identified as SB-1 through SB-5) were advanced in areas east, west, and south of the southern fuel dispenser island and near those historical borings (completed prior to remediation actions) that previously exhibited petroleum impacts at concentrations greater than MTCA Method A CULs. Confirmation soil samples were collected from the borings to confirm current soil conditions and to analyze for all appropriate constituents. Each boring was advanced to 50 feet bgs with the exception of SB-3, which was advanced to 55 feet bgs.

Samples submitted for laboratory analysis were generally selected based on the results of field screening evidence and/or from the approximate intervals where impacts were observed during previous investigations. The 2012 analytical results indicated that petroleum-related impacts were present at the locations of each soil boring. Petroleum-related contaminant concentrations greater than MTCA CULs were present at depths of 20 feet bgs or greater (**Table 1A**). Field screening evidence and/or analytical results for those samples submitted above 20 feet bgs did not indicate the presence of petroleum-related contamination (Cardno, 2013).

### 1.4.5 2016 Remediation System Decommissioning

In September 2016, ATC oversaw the decommissioning of the GWE/AS/SVE system installed in 1998. All above ground remediation equipment was disconnected and removed from the Site, below ground piping was plugged where it stubbed up into the former remediation system compound and left in place (ATC, 2017).

### 1.4.6 2018 Well Decommissioning and Installation

To further evaluate soil and groundwater conditions at the Site, ATC oversaw the advancement of 14 soil borings completed as groundwater monitoring wells in October 2018. The wells were installed specifically to better define actual groundwater conditions in the upper and lower water bearing units.

Decommissioning of wells GW-1 through GW-6 was also completed in October 2018. A review of boring/well installation logs had indicated that GW-3 through GW-6 were installed with well screens that were 45 to 75 feet long, extending across both the upper and lower water bearing units.

Using groundwater gauging data collected following the October 2018 well installation, ATC determined the groundwater zones beneath the Site are primarily located between 35 to 55 feet and 65 to 85 feet bgs, are not clearly continuous, and the shallower zone may be seasonal. Based on soil data collected from the borings, ATC found that concentrations of contaminants in site soil have decreased from prior soil sampling events, and that soil impacts were limited to 77.5 milligram per kilogram (mg/kg) of gasoline-range total petroleum hydrocarbon (TPH-G) at 25 ft. bgs at GW-16D (north of the south dispensers), to 55.3 mg/kg of TPH-G at 45 ft. bgs at GW-18S (southwest of the south dispensers), and to 0.553 mg/kg of benzene at 60 ft. bgs at GW-13D (southeast of the southern dispensers).

On August 19, 2020, ATC submitted a Remedial Investigation (RI) Report for the Site. The RI Report concluded the following:

- The only identified unacceptable risk to human health at the Site was from deep (>15 feet bgs) soil impacts via the direct contact and leachability pathways; and
- Specific impacts still requiring remediation are well defined and are present in groundwater below 25 feet bgs in the vicinity of the south dispenser island; and
- A former residential heating oil UST located west-northwest of the station building did not have BTEX, cPAHs, and Naphthalenes analyses run on post-excavation soil samples.

On November 17, 2020, Ecology issued an opinion letter based on its review of the RI Report. Among other requests, Ecology requested additional characterization of on-site soil and groundwater. ATC replied to the Opinion letter on January 5, 2021, to address the requested items. On January 20, 2021, ATC, Ecology, and the Phillips 66 Company (Phillips 66) met to discuss the remaining characterization. Based on the meeting, specific items from the Opinion letter were addressed, as follows:

- A comparison was conducted of the analytical data obtained during the 2018 assessment to Ecology-specified historical samples collected between 1992 and 2012. The comparison concluded that based on demonstrated sample reductions in the samples within 4 to 10 feet of prior samples, concentrations from prior locations would also likely

have decreased over time by similar percentages, resulting in current soil concentrations below respective CULs at most locations. In addition, all sample locations were within the SVE system Radius of Influence (ROI), and therefore would have had decreased concentrations based on the system operation.

## 1.5 Historical Groundwater

Pre-remediation groundwater data indicated petroleum-related contaminants were primarily detected within the upper perched water-bearing zone. LNAPL was consistently measured in GW-2 between 1994 and 1998 and, consequently, dissolved-phase constituents were not analyzed during this time. Between 1995 and 1998, concentrations of gasoline-range hydrocarbons, BTEX and total lead consistently exceeded MTCA Method A CULs in monitoring well GW-1. LNAPL was also measured in GW-6 in 1994 and 1995. Between 1996 and 1998, concentrations of gasoline-range hydrocarbons, BTEX and total lead consistently exceeded MTCA Method A CULs in monitoring well GW-6. However, because GW-6 was screened from 15 to 70 feet bgs, it was not determinable if the exceedances were limited to the upper or lower water bearing zone.

Pre-remediation groundwater data indicates that petroleum-related contaminants also were present within the deeper water-bearing zone south of the southern dispenser island, including off-site across SW 128$^{th}$ Street. Between 1994 and 1998, concentrations of gasoline-range hydrocarbons, BTEX and total lead consistently exceeded MTCA Method A CULs in monitoring wells GW-5, GW-8, and GW-9. However, no impacts exceeding MTCA Method A CULs have been noted in these wells during the subsequent 20 years. Note: because GW-5 was screened from 15 to 90 feet bgs, it was not determinable if the exceedances were limited to the upper or lower water bearing zone.

In order to replace wells with well screens that crossed both water bearing units, 14 soil borings were completed as groundwater monitoring wells in October 2018. Based on groundwater sampling data collected since the October 2018 well installation event (December 2018 to March 2020), impacts are limited in the shallow zone to the area of the south dispenser, in wells GW-13S, GW-14S, and GW-15S. Impacts are also present within the deep zone in wells GW-14D and GW-18D to the south and southwest of the southern dispenser (ATC, 2019).

A summary of the most recently collected groundwater analytical data for the Site is presented in **Table 2** and **Figure 5.**

# 2. ADDITIONAL ASSESSMENT OBJECTIVE AND SCOPE OF WORK

The objective of site assessment activities was to further evaluate soil and groundwater conditions at the Site based on the November 17, 2020, Ecology opinion letter review of the RI Report dated August 19, 2020. The scope of work was performed based on italicized Ecology comments summarized below followed by Atlas' bulleted response.

*Ecology noted the horizontal extent of impacts to groundwater in the shallow and deep groundwater zones had not been delineated and likely extended into the South 128th Street right-of-way. Monitoring wells GW-18S and GW-18D are in a critical downgradient location with respect to assessing the extent of impacts in the shallow and deep groundwater zones, respectively. However, the sampling record for MW-18S has shown "insufficient water to sample" in all six sampling events for this well, from December 2018 through March 2020. Similarly, samples from MW-18D could not be collected during the last two events listed for that well (March and July 2020). Alternatives to assessing the horizontal extent of groundwater impacts from the Site need to be evaluated*.

- Atlas concurred that additional data would be useful at select locations to characterize current groundwater conditions. To address this comment, Atlas proposed well installations in the vicinity of GW-18S and GW-18D. A shallow well screened from approximately 40 to 60 feet bgs and a deep well screened from approximately 70 to 90 feet bgs were proposed.

*The vertical extent of groundwater impacts has not been determined. Data from Site monitoring wells and regional groundwater resource reports document downward vertical groundwater gradients in the layered hydrogeologic system comprised of the Vashon till, Vashon advance outwash, and underlying pre-Vashon deposits. Alternatives to assessing the vertical extent of groundwater impacts from the Site need to be evaluated.*

- The deepest wells on Site that have indicated levels of petroleum hydrocarbon compounds above MTCA Method A CULs are GW-14D and GW-18D. Therefore, Atlas proposed installing a vertical delineation well adjacent to GW-14D to determine the vertical extend of groundwater impacts.

  Based on the generalized hydrostratigraphic cross section included with Ecology's opinion letter, the top and base of the shallow aquifer in the vicinity of the Site is approximately 325 and 250-foot elevation, respectively. Wells at the Site are screened to a maximum depth of approximately 324-foot elevation. Therefore, Atlas proposed to install the well within the shallow aquifer. Atlas assumed this would coincide with approximately 300 to 275 feet elevation.

  The vertical delineation well adjacent to GW-14D was proposed to be screened 120 to 140 feet bgs.

*Ecology concurred with the following data gap identified in the RI Report: Concentrations of non-TPH heating oil and waste oil constituents at the locations of the former waste-oil and heating oil USTs, per Table 830-1 in WAC 173-340.*

- Atlas proposed completion of soil boring installation and soil sampling at the former Used Oil UST (SB-6), at the former Heating Oil UST (SB-7), and to analyze soil samples for non-TPH Heating Oil and Waste Oil constituents at the locations of the former Waste-Oil and Heating Oil USTs, per Table 830-1 in WAC 173-340.

In summary, to address Ecology's November 17, 2020, opinion letter review of the RI Report dated August 19, 2020, Atlas proposed to complete soil boring installation and soil sampling at the former Used Oil UST (SB-6), at the former Heating Oil UST (SB-7), and within the vicinities of GW-14S/GW-14D, and GW-18S/GW-18D.

Soil borings in the vicinities of GW-14S/GW-14D and GW-18S/GW-18D were converted to monitoring wells. In addition, wells were proposed within the Right of Way (ROW) of Southwest 128th Street but were unable to be completed due to City requirements and utility conflicts. Atlas also proposed to gather EPH/VPH, naphthalene, and n-hexane data during soil boring installation activities for possible future use in the Method B calculations; however, these were not analyzed due to levels below laboratory minimum concentrations as reported by the lab.

## 2.1 Task 1 – Pre-Field Activities

At least 72 hours prior to the start of field activities, Atlas physically marked the location of the proposed boring locations to aid in underground utility locating. Underground utilities and piping in the vicinity of the proposed borings were identified in advance of fieldwork by requesting underground locating (One Call) by the Public Utility Notification Service. Additionally, a private utility locating subcontractor was contracted to clear and mark out all conductive and non-conductive underground utilities including but not limited to: water lines, natural gas lines, electrical lines, telecommunication lines, sewer lines, and area and storm drain pipes within the project area. The geophysical survey utilized electro-magnetic and ground penetrating radar to locate the underground utility lines and subsurface features and structures prior to the initiation of intrusive investigation activities and to verify that the proposed boring locations were free of underground utilities. Additionally, Atlas notified and coordinated with the current property owners and station manager.

The site-and-project-specific Health and Safety Plan (HASP) was updated to identify potential physical and chemical hazards associated with the proposed field activities, and to specify personal protective equipment and safety monitoring requirements. As part of the HASP, Atlas personnel are appropriately trained and under a Medical Surveillance Program in accordance with OSHA 40 CFR 1910.120. Atlas field personnel reviewed the HASP prior to commencing field work, and a health and safety meeting (i.e., "tailgate" meeting) was conducted by the Site Health and Safety Officer before starting work. The HASP was kept on file at Atlas' Seattle, Washington office and a copy was made available onsite during all field activities.

## 2.2 Task 2 – Field Activities

Prior to drilling activities, all proposed drilling locations were assessed and adjusted in order to avoid conflicts with underground and overhead utilities. Drilling services were conducted by Cascade Drilling and Technical Services (Cascade) using sonic drilling equipment. All drilling and well installation work was performed under the direction of an Atlas field representative. All drilling locations were cleared to a depth of five feet using an air knife/vacuum truck prior to drilling activities.

### 2.2.1 Soil Boring Advancement

Between May 2 and 3, 2022 Atlas oversaw the advancement of two soil borings near the Former Used Oil UST (identified as SB-6) and the Former Heating Oil UST (identified as SB-7). The soil borings were advanced to a depth of 15 feet bgs. The boring locations are shown on **Figure 2**.

### 2.2.2 Groundwater Monitoring Well Installation

Between May 2 and 20, 2022 Atlas oversaw the installation of one shallow and deep monitoring well pair in the vicinity of the existing GW-18S and GW-18D. Additionally, one vertical extent well was also installed adjacent to existing wells GW-14S and GW-14D to create a well triplet at this location. Due to City of Burien restrictions on drilling locations, combined with utility locations, the final, downgradient location in the ROW could not be installed, as discussed with Ecology.

The newly installed well locations are shown on **Figure 2**:

- GWR-18S: Shallow replacement monitoring well in the vicinity of GW-18S. Well GWR-18S was drilled to a depth of 70 feet bgs, was retracted to 55 feet after not encountering the water table, and was constructed with 0.010-slot screen from 30 to 55 feet bgs.
- GWR-18D: Deep replacement monitoring well in the vicinity of GW-18D. Well GWR-18D was drilled to a depth of 90 feet bgs backfilled with bentonite at a depth of 55 to 60 feet bgs as part of double-casing protocols to prevent vertical migration of groundwater during and after drilling. The well was constructed with 0.010-slot screen in the lower 25 feet.
- GW-14V: Vertical delineation monitoring well in the vicinity of GW-14S and GW-14D. The vertical extent well was drilled to a depth of 150 feet bgs and was constructed with 0.010-slot screen in the lower 20 feet. Well GW-14V was backfilled with bentonite to a depth of 90 feet bgs as part of triple-casing protocols and was constructed with 0.010-slot screen in the lower 25 feet. This triple-cased procedures were used to prevent vertical migration of groundwater during and after drilling.

All wells were constructed with blank casing sections of 2-inch diameter PVC, spanning from the top of the well screen interval to ground surface elevation. The top of the blank well casing was fitted with a watertight, locking plug. Colorado silica sand was used to backfill the annular space around the well screen and casing from the bottom of the screen to approximately two feet above the screen. Hydrated bentonite chips were used to backfill the annular space around the casing and create a seal from the top of the sand backfill to approximately 4 feet bgs. The remaining annular space from ground surface to 4 feet bgs was backfilled with concrete. All well boring locations were completed with a traffic-rated, flush-mount vault set in concrete. Following installation, wells GWR-18D and GW-14V were developed through surging and purging of the saturated screened intervals using a decontaminated stainless-steel bailer and submersible pump. Shallow replacement well GWR-18S was dry and could not be developed. A summary of well completion information for the wells installed in May 2022 is presented in **Table 3**. Boring

logs are provided within **Appendix I**, Cascade Drilling well installation documentation is provided as part of **Appendix II**.

Following completion of well installation activities, the new wells were surveyed to establish accurate locations and elevations. Atlas performed the survey activities in June 2022. The horizontal position of the wells was based on the NAD 83/11 datum, while the vertical datum was based on NAVD 88. **Appendix III** contains Atlas' survey data.

### 2.2.3 Field Screening and Soil Sampling Activities

Soil samples were collected from the soil borings for lithologic profiling, field screening, and chemical analysis. Samples were collected continuously from ground surface to total depth using a 5-foot-long sonic sampler equipped with plastic sleeves. Samples were field screened for the presence of volatile organic carbons (VOCs) using a portable photoionization detector (PID). Field screening was conducted by placing a portion of the collected soil into a sealable plastic bag and then monitoring headspace vapor concentrations using a PID. Soil lithology was described in general accordance with ASTM D2488.

Reusable soil sampling equipment was cleaned with a Liquinox wash, tap water rinse, and a distilled water rinse between each sampling attempt.

Soil samples were collected from each sample interval and placed in laboratory-prepared glass jars and volatile organic analysis (VOA) vials with septum lids. Following Ecology requirements, soil samples collected for BTEX/NWTPH-Gx were obtained from the macro-core sampler using a hand-held plunger set to collect the appropriate volume of soil for subsequent analysis using EPA Method 8260B. Soil collected in the plunger was transferred to laboratory-prepared VOA vials equipped with septum lids. Samples for remaining analysis were transferred to laboratory-prepared jars equipped with Teflon lids. Groundwater samples were collected by directly filling laboratory-supplied containers.

Groundwater samples were collected in June 2022 from nine monitoring wells, including GW-14V and GWR-18D. GWR-18S was not sampled as it was not able to be developed. Groundwater samples were collected using an electric submersible pump and disposable polyethylene tubing. Samples were collected after stabilization of parameters.

All soil and groundwater samples were labeled and immediately placed in an ice chest and kept cool until delivery to the laboratory. Standard chain-of-custody procedures were observed during transport of the samples to the laboratory.

Soil and groundwater samples were analyzed for one or more of the following COCs per Table 830-1 of WAC 173-340-900 using one or more of the following methods:

- BTEX using the Environmental Protection Agency (EPA) Method 8260B;
- Ethylene dibromide (EDB), 1,2-dichloroethane (EDC), and Methyl tertiary-butyl ether (MTBE) by EPA Method 8260B;

- Naphthalenes by EPA Method 8260B 8270/cPAH SIM;
- Gasoline-range hydrocarbons (TPH-G), and diesel- and heavy oil-range hydrocarbons (TPH-D and TPH-O) using Northwest Methods NWTPHGx and NWTPHDx, respectively;
- MTCA 5 Metals by EPA Method 6010;
- Total and dissolved lead by EPA Method 6010;
- Carcinogenic polycyclic aromatic hydrocarbons (PAHs) by cPAH SIM (waste-oil and heating oil USTs only);
- Polychlorinated biphenyls (PCBs) by EPA Method 8082 (waste-oil and heating oil USTs only); and
- Halogenated volatile organic compounds (CVOCs) by EPA Method 8260B (waste-oil and heating oil USTs only).

### 2.2.4 Investigative Derived Waste

All investigation-derived waste (IDW) generated during the field activities was temporarily stored on-site pending characterization and disposal at a Phillips 66 approved facility. The majority of soil cuttings generated from each well boring were placed into a lined roll-off style steel roll-off bin secured with plastic sheeting. One 20-yard capacity roll-off bin was used for soil cuttings disposal. Residual soil cuttings were placed into one 55-gallon steel drum. Liquid waste generated (decontamination and well development purge water) was placed into 2 labeled 55-gallon steel drums. Waste profiling samples were collected from the IDW containers to properly dispose the waste. Laboratory analysis of the IDW was subject to the requirements of the waste retention facility and Phillips 66 criteria. Refer to **Appendix V** for waste disposal documentation.

## 2.3 Current Well Network and Monitoring and Sampling Program

The historical groundwater monitoring well network consisted of 20 monitoring wells, including upper water bearing zone wells GW-8S, GW-10S, and GW-13S through GW-18S, and lower water bearing zone wells GW-7D through GW-18D. Other wells previously present but decommissioned include GW-1 through GW-6. The locations of the historical monitoring wells are shown on **Figure 2**.

Groundwater sampling has been conducted at the Site since 1991. A historical understanding of groundwater conditions at the Site is as follows:

Upper and Lower Water-Bearing Zones Wells (GW-1 to GW-6: All decommissioned in 2018)

GW-1 - Gasoline-range hydrocarbons have not been detected at concentrations greater than corresponding MTCA Method A CULs in groundwater samples collected from shallow monitoring well GW-1 since April 2015.

GW-2 - Concentrations of gasoline range hydrocarbons and benzene have consistently exceeded MTCA Method A CULs in shallow monitoring well GW-2 since LNAPL was last measured in August 2001.

GW-3 and GW-4 - Concentrations of benzene and total lead were intermittently detected above MTCA Method A CULs but decreased to below method reporting limits (MRLs) or MTCA Method A CULs after February 2007.

GW-5 - With the exception of a benzene detection in April 2015, analyte concentrations were either below MTCA Method A CULs or were not detected above laboratory MRLs after May 2000.

GW-6 - Gasoline-range hydrocarbons, one or more BTEX compounds, and total lead were periodically detected at concentrations greater than corresponding MTCA Method A CULs in groundwater samples collected from monitoring well GW-6 since LNAPL was last measured in the well in November 1995.

### Upper Water-Bearing Zone Wells

GW-8S, GW-10S, and GW-13S though GW-18S (Installed 2018) - Upper water bearing zone groundwater data indicated that gasoline-range hydrocarbons had not been detected at concentrations above MRLs or MTCA Method A CULs in GW-8S, GW-10S, GW-16S, and GW-17S. There has not been sufficient water in GW-18S to sample this well. Wells GW-13S, GW-14S, and GW-15S have had petroleum-related compounds detected above the MTCA Method A CULs.

GWR-18S (Installed 2022) - Note: the newly installed GWR-18S was unable to be sampled due to insufficient water to be developed.

### Lower Water-Bearing Zone Wells

GW-7D through GW-12D (installed pre-2018) - With the exception of diesel-range total petroleum hydrocarbon (TPH-D) in GW-10D in 2014 and occasional total lead detections, petroleum-related compounds were not detected above laboratory MRLs or were below the MTCA Method A CULs in these wells.

GW-13D through GW-18D (installed post-2018) - Petroleum-related compounds were not detected above laboratory MRLs or were below the MTCA Method A CULs in wells GW-13D, GW-15D, GW-16D, and GW-17D. Petroleum-related compounds have been detected above CULs in well GW-14D and GW-18D in some of the samples collected since sampling commenced in December 2018. Neither well had concentrations above CULs in the December 2019 sampling event, and both wells were dry during the March 2020 sampling event. In the June 2022 sampling event, gasoline-range hydrocarbons and benzene were detected above the MTCA Method A CUL in GW-14D. Gasoline-range hydrocarbons were not detected in any other deep water bearing zone wells sampled. Benzene was not detected in any other deep water bearing zone wells

sampled. Toluene, ethylbenzene, total xylenes, total lead, and dissolved were not detected in any other deep water bearing zone wells sampled at or above their respective MTCA Method A CUL.

GWR-18D (installed 2022) - Gasoline range-hydrocarbons and benzene were detected above the MTCA Method A CUL. Toluene, ethylbenzene, total xylenes, total lead, and dissolved were not detected in GWR-18D at or above their respective MTCA Method A CUL.

Vertical Delineation Well

GWR-14V (installed 2022) - Toluene was detected well below the MTCA Method A CUL at a concentration of 0.12J µg/L. All other compounds, including gasoline-range hydrocarbons, benzene, ethylbenzene, total xylenes, total lead, and dissolved lead, were not detected.

In summary, based on groundwater sampling data collected at the Site, current impacts are limited in the shallow zone to the area to the south and southeast of the south dispenser, primarily in GW-13S and GW-14S, and to the east of the south dispenser in GW-15S. In the deeper zone, impacts are present at GW-14D and GWR-18D, south and southwest of the southern dispenser, respectively. The results from the vertical delineation well indicate that the deeper groundwater is not impacted.

# 3. SITE SPECIFIC CONDITIONS

## 3.1 Regional Geology

The Site is located within the Puget Sound lowland and was subject to glaciation during the Vashon glacial period, which occurred approximately 15,000 to 20,000 years ago. The glacial drift plain underlying Burien is a composite of several different glacial depositional processes. These processes include 1) lacustrine (lake) deposits, which are predominantly silt and clay; 2) glacial till, a mixture of sand, gravel, clay, silt and boulders deposited directly by the glacier; and 3) advance and recessional outwash, primarily sand and gravel deposits made by glacial meltwater. The deposits make by these processes are layered.

In general, during periods between glacial episodes, thick layers of fine-grained sediment were deposited in lakes and by sluggish streams. These deposits typically act as confining layers. As glaciers advanced southward into the Puget Sound Lowland, coarse debris carried by the glaciers were dropped at their leading edges and carried southward by meltwater to form a layer of sand and gravel that is referred to as advance outwash, and which overlies the interglacial fine-grained sediment deposits. These deposits can produce water-bearing zones (aquifers). As the glaciers advanced further southward, they overrode these deposits and additional debris (till) was laid down beneath the glaciers and above the advance outwash. The gravel and sand beds of the glacial tills can also produce water-bearing zones. However, saturated zones within the fine-grained glacial tills generally exhibit poor hydraulic characteristics and can act as confining layers. Later, as the glaciers receded, meltwater carried additional sediment to form recessional outwash

on top of the till. As with advanced outwash, recessional outwash can also produce water-bearing zones.

## 3.2 Local Geology

Soils encountered during previous investigations consisted of glacial till deposits to the total depths explored (up to 95 feet bgs). Exploration logs from prior borings completed at the Site indicate that the glacial deposits are dense to very dense, heterogeneous, and contain varying amounts of sand, gravel, silt, and clay.

During the 2022 investigation, soils encountered in well borings consisted predominantly of dense, fine to medium silty sand with varying amounts of gravel to depths ranging from approximately 70 to 90 feet bgs. Below the silty sand unit, less dense, coarser grained sediments consisting of sands and gravels were encountered to the maximum depth explored of 150 feet bgs. The dense silty sand unit was interpreted as glacial till, while the underlying coarse-grained sediments were interpreted as glacial outwash deposits. A well-defined aquitard unit was not identified within the upper 85 feet at the site. In addition, Cross-Sections A-A' and B-B' are shown on **Figures 6** and **7**. Boring logs from the 2022 activities are included in **Appendix I.**

## 3.3 Regional Hydrogeology

As noted above, advance outwash deposits can produce water-bearing zones (aquifers). As glaciers advanced further southward, they overrode these deposits and additional debris (till) was laid down beneath the glaciers and above the advance outwash. The gravel and sand beds of the glacial tills can also produce water-bearing zones. However, saturated zones within the fine-grained glacial tills generally exhibit poor hydraulic characteristics and can act as confining layers. As glaciers receded, meltwater carried additional sediment to form recessional outwash on top of the till. As with advance outwash, recessional outwash can also produce water-bearing zones.

## 3.4 Local Hydrogeology

Within the glacial till beneath the Site, evidence of a shallow discontinuous perched groundwater bearing zone (shallow, or upper zone), a deeper, continuous groundwater bearing zone (deep, or lower zone), and an even deeper groundwater bearing zone (very deep zone) exist based on measured depths to water, stratigraphy presented in boring logs, well completion details, and results of an on-site aquifer pump test conducted in August 1995.

Shallow/Upper Zone - According to historical boring logs, wet conditions were observed within silty sand units at depths ranging from approximately 17 to 45 feet bgs (**Appendix I**). Shallow perched water has historically been measured in shallowly screened wells at depths ranging from 23 to 50 feet bgs.

Deep/Lower Zone – According to historical boring logs, it was noted that the water bearing zones appeared to correlate with less dense soils (lower blow counts compared to unsaturated soils). The water bearing units were also noted to contain a smaller percentage of fine-grained soils

(trace or less). Groundwater levels have historically been measured in the deep/lower water bearing zone at depths ranging from 62 to 80 feet bgs.

Very Deep Zone – During installation of well GW-14V to a depth of 150 feet bgs, it was noted that the water bearing zones appeared to correlate with soils that primarily consisted of larger grained soils. Depth to water was determined to be approximately 128 feet bgs during development in June 2022.

During advancement of borings for wells installed in May 2022, upper and lower water bearing zones were generally observed at similar depths as in previous events. In the upper zone well boring, wet conditions were noted at depths ranging from 65 to 70 feet bgs and in the lower zone well boring wet conditions were noted at depths ranging from 80 to 90 feet bgs. The correlation of coarser grained soils with saturated conditions noted in previous deep well boring was also noted in soils encountered in the deep well boring advanced in 2022. Refer to boring logs presented in **Appendix I**.

A more detailed interpretation of groundwater conditions in the upper and lower zones based on data collected in June 2022 is presented in Atlas' 2022 2nd Quarter Groundwater Monitoring Report. Groundwater elevation contouring for the upper/shallow and deep-water bearing zones are presented in **Figures 3** and **4.**

## 4. ANALYTICAL RESULTS

Soil samples were collected for analysis from the borings GWR-18S, SB-6 and SB-7. Soil samples were not collected from GWR-18D due to prior sufficient data, or from GW-14V due to no noted impacts during drilling. Historical and current soil analytical data is presented chronologically in **Tables 1A and 1B**. Refer to **Appendix IV** for laboratory reports. The following is a summary of soil analytical results.

### 4.1 Borings SB-6 and SB-7

The samples collected from 9 and 14 feet bgs had analyte concentrations that were either below their respectively laboratory detection limits or the respective MTCA Method A CULs. TPH as gasoline was detected in SB-6 at 9 feet bgs below the MTCA Method A CUL at 6 feet bgs. Total xylenes, methylene, chloride, and lead were detected below their respective Method A CULs in both samples from SB-6 at 9 and 14 feet bgs. TPH as gasoline and lead were detected below their respective Method A CULs in both samples from SB-7 at 9 and 14 feet bgs. Analytical results for TPH as diesel and oil, for BTE, and for CPAHs in both borings were all non-detect. Analytical results for MTBE, EDC, EDB, and PCBs in SB-6 were all non-detect.

### 4.2 Boring/Well GWR-18S

TPH as gasoline and total xylenes were detected below their respective MTCA Method A CULs at 30 feet bgs at concentrations of 5.03 mg/kg and 0.0169 mg/kg, respectively. TPH as gasoline and total xylenes were detected at 40 feet bgs at concentrations that exceeded the Method A

CULs at 228 mg/kg and 9.05 mg/kg, respectively. The MTCA Method A CULs for TPH as gasoline and total xylenes are 30 mg/kg and 9 mg/kg, respectively. Note that the sample is defined vertically based on prior sampling at GW-18S at 50 feet bgs.

### 4.3 Groundwater Analytical Results

Based on the most recent analytical data collected from site monitoring wells following well installation in May 2022, petroleum related contaminants were found at concentrations above MTCA Method A CULs on the service station property within the area just south of the southern dispenser island complex and within the area of the southeast driveway in wells GW-13S, GW-14S, GW-14D, and GWR-18D. These groundwater conditions are generally consistent with those from preceding sampling events at the site.

A summary of the most recently collected groundwater analytical data for the Site is presented in **Table 2** and **Figure 5.**

## 5. CONCULSIONS AND RECOMMENDATIONS

Atlas completed additional site characterization activities to further assess current conditions at the Site and fill data gaps as requested by Ecology in their opinion letter dated November 17, 2020.

Between May 2 and 3, 2022 Atlas oversaw the advancement of two soil borings near the Former Used Oil UST and the Former Heating Oil UST, samples were submitted for analyses per Table 830-1. Between May 2 and 20, 2022 Atlas oversaw the installation of one shallow and deep monitoring well pair in the vicinity of the existing GW-18S and GW-18D as these wells have consistently been dry. One vertical extent well was also installed adjacent to existing wells GW-14S and GW-14D to assess groundwater below the deep zone at the Site. The wells proposed for within the ROW of Southwest 128th Street were unable to be completed due to City requirements and utility conflicts.

Soil sample results indicate petroleum hydrocarbons were detected at concentrations greater than MTCA Method A CULs in only one (GWR-18S) of the three soil borings sampled during the 2022 investigation. This location is located southwest of the western most dispenser. Specifically, TPH as gasoline and total xylenes were detected at 40 feet bgs at concentrations that exceeded the Method A CULs at 228 mg/kg and 9.05 mg/kg, respectively. The MTCA Method A CULs for TPH as gasoline and total xylenes are 30 mg/kg and 9 mg/kg, respectively.

Groundwater data collected from site monitoring wells in June and September 2022 indicate petroleum related contaminants were found at concentrations above MTCA Method A CULs on the service station property within the area just south of the southern dispenser island complex and within the area of the southeast driveway. While a replacement well was installed to allow sampling in place of GW-18S, replacement well GWR-18S was unable to be sampled due to an insufficient presence of water within the wellhead. Atlas concludes that GW-18S and GWR-18S are likely located in an area with little to no groundwater present within the shallow interval.

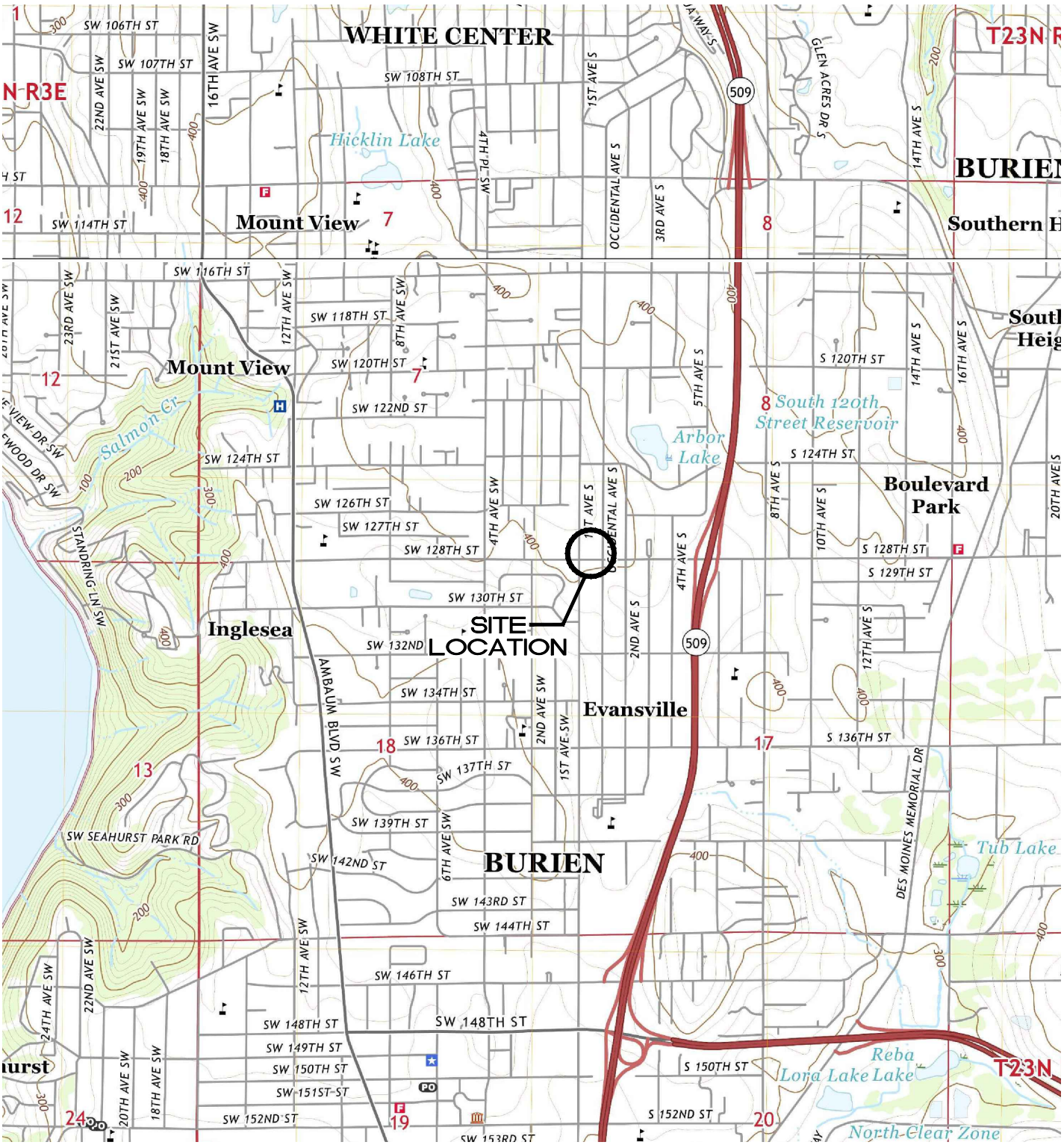
Based on the investigation results from the soil sampling, well installation activities conducted in May 2022, and groundwater sampling activities conducted in June and September 2022, the following can be concluded:

- The data gap regarding non-petroleum constituents (Table 830-1 in WAC 173-340) at the locations of the Former Waste-Oil and Heating Oil USTs is adequately assessed. Soil samples were analyzed per Table 830-1 and detected concentrations were either below their respectively laboratory detection limits or MTCA Method A CUL.
- The vertical extent of groundwater hydrocarbon concentrations is delineated. Analytes were either below their respectively laboratory detection limits or MTCA Method A CUL.
- The horizontal extent of groundwater hydrocarbon concentrations is adequately delineated in all directions. Residual hydrocarbon groundwater concentrations above MTCA Method A are limited to the area south of the southern most dispenser island.

## 6. LIMITATIONS AND RESTRICTIONS

The scope of this report is limited to the matters expressly covered herein. Atlas represents that, within the parameters established by the agreed upon scope of work, this work has been undertaken and performed in a professional manner, in accordance with generally accepted practices, and using the degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances. No other warranty, either expressed or implied, is made.

# FIGURES




0 2000 4000

SCALE, FT

SOURCE: USGS TOPO MAP, DES MOINES & SEATTLE SOUTH, WA QUADS, 2020

# SITE VICINITY MAP

PHILLIPS 66 FACILITY NO. 2701476 (AOC #2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000087 | | DATE: 11/7/22 | FIGURE 1 |
| APPROVED BY: ES | | DRAWN BY: BK | |

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543

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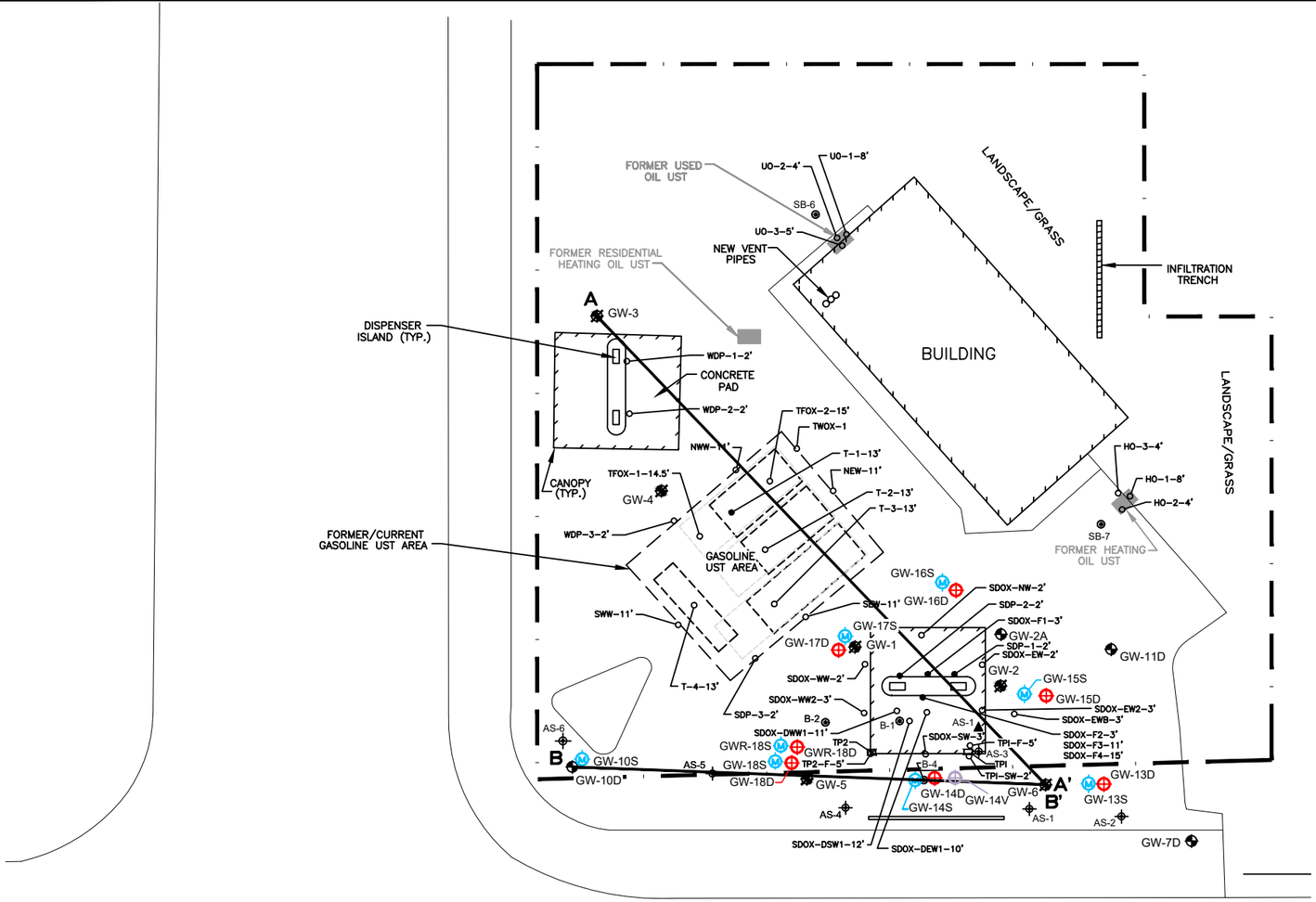
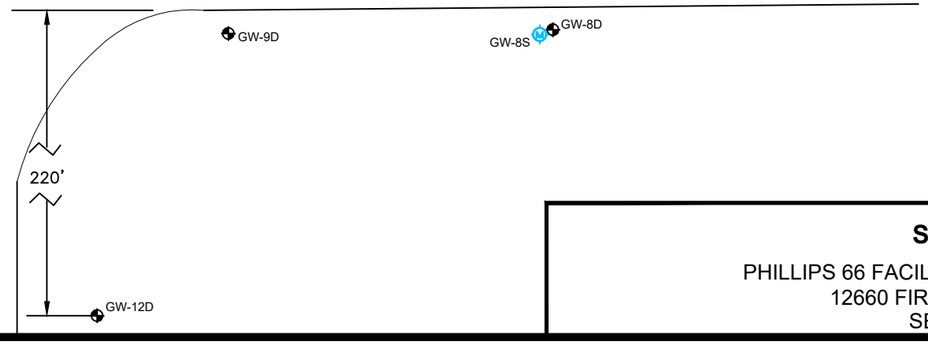



SOUTHWEST 128TH STREET

1ST AVENUE SOUTH




## LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- VERTICAL MONITORING WELL
- DECOMMISSIONED MONITORING WELL
- SOIL BORING (1992)
- AIR SPARGE WELL (1994)
- AIR SPARGE POINT (1998)
- MONITORING WELL (1994/1995)
- SOIL SAMPLE NOT ANALYZED
- SOIL SAMPLE CONTAINING PETROLEUM HYDROCARBONS LESS THAN SCLG'S
- SOIL SAMPLE CONTAINING PETROLEUM HYDROCARBONS GREATER THAN SCLG'S
- TRENCH WITH ID
- FORMER UST
- APPROXIMATE PROPERTY BOUNDARY
- A – A' CROSS SECTION TRANSECT

N

0 30 60

SCALE, FT

NOTE: ALL LOCATIONS ARE APPROXIMATE

# SITE PLAN

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000087 | DATE: 07/06/22 | FIGURE |
| APPROVED BY: ES | DRAWN BY: BK | 2 |

6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543

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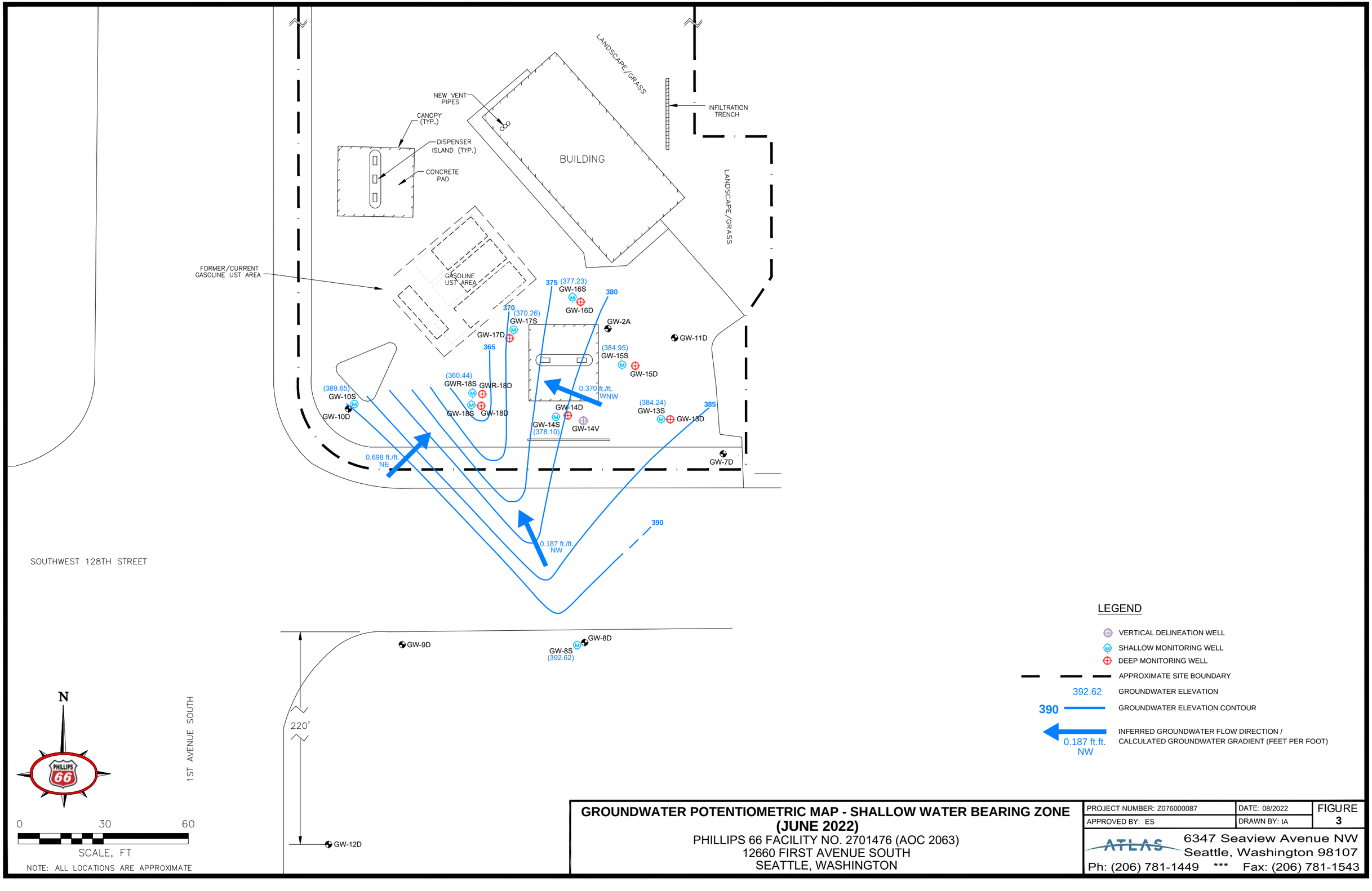


LEGEND

- VERTICAL DELINEATION WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- APPROXIMATE SITE BOUNDARY
- 392.62 GROUNDWATER ELEVATION
- 390 GROUNDWATER ELEVATION CONTOUR
- 0.187 ft./ft. NW INFERRED GROUNDWATER FLOW DIRECTION / CALCULATED GROUNDWATER GRADIENT (FEET PER FOOT)

**GROUNDWATER POTENTIOMETRIC MAP - SHALLOW WATER BEARING ZONE (JUNE 2022)**

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WASHINGTON

| | | |
|---|---|---|
| PROJECT NUMBER: Z076000087 | DATE: 08/2022 | FIGURE 3 |
| APPROVED BY: ES | DRAWN BY: IA | |

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Seattle, Washington 98107
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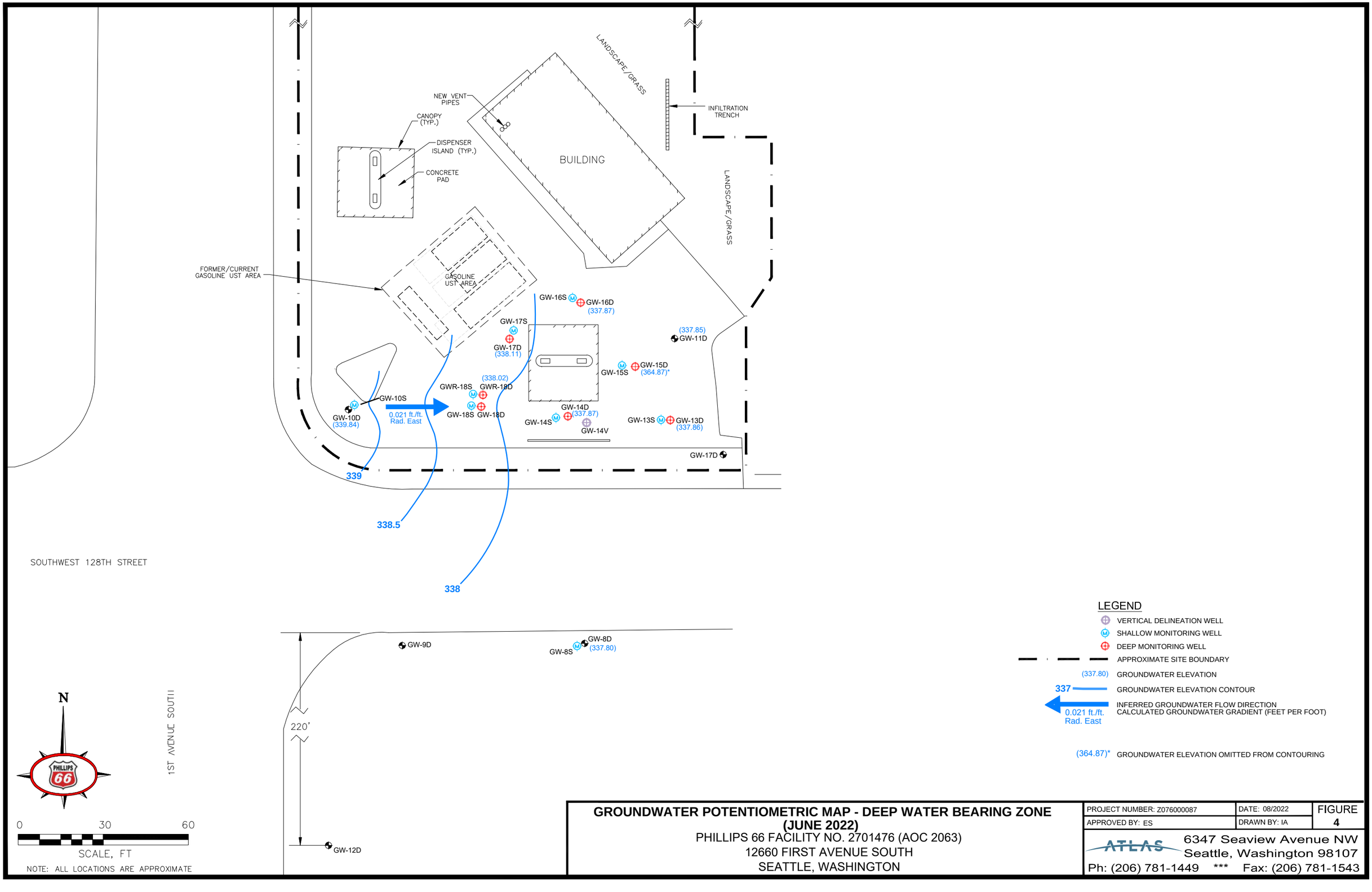


LEGEND

- VERTICAL DELINEATION WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- APPROXIMATE SITE BOUNDARY
- (337.80) GROUNDWATER ELEVATION
- 337 GROUNDWATER ELEVATION CONTOUR
- 0.021 ft./ft. Rad. East — INFERRED GROUNDWATER FLOW DIRECTION CALCULATED GROUNDWATER GRADIENT (FEET PER FOOT)
- (364.87)* GROUNDWATER ELEVATION OMITTED FROM CONTOURING

# GROUNDWATER POTENTIOMETRIC MAP - DEEP WATER BEARING ZONE (JUNE 2022)

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WASHINGTON

| | | |
|---|---|---|
| PROJECT NUMBER: Z076000087 | DATE: 08/2022 | FIGURE 4 |
| APPROVED BY: ES | DRAWN BY: IA | |

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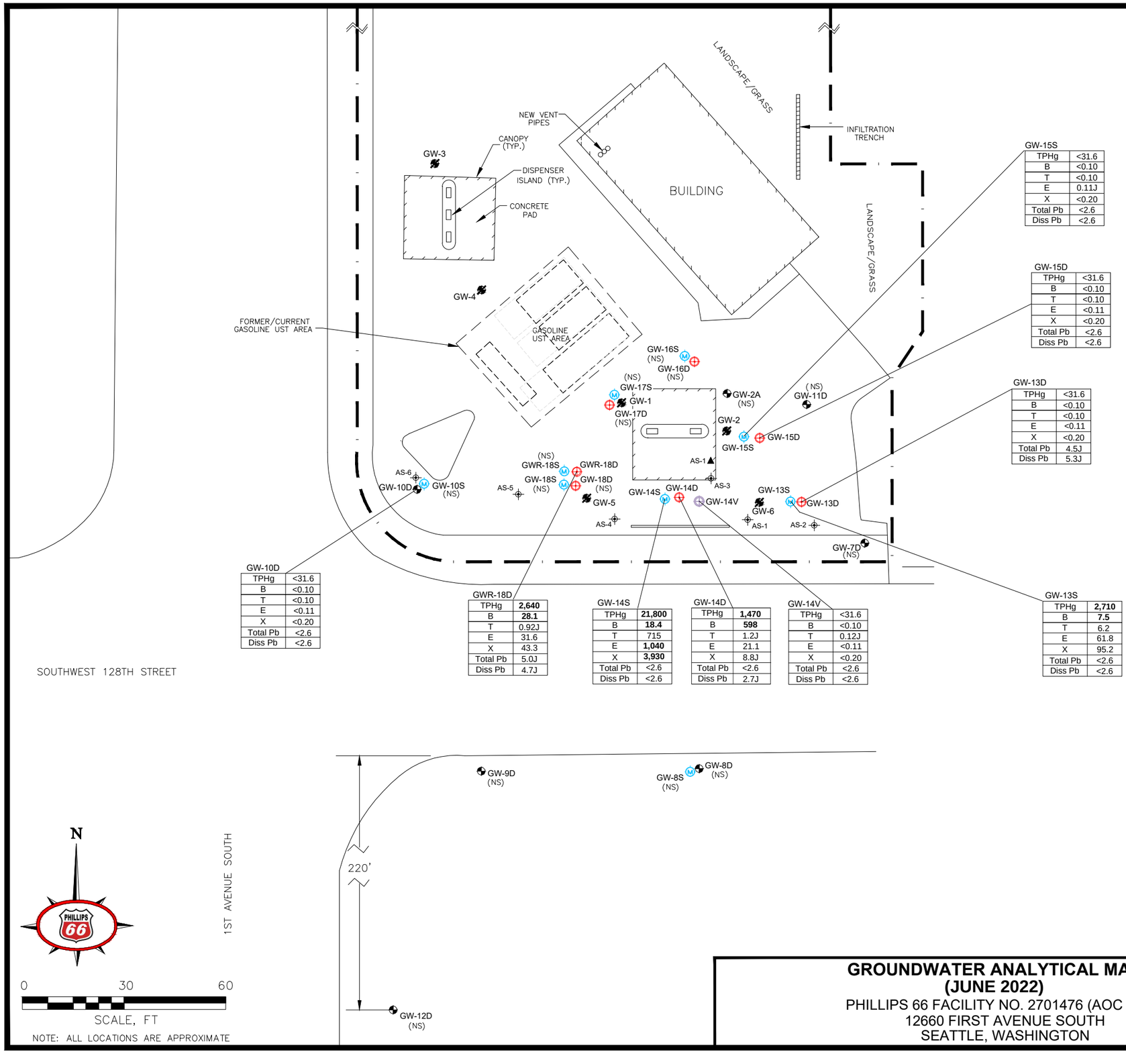
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543




| GW-15S | |
|---|---|
| TPHg | <31.6 |
| B | <0.10 |
| T | <0.10 |
| E | 0.11J |
| X | <0.20 |
| Total Pb | <2.6 |
| Diss Pb | <2.6 |

| GW-15D | |
|---|---|
| TPHg | <31.6 |
| B | <0.10 |
| T | <0.10 |
| E | <0.11 |
| X | <0.20 |
| Total Pb | <2.6 |
| Diss Pb | <2.6 |

| GW-13D | |
|---|---|
| TPHg | <31.6 |
| B | <0.10 |
| T | <0.10 |
| E | <0.11 |
| X | <0.20 |
| Total Pb | 4.5J |
| Diss Pb | 5.3J |

| GW-10D | |
|---|---|
| TPHg | <31.6 |
| B | <0.10 |
| T | <0.10 |
| E | <0.11 |
| X | <0.20 |
| Total Pb | <2.6 |
| Diss Pb | <2.6 |

| GWR-18D | |
|---|---|
| TPHg | **2,640** |
| B | **28.1** |
| T | 0.92J |
| E | 31.6 |
| X | 43.3 |
| Total Pb | 5.0J |
| Diss Pb | 4.7J |

| GW-14S | |
|---|---|
| TPHg | **21,800** |
| B | **18.4** |
| T | 715 |
| E | **1,040** |
| X | **3,930** |
| Total Pb | <2.6 |
| Diss Pb | <2.6 |

| GW-14D | |
|---|---|
| TPHg | **1,470** |
| B | **598** |
| T | 1.2J |
| E | 21.1 |
| X | 8.8J |
| Total Pb | <2.6 |
| Diss Pb | 2.7J |

| GW-14V | |
|---|---|
| TPHg | <31.6 |
| B | <0.10 |
| T | 0.12J |
| E | <0.11 |
| X | <0.20 |
| Total Pb | <2.6 |
| Diss Pb | <2.6 |

| GW-13S | |
|---|---|
| TPHg | **2,710** |
| B | **7.5** |
| T | 6.2 |
| E | 61.8 |
| X | 95.2 |
| Total Pb | <2.6 |
| Diss Pb | <2.6 |

## LEGEND

- VERTICAL DELINEATION WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DECOMMISSIONED MONITORING WELL
- AIR SPARGE WELL (1994)
- AIR SPARGE POINT (1998)
- MONITORING WELL (1992 and 1994/1995)
- APPROXIMATE SITE BOUNDARY

| | | |
|---|---|---|
| TPHg | <31.6 | TOTAL PETROLEUM HYDROCARBONS AS GASOLINE |
| B | <0.10 | BENZENE |
| T | <0.10 | TOLUENE |
| E | <0.11 | ETHYLBENZENE |
| X | <0.20 | TOTAL XYLENES |
| Total Pb | <2.6 | TOTAL LEAD |
| Diss Pb | <2.6 | DISSOLVED LEAD |

ALL ANALYTICAL RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L)

**BOLD** CONCENTRATION EQUAL TO OR EXCEEDS MTCA METHOD–A CLEANUP LEVEL

(NS) NOT SAMPLED

J ESTIMATED CONCENTRATION ABOVE THE ADJUSTED METHOD DETECTION LIMIT AND BELOW THE ADJUSTED REPORTING LIMIT

# GROUNDWATER ANALYTICAL MAP (JUNE 2022)

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WASHINGTON

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000087 | | DATE: 07/2022 | FIGURE 5 |
| APPROVED BY: ES | | DRAWN BY: IA | |

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543

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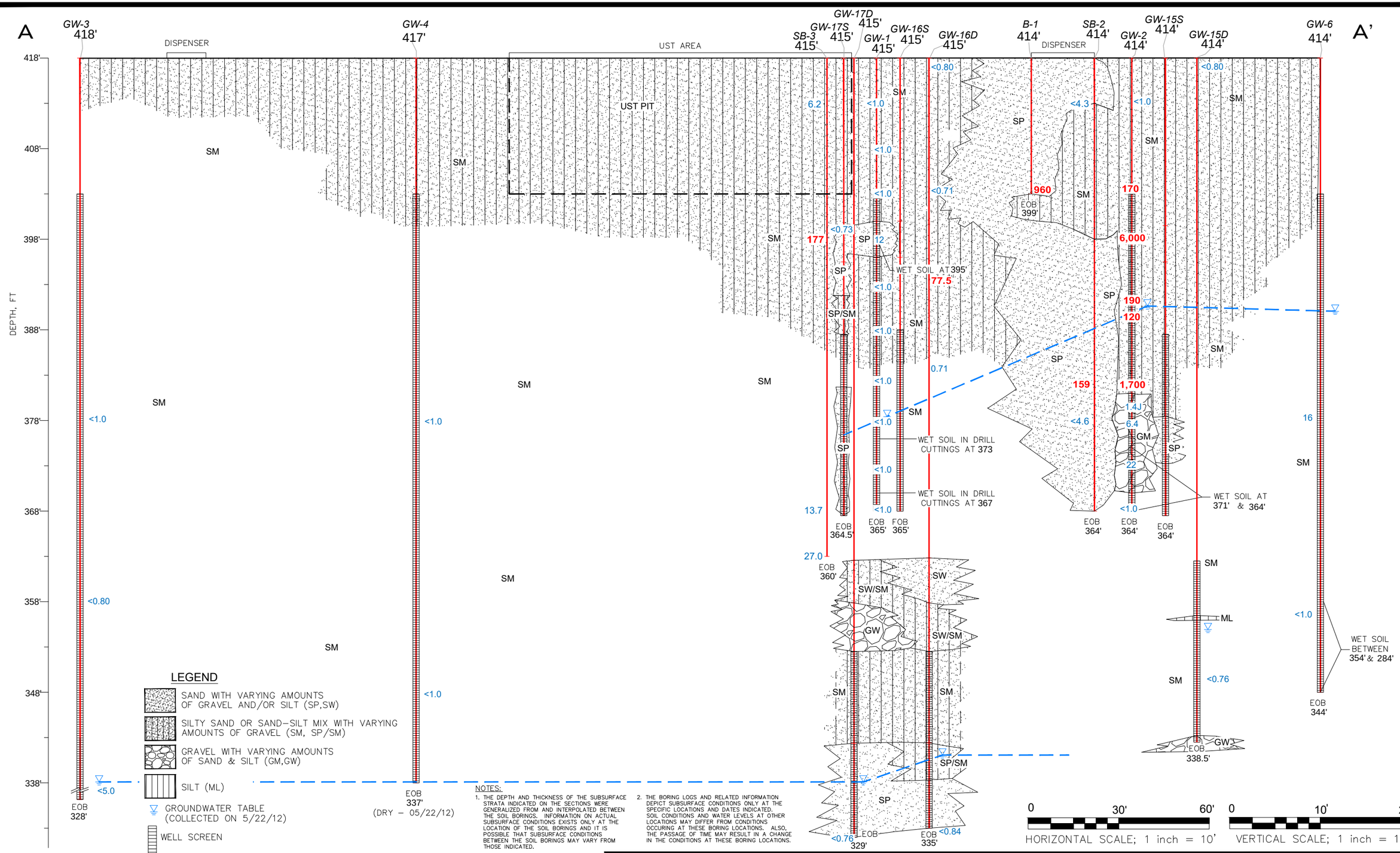


# CROSS SECTION A - A'

PHILLIPS 66 FACILITY NO. 2701476 (AOC #2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000070 | | DATE: 3/8/19 | FIGURE 6 |
| APPROVED BY: ES | | DRAWN BY: BK | |


ATC
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543


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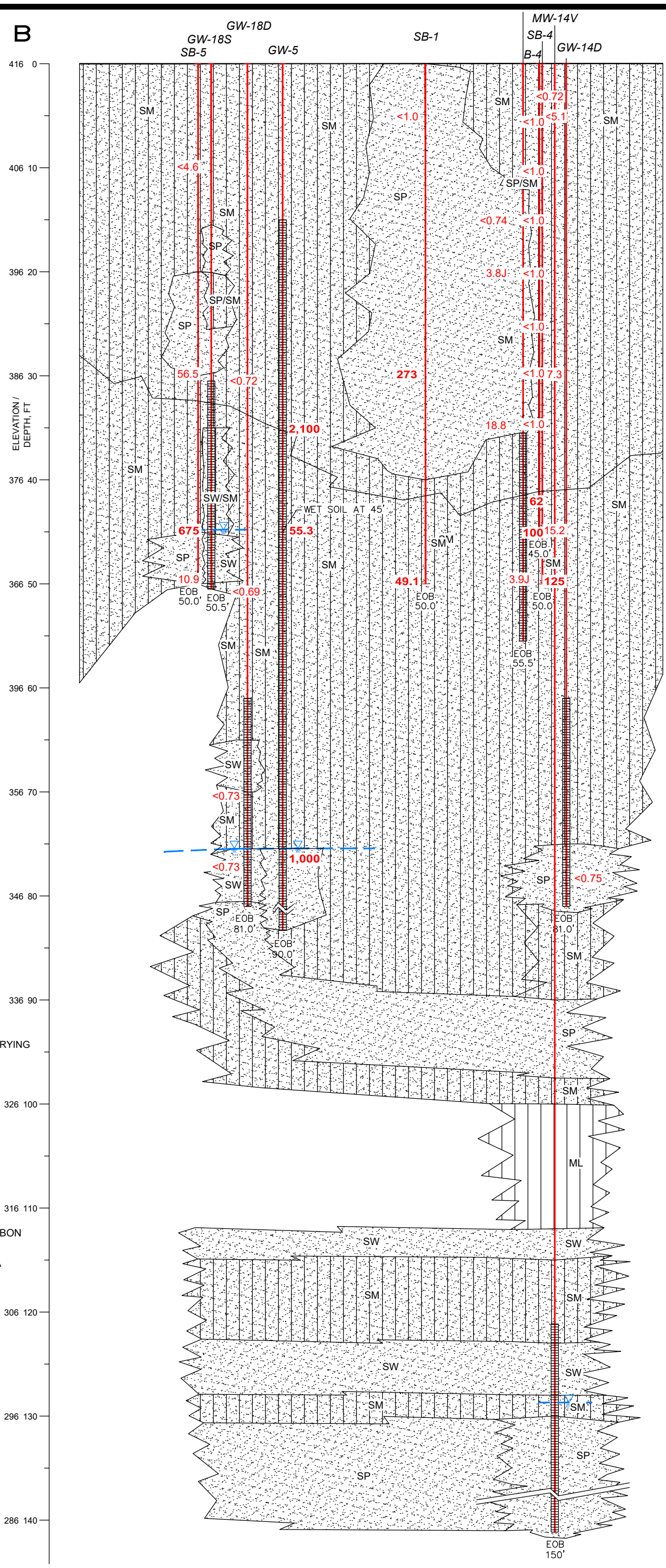


## LEGEND

- SAND WITH VARYING AMOUNTS OF GRAVEL AND/OR SILT (SP,SW)
- SILTY SAND OR SAND-SILT MIX WITH VARYING AMOUNTS OF GRAVEL (SM, SP/SM)
- SILT (ML)
- GROUNDWATER TABLE (COLLECTED ON 5/22/12)
- WELL SCREEN

56.5 TPHg - GASOLINE RANGE HYDROCARBON CONCENTRATION (mg/kg)

**BOLD** VALUE EQUAL TO OR EXCEEDS MTCA METHOD A CLEANUP LEVEL

0 10 20

APPROX. VERTICAL SCALE, FT

0 10 20

APPROX. HORIZ. SCALE, FT

NOTES:

1. THE DEPTH AND THICKNESS OF THE SUBSURFACE STRATA INDICATED ON THE SECTIONS WERE GENERALIZED FROM AND INTERPOLATED BETWEEN THE SOIL BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE SOIL BORINGS AND IT IS POSSIBLE THAT SUBSURFACE CONDITIONS BETWEEN THE SOIL BORINGS MAY VARY FROM THOSE INDICATED.

2. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE BORING LOCATIONS.

# CROSS SECTION B - B'

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000070 | | DATE: 10/11/22 | FIGURE 7 |
| APPROVED BY: ES | | DRAWN BY: BK | |

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543

S:\Projects\76\75000 COP\2063\SECTB_101022.dwg

# TABLES

**TABLE 1A**
**SUMMARY OF HISTORICALSOIL ANALYTICAL RESULTS**
Former Phillips 66 Facility 2701476 (AOC #2063)
12660 First Avenue, South
Seattle, Washington


| Sample Name | Boring/Well ID | Sample Date | Sample Depth (ft bgs) | TPHg (mg/kg) | TPHd (mg/kg) | TPHo (mg/kg) | TRPH (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | Total Pb (mg/kg) | MTBE (mg/kg) | EDB (mg/kg) | EDC (mg/kg) | Total PCBs (mg/kg) | Methylene Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Environmental Science & Engineering, Inc. (ESE) - Removal of "Unknown Owner" Underground Storage Tank, March 2, 1992:** | | | | | | | | | | | | | | | | | |
| UT-F[1] | NA | 02/04/92 | 5 | -- | 1,500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UT-NW | NA | 02/04/92 | 2 | -- | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UT-WW[1] | NA | 02/04/92 | 2 | -- | 19,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UT-EW[1] | NA | 02/04/92 | 2 | -- | 15,000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SP-1 | Stockpile | 02/04/92 | Stockpile | -- | 4,500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SP-2 | Stockpile | 02/04/92 | Stockpile | -- | 2,100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UT-FOX | NA | 02/06/92 | 9 | -- | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UT-WWOX | NA | 02/06/92 | 7 | -- | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | ` | -- | -- |
| UT-EWOX | NA | 02/06/92 | 6 | -- | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **ESE - Results of a Tank Removal and Soil Removal Program at the Circle K Facility, April 6, 1992:** | | | | | | | | | | | | | | | | | |
| *Samples From Gasoline UST Excavation:* | | | | | | | | | | | | | | | | | |
| T-1[1] | NA | 01/08/92 | 13.0 | **400** | -- | -- | -- | **1.5** | 6.4 | **7.2** | **45** | -- | -- | -- | -- | -- | -- |
| T-2 | NA | 01/07/92 | 13.0 | 3.4 | -- | -- | -- | <0.050 | <0.10 | <0.10 | 0.16 | 9.6 | -- | -- | -- | -- | -- |
| T-3 | NA | 01/07/92 | 13.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| T-4 | NA | 01/08/92 | 13.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SWW | NA | 01/08/92 | 11.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SEW | NA | 01/08/92 | 11.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| NEW | NA | 01/07/92 | 11.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| NWW | NA | 01/08/92 | 11.0 | 1.7 | -- | -- | -- | **0.15** | 0.22 | ND | 0.3 | -- | -- | -- | -- | -- | -- |
| *Samples From Beneath Dispenser Island:* | | | | | | | | | | | | | | | | | |
| WDP-1 | NA | 01/09/92 | 2.0 | 1.5 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | 11 | -- | -- | -- | -- | -- |
| WDP-2 | NA | 01/09/92 | 2.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| WDP-3 | NA | 01/09/92 | 2.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SDP-1[1] | NA | 01/09/92 | 2.0 | **2,000** | -- | -- | -- | <0.050 | **10** | **6** | **160** | -- | -- | -- | -- | -- | -- |
| SDP-2[1] | NA | 01/09/92 | 2.0 | **3,300** | 680 | -- | -- | **8.6** | **150** | **26** | **390** | 8.2 | -- | -- | -- | -- | -- |
| SDP-3 | NA | 01/09/92 | 2.0 | 1.1 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| *Samples of Material Excavated from Gasoline UST Area:* | | | | | | | | | | | | | | | | | |
| FSP-1 | Stockpile | 01/09/92 | Stockpile | **130** | 36 | -- | -- | <0.050 | <0.10 | <0.10 | 1.5 | -- | -- | -- | -- | -- | -- |
| FSP-2 | Stockpile | 01/09/92 | Stockpile | **200** | -- | -- | -- | <0.050 | 0.13 | 0.65 | 6.2 | -- | -- | -- | -- | -- | -- |
| FSP-3 | Stockpile | 01/09/92 | Stockpile | **200** | -- | -- | -- | <0.050 | 0.18 | 0.72 | 6.5 | -- | -- | -- | -- | -- | -- |
| FSP-4 | Stockpile | 01/09/92 | Stockpile | **120** | -- | -- | -- | <0.050 | <0.10 | 0.29 | 3 | -- | -- | -- | -- | -- | -- |
| FSP-5 | Stockpile | 01/09/92 | Stockpile | **140** | -- | -- | -- | <0.050 | 0.27 | 0.47 | 4.2 | -- | -- | -- | -- | -- | -- |
| FSP-6 | Stockpile | 01/09/92 | Stockpile | **300** | 52 | -- | -- | <0.050 | 0.43 | 1.6 | **15** | -- | -- | -- | -- | -- | -- |
| FSP-7 | Stockpile | 01/09/92 | Stockpile | 81 | -- | -- | -- | <0.050 | 0.76 | <0.10 | 1.4 | 7.5 | -- | -- | -- | -- | -- |
| *Confirmation Samples From Over-Excavation Limits Beneath 6,000-gallon UST* | | | | | | | | | | | | | | | | | |
| TFOX-1 | NA | 01/17/92 | 14.5 | 2.1 | -- | -- | -- | **0.067** | <0.10 | <0.10 | 0.14 | -- | -- | -- | -- | -- | -- |
| TFOX-2 | NA | 01/17/92 | 15.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| TWOX-1 | NA | 01/17/92 | unknown** | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| *Confirmation Samples From Over-Excavation Limits Near Southern Pump Island - North Side* | | | | | | | | | | | | | | | | | |
| SDOX-F1 | NA | 01/23/92 | 3.0 | **110** | -- | -- | -- | <0.050 | 0.26 | 0.49 | 8.5 | -- | -- | -- | -- | -- | -- |
| SDOX-WW | NA | 01/23/92 | 2.0 | **45** | -- | -- | -- | <0.050 | <0.10 | <0.10 | 0.11 | -- | -- | -- | -- | -- | -- |
| SDOX-NW | NA | 01/23/92 | 2.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SDOX-EW | NA | 01/23/92 | 2.0 | 1.4 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| *Confirmation Samples From Over-Excavation Limits Near Southern Pump Island - South Side* | | | | | | | | | | | | | | | | | |
| TP1-F | NA | 01/23/92 | 5.0 | 2.5 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| TP1-SW | NA | 01/23/92 | 2.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| TP2-F | NA | 01/23/92 | 5.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SDOX-F2 | NA | -- | 3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SDOX-F3 | NA | 02/19/92 | 11.0 | **69** | -- | -- | -- | **0.91** | 2.9 | 0.97 | 6 | -- | -- | -- | -- | -- | -- |
| SDOX-F4 | NA | 02/20/92 | 15.0 | **150** | -- | -- | -- | **0.47** | 4.7 | 2.8 | **18** | -- | -- | -- | -- | -- | -- |
| SDOX-SW | NA | 02/19/92 | 5.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SDOX-WW2 | NA | 02/19/92 | 3.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SDOX-EW2 | NA | -- | 5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 1A**
**SUMMARY OF HISTORICALSOIL ANALYTICAL RESULTS**
Former Phillips 66 Facility 2701476 (AOC #2063)
12660 First Avenue, South
Seattle, Washington


| Sample Name | Boring/Well ID | Sample Date | Sample Depth (ft bgs) | TPHg (mg/kg) | TPHd (mg/kg) | TPHo (mg/kg) | TRPH (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | Total Pb (mg/kg) | MTBE (mg/kg) | EDB (mg/kg) | EDC (mg/kg) | Total PCBs (mg/kg) | Methylene Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SDOX-EW3 | NA | 02/19/92 | 5.0 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SDOX-DWW1 | NA | 02/20/92 | 11.0 | **470** | -- | -- | -- | **1.4** | **14** | **7.9** | **48** | -- | -- | -- | -- | -- | -- |
| SDOX-DSW1 | NA | 02/20/92 | 12.0 | **1,200** | -- | -- | -- | **4.9** | **69** | **36** | **210** | -- | -- | -- | -- | -- | -- |
| SDOX-DEW1 | NA | 02/20/92 | 10.0 | **57** | -- | -- | -- | <0.050 | 0.36 | 0.42 | 2.3 | -- | -- | -- | -- | -- | -- |
| ESE - Results of Limited Site Assessment, Circle K Facility 1476, 12660 1st Avenue South, Seattle (Burien), Washington - July 9, 1992: | | | | | | | | | | | | | | | | | |
| B-1 | B-1 | 04/20/92 | 15 | **960** | -- | -- | -- | **0.62** | **34** | **18** | **110** | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 5 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 10 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 15 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 20 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 25 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 30 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 35 | <1.0 | -- | -- | -- | **0.098** | 0.2 | <0.10 | 0.16 | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 40 | **62** | -- | -- | -- | **0.11** | 0.71 | 0.42 | 2.7 | -- | -- | -- | -- | -- | -- |
| B-4 | B-4 | 05/04/92 | 45 | **100** | -- | -- | -- | **3.7** | **9.1** | 1.6 | 8.9 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 5 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 10 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 15 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 20 | 12 | -- | -- | -- | **0.7** | 1.8 | 0.24 | 1.5 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 25 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 30 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 35 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 40 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 45 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-1 | B-5 | 05/05/92 | 50 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 5 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 15 | **170** | -- | -- | -- | **0.47** | 3.1 | 1.4 | 8.5 | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 20 | **6,000** | -- | -- | -- | **43** | **240** | **74** | **440** | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 25 | **190** | -- | -- | -- | **1.4** | **9** | 3.1 | **17** | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 30 | **120** | -- | -- | -- | **0.94** | 5.2 | 1.9 | **12** | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 35 | **1,700** | -- | -- | -- | **13** | **91** | **28** | **180** | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 40 | 6.4 | -- | -- | -- | 0.13 | 0.38 | <0.10 | 0.6 | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 45 | 22 | -- | -- | -- | <0.050 | 1.3 | 0.44 | 2.5 | -- | -- | -- | -- | -- | -- |
| MW-2 | B-3 | 05/04/92 | 50 | <1.0 | -- | -- | -- | <0.050 | <0.10 | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- |
| SEACOR - Additional Site Assessment Investigation Report, August 5, 1994: | | | | | | | | | | | | | | | | | |
| MW-3 | MW-3 | 04/19/94 | 40 - 40.5 | <1.0 | -- | -- | -- | <0.1 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-3 | MW-3 | 04/19/94 | 60 - 60.5 | <1.0 | -- | -- | -- | <0.1 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-4 | MW-4 | 04/19/94 | 40 - 40.5 | <1.0 | -- | -- | -- | <0.1 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-4 | MW-4 | 04/19/94 | 70 - 70.5 | <1.0 | -- | -- | -- | <0.1 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-5 | MW-5 | 04/20/94 | 35 - 35.5 | **2,100** | -- | -- | -- | <0.1 | **40** | **23** | **140** | <10 | -- | -- | -- | -- | -- |
| MW-5 | MW-5 | 04/20/94 | 75 - 75.5 | **1,000** | -- | -- | -- | **3.8** | **37** | **14** | **78** | <10 | -- | -- | -- | -- | -- |
| MW-6 | MW-6 | 04/20/94 | 40 - 40.5 | 16 | -- | -- | -- | **0.1** | 0.33 | 0.1 | 0.63 | <10 | -- | -- | -- | -- | -- |
| MW-6 | MW-6 | 04/20/94 | 60 - 60.5 | <1.0 | -- | -- | -- | **0.12** | 0.11 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| AI-1 | AI-1 | 04/20/94 | 20 - 20.5 | 11 | -- | -- | -- | **0.17** | 0.42 | 0.2 | 1.0 | <10 | -- | -- | -- | -- | -- |
| AI-1 | AI-1 | 04/20/94 | 40 - 40.5 | 4.9 | -- | -- | -- | **0.11** | 0.18 | <0.1 | 0.21 | <10 | -- | -- | -- | -- | -- |
| SEACOR - Additional On-Site and Initional Off-Site Subsurface Investigation, January 9, 1995: | | | | | | | | | | | | | | | | | |
| MW-3 | Recompleted | 10/25/94 | 80 - 80.5 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-7 | MW-7 | 10/26/94 | 70.5 - 71.0 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-7 | MW-7 | 10/26/94 | 75.5 - 76.0 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-8 | MW-8 | 10/27/94 | 70.5 - 71.0 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-8 | MW-8 | 10/27/94 | 75.5 - 76.0 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-8 | MW-8 | 10/27/94 | 80.5 - 81.0 | 17 | -- | -- | -- | **2.11** | 2.8 | 0.3 | 1.4 | <10 | -- | -- | -- | -- | -- |
| MW-9 | MW-9 | 10/25/94 | 61.0 - 61.5 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |

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Former Phillips 66 Facility 2701476 (AOC #2063)
12660 First Avenue, South
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| Sample Name | Boring/Well ID | Sample Date | Sample Depth (ft bgs) | TPHg (mg/kg) | TPHd (mg/kg) | TPHo (mg/kg) | TRPH (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | Total Pb (mg/kg) | MTBE (mg/kg) | EDB (mg/kg) | EDC (mg/kg) | Total PCBs (mg/kg) | Methylene Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-9 | MW-9 | 10/25/94 | 75.0 - 75.5 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-9 | MW-9 | 10/25/94 | 80.8 - 80.5 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-10 | MW-10 | 10/27/94 | 80.5 - 81.0 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-11 | MW-11 | 10/26/94 | 70.5 - 71.0 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-9 | MW-9 | 10/25/94 | 75.5 - 76.0 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| **SEACOR - Additional On-Site and Initional Off-Site Subsurface Investigation, January 9, 1995:** | | | | | | | | | | | | | | | | | |
| MW-12 | MW-12 | 04/18/95 | 55 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| MW-12 | MW-12 | 04/18/95 | 70 | <5.0 | -- | -- | -- | <0.05 | <0.1 | <0.1 | <0.1 | <10 | -- | -- | -- | -- | -- |
| **SEACOR - Decommissioning and Site Assessment of the Used Oil and the Fuel Oil Underground Storage Tanks, September 19, 1995:** | | | | | | | | | | | | | | | | | |
| *Confirmation Samples From Used Oil Tank Excavation* | | | | | | | | | | | | | | | | | |
| SP-1 | stockpile | 08/07/95 | NA | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SP-2 | stockpile | 08/07/95 | NA | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SP-3 | stockpile | 08/07/95 | NA | -- | -- | -- | 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UO-1 | bottom | 08/07/95 | 8 | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UO-2 | NW sidewall | 08/07/95 | 4 | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UO-3 | SE sidewall | 08/07/95 | 5 | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| *Confirmation Samples From Fuel Oil Tank Excavation* | | | | | | | | | | | | | | | | | |
| SP-4 | stockpile | 08/07/95 | NA | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SP-5 | stockpile | 08/07/95 | NA | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SP-6 | stockpile | 08/07/95 | NA | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HO-1 | bottom | 08/07/95 | 8 | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HO-2 | S-SE sidewall | 08/07/95 | 4 | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HO-3 | N-NW sidewall | 08/07/95 | 4 | -- | -- | -- | <25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Cardno ATC - Post Remediation Soil Assessment, Phillips 66 Facility No. 2701476 (AOC #2063), 12660 First Avenue, South, Seattle, Washington - April 10, 2013:** | | | | | | | | | | | | | | | | | |
| SB-1-5' | SB-1 | 07/18/12 | 5 | <4.7 | -- | -- | -- | <0.0026 | <0.0026 | <0.0026 | <0.0079 | 1.5 | <0.0026 | <0.0026 | <0.0026 | -- | -- |
| SB-1-30' | SB-1 | 07/18/12 | 30 | **273** | -- | -- | -- | 0.0135 | 0.873 | 1.59 | **11** | 1.1 | <0.0027 | <0.0027 | <0.0027 | -- | -- |
| SB-1-50' | SB-1 | 07/18/12 | 50 | **49.1** | -- | -- | -- | **0.172** | 0.800 | 0.459 | 2.99 | 0.88 | <0.0027 | <0.0027 | <0.0027 | -- | -- |
| SB-2-5' | SB-2 | 07/18/12 | 5 | <4.3 | -- | -- | -- | <0.0027 | <0.0027 | <0.0027 | <0.0081 | 2.2 | <0.0027 | <0.0027 | <0.0027 | -- | -- |
| SB-2-35' | SB-2 | 07/18/12 | 35 | **159** | -- | -- | -- | <0.0027 | 0.0079 | 0.0198 | 0.104 | 1.0 | <0.0027 | <0.0027 | <0.0027 | -- | -- |
| SB-2-40' | SB-2 | 07/18/12 | 40 | <4.6 | -- | -- | -- | <0.0029 | <0.0029 | <0.0029 | <0.0088 | 1.1 | <0.0029 | <0.0029 | <0.0029 | -- | -- |
| SB-3-5' | SB-3 | 07/19/12 | 5 | 6.2 | -- | -- | -- | <0.0026 | <0.0026 | <0.0026 | <0.0079 | 10.4 | <0.0026 | <0.0026 | <0.0026 | -- | -- |
| SB-3-20' | SB-3 | 07/19/12 | 20 | **177** | -- | -- | -- | <0.0025 | 0.0164 | 0.0144 | 0.078 | 1.0 | <0.0025 | <0.0025 | <0.0025 | -- | -- |
| SB-3-50' | SB-3 | 07/19/12 | 50 | 13.7 | -- | -- | -- | <0.0025 | 0.0049 | 0.0051 | 0.032 | 1.2 | <0.0025 | <0.0025 | <0.0025 | -- | -- |
| SB-3-55' | SB-3 | 07/19/12 | 55 | 27.0 | -- | -- | -- | <0.0029 | 0.0075 | 0.0135 | 0.080 | 1.7 | <0.0029 | <0.0029 | <0.0029 | -- | -- |
| SB-4-5' | SB-4 | 07/19/12 | 5 | <5.1 | -- | -- | -- | <0.0026 | <0.0026 | <0.0026 | <0.0078 | 1.6 | <0.0026 | <0.0026 | <0.0026 | -- | -- |
| SB-4-30' | SB-4 | 07/19/12 | 30 | 7.3 | -- | -- | -- | <0.0029 | 0.0084 | 0.0085 | 0.133 | 0.99 | <0.0029 | <0.0029 | <0.0029 | -- | -- |
| SB-4-45' | SB-4 | 07/19/12 | 45 | 15.2 | -- | -- | -- | 0.0275 | 0.124 | 0.246 | 0.00114 | 1.2 | <0.0026 | <0.0026 | <0.0026 | -- | -- |
| SB-4-50' | SB-4 | 07/19/12 | 50 | **125** | -- | -- | -- | **0.113** | 2.560 | 1.470 | 0.0835 | 0.94 | <0.0032 | <0.0032 | <0.0032 | -- | -- |
| SB-5-10' | SB-5 | 07/19/12 | 10 | <4.6 | -- | -- | -- | <0.0025 | <0.0025 | <0.0025 | <0.0076 | 1.2 | <0.0025 | <0.0025 | <0.0025 | -- | -- |
| SB-5-30' | SB-5 | 07/19/12 | 30 | **56.5** | -- | -- | -- | <0.0026 | 0.0028 | 0.0034 | 0.0138 | 1.2 | <0.0026 | <0.0026 | <0.0026 | -- | -- |
| SB-5-45' | SB-5 | 07/19/12 | 45 | **675** | -- | -- | -- | 0.0077 | 1.440 | 2.530 | **20.1** | 1.0 | <0.0024 | <0.0024 | <0.0024 | -- | -- |
| SB-5-50' | SB-5 | 07/19/12 | 50 | 10.9 | -- | -- | -- | 0.0059 | 0.0594 | 0.0205 | 0.128 | 1.0 | <0.0027 | <0.0027 | <0.0027 | -- | -- |
| **ATC - 2018 Well Installation, Phillips 66 Facility No. 2701476 (AOC #2063), October, 2018:** | | | | | | | | | | | | | | | | | |
| GW-8S-5 | GW-8S | 10/17/18 | 5 | <0.78 | -- | -- | -- | <0.0033 | <0.0142 | <0.0032 | <0.0135 | 1.6 | -- | -- | -- | -- | -- |
| GW-8S-15 | GW-8S | 10/30/18 | 15 | <0.68 | -- | -- | -- | <0.0029 | <0.0125 | <0.0028 | <0.0119 | 1.1 | -- | -- | -- | -- | -- |
| GW-8S-40 | GW-8S | 10/30/18 | 40 | <0.71 | -- | -- | -- | <0.0031 | <0.0135 | <0.0030 | <0.0128 | 1.2 | -- | -- | -- | -- | -- |
| GW-10S-5.5 | GW-10S | 10/29/18 | 5.5 | <0.75 | -- | -- | -- | <0.0030 | <0.0130 | <0.0029 | <0.0123 | 2.2 | -- | -- | -- | -- | -- |
| GW-10S-15 | GW-10S | 10/29/18 | 15 | <0.71 | -- | -- | -- | <0.0032 | <0.139 | <0.0031 | <0.0132 | 1.2 | -- | -- | -- | -- | -- |
| GW-10S-30 | GW-10S | 10/29/18 | 30 | <0.74 | -- | -- | -- | <0.0031 | <0.0136 | <0.0030 | <0.0130 | 1.2 | -- | -- | -- | -- | -- |
| GW-13S-5 | GW-13S | 10/09/18 | 5 | <0.74 | <2.7 | <4.7 | -- | <0.0033 | <0.0141 | <0.0031 | <0.0134 | 1.4 | -- | -- | -- | -- | -- |
| GW-13S-20 | GW-13S | 10/11/18 | 20 | <0.71 | <2.6 | <4.7 | -- | <0.0030 | <0.0130 | <0.0029 | <0.0124 | 1.2 | -- | -- | -- | -- | -- |
| GW-13S-40 | GW-13S | 10/11/18 | 40 | <0.70 | <2.6 | <4.7 | -- | <0.0030 | <0.0131 | 0.0093 J | <0.0125 | 1.2 | -- | -- | -- | -- | -- |
| GW-13S-50 | GW-13S | 10/11/18 | 50 | <0.74 | <2.6 | <4.7 | -- | <0.0031 | <0.0132 | <0.0029 | <0.0126 | 1.3 | -- | -- | -- | -- | -- |

**TABLE 1A**
**SUMMARY OF HISTORICALSOIL ANALYTICAL RESULTS**
Former Phillips 66 Facility 2701476 (AOC #2063)
12660 First Avenue, South
Seattle, Washington


| Sample Name | Boring/Well ID | Sample Date | Sample Depth (ft bgs) | TPHg (mg/kg) | TPHd (mg/kg) | TPHo (mg/kg) | TRPH (mg/kg) | B (mg/kg) | T (mg/kg) | E (mg/kg) | X (mg/kg) | Total Pb (mg/kg) | MTBE (mg/kg) | EDB (mg/kg) | EDC (mg/kg) | Total PCBs (mg/kg) | Methylene Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-13D-60 | GW-13D | 10/12/18 | 60 | <0.93 | -- | -- | -- | **0.553** | <0.0150 | <0.0033 | <0.0142 | 3.7 | -- | -- | -- | -- | -- |
| GW-13D-85 | GW-13D | 10/12/18 | 85 | <0.79 | -- | -- | -- | <0.0032 | <0.0138 | <0.0031 | <0.0131 | 1.2 | -- | -- | -- | -- | -- |
| GW-14S-15 | GW-14S | 10/17/18 | 15 | <0.74 | -- | -- | -- | <0.0032 | <0.0137 | <0.0031 | <0.0131 | 1.1 | -- | -- | -- | -- | -- |
| GW-14S-20 | GW-14S | 10/17/18 | 20 | 3.8J | -- | -- | -- | <0.0031 | <0.0134 | 0.206 | 1.290 | 1.2 | -- | -- | -- | -- | -- |
| GW-14S-35 | GW-14S | 10/17/18 | 35 | 18.8 | -- | -- | -- | <0.0030 | <0.0128 | 0.160 | 0.724 | 1.2 | -- | -- | -- | -- | -- |
| GW-14S-50 | GW-14S | 10/17/18 | 50 | 3.9J | -- | -- | -- | 0.0206 J | 0.107 | 0.111 | 0.791 | 1.1 | -- | -- | -- | -- | -- |
| GW-14D-3 | GW-14D | 10/16/18 | 3 | <0.71 | -- | -- | -- | <0.0030 | <0.0129 | <0.0029 | <0.0123 | 1.6 | -- | -- | -- | -- | -- |
| GW-14D-80 | GW-14D | 10/18/18 | 80 | <0.75 | -- | -- | -- | <0.0031 | <0.0135 | <0.0030 | <0.0128 | 1.4 | -- | -- | -- | -- | -- |
| GW-15S-40 | GW-15S | 10/15/18 | 40 | 1.4 J | -- | -- | -- | <0.0029 | <0.0124 | 0.0358 J | <0.0118 | 1.3 | -- | -- | -- | -- | -- |
| GW-15D-3 | GW-15D | 10/10/18 | 3 | <0.80 | <3.0 | <5.3 | -- | <0.0034 | <0.0145 | <0.032 | <0.0138 | 1.8 | -- | -- | -- | -- | -- |
| GW-15D-70 | GW-15D | 10/16/18 | 70 | <0.76 | -- | -- | -- | <0.0034 | <0.0145 | <0.0032 | <0.0138 | 1.4 | -- | -- | -- | -- | -- |
| GW-16D-3 | GW-16D | 10/11/18 | 3 | <0.72 | <2.7 | <4.8 | -- | <0.0031 | <0.0132 | <0.0029 | <0.0126 | 2.0 | -- | -- | -- | -- | -- |
| GW-16D-15 | GW-16D | 10/25/18 | 15 | <0.71 | -- | -- | -- | <0.0030 | <0.0132 | <0.0029 | <0.0125 | 1.1 | -- | -- | -- | -- | -- |
| GW-16D-25 | GW-16D | 10/25/18 | 25 | **77.5** | -- | -- | -- | <0.0030 | 0.0658 | 2.310 | **13.100** | 1.1 | -- | -- | -- | -- | -- |
| GW-16D-35 | GW-16D | 10/25/18 | 35 | <0.71 | -- | -- | -- | <0.0031 | <0.0030 | <0.0135 | <0.0128 | 1.1 | -- | -- | -- | -- | -- |
| GW-16D-85 | GW-16D | 10/26/18 | 85 | <0.84 | -- | -- | -- | <0.0036 | <0.0156 | <0.0035 | <0.0148 | 1.3 | -- | -- | -- | -- | -- |
| GW-17S-20 | GW-17S | 10/23/18 | 20 | <0.73 | -- | -- | -- | <0.0029 | <0.0126 | <0.0028 | <0.0120 | 1.0 | -- | -- | -- | -- | -- |
| GW-17D-3 | GW-17D | 10/12/18 | 3 | <0.69 | -- | -- | -- | <0.0031 | <0.0135 | <0.0030 | <0.0129 | 1.6 | -- | -- | -- | -- | -- |
| GW-17D-85 | GW-17D | 10/24/18 | 85 | <0.76 | -- | -- | -- | <0.0032 | <0.0139 | <0.0031 | <0.0132 | 1.2 | -- | -- | -- | -- | -- |
| GW-18S-30 | GW-18S | 10/19/18 | 30 | <0.72 | -- | -- | -- | <0.0030 | <0.0130 | <0.0029 | <0.0123 | 1.2 | -- | -- | -- | -- | -- |
| GW-18S-45 | GW-18S | 10/19/18 | 45 | **55.3** | -- | -- | -- | <0.0032 | 0.0272 J | 0.119 | 0.533 J | 1.1 | -- | -- | -- | -- | -- |
| GW-18S-50 | GW-18S | 10/19/18 | 50 | <0.69 | -- | -- | -- | <0.0029 | 0.0129 J | 0.0148 J | <0.0121 | 1.3 | -- | -- | -- | -- | -- |
| GW-18D-70 | GW-18D | 10/22/18 | 70 | <0.73 | -- | -- | -- | <0.0029 | <0.0127 | <0.0028 | <0.0120 | 1.3 | -- | -- | -- | -- | -- |
| GW-18D-75 | GW-18D | 10/22/18 | 75 | <0.73 | -- | -- | -- | <0.0030 | <0.0131 | <0.0029 | <0.0125 | 1.3 | -- | -- | -- | -- | -- |
| Atlas(ATC) - 2022 Well Installation, Phillips 66 Facility No. 2701476 (AOC #2063), May, 2022: | | | | | | | | | | | | | | | | | |
| SB6-9' | SB-6 | 05/03/22 | 9 | 1.07J | <7.5 | <5.4 | -- | <0.000409 | <0.00134 | <0.000327 | 0.000727J | 1.8 | <0.000382 | <0.000273 | <0.000491 | ND | 0.00126J |
| SB6-14' | SB-6 | 05/03/22 | 14 | <1.05 | <7.5 | <5.4 | -- | <0.000413 | <0.00135 | <0.000330 | 0.000989J | 1.4 | <0.000385 | <0.000275 | <0.000495 | ND | 0.00131J |
| SB7-9' | SB-7 | 05/03/22 | 9 | 1.13J | <7.3 | <5.3 | -- | <0.000404 | <0.00132 | <0.000323 | 0.00104J | 1.8 | -- | -- | -- | -- | -- |
| SB7-14' | SB-7 | 05/03/22 | 14 | 1.17J | <7.1 | <5.1 | -- | <0.000403 | <0.00132 | <0.000322 | 0.00130J | 1.3 | -- | -- | -- | -- | -- |
| GWR18S-30' | GWR-18S | 05/03/22 | 30 | **5.03** | -- | -- | -- | 0.0 | 0.00373J | 0.009 | 0 | -- | -- | -- | -- | -- | -- |
| GWR18S-40' | GWR-18S | 05/03/22 | 40 | 228 | -- | -- | -- | <0.0807 | <0.265 | 1.0 | 9 | -- | -- | -- | -- | -- | -- |
| **MTCA Method A Cleanup Levels** | | | | **100[2] (30)[3]** | **2,000** | **2,000** | **NE** | **0.03** | **7** | **6** | **9** | **250.0** | **0.100** | **0.005** | **NE** | **1.00** | **0.02** |

EXPLANATION:
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
TPHg = Total Petroleum Hydrocarbons as Gasoline. Analytical Methods as Follows:
Samples collected on January 2, 1992 were analyzed for diesel-range hydrocarbons by EPA method 8015M.
Samples collected between January 7, 1992 and April 18, 1995, were analyzed for gasoline-range hydrocarbons and BTEX by WTPH-G (EPA Method 5030/8015/8020) and lead by EPA Method 7420.
Samples collected on August 7, 1995, were analyzed for Total Petroleum Hydrocarbons as Heavy Petroleum Oils in Soil Matrix (TRPH [approximate hydrocarbon range C12 to C30]) by EPA Method 9071/418.1.
Samples collected on July 18 and 19, 2012 and in October, 2018 were analyzed for gasoline-range hydrocarbons by Northwest Method NWTPH-Gx, VOCs by EPA Method 8260/5035 and lead by EPA Method 6010.
** = sample depth not indicated in report, assume between 14 feet and 15 feet deep.
TPHg = Total Petroleum Hydrocarbons as Gasoline.
TPHd, TPHmo = Total Petroleum Hydrocarbons as Diesel and as Oil, respectively.
TRPH = Total Recoverable Petroleum Hydrocarbons.
B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes
Bold values indicate that reported laboratory analytical result excees MTCA Method A Cleanup Level
MTBE - Methyl Tertiary-Butyl ether
NE = Not Established
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
-- = Not analyzed, N/A = Not applicable, NE = Not established, < = Less than the stated laboratory reporting limit
< = Analyte not detected above laboratory method reporting limit
Note 1: Soil represented by sample subsequently removed during over-excavation activities.
Note 2: MTCA Method A Cleanup Level for gasoline mixtures without benzene and the total of ethylbenzene, toluene and xylene are less than 1% of the gasoline mixture.
Note 3: MTCA Method A Cleanup Level for all other mixtures of gasoline.

TABLE 1B
SUMMARY OF HISTORICALSOIL ANALYTICAL RESULTS
Former Phillips 66 Facility 2701476 (AOC #2063)
12660 First Avenue, South
Seattle, Washington


| | | | | CPAH Analysis by 8270E SIM | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Name** | **Boring/ Well ID** | **Sample Date** | **Sample Depth (ft bgs)** | **Benzo(a)-anthracene (mg/kg)** | **Benzo(a)-pyrene (mg/kg)** | **Benzo-fluoranthenes (total) (mg/kg)** | **Chrysene (mg/kg)** | **Dibenz(a,h)-anthracene (mg/kg)** | **Indeno(1,2,3-cd)-pyrene (mg/kg)** | **TTEC (mg/kg)** |
| **Atlas - 2022 Well Installation, Phillips 66 Facility No. 2701476 (AOC #2063), May, 2022:** | | | | | | | | | | |
| SB6-9' | SB-6 | 05/03/22 | 9 | <0.00096 | <0.0012 | <0.0046 | <0.0011 | <0.00090 | <0.00097 | < 0.00103 |
| SB6-14' | SB-6 | 05/03/22 | 14 | <0.00096 | <0.0012 | <0.0046 | <0.0011 | <0.00090 | <0.00097 | < 0.00103 |
| SB7-9' | SB-7 | 05/03/22 | 9 | <0.00094 | <0.0011 | <0.0045 | <0.0010 | <0.00088 | <0.00095 | < 0.00142 |
| SB7-14' | SB-7 | 05/03/22 | 14 | <0.00093 | <0.0011 | <0.0044 | <0.0010 | <0.00088 | <0.00094 | < 0.00141 |
| **MTCA Method A Cleanup Levels** | | | | **NE** | **0.10** | **NE** | **NE** | **NE** | **NE** | **0.1** |

EXPLANATION:
CPAH = Carcinogenic polycyclic aromatic hydrocarbon
ft bgs = feet below ground surface
< = Analyte not detected above laboratory method reporting limit
mg/kg = milligrams per kilogram
NE = not established
MTCA = Model Toxics Control Act
cPAHs are subject to WAC-173-340 Toxicity Equivalent Concentration (TTEC) calculations.

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-1** | 05/07/91 | 38.97 | 0.00 | 61.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 100.00 | 05/08/92 | 41.28 | 0.00 | 58.72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/20/92 | 39.46 | 0.00 | 60.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/10/94 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/02/94 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/94 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/17/95 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 47.30 | 0.00 | 52.70 | **30,000** | -- | -- | **6,300** | **4,900** | 638 | **3,920** | -- | **30** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 47.65 | 0.00 | 52.35 | **17,000** | -- | -- | **3,200** | **1,700** | 230 | **1,400** | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 48.86 | 0.00 | 51.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 49.60 | 0.00 | 50.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 49.54 | 0.00 | 50.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 39.91 | 0.00 | 60.09 | **62,000** | -- | -- | **14,000** | **16,000** | **780** | **5,100** | -- | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 39.78 | 0.00 | 60.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 39.85 | 0.00 | 60.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 42.14 | 0.00 | 57.86 | **75,000** | -- | -- | **14,000** | **15,000** | **890** | **5,400** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 46.97 | 0.00 | 53.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 34.84 | 0.00 | 65.16 | **170,000** | -- | -- | **29,000** | **44,000** | **2,000** | **14,000** | -- | **18** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 30.69 | 0.00 | 69.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 29.13 | 0.00 | 70.87 | **230,000** | -- | -- | **46,000** | **72,000** | **3,600** | **21,000** | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 35.41 | 0.00 | 64.59 | **170,000** | -- | -- | **3,000** | **46,000** | **2,900** | **16,000** | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 41.87 | 0.00 | 58.13 | **170,000** | -- | -- | **25,000** | **39,000** | **3,200** | **17,000** | -- | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 43.10 | 0.00 | 56.90 | **82,000** | -- | -- | **20,000** | **12,000** | **2,300** | **210** | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 32.37 | 0.00 | 67.63[b] | **180,000** | -- | -- | **41,000** | **59,000** | **2,000** | **19,000** | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98[NP] | 26.81 | 0.00 | 73.19[b] | **140,000** | -- | -- | **27,000** | **37,000** | **1,700** | **16,000** | -- | **22** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98[NP] | 29.49 | 0.00 | 70.51[b] | **63,000** | -- | -- | **12,000** | **12,000** | 320 | **9,200** | -- | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 45.96 | **Trace** | 54.04[b] | LPH Present | -- | -- | **--** | **--** | **--** | **--** | -- | -- | | -- | | -- | -- | -- | -- | | |
| | 05/28/99[NP] | 17.18 | 0.00 | 82.82[b] | **69,000** | -- | -- | **490** | **4,400** | 490 | **12,000** | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 43.70 | 0.00 | 56.30[b] | **32,000** | -- | -- | **2,100** | 190 | 250 | **3,600** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 34.01 | 0.00 | 65.99 | **6,110** | -- | -- | **849** | 333 | 31.8 | **1,320** | -- | 7.67 | -- | -- | **11.6** | -- | -- | -- | -- | <10.0 | -- |
| | 02/09/00[NP] | 48.11 | 0.00 | 51.89 | **83,000** | -- | -- | **1,200** | 860 | **740** | **13,000** | -- | **301** | -- | -- | -- | -- | -- | -- | -- | <100 | -- |
| | 05/24/00[NP] | 26.35 | **Trace** | 73.65 | **1,200** | -- | -- | **55.9** | 81.2 | 2.09 | 248 | -- | -- | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 09/11/00[NP] | 25.75 | 0.00 | 74.25 | 883 | -- | -- | **36.1** | 54.0 | <0.690 | 161 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | 44.58 | 0.00 | 55.42 | 154 | -- | -- | **12.6** | 5.08 | < 0.500 | 17.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/30/01[NP] | 43.17 | 0.00 | 56.83 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 2.62 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 11/19/01 | NM | 0.00 | -- | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 05/04/02 | 40.32 | 0.00 | 59.68 | <50.0 | -- | -- | 1.29 | <0.500 | <0.500 | 1.62 | -- | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 36.15 | 0.00 | 63.85 | 149 | -- | -- | 0.575 | 0.938 | <0.500 | 12.5 | -- | 2.67 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 35.97 | 0.00 | 64.03 | **1,620** | -- | -- | **56.7** | 71.7 | <5.00 | 511 | **--** | 8.58 | 4.98 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | 33.91 | 0.00 | 66.09 | 528 | -- | -- | **15.0** | 9.9 | 1.1 | 47 | -- | 11.2 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 30.93 | 0.00 | 69.07 | **5,200** | -- | -- | **1,340** | 129 | 51.0 | 431 | -- | 14.4 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | 35.99 | 0.00 | 64.01 | **3,800** | -- | -- | **1,030** | 201 | <20 | 740 | -- | **15.0** | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 37.79 | 0.00 | 62.21 | **1,310** | -- | -- | **98.6** | 46.0 | <5.0 | 275 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 36.36 | 0.00 | 63.64 | **3,380** | -- | -- | **699.0** | 224.0 | <10 | 676 | 12 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 40.77 | 0.00 | 59.23 | **5,900** | -- | -- | **2,200.0** | 420.0 | 66.0 | **1,200** | -- | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | Dry | 0.00 | -- | **--** | -- | -- | **--** | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-1** | 05/30/06 | 47.26 | 0.00 | 52.74 | **860**[d] | -- | -- | **96**[d] | 8.6[d] | 12[d] | 120[d] | -- | **144** | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| 100.00 | 08/28/06 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 11/14/06 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 39.18 | 0.00 | 60.82 | 160 | -- | -- | **92** | 4 | 2 | 5 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 45.01 | 0.00 | 54.99 | 110 | -- | -- | **12** | 2 | 1 | 5 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/19/08 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 414.74 | 08/18/08 | 49.56 | 0.00 | 365.18 | Well not sampled due to low water column. | | | | | | | | | | | | | | | | | |
| | 11/17/08 | 49.60 | 0.00 | 365.14 | Well not sampled due to low water column. | | | | | | | | | | | | | | | | | |
| | 02/04/09 | 51.20 | 0.00 | 363.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/04/09 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/03/09 | 44.90 | 0.00 | 369.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 48.74 | 0.00 | 366.00 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | 49.48 | 0.00 | 365.26 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/03/10 | 43.45 | 0.00 | 371.29 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/07/10 | 45.99 | 0.00 | 368.75 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/01/10 | 48.84 | 0.00 | 365.90 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/10/11 | 45.91 | 0.00 | 368.83 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/18/11 | 35.25 | 0.00 | 379.49 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 43.42 | 0.00 | 371.32 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | dry | 0.00 | -- | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/23/12 | 49.36 | 0.00 | 365.38 | Well not sampled due to low water column. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | 39.57 | 0.00 | 375.17 | <500 | -- | -- | **9.8** | <1.0 | <1.0 | <3.0 | -- | 0.81 | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/01/12 | 43.70 | 0.00 | 371.04 | <50 | -- | -- | <1.0 | <1.0 | 1.2 | <3.0 | -- | 0.21 | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | 43.28 | 0.00 | 371.46 | <100 | -- | -- | 4.6 | <1.0 | <1.0 | <3.0 | -- | <3.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/18/14 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/15 | 42.89 | 0.00 | 371.85 | <100 | -- | -- | **7.70** | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 46.82 | 0.00 | 367.92 | <100 | -- | -- | 1.2 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/16 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/17 | 46.03 | 0.00 | 368.71 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <1.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/04/18 | 48.59 | 0.00 | 366.15 | Well not sampled due to low water column. | | | | | | | | | | | | | | | | | |
| | | | | | Well Decommissioned in October 2018 | | | | | | | | | | | | | | | | | |
| **GW-2** | 05/07/91 | 35.56 | 0.00 | 63.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 99.32 | 05/08/92 | 36.53 | 0.00 | 62.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/10/94 | 48.43 | **4.15** | 54.00 | LPH Present | -- | -- | | | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/02/94 | -- | **0.20** | -- | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/94 | 44.37 | **0.07** | 55.00 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/17/95 | 44.92 | **0.03** | 54.42 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 36.19 | **0.17** | 63.26 | **150,000** | -- | -- | **21,000** | **26,000** | **2,200** | **14,000** | -- | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 39.16 | **0.31** | 60.39 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 42.42 | **0.11** | 56.98 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 36.62 | **0.12** | 62.79 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 36.68 | **0.13** | 62.74 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 28.04 | **0.37** | 71.56 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-2** | 06/06/96 | 29.09 | **0.41** | 70.54 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 99.32 | 06/11/96 | 29.17 | **0.38** | 70.44 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 09/24/96 | 37.45 | **0.41** | 62.18 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 40.86 | **0.22** | 58.63 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 25.93 | **0.13** | 73.49 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 23.84 | **0.19** | 75.62 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 25.87 | **0.02** | 73.47 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 32.77 | **0.18** | 66.69 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 37.67 | **0.07** | 61.70 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 32.81 | **0.03** | 66.53 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 26.37 | **0.04** | 72.98 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 33.58 | 0.00 | 65.74[b] | **180,000** | -- | -- | **15,000** | **22,000** | **2,200** | **20,000** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 46.15 | 0.00 | 53.17 | **85,600** | -- | -- | **4,360** | **7,750** | **1,160** | **12,300** | -- | **152** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 38.30 | 0.00 | 61.02 | **130,000** | -- | -- | **11,000** | **17,000** | **1,300** | **18,000** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/11/00[NP] | 46.35 | 0.00 | 52.97 | **55,000** | -- | -- | **2,620** | **1,910** | 410 | **7,380** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | 43.56 | **Trace** | 55.76 | **76,100** | -- | -- | **6,030** | **8,660** | **1,050** | **10,500** | -- | **148** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | 46.15 | 0.00 | 53.17 | **64,300** | -- | -- | **5,100** | **5,880** | 667 | **9,140** | -- | **129** | -- | -- | < 1.00 | -- | -- | -- | -- | < 1.00 | < 1.00 |
| | 05/16/01 | 42.48 | 0.00 | 56.84 | **83,300** | -- | -- | **4,620** | **8,480** | **1,060** | **10,200** | -- | **248** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/30/01[NP] | 42.07 | **0.01** | 57.26 | LPH Present | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/01 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/04/02 | 31.15 | 0.00 | 68.17 | **51,900** | -- | -- | **5,330** | **4,780** | 255 | **7,650** | **--** | **38.2** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 46.25 | 0.00 | 53.07 | **50,900** | -- | -- | **3,010** | **5,600** | **800** | **8,110** | **--** | **3,850** | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 45.86 | 0.00 | 53.46 | **35,100** | -- | -- | **3,910** | **4,020** | 248 | **4,760** | **--** | **26.8** | **14.6** | **--** | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP C] | 44.35 | 0.00 | 54.97 | **1,760** | -- | -- | **96.2** | 11.0 | 1.0 | 73.1 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 28.97 | 0.00 | 70.35 | **7,370** | -- | -- | **446** | 705 | 30.4 | 983 | -- | 8.28 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | 42.42 | 0.00 | 56.90 | **19,500** | -- | -- | **2,370** | **1,410** | 140 | **1,980** | **--** | **20.9** | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 39.87 | 0.00 | 59.45 | **32,000** | -- | -- | **3,520** | **2,160** | 191 | **3,280** | **--** | **24.8** | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 39.50 | 0.00 | 59.82 | **8,600** | -- | -- | **166** | 144 | 21 | 470 | 6.74 | 15.6 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 44.78 | 0.00 | 54.54 | **10,000** | -- | -- | **930** | 220 | 79 | 900 | <5.0 | **283** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 48.18 | 0.00 | 51.14 | **15,000** | -- | -- | **2,600** | 770 | 110 | **1,400** | -- | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 36.10 | 0.00 | 63.22 | **7,800** | -- | -- | **380** | 400 | 46 | 760 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | 42.90 | 0.00 | 56.42 | **3,500** | -- | -- | **160** | 65 | 23 | 280 | -- | **26.2** | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 44.20 | 0.00 | 55.12 | **4,800** | -- | -- | **390** | 120 | 43 | 460 | 0.9 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 44.06 | 0.00 | 55.26 | **12,000** | -- | -- | **860** | 720 | 130 | **1,500** | <1 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 34.22 | 0.00 | 65.10 | **6,800** | -- | -- | **920** | 570 | 99 | 810 | <1 | 70.4 | 62.2 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 32.70 | 0.00 | 66.62 | **20,000** | -- | -- | **650** | 1,000 | 380 | **2,700** | <1 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 35.26 | 0.00 | 64.06 | **49,000** | -- | -- | **6,300** | **6,500** | 600 | **5,100** | <5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | 41.37 | 0.00 | 57.95 | **12,000** | -- | -- | **2,000** | 390 | 260 | **1,200** | 0.6 | **15.1** | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | 38.17 | 0.00 | 61.15 | **21,000** | -- | -- | **2,400** | 980 | 440 | **2,500** | <3 | 10.4 | 8.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.94 | 05/19/08 | 35.80 | 0.00 | 378.14 | **35,000** | -- | -- | **4,600** | **3,100** | 670 | **4,500** | <2.0 | **23.7** | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | 38.75 | 0.00 | 375.19 | **20,000** | -- | -- | **3,200** | **1,400** | 560 | **3,500** | <3.0 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/18/08 | 41.75 | 0.00 | 372.19 | **28,000** | -- | -- | **3,000** | 690 | 670 | **4,500** | <3 | 14.40 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 39.85 | 0.00 | 374.09 | **28,700** | **2,800** | <410 | **1,600** | 130 | 560 | **3,700** | <1 | 1.34 | -- | -- | <1 | -- | <1 | <1 | <1 | <1 | <1 |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-2** | 05/05/09 | 36.00 | 0.00 | 377.94 | **40,800** | **1,200** | <420 | **3,590** 2n | **1,760** | 634 | **4,590** | <1.0 | 3.3 | <1.0 | -- | **92.4** | **0.094** | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| 413.94 | 08/03/09 | 36.60 | 0.00 | 377.34 | **40,300** | -- | -- | **6,710** | **2,440** | **959** | **7,180** | <5.0 | 3.2 | 2.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 11/03/09 | 41.22 | 0.00 | 372.72 | **28,700** 1n,Z2 | -- | -- | **2,880** | 673 | 644 | **3,460** | <5.0 | 12.3 | 0.39 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/10 | 37.04 | 0.00 | 376.90 | **42,600** 1n | -- | -- | **4,940** | **1,830** | **1,200** | **8,320** | <1.0 | **24.7** | 1.2 | -- | -- | -- | | | | | |
| | 05/03/10 | 32.17 | 0.00 | 381.77 | **17,400** | -- | -- | **2,060** | 746 | 422 | **2,990** | <1.0 | 4.1 | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/07/10 | 36.61 | 0.00 | 377.33 | **30,700** | -- | -- | **6,770** | **1,930** | **901** | **5,480** | <1.0 | 12.9 | 0.22 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/01/10 | 39.35 | 0.00 | 374.59 | **20,600** | -- | -- | **3,260** | **283** | **802** | **3,450** | <1.0 | 9.2 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/11 | 31.63 | 0.00 | 382.31 | **10,700** | -- | -- | **975** | **250** | 359 | **2,020** | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/18/11 | 25.11 | 0.00 | 388.83 | **503** | -- | -- | **6.7** | <1.0 | 2.3 | 35.0 | -- | 0.46 | 0.30 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/02/11 | 34.81 | 0.00 | 379.13 | **23,700** | -- | -- | **2,880** | 317 | 563 | **2,710** | -- | 3.2 | 0.97 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/07/11 | 40.12 | 0.00 | 373.82 | **15,300** | -- | -- | **1,280** | 64.8 | 430 | **1,210** | <1.0 | 5.0 | 0.14 | -- | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 02/23/12 | 39.98 | 0.00 | 373.96 | **18,400** | -- | -- | **1,110** | 53.7 | 356 | **1,360** | **--** | 1.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/12 | 29.37 | 0.00 | 384.57 | **9,810** | -- | -- | **1,780** | 148 | 304 | **1,320** | **--** | 0.36 | 0.23 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/01/12 | 33.91 | 0.00 | 380.03 | **11,200** | -- | -- | **1,820** | 97.4 | 428 | **1,470** | **--** | 0.26 | 0.19 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | 32.59 | 0.00 | 381.35 | **4,300** | -- | -- | **466** | 13.7 | 114 | 271 | **--** | <3.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | 34.58 | 0.00 | 379.36 | **19,600** | -- | -- | **3,960** | 130.0 | **760** | 220 | **--** | **16.70** | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/14 | 39.91 | 0.00 | 374.03 | **13,000** | 120 | <500 | **1,900** | 33.0 | **810** | **1,500** | **--** | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/15 | 30.61 | 0.00 | 383.33 | **13,600** | -- | -- | **1,830** | 42.6 | 599 | **1,300** | **--** | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 35.92 | 0.00 | 378.02 | **22,500** | -- | -- | **5,670** | 190 | **907** | **2,300** | **--** | **--** | **--** | **--** | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 40.35 | 0.00 | 373.59 | **10,700** | -- | -- | **1,460** | 26.3 | 449 | 537 | **--** | **--** | **--** | **--** | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/16 | 38.80 | 0.00 | 375.14 | **10,400** | -- | -- | **1,140** | 61.4 | 479 | 898 | **--** | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/17 | 35.11 | 0.00 | 378.83 | **2,860** | -- | -- | **327** | 22.0 | 174 | 294 | **--** | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/05/18 | 37.61 | 0.00 | 376.33 | **7,570** | -- | -- | **1,070** | 50.2 | 579 | 404 | **--** | 2.0 J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Well Decommissioned in October 2018 | | | | | | | | | | | | | | | | | | | | | |
| **GW-2A** | 12/9/04 [NP] | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NE | 02/08/05 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 414.5 | 05/19/08 | NM | 0.00 | NE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/18/08 | NM | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | | | |
| | 02/04/09 | NM | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | | | |
| | 05/04/09 | NM | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | | | |
| | 08/03/09 | NM | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | | | |
| | 11/03/09 | NM | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | | | |
| | 02/08/10 | NM | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | | | |
| | 05/03/10 | NM | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | | | |
| | 09/07/10 | NM | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | | | |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-2** | 12/01/10 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| 414.5 | 02/10/11 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| (cont.) | 05/18/11 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 03/22/13 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 09/20/13 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 12/19/14 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 04/29/15 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 07/23/15 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 10/15/15 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 09/27/16 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 09/19/17 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 09/04/18 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| | 12/11/18 | NM | | | Stinger lodged in well, unable to gauge or sample. | | | | | | | | | | | | | | | | | |
| **GW-3** | 05/02/94 | 71.02 | 0.00 | 31.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 102.95 | 11/11/94 | 82.85 | 0.00 | 20.10 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 102.78 | 02/17/95 | 82.81 | 0.00 | 19.97 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 82.02 | 0.00 | 20.76 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 81.33 | 0.00 | 21.45 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 81.21 | 0.00 | 21.57 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 84.06 | 0.00 | 18.72 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 80.60 | 0.00 | 22.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 79.24 | 0.00 | 23.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 79.07 | 0.00 | 23.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 78.97 | 0.00 | 23.81 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 78.21 | 0.00 | 24.57 | <50 | -- | -- | 0.7 | 2 | <1 | 3 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 78.64 | 0.00 | 24.14 | 216 | -- | -- | **21.6** | 54 | 2 | 11 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 77.93 | 0.00 | 24.85 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **38** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 77.40 | 0.00 | 25.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 76.11 | 0.00 | 26.67 | <50 | -- | -- | <0.5 | 1 | <1 | <1 | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 75.68 | 0.00 | 27.10 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 76.58 | 0.00 | 26.20 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **18** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 76.72 | 0.00 | 26.06 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 76.15 | 0.00 | 26.63 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98 | 76.35 | 0.00 | 26.43[b] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98 | 77.88 | 0.00 | 24.90[b] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 78.98 | 0.00 | 23.80[b] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99[NP] | 79.68 | 0.00 | 23.10[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 76.45 | 0.00 | 26.33[b] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 79.18 | 0.00 | 23.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 78.42 | 0.00 | 24.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00[NP] | 77.46 | 0.00 | 25.32 | 352 | -- | -- | <0.500 | <0.500 | <0.500 | 36.4 | -- | -- | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 09/11/00[NP] | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01 | 81.80 | 0.00 | 20.98 | <50 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 08/30/01 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

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Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-3** | 11/19/01 | 82.30 | 0.00 | 20.48 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| 102.78 | 05/04/02 | 81.10 | 0.00 | 21.68 | 94.9 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 11/20/02 | 80.72 | 0.00 | 22.06 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 2.52 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 81.15 | 0.00 | 21.63 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | 81.59 | 0.00 | 21.19 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 81.35 | 0.00 | 21.43 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | 82.21 | 0.00 | 20.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 82.54 | 0.00 | 20.24 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 82.75 | 0.00 | 20.03 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 82.56 | 0.00 | 20.22 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 82.51 | 0.00 | 20.27 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 82.40 | 0.00 | 20.38 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.8 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | 81.72 | 0.00 | 21.06 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 81.10 | 0.00 | 21.68 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 81.50 | 0.00 | 21.28 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 81.05 | 0.00 | 21.73 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | **64.5** | **62.2** | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 81.10 | 0.00 | 21.68 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 79.42 | 0.00 | 23.36 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | 80.47 | 0.00 | 22.31 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | 7.4 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/19/08 | 80.52 | 0.00 | 337.22 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | 80.80 | 0.00 | 336.94 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 7.0 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/17/08 | 81.19 | 0.00 | 336.55 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 81.50 | 0.00 | 336.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/04/09 | 81.72 | 0.00 | 336.02 | 87.2 4n | <83 | <420 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.50 | <1.0 | -- | <1.0 | <0.010 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 08/03/09 | 81.65 | 0.00 | 336.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 81.95 | 0.00 | 335.79 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | 82.22 | 0.00 | 335.52 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/03/10 | 81.60 | 0.00 | 336.14 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/07/10 | 80.72 | 0.00 | 337.02 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/01/10 | 81.18 | 0.00 | 336.56 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/10/11 | 78.17 | 0.00 | 339.57 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/18/11 | 79.56 | 0.00 | 338.18 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 78.65 | 0.00 | 339.09 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | 79.10 | 0.00 | 338.64 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/23/12 | 79.91 | 0.00 | 337.83 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | 79.81 | 0.00 | 337.93 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/14 | 80.86 | 0.00 | 336.88 | <100 | <100 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/15 | 80.70 | 0.00 | 337.04 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 80.19 | 0.00 | 337.55 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 80.61 | 0.00 | 337.13 | <250 | -- | -- | <0.50 | <0.50 | <0.50 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/16 | 79.00 | 0.00 | 338.74 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/19/17 | 77.01 | 0.00 | 340.73 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 417.74 | 09/05/18 | 78.31 | 0.00 | 339.43 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Well Decommissioned in October 2018 | | | | | | | | | | | | | | | | | | | | | |
| **GW-4** | 05/02/94 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 101.84 | 11/11/94 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/17/95 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-4** | 05/16/95 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 101.84 | 08/09/95 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 11/06/95 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 78.27 | 0.00 | 23.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 78.10 | 0.00 | 23.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 78.02 | 0.00 | 23.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 77.71 | 0.00 | 24.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 76.88 | 0.00 | 24.96 | <50 | -- | -- | <50 | <1 | <1 | <1 | -- | **52** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 76.36 | 0.00 | 25.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 75.08 | 0.00 | 26.76 | <50 | -- | -- | <50 | <1 | <1 | <1 | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 74.70 | 0.00 | 27.14 | 300 | -- | -- | **9.8** | 15 | 3 | 46 | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 75.61 | 0.00 | 26.23 | <50 | -- | -- | 0.8 | <1 | <1 | <1 | -- | **18** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 75.90 | 0.00 | 25.94 | <50 | -- | -- | 1 | <1 | <1 | <1 | -- | **27** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 75.18 | 0.00 | 26.66 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98[NP] | 75.45 | 0.00 | 26.39[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **23** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98[NP] | 77.24 | 0.00 | 24.60[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **103** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 78.08 | 0.00 | 23.76[b] | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99[NP] | 73.80 | 0.00 | 28.04[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 75.54 | 0.00 | 26.30[b] | <50 | -- | -- | 0.5 | <1 | <1 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 77.50 | 0.00 | 24.34 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **24** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00[NP] | 75.70 | 0.00 | 26.14 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | 2.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/11/00[NP] | 71.56 | 0.00 | 30.28 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00[NP] | 78.40 | 0.00 | 23.44 | 141 | -- | -- | <0.500 | 1.10 | <0.500 | 5.59 | -- | **254** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/30/01 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/01 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/04/02 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/20/2007[d] | 78.47 | DRY | 23.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| | 11/19/07 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **GW-4** | 02/19/08 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 416.79 | 05/19/08 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 08/18/08 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/17/08 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 79.15 | 0.00 | 337.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/4/090 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/03/09 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 79.10 | 0.00 | 337.69 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/03/10 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/07/10 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/01/10 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/11 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/18/11 | 78.55 | 0.00 | 338.24 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 77.64 | 0.00 | 339.15 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | 78.21 | 0.00 | 338.58 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/23/12 | Dry | 0.00 | -- | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | Dry | 0.00 | -- | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/14 | Dry | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/15 | Dry | Dry | Dry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | Dry | Dry | Dry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | Dry | Dry | Dry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/16 | Dry | Dry | Dry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/19/17 | 76.10 | 0.00 | 340.69 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/11/18 | 77.37 | 0.00 | 339.42 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | Well Decommissioned in Octoer 2018 | | | | | | | | | | | | | | | | | | | | | |
| **GW-5** | 05/02/94 | 78.84 | 0.00 | 20.14 | **100,000** | -- | -- | **8,200** | **15,000** | **2,100** | **12,000** | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 98.98 | 11/11/94 | 79.14 | 0.00 | 19.84 | **160,000** | -- | -- | **20,000** | **33,000** | **2,300** | **15,000** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/17/95 | 79.14 | 0.00 | 19.84 | **130,000** | -- | -- | **14,000** | **25,000** | **1,550** | **11,000** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 78.31 | 0.00 | 20.67 | **180,000** | -- | -- | **19,000** | **34,000** | **2,300** | **16,000** | -- | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 77.55 | 0.00 | 21.43 | **200,000** | -- | -- | **22,000** | **38,000** | **2,400** | **18,000** | -- | **17** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 77.49 | 0.00 | 21.49 | **184,000** | -- | -- | **20,000** | **42,000** | **2,900** | **19,000** | -- | **15** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 77.31 | 0.00 | 21.67 | **190,000** | -- | -- | **19,000** | **42,000** | **2,900** | **18,000** | -- | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 76.89 | 0.00 | 22.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 75.21 | 0.00 | 23.77 | **32,000** | -- | -- | **1,800** | **2,100** | 100 | **5,900** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 75.04 | 0.00 | 23.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 75.07 | 0.00 | 23.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 74.47 | 0.00 | 24.51 | **56,000** | -- | -- | **3,800** | **5,100** | 90 | **8,700** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 74.99 | 0.00 | 23.99 | **88,000** | -- | -- | **2,200** | **4,700** | 43 | **16,000** | -- | **42** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 24.90 | 0.00 | 74.08 | **7,800** | -- | -- | **690** | 790 | 13 | **1,300** | -- | **34** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 73.31 | 0.00 | 25.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 72.05 | 0.00 | 26.93 | **90,000** | -- | -- | **9,000** | **21,000** | **1,400** | **12,000** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 71.85 | 0.00 | 27.13 | **45,000** | -- | -- | **4,600** | **7,000** | 180 | **6,500** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 72.77 | 0.00 | 26.21 | **44,000** | -- | -- | **3,700** | **7,200** | 530 | **4,800** | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 73.10 | 0.00 | 25.88 | **65,000** | -- | -- | **6,800** | **10,000** | **990** | **5,500** | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 72.40 | 0.00 | 26.58[b] | **56,000** | -- | -- | **7,700** | **11,000** | **1,000** | **10,000** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-5** | 08/25/98[NP] | 67.44 | 0.00 | 31.54[b] | **25,000** | -- | -- | **120** | **450** | 58 | **5,300** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 98.98 | 11/13/98 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 02/10/99 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 72.85 | 0.00 | 26.13[b] | **4,900** | -- | -- | **430** | 480 | 36 | 560 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 76.11 | 0.00 | 22.87 | 276 | -- | -- | 3.07 | 4.94 | 0.815 | 22.2 | -- | **9.62** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 75.62 | 0.00 | 23.36 | 94 | -- | -- | <0.5 | 2 | <1 | 9 | -- | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00[NP] | 38.60 | 0.00 | 60.38 | 367 | -- | -- | **21.9** | 40.1 | 1.34 | 77.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/11/00[NP] | 60.00 | 0.00 | 38.98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | 48.75 | 0.00 | 50.23 | 436 | -- | -- | <0.500 | 4.35 | 1.57 | 50.1 | -- | 5.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01 | 79.44 | 0.00 | 19.54 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 2.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/30/01[NP] | 77.78 | 0.00 | 21.20 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.04 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 11/19/01 | 79.37 | 0.00 | 19.61 | 472 | -- | -- | <0.500 | 8.43 | 1.34 | 79.1 | -- | 1.93 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 05/04/02 | 76.90 | 0.00 | 22.08 | <50.0 | -- | -- | <0.500 | 0.630 | <0.500 | 1.82 | -- | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 76.93 | 0.00 | 22.05 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.70 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 78.00 | 0.00 | 20.98 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.02 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP C] | 79.12 | 0.00 | 19.87 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 78.51 | 0.00 | 20.47 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | 80.04 | 0.00 | 18.94 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 78.70 | 0.00 | 20.28 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 79.64 | 0.00 | 19.34 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 80.55 | 0.00 | 18.43 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 78.24 | 0.00 | 20.74 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 77.97 | 0.00 | 21.01 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | 77.33 | 0.00 | 21.65 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 76.68 | 0.00 | 22.30 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 78.35 | 0.00 | 20.63 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 76.70 | 0.00 | 22.28 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 43.6 | 43.3 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 75.78 | 0.00 | 23.20 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 75.15 | 0.00 | 23.83 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | 76.01 | 0.00 | 22.97 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | 73.98 | 0.00 | 25.00 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.40 | 05/19/08 | 76.12 | 0.00 | 337.28 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | 76.52 | 0.00 | 336.88 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/17/08 | 77.00 | 0.00 | 336.40 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 77.30 | 0.00 | 336.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/04/09 | 77.40 | 0.00 | 336.00 | <50.0 4n | <83 | <420 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- | <1.0 | <0.010 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 08/03/09 | 77.38 | 0.00 | 336.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 77.71 | 0.00 | 335.69 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | 77.94 | 0.00 | 335.46 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/03/10 | 77.19 | 0.00 | 336.21 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/07/10 | 76.40 | 0.00 | 337.00 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/01/10 | 76.94 | 0.00 | 336.46 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/10/11 | 76.18 | 0.00 | 337.22 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/18/11 | 74.77 | 0.00 | 338.63 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 74.33 | 0.00 | 339.07 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | 74.94 | 0.00 | 338.46 | <50.0 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | 0.33 | 0.13 | -- | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-5** | 02/23/12 | 75.78 | 0.00 | 337.62 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| 413.4 | 05/22/12 | 75.44 | 0.00 | 337.96 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| (cont.) | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/14 | 76.60 | 0.00 | 336.80 | <100 | <100 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/29/2015** | 74.44 | 0.00 | 338.96 | 249 | -- | -- | **14.2** | <1.0 | 1.6 | 14.7 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 75.06 | 0.00 | 338.34 | 182 | -- | -- | 3.9 | <1.0 | 2.4 | 7.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 76.34 | 0.00 | 337.06 | <250 | -- | -- | <0.50 | <0.50 | <0.50 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/16 | 74.75 | 0.00 | 338.65 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/17 | 63.21 | 0.00 | 350.19 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/05/18 | 74.04 | 0.00 | 339.36 | <19.6 | -- | -- | 0.60 J | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Well Decommissioned in October 2018 | | | | | | | | | | | | | | | | | | | | | |
| **GW-6** | 05/02/94 | 42.10 | **1.90** | 57.57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 98.24 | 11/11/94 | 41.67 | **0.65** | 57.06 | LPH Present | -- | -- | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/17/95 | 41.13 | **0.24** | 57.29 | LPH Present | -- | -- | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 32.62 | **0.24** | 65.80 | **130,000** | -- | -- | **14,000** | **21,000** | **2,000** | **11,000** | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 32.65 | **0.03** | 65.61 | LPH Present | -- | -- | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 40.26 | **0.06** | 58.03 | LPH Present | -- | -- | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 32.10 | 0.00 | 66.14 | **68,000** | -- | -- | **11,000** | **13,000** | **1,100** | **6,000** | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 32.18 | **0.05** | 66.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 27.40 | 0.00 | 70.84 | **36,000** | -- | -- | **2,300** | **3,300** | 560 | **3,700** | -- | **20** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 28.16 | 0.00 | 70.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 28.23 | 0.00 | 70.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 35.38 | 0.00 | 62.86 | **36,000** | -- | -- | **3,800** | **5,100** | **790** | **4,300** | -- | **22** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 37.76 | 0.00 | 60.48 | **66,000** | -- | -- | **4,100** | **7,900** | **1,100** | **6,500** | -- | **48** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 24.55 | 0.00 | 73.69 | **82,000** | -- | -- | **2,700** | **12,000** | **1,700** | **10,000** | -- | **41** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 23.32 | 0.00 | 74.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 25.51 | 0.00 | 72.73 | **43,000** | -- | -- | **4,100** | **7,300** | **800** | **4,500** | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 30.55 | 0.00 | 67.69 | **52,000** | -- | -- | **5,600** | **11,000** | **1,200** | **6,200** | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 34.17 | 0.00 | 64.07 | **81,000** | -- | -- | **8,700** | **15,000** | **1,500** | **7,700** | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 26.67 | 0.00 | 71.57 | **1,400** | -- | -- | **33** | 51 | 59 | 110 | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 26.00 | 0.00 | 72.24[b] | **1,800** | -- | -- | **42** | 170 | 98 | 310 | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98[NP] | 25.99 | 0.00 | 72.25[b] | **14,000** | -- | -- | **220** | 890 | **79** | **3,100** | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99 | Inaccessible - Lid Stuck | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 32.94 | 0.00 | 65.30[b] | **26,000** | -- | -- | **1,100** | **2,600** | 240 | **3,100** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 43.39 | 0.00 | 54.85 | 218 | -- | -- | 1.11 | 5.55 | 0.642 | 30.1 | -- | 4.47 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 36.20 | 0.00 | 62.04 | <50 | -- | -- | <0.5 | <1 | <1 | 2 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00[NP] | 27.52 | 0.00 | 70.72 | <50.0 | -- | -- | 2.31 | 1.05 | <0.500 | 1.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/11/00[NP] | 26.46 | 0.00 | 71.78 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | 40.05 | 0.00 | 58.19 | **1,990** | -- | -- | **214** | 265 | 20.7 | 333 | -- | **329** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | 34.58 | 0.00 | 63.66 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01 | 43.52 | 0.00 | 54.72 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/30/01[NP] | 40.20 | 0.00 | 58.04 | <50.0 | -- | -- | 1.73 | <0.500 | <0.500 | 1.17 | -- | 1.87 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 11/19/01 | 46.75 | 0.00 | 51.49 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 05/04/02 | 28.46 | 0.00 | 69.78 | <50.0 | -- | -- | 0.748 | <0.500 | <0.500 | 1.08 | -- | 5.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-6** | 11/20/02 | 46.10 | 0.00 | 52.14 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| 98.24 | 05/21/03[NP] | 35.60 | 0.00 | 62.64 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 11/14/03[NP, C] | 46.05 | 0.00 | 52.19 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 34.02 | 0.00 | 64.22 | <100 | -- | -- | 1.95 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | 42.73 | 0.00 | 55.51 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 39.02 | 0.00 | 59.40 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 33.23 | 0.00 | 65.01 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 82.10 | 0.00 | 16.14 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 38.57 | 0.00 | 59.67 | <48 | -- | -- | 0.7 | <0.2 | <0.2 | 0.6 | -- | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 32.80 | 0.00 | 65.44 | 100 | -- | -- | 8 | <0.7 | <0.8 | 1 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | 32.49 | 0.00 | 65.75 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | -- | 0.00 | -- | <48 | -- | -- | 4 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 41.00 | 0.00 | 57.24 | <48 | -- | -- | 4 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 31.14 | 0.00 | 67.10 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | **57.8** | **47.6** | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 27.90 | 0.00 | 70.34 | <50 | -- | -- | 1 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 35.30 | 0.00 | 62.94 | <50 | -- | -- | 2 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | 38.67 | 0.00 | 59.57 | 700 | -- | -- | **230** | 15 | 49 | 7 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | 34.37 | 0.00 | 63.87 | 390 | -- | -- | <0.5 | 83 | 12 | 18 | 10 | 12.1 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.26 | 05/19/08 | 32.28 | 0.00 | 380.98 | **800** | -- | -- | **280** | 37 | 52 | 49 | <0.5 | **23.4** | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | 36.15 | 0.00 | 377.11 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/18/08 | 38.74 | 0.00 | 374.52 | 790 | -- | -- | **290** | 17 | 35 | 64 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 37.20 | 0.00 | 376.06 | 388 | <83 | <420 | **300** | 7.40 | 34 | 20 | <1 | 1.06 | -- | -- | <1 | -- | <1 | <1 | <1 | <1 | <1 |
| | 05/04/09 | 32.52 | 0.00 | 380.74 | <50.0 | <83 | <420 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **20.8** | <1.0 | -- | <1.0 | <0.010 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 08/03/09 | 34.00 | 0.00 | 379.26 | **2,050** | -- | -- | **697** | 30.7 | 126 | 158 | <5.0 | 1.4 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 38.52 | 0.00 | 374.74 | **1,660** 1n,Z2 | -- | -- | **260** | 8.6 | 100 | 118 | <1.0 | 2.2 | 0.11 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/10 | 33.24 | 0.00 | 380.02 | 19.2J, 1n | -- | -- | **16.7** | <1.0 | 1.8 | 3.8 | <1.0 | **18.8** | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/03/10 | 28.13 | 0.00 | 385.13 | <50.0 | -- | -- | 1.1 | <1.0 | <1.0 | <3.0 | <1.0 | **24.9** | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/07/10 | 33.90 | 0.00 | 379.36 | **1,380** | -- | -- | **368** | 13.2 | 93.9 | 156 | <1.0 | 7.1 | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/01/10 | 35.78 | 0.00 | 377.48 | 522 | -- | -- | **277** M1 | 4.3 | 39.2 | 43.9 | <1.0 | 5.3 | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/11 | 27.49 | 0.00 | 385.77 | 399 | -- | -- | **123** | 2.0 | 21.9 | 27.4 | <1.0 | 1.6 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/18/11 | 24.38 | 0.00 | 388.88 | <50.0 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | 1.4 | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/02/11 | 32.32 | 0.00 | 380.94 | 527 | -- | -- | **79.8** | 3.1 | 16.2 | 39.0 | -- | 8.1 | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/07/11 | 37.32 | 0.00 | 375.94 | **1,260** | -- | -- | **112** | 4.2 | 38.3 | 68.2 | <1.0 | 1.6 | 0.14 | -- | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 02/23/12 | 38.05 | 0.00 | 375.21 | 187 | -- | -- | **37.2** | <1.0 | 8.6 | 8.4 | -- | 4.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/12 | 27.95 | 0.00 | 385.31 | <50.0 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | 0.86 | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/01/12 | 31.33 | 0.00 | 381.93 | <50.0 | -- | -- | 4.8 | <1.0 | <1.0 | <3.0 | -- | <0.10 | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | 29.28 | 0.00 | 383.98 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | **31.2** | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | 32.94 | 0.00 | 380.32 | **1,050** | -- | -- | **92.8** | 6 | 39 | 97 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/14 | 36.47 | 0.00 | 376.79 | 530 | <100 | <500 | **190** | 4.1 | 34 | 48 | -- | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 4/29/2015** | 27.39 | 0.00 | 385.87 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 33.54 | 0.00 | 379.72 | **3,760** | -- | -- | **252** | 19.0 | 164 | 303 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 38.12 | 0.00 | 375.14 | **2,560** | -- | -- | **197** | 13.8 | 125 | 243 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/07/16 | 37.00 | 0.00 | 376.26 | **1,140** | -- | -- | **115** | 7.0 | 49.5 | 77.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/17 | 33.16 | 0.00 | 380.10 | 739 | -- | -- | **128** | 8.1 | 44.6 | 56.1 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/04/18 | 35.34 | 0.00 | 377.92 | <19.6 | -- | -- | 0.34 J | <0.083 | 0.25J | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | Well Decommissioned in October 2018 | | | | | | | | | | | | | | | | | | | | | |
| **GW-7D[1]** | 11/11/94 | 77.35 | 0.00 | 19.82 | <50 | -- | -- | 1.3 | 2 | <1 | 2 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 97.17 | 02/17/95 | 77.30 | 0.00 | 19.87 | <50 | -- | -- | 0.7 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-7D** | 05/16/95 | 73.53 | 0.00 | 23.64 | <50 | -- | -- | 1.5 | <1 | <1 | <1 | -- | **19** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 97.17 | 08/09/95 | 75.50 | 0.00 | 21.67 | <50 | -- | -- | <4 | <1 | <1 | <1 | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 11/06/95 | 75.73 | 0.00 | 21.44 | <50 | -- | -- | **6.6** | <1 | <1 | <1 | -- | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 75.58 | 0.00 | 21.59 | <50 | -- | -- | 1.1 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 75.10 | 0.00 | 22.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 73.61 | 0.00 | 23.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 73.55 | 0.00 | 23.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 73.46 | 0.00 | 23.71 | <50 | -- | -- | 2.1 | <1 | <1 | <1 | -- | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 72.84 | 0.00 | 24.33 | <50 | -- | -- | 2.6 | <1 | <1 | <1 | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 73.18 | 0.00 | 23.99 | <50 | -- | -- | 1.2 | <1 | <1 | <1 | -- | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 68.85 | 0.00 | 28.32 | <50 | -- | -- | 0.8 | <1 | <1 | <1 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 71.89 | 0.00 | 25.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 71.19 | 0.00 | 25.98 | <50 | -- | -- | 1.0 | <1 | <1 | <1 | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 70.32 | 0.00 | 26.85 | <50 | -- | -- | 1.1 | <1 | <1 | <1 | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 71.79 | 0.00 | 25.38 | <50 | -- | -- | <1 | <1 | <1 | <1 | -- | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 71.27 | 0.00 | 25.90 | <50 | -- | -- | <1 | <1 | <1 | <1 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 70.75 | 0.00 | 26.42[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98 | 70.64 | 0.00 | 26.53[b] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98 | 71.30 | 0.00 | 25.87[b] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 73.76 | 0.00 | 23.41[b] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99[NP] | 69.40 | 0.00 | 27.77[b] | <50 | -- | -- | 2.7 | <1 | <1 | <1 | -- | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 71.23 | 0.00 | 25.94[b] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 71.62 | 0.00 | 25.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 73.20 | 0.00 | 23.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00[NP] | 76.55 | 0.00 | 20.62 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 09/11/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01 | 77.92 | 0.00 | 19.25 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 7.14 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 08/30/01 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/01 | 79.60 | 0.00 | 17.57 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 05/04/02 | 75.67 | 0.00 | 21.50 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 3.21 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 76.20 | 0.00 | 20.97 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 11.5 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 76.20 | 0.00 | 20.97 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | **19.0** | 13.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | 76.22 | 0.00 | 20.95 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 76.73 | 0.00 | 20.44 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | 78.31 | 0.00 | 18.86 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 76.85 | 0.00 | 20.32 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 77.07 | 0.00 | 20.10 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 77.68 | 0.00 | 19.49 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 77.17 | 0.00 | 20.00 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 76.84 | 0.00 | 20.33 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | 76.32 | 0.00 | 20.85 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | 8.7 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 75.71 | 0.00 | 21.46 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 76.22 | 0.00 | 20.95 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 75.58 | 0.00 | 21.59 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | **62.1** | 52 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 74.70 | 0.00 | 22.47 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 74.05 | 0.00 | 23.12 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| | 11/19/07 | 74.91 | 0.00 | 22.26 | 65 | -- | -- | <0.5 | 2 | <0.8 | 1 | <0.5 | 12.7 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| **GW-7D** | 02/19/08 | 75.02 | 0.00 | 22.15 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | **24.6** | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| 412.23 | 05/19/08 | 75.12 | 0.00 | 337.11 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | **20.0** | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 08/18/08 | 75.37 | 0.00 | 336.86 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/18/08 | 75.85 | 0.00 | 336.38 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 7.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 76.11 | 0.00 | 336.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/05/09 | 76.35 | 0.00 | 335.88 | <50.0 | <83 | <420 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 6.3 | <1.0 | -- | <1.0 | <0.010 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 08/03/09 | 76.24 | 0.00 | 335.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 76.58 | 0.00 | 335.65 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | 76.79 | 0.00 | 335.44 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/03/10 | 76.13 | 0.00 | 336.1 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/07/10 | 75.29 | 0.00 | 336.94 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/01/10 | 75.81 | 0.00 | 336.42 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/10/11 | 74.84 | 0.00 | 337.39 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/18/11 | 74.08 | 0.00 | 338.15 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 73.31 | 0.00 | 338.92 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | 73.80 | 0.00 | 338.43 | <50.0 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | **23.3** | 0.23 | -- | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 02/23/12 | 74.64 | 0.00 | 337.59 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | 74.36 | 0.00 | 337.87 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/14 | NM | 0.00 | -- | Well submerged under large surface puddle of water - not accessible. | | | | | | | | | | | | | | | | | |
| | 04/29/15 | 75.27 | 0.00 | 336.96 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | **19.0** | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 74.80 | 0.00 | 337.43 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 75.24 | 0.00 | 336.99 | <250 | -- | -- | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/07/16 | 73.80 | 0.00 | 338.43 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | **21.6** | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/17 | 71.70 | 0.00 | 340.53 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/05/18 | 72.98 | 0.00 | 339.25 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 2.7J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/13/18 | 73.55 | 0.00 | 338.68 | <19.6 | -- | -- | 4.4 | 1.7 | 0.31 J | <0.31 | -- | 11.6 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/26/19 | 74.65 | 0.00 | 337.58 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/25/19 | 74.90 | 0.00 | 337.33 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 2.9J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 12/16/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| **GW-8S** | 12/11/18 | 35.35 | 0.00 | 378.42 | Insufficient water to sample | | | | | | | | | | | | | | | | | |
| 413.77 | 03/27/19 | 20.02 | 0.00 | 393.75 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/26/19 | 21.92 | 0.00 | 391.85 | <38.3 | -- | -- | <0.10 | <0.83 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | Well not monitored or sampled this quarter - inaccessible due to damaged bolt | | | | | | | | | | | | | | | | | | | | |
| | 12/16/21 | Well not monitored or sampled this quarter - inaccessible due to damaged bolt | | | | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 20.93 | 0.00 | 392.84 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | 21.15 | 0.00 | 392.62 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-8D[1]** | 11/11/94 | 79.12 | 0.00 | 19.70 | **88,000** | -- | -- | **17,000** | **18,000** | **1,000** | **7,000** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 98.82 | 02/17/95 | 79.04 | 0.00 | 19.78 | **11,000** | -- | -- | **20,000** | **22,000** | **1,650** | **9,200** | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 78.28 | 0.00 | 20.54 | **98,000** | -- | -- | **19,000** | **18,000** | **1,500** | **8,300** | -- | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-8D** | 08/09/95 | 77.57 | 0.00 | 21.25 | **95,000** | -- | -- | **21,000** | **19,000** | **1,400** | **7,400** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 98.82 | 11/06/95 | 77.49 | 0.00 | 21.33 | **99,000** | -- | -- | **21,000** | **21,000** | **1,600** | **8,100** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 02/13/96 | 77.27 | 0.00 | 21.55 | **110,000** | -- | -- | **25,000** | **28,000** | **2,000** | **10,000** | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 76.87 | 0.00 | 21.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 75.33 | 0.00 | 23.49 | **100,000** | -- | -- | **23,000** | **24,000** | **1,700** | **9,400** | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 75.13 | 0.00 | 23.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 75.17 | 0.00 | 23.65 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 74.60 | 0.00 | 24.22 | **92,000** | -- | -- | **18,000** | **18,000** | **1,500** | **7,700** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 75.11 | 0.00 | 23.71 | **130,000** | -- | -- | **19,000** | **22,000** | **1,600** | **8,500** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 74.04 | 0.00 | 24.78 | **73,000** | -- | -- | **14,000** | **18,000** | **1,400** | **7,400** | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 73.57 | 0.00 | 25.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 73.38 | 0.00 | 25.44 | **90,000** | -- | -- | **20,000** | **23,000** | **1,500** | **8,200** | -- | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 72.08 | 0.00 | 26.74 | **47,000** | -- | -- | **10,000** | **10,000** | **840** | **4,800** | -- | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 72.91 | 0.00 | 25.91 | **39,000** | -- | -- | **8,000** | **7,600** | **760** | **12,000** | -- | **11** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 73.04 | 0.00 | 25.78 | **6,600** | -- | -- | **920** | 420 | 120 | 350 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 72.40 | 0.00 | 26.42 | 640 | -- | -- | **200** | 92 | 24 | 110 | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98[NP] | 64.50 | 0.00 | 34.32[b] | **4,200** | -- | -- | **150** | 850 | 34 | 820 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98[NP] | 73.98 | 0.00 | 24.84[b] | **1,500** | -- | -- | **38** | 68 | 2 | 460 | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 75.38 | 0.00 | 23.44[b] | 284 | -- | -- | **66.4** | 10.5 | 6.45 | 23.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99[NP] | 64.90 | 0.00 | 33.92[b] | **17,000** | -- | -- | **230** | **1,200** | 100 | **3,400** | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 72.90 | 0.00 | 25.92[b] | <50 | -- | -- | 0.7 | <1 | <1 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 76.78 | 0.00 | 22.04 | <50.0 | -- | -- | 2.46 | <0.500 | 0.509 | 1.44 | -- | 1.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 74.83 | 0.00 | 23.99 | <50 | -- | -- | 3.4 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00[NP] | 73.25 | 0.00 | 25.57 | **8,100** | -- | -- | **34.3** | 10.6 | <5.00 | **1,850** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/11/00[NP] | 67.00 | 0.00 | 31.82 | 69.2 | -- | -- | 0.503 | <0.500 | <0.500 | 6.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | 73.69 | 0.00 | 25.13 | 62.1 | -- | -- | <0.500 | <0.500 | <0.500 | < 1.00 | -- | 2.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01 | DRY | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/30/01[NP] | 78.15 | 0.00 | 20.67 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | 3.05 | -- | 1.50 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 11/19/01 | 78.87 | 0.00 | 19.95 | 99.1 | -- | -- | <0.500 | 2.47 | <0.500 | 25.6 | -- | <1.00 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 05/04/02 | 76.32 | 0.00 | 22.50 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 77.19 | 0.00 | 21.63 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 77.11 | 0.00 | 21.71 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | 77.69 | 0.00 | 21.14 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 77.64 | 0.00 | 21.18 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/10/04 [NP] | 77.70 | 0.00 | 21.12 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 78.21 | 0.00 | 20.61 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 79.11 | 0.00 | 19.71 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 79.44 | 0.00 | 19.38 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.6 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/05 | 78.57 | 0.00 | 20.25 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 78.40 | 0.00 | 20.42 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/31/06 | 77.71 | 0.00 | 21.11 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 77.20 | 0.00 | 21.62 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 78.50 | 0.00 | 20.32 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 77.15 | 0.00 | 21.67 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | **51.1** | **46.2** | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 76.32 | 0.00 | 22.50 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 75.73 | 0.00 | 23.09 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | 76.60 | 0.00 | 22.22 | 150 | -- | -- | 3 | 5 | 1 | 8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-8D** | 02/19/08 | 76.65 | 0.00 | 22.17 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 7.7 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.79 | 05/19/08 | 76.76 | 0.00 | 337.03 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 08/18/08 | 77.09 | 0.00 | 336.70 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/17/08 | 77.50 | 0.00 | 336.29 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 77.75 | 0.00 | 336.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/05/09 | 78.04 | 0.00 | 335.75 | <50.0 | <85 | <430 | <1.0 | <1.0 | <1.0 | 3.1 | <1.0 | 1.8 | <1.0 | -- | <1.0 | <0.010 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 08/03/09 | 77.93 | 0.00 | 335.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 78.20 | 0.00 | 335.59 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | 78.40 | 0.00 | 335.39 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/03/10 | 77.79 | 0.00 | 336.00 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/07/10 | 76.95 | 0.00 | 336.84 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/01/10 | 77.46 | 0.00 | 336.33 | <50.0 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | 8.5 | 0.15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/11 | 74.16 | 0.00 | 339.63 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/18/11 | 75.58 | 0.00 | 338.21 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 74.90 | 0.00 | 338.89 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | 75.47 | 0.00 | 338.32 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/23/12 | 76.29 | 0.00 | 337.50 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | 76.72 | 0.00 | 337.07 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/18/14 | 77.11 | 0.00 | 336.68 | <100 | <100 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/15 | 76.89 | 0.00 | 336.90 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 76.46 | 0.00 | 337.33 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 76.91 | 0.00 | 336.88 | <250 | -- | -- | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/28/16 | 75.30 | 0.00 | 338.49 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/17 | 73.40 | 0.00 | 340.39 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/05/18 | 74.62 | 0.00 | 339.17 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.77 | 12/12/18 | 75.05 | 0.00 | 338.72 | <19.6 | -- | -- | <0.10 | <0.083 | 0.28J | <0.31 | -- | 2.2J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/27/19 | 76.29 | 0.00 | 337.48 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/26/19 | 76.42 | 0.00 | 337.35 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 77.12 | 0.00 | 336.65 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 12/16/21 | 77.66 | 0.00 | 336.11 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 77.09 | 0.00 | 336.68 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | 75.97 | 0.00 | 337.80 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-9D**[1] | 11/11/94 | 79.83 | 0.00 | 19.74 | **93,000** | -- | -- | **6,600** | **18,000** | **1,400** | **9,300** | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 99.57 | 02/17/95 | 79.79 | 0.00 | 19.78 | **87,000** | -- | -- | **9,100** | **17,000** | **1,330** | **7,900** | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 78.99 | 0.00 | 20.58 | **68,000** | -- | -- | **7,700** | **12,000** | **1,200** | **6,000** | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 78.32 | 0.00 | 21.25 | **88,000** | -- | -- | **12,000** | **18,000** | **1,200** | **7,100** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 78.23 | 0.00 | 21.34 | **88,000** | -- | -- | **11,000** | **20,000** | **1,300** | **7,900** | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 78.00 | 0.00 | 21.57 | **69,000** | -- | -- | **11,000** | **16,000** | **1,300** | **6,300** | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 77.60 | 0.00 | 21.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 76.05 | 0.00 | 23.52 | **76,000** | -- | -- | **13,000** | **20,000** | **1,500** | **7,500** | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 76.01 | 0.00 | 23.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 75.91 | 0.00 | 23.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-9D** | 09/24/96 | 75.26 | 0.00 | 24.31 | **34,000** | -- | -- | **4,600** | **6,200** | 650 | **2,800** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 99.57 | 12/12/96 | 75.77 | 0.00 | 23.80 | **100,000** | -- | -- | **11,000** | **18,000** | **1,700** | **8,400** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 03/24/97 | 74.81 | 0.00 | 24.76 | **64,000** | -- | -- | **7,400** | **14,000** | **1,400** | **1,200** | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 74.32 | 0.00 | 25.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 73.05 | 0.00 | 26.52 | **74,000** | -- | -- | **8,500** | **20,000** | **1,500** | **7,700** | -- | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 72.87 | 0.00 | 26.70 | **47,000** | -- | -- | **4,000** | **11,000** | **940** | **4,600** | -- | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 73.61 | 0.00 | 25.96 | **34,000** | -- | -- | **2,500** | **6,900** | **760** | **3,300** | -- | **27** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 73.75 | 0.00 | 25.82 | 52 | -- | -- | 2 | 4 | 2 | 7 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 73.12 | 0.00 | 26.45 | <50 | -- | -- | <0.5 | <1 | <1 | 1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98[NP] | 72.54 | 0.00 | 27.03 | **46,000** | -- | -- | **1,800** | **6,700** | 150 | **11,000** | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98[NP] | 74.80 | 0.00 | 24.77 | 200 | -- | -- | **93** | 6 | 6 | 32 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 76.08 | 0.00 | 23.49 | **3,250** | -- | -- | **647** | 215 | 112 | 482 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99[NP] | 68.45 | 0.00 | 31.12 | **3,000** | -- | -- | **32** | 34 | 10 | 630 | -- | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 73.61 | 0.00 | 25.96 | <50 | -- | -- | 2.9 | <1 | <1 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 77.38 | 0.00 | 22.19 | **6,440** | -- | -- | **2,510** | 129 | 625 | 841 | -- | 7.05 | -- | -- | <10.0 | -- | -- | -- | -- | **25.0** | -- |
| | 02/09/00[NP] | 75.54 | 0.00 | 24.03 | 320 | -- | -- | **34** | <0.5 | 0.67 | 0.74 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | <0.5 | -- |
| | 05/24/00[NP] | 75.90 | 0.00 | 23.67 | 98.0 | -- | -- | <1.25 | <0.550 | <0.500 | 3.11 | -- | -- | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 09/11/00[NP] | 68.40 | 0.00 | 31.17 | **1,160** | -- | -- | **94.8** | 2.53 | 40.3 | 134 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00[NP] | 76.41 | 0.00 | 23.16 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 3.70 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 02/23/01 | 74.59 | 0.00 | 24.98 | 133 | -- | -- | 0.721 | < 0.500 | 3.34 | 3.07 | -- | 10.6 | -- | -- | < 1.00 | -- | -- | -- | -- | < 1.00 | < 1.00 |
| | 05/16/01 | 79.10 | 0.00 | 20.47 | <50.0 | -- | -- | 3.92 | < 0.500 | 1.18 | < 1.00 | -- | <1.00 | -- | -- | < 1.00 | -- | -- | -- | -- | < 1.00 | < 1.00 |
| | 08/30/01[NP] | 78.85 | 0.00 | 20.72 | 63.4 | -- | -- | **52.5** | < 0.500 | 2.39 | <1.00 | -- | 2.03 | -- | -- | 1.62 | -- | -- | -- | -- | < 1.00 | < 1.00 |
| | 11/19/01 | 79.38 | 0.00 | 20.19 | <50.0 | -- | -- | 0.726 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | < 1.00 | -- | -- | -- | -- | < 1.00 | < 1.00 |
| | 05/04/02 | 78.05 | 0.00 | 21.52 | <50.0 | -- | -- | 0.670 | <0.500 | <0.500 | 1.31 | -- | 2.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 77.97 | 0.00 | 21.60 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 78.09 | 0.00 | 21.48 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | 78.36 | 0.00 | 21.22 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 78.40 | 0.00 | 21.17 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/10/04 [NP] | 78.48 | 0.00 | 21.09 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 78.85 | 0.00 | 20.72 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 79.71 | 0.00 | 19.86 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 79.94 | 0.00 | 19.63 | <48 | -- | -- | 0.6 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 79.37 | 0.00 | 20.20 | <48 | -- | -- | 0.6 | <0.2 | <0.2 | <0.6 | -- | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 79.12 | 0.00 | 20.45 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/31/06 | 78.42 | 0.00 | 21.15 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 77.87 | 0.00 | 21.70 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 78.45 | 0.00 | 21.12 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 77.88 | 0.00 | 21.69 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | **52.9** | **49.5** | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 77.00 | 0.00 | 22.57 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 76.45 | 0.00 | 23.12 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | Dry | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | 77.37 | 0.00 | 22.20 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 8.8 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| 414.53 | 05/19/08 | 77.47 | 0.00 | 337.06 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | 77.78 | -- | 336.75 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/17/08 | 78.20 | 0.00 | 336.33 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 78.50 | 0.00 | 336.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/05/09 | 78.78 | 0.00 | 335.75 | <50.0 | <85 | <430 | <1.0 | 1.0 | <1.0 | 5.3 | <1.0 | 1.1 | <1.0 | -- | <1.0 | <0.010 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 08/03/09 | 78.65 | 0.00 | 335.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

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Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-9D** | 11/03/09 | 78.92 | 0.00 | 335.61 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| 414.53 | 02/08/10 | 79.11 | 0.00 | 335.42 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| (cont.) | 05/03/10 | 78.52 | 0.00 | 336.01 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/07/10 | 77.70 | 0.00 | 336.83 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/01/10 | 78.15 | 0.00 | 336.38 | 671 | -- | -- | <1.0 | <1.0 | 9.3 | 47.2 | <1.0 | 1.9 | <0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/11 | 77.80 | 0.00 | 336.73 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/18/11 | 76.37 | 0.00 | 338.16 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 75.65 | 0.00 | 338.88 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | 76.18 | 0.00 | 338.35 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/23/12 | 76.92 | 0.00 | 337.61 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | 76.04 | 0.00 | 338.49 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/18/14 | 77.82 | 0.00 | 336.71 | <100 | <100 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/15 | 77.57 | 0.00 | 336.96 | 272 | -- | -- | <1.0 | <1.0 | <1.0 | 10.8 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 77.17 | 0.00 | 337.36 | 148 | -- | -- | <1.0 | <1.0 | <1.0 | 4.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 78.23 | 0.00 | 336.30 | <250 | -- | -- | <0.5 | <0.5 | <0.5 | 2.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/07/16 | 76.10 | 0.00 | 338.43 | 130 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/17 | 74.09 | 0.00 | 340.44 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/05/18 | 75.37 | 0.00 | 339.16 | <19.6 | -- | -- | <0.10 | 0.17 J | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/18 | 75.75 | 0.00 | 338.78 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/28/19 | 76.98 | 0.00 | 337.55 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/26/19 | 77.50 | 0.00 | 337.03 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/20 | Well Decommissioned June 11, 2020 | | | | | | | | | | | | | | | | | | | | |
| **GW-10S** | 12/13/18 | 22.10 | 0.00 | 393.36 | <19.6 | -- | -- | 0.37 J | 0.32 J | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 415.46 | 03/27/19 | 20.90 | 0.00 | 394.56 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/26/19 | 22.13 | 0.00 | 393.33 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 35.52 | 0.00 | 379.94 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 12/16/21 | 30.01 | 0.00 | 385.45 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 03/30/22 | 25.95 | 0.00 | 389.51 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | 25.81 | 0.00 | 389.65 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-10D**[1] | 11/11/94 | 80.74 | 0.00 | 19.82 | 510 | -- | -- | **14.4** | 39 | 2 | 46 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 100.56 | 02/17/95 | 80.68 | 0.00 | 19.88 | **1,230** | -- | -- | **19.8** | 119 | 11 | 129 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 79.89 | 0.00 | 20.67 | 810 | -- | -- | **19.2** | 94 | <1 | 97 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 79.21 | 0.00 | 21.35 | 120 | -- | -- | 2.2 | 6 | <1 | 21 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 79.10 | 0.00 | 21.46 | 290 | -- | -- | **5.9** | 21 | <1 | 46 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 78.92 | 0.00 | 21.64 | **2,600** | -- | -- | **38** | 291 | 10 | 324 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 78.48 | 0.00 | 22.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 77.00 | 0.00 | 23.56 | **1,260** | -- | -- | **28.9** | 121 | 8 | 190 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 76.94 | 0.00 | 23.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 76.82 | 0.00 | 23.74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 76.15 | 0.00 | 24.41 | <50 | -- | -- | 0.6 | <1 | <1 | 3 | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 76.63 | 0.00 | 23.93 | 558 | -- | -- | 4.9 | 14 | 5 | 61 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 75.87 | 0.00 | 24.69 | **1,200** | -- | -- | 2.6 | 31 | 23 | 160 | -- | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-10D** | 04/11/97 | 75.29 | 0.00 | 25.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 100.56 | 06/18/97 | 73.98 | 0.00 | 26.58 | **3,110** | -- | -- | **15.7** | 133 | 68 | 434 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 08/25/97 | 73.60 | 0.00 | 26.96 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97[*] | 74.52 | 0.00 | 26.04 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **26** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 74.61 | 0.00 | 25.95 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 73.74 | 0.00 | 26.82[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98[NP] | 72.90 | 0.00 | 27.66[b] | **3,000** | -- | -- | **5.9** | 55 | 15 | 310 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98[NP] | 75.26 | 0.00 | 25.30[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 76.77 | 0.00 | 23.79[b] | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99[NP] | 63.60 | 0.00 | 36.96[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 74.17 | 0.00 | 26.39[b] | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 61.05 | 0.00 | 39.51 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 76.11 | 0.00 | 24.45 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00[NP] | 75.15 | 0.00 | 25.41 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/11/00[NP] | 36.00 | 0.00 | 64.56 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | 80.17 | 0.00 | 20.39 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | < 1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01 | 81.63 | 0.00 | 18.93 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/30/01[NP] | 79.60 | 0.00 | 20.96 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.07 | -- | -- | < 1.00 | -- | -- | -- | -- | < 1.00 | < 1.00 |
| | 11/19/01 | 80.85 | 0.00 | 19.71 | <50.0 | -- | -- | <0.500 | 0.873 | <0.500 | 1.03 | -- | <1.00 | -- | -- | < 1.00 | -- | -- | -- | -- | < 1.00 | < 1.00 |
| | 05/04/02 | 78.81 | 0.00 | 21.75 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 78.60 | 0.00 | 21.96 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 78.03 | 0.00 | 22.53 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | 80.91 | 0.00 | 19.65 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 76.50 | 0.00 | 24.06 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | 81.65 | 0.00 | 18.91 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 79.02 | 0.00 | 21.54 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 81.41 | 0.00 | 19.15 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 81.98 | 0.00 | 18.58 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 80.31 | 0.00 | 20.25 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 80.03 | 0.00 | 20.53 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | 79.46 | 0.00 | 21.10 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 78.70 | 0.00 | 21.86 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 79.35 | 0.00 | 21.21 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 78.70 | 0.00 | 21.86 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 55.8 | 53.3 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 77.82 | 0.00 | 22.74 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 77.15 | 0.00 | 23.41 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | 77.00 | 0.00 | 23.56 | 67 | -- | -- | <0.5 | 2 | <0.8 | 3 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | 78.12 | 0.00 | 22.44 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 11.4 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| 415.30 | 05/19/08 | 78.25 | 0.00 | 337.05 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | 78.53 | 0.00 | 336.77 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/17/08 | 78.95 | 0.00 | 336.35 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | 79.25 | 0.00 | 336.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/04/09 | 79.29 | 0.00 | 336.01 | <50.0 | <83 | <420 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- | <1.0 | <0.010 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 08/03/09 | 79.39 | 0.00 | 335.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 79.60 | 0.00 | 335.70 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | 79.92 | 0.00 | 335.38 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/03/10 | 79.29 | 0.00 | 336.01 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800* | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-10D** | 09/07/10 | 78.40 | 0.00 | 336.90 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| 415.3 | 12/01/10 | 78.95 | 0.00 | 336.35 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| (cont.) | 02/10/11 | 76.95 | 0.00 | 338.35 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/18/11 | 77.20 | 0.00 | 338.10 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 76.35 | 0.00 | 338.95 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | 76.87 | 0.00 | 338.43 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/23/12 | 77.78 | 0.00 | 337.52 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | 77.52 | 0.00 | 337.78 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/14 | 78.62 | 0.00 | 336.68 | <100 | **560** | <500 | 0.51 | <0.50 | <0.50 | 1.0 | -- | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/15 | 78.41 | 0.00 | 336.89 | <100 | <92 | <230 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 77.93 | 0.00 | 337.37 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 78.35 | 0.00 | 336.95 | <250 | -- | -- | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/16 | 76.80 | 0.00 | 338.50 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/19/17 | 74.79 | 0.00 | 340.51 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/04/18 | 76.06 | 0.00 | 339.24 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 415.30 | 12/13/18 | 76.60 | 0.00 | 338.70 | <19.6 | -- | -- | 1.5 | 0.90 J | 0.18 J | <0.31 | -- | 2.9J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/27/19 | 77.75 | 0.00 | 337.55 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/26/19 | 77.90 | 0.00 | 337.40 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/12/19 | 78.60 | 0.00 | 336.70 | <38.3 | <75.3 | 205J | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/19 | 79.00 | 0.00 | 336.30 | <38.3 | <67.7 | <79.9 | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/11/20 | 79.54 | 0.00 | 335.76 | <38.3 | <69.1 | <81.6 | <0.12 | <0.12 | <0.075 | <0.29 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | 79.25 | 0.00 | 336.05 | 45.7J | -- | -- | 0.0773J | <0.278 | 0.157J | 0.238J | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/15/21 | 78.40 | 0.00 | 336.90 | <31.6 | -- | -- | <0.0941 | 0.477J | 1.67 | 10.7 | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/08/21 | 78.58 | 0.00 | 336.72 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/21 | 79.52 | 0.00 | 335.78 | <42.8 | -- | -- | <0.10 | <0.10 | <0.11 | <0.20 | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/30/22 | 78.78 | 0.00 | 336.52 | <22.2 | -- | -- | <0.10 | <0.10 | <0.11 | <0.20 | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/27/22 | 75.46 | 0.00 | 339.84 | <31.6 | -- | -- | <0.10 | <0.10 | <0.11 | <0.20 | -- | <2.6 | <2.6 | 0.50J | -- | -- | -- | -- | -- | -- | -- |
| **GW-11D**[1] | 11/11/94 | 79.83 | 0.00 | 19.89 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 99.72 | 02/17/95 | 79.81 | 0.00 | 19.91 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/95 | 79.01 | 0.00 | 20.71 | <50 | -- | -- | 1.5 | <1 | <1 | <1 | -- | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 78.35 | 0.00 | 21.37 | <50 | -- | -- | 2.5 | <1 | <1 | <1 | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 78.20 | 0.00 | 21.52 | <50 | -- | -- | 0.7 | <1 | <1 | <1 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 78.02 | 0.00 | 21.70 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 77.55 | 0.00 | 22.17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 76.09 | 0.00 | 23.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 76.03 | 0.00 | 23.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 75.92 | 0.00 | 23.80 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 75.28 | 0.00 | 24.44 | <50 | -- | -- | <0.5 | <1 | <1 | 1 | -- | **25** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 75.80 | 0.00 | 23.92 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 74.69 | 0.00 | 25.03 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **29** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 74.34 | 0.00 | 25.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 73.11 | 0.00 | 26.61 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **19** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 73.00 | 0.00 | 26.72 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **19** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97* | 73.61 | 0.00 | 26.11 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **23** | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID<br>TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-11D** | 02/12/98[NP] | 73.78 | 0.00 | 25.94 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 99.72 | 05/14/98[NP] | 73.17 | 0.00 | 26.55 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 08/25/98 | 70.10 | 0.00 | 29.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98 | 73.65 | 0.00 | 26.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 76.10 | 0.00 | 23.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99[NP] | 64.90 | 0.00 | 34.82 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **98** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 73.88 | 0.00 | 25.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/11/99[NP] | 77.08 | 0.00 | 22.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/09/00[NP] | 75.61 | 0.00 | 24.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/24/00[NP] | 75.55 | 0.00 | 24.17 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/11/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01[NP] | 80.33 | 0.00 | 19.39 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/30/01 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/01 | 80.66 | 0.00 | 19.06 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 05/04/02 | 78.07 | 0.00 | 21.65 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 2.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 78.44 | 0.00 | 21.28 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.54 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 78.07 | 0.00 | 21.65 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.21 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | 78.68 | 0.00 | 21.05 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 78.57 | 0.00 | 21.15 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/9/04 [NP] | 79.91 | 0.00 | 19.81 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 79.61 | 0.00 | 20.11 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 79.75 | 0.00 | 19.97 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 80.32 | 0.00 | 19.40 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 79.58 | 0.00 | 20.14 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 79.24 | 0.00 | 20.48 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/30/06 | 78.62 | 0.00 | 21.10 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 78.00 | 0.00 | 21.72 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 78.54 | 0.00 | 21.18 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 77.95 | 0.00 | 21.77 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 76.7 | 65.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 77.05 | 0.00 | 22.67 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 77.05 | 0.00 | 22.67 | -- | -- | -- | -- | -- | -- | -- | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 76.39 | 0.00 | 23.33 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | 77.22 | 0.00 | 22.50 | 91 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | 77.35 | 0.00 | 22.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 414.58 | 05/19/08 | 77.48 | 0.00 | 337.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | 77.68 | 0.00 | 336.90 | Well not sampled due to obstruction. | | | | | | | | | | | | | | | | | |
| | 11/17/08 | 78.19 | 0.00 | 336.39 | Well not sampled due to obstruction. | | | | | | | | | | | | | | | | | |
| | 02/04/09 | 78.45 | 0.00 | 336.13 | Well not sampled due to obstruction. | | | | | | | | | | | | | | | | | |
| | 05/04/09 | 78.54 | 0.00 | 336.04 | Well not sampled due to obstruction. | | | | | | | | | | | | | | | | | |
| | 08/03/09 | 78.60 | 0.00 | 335.98 | Well not sampled due to obstruction. | | | | | | | | | | | | | | | | | |
| | 11/03/09 | 78.91 | 0.00 | 335.67 | Well not sampled due to obstruction. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | 79.15 | 0.00 | 335.43 | Well not sampled due to obstruction. | | | | | | | | | | | | | | | | | |
| | 05/03/10 | 78.52 | 0.00 | 336.06 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/07/10 | 77.65 | 0.00 | 336.93 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/01/10 | 78.18 | 0.00 | 336.40 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/10/11 | 75.79 | 0.00 | 338.79 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-11D** | 05/18/11 | 76.45 | 0.00 | 338.13 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| 414.58 | 09/02/11 | 75.52 | 0.00 | 339.06 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| (cont.) | 12/07/11 | 76.16 | 0.00 | 338.42 | <50 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | 7.9 | 0.15 | -- | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 02/23/12 | 77.00 | 0.00 | 337.58 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | 76.72 | 0.00 | 337.86 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/14 | 77.83 | 0.00 | 336.75 | <100 | 110 | <500 | 1.3 | <0.50 | 0.92 | 2.3 | -- | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/29/15 | 77.64 | 0.00 | 336.94 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/23/15 | 77.14 | 0.00 | 337.44 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 77.56 | 0.00 | 337.02 | <250 | -- | -- | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/16 | 75.90 | 0.00 | 338.68 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/19/17 | 74.00 | 0.00 | 340.58 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | 14.3 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/04/18 | 75.28 | 0.00 | 339.30 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 2.1J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/11/18 | 75.85 | 0.00 | 338.73 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 3.0J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/26/19 | 76.98 | 0.00 | 337.60 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | | | | | | | |
| | 06/25/19 | 77.10 | 0.00 | 337.48 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | | | | | | | |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 77.79 | 0.00 | 336.79 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 12/16/21 | 78.39 | 0.00 | 336.19 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 77.84 | 0.00 | 336.74 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | 76.73 | 0.00 | 337.85 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-12D**[1] | 04/20/95 | -- | 0.00 | -- | <50 | -- | -- | 0.6 | <1 | <1 | <1 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 91.32 | 05/16/95 | 67.52 | 0.00 | 23.80 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/09/95 | 67.18 | 0.00 | 24.14 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/06/95 | 67.51 | 0.00 | 23.81 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/13/96 | 67.35 | 0.00 | 23.97 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/96 | 66.98 | 0.00 | 24.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/96 | 65.17 | 0.00 | 26.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/06/96 | 65.09 | 0.00 | 26.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/11/96 | 65.05 | 0.00 | 26.27 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **23** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/24/96 | 65.35 | 0.00 | 25.97 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/96 | 64.97 | 0.00 | 26.35 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | **17** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/24/97 | 63.86 | 0.00 | 27.46 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/11/97 | 63.03 | 0.00 | 28.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/18/97 | 62.12 | 0.00 | 29.20 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/97 | 62.24 | 0.00 | 29.08 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/97 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/12/98[NP] | 62.50 | 0.00 | 28.82 | <50 | -- | -- | <0.5 | <1 | <1 | 1 | -- | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/14/98[NP] | 62.10 | 0.00 | 29.22 | <50 | -- | -- | <0.5 | <1 | <1 | 1 | -- | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/25/98 | 63.19 | 0.00 | 28.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/98 | 64.60 | 0.00 | 26.72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/99 | 65.13 | 0.00 | 26.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/28/99[NP] | 61.84 | 0.00 | 29.48 | <50 | -- | -- | <0.5 | <1 | <1 | <1 | -- | <2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/99[NP] | 62.92 | 0.00 | 28.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-12D** | 11/11/99[NP] | 64.40 | 0.00 | 26.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 91.32 | 02/09/00[NP] | 64.98 | 0.00 | 26.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 05/24/00[NP] | 63.14 | 0.00 | 28.18 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 09/11/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/27/00 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/23/01 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/01[NP] | 66.70 | 0.00 | 24.62 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 4.41 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 08/30/01 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/01 | 67.40 | 0.00 | 23.92 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | 1.01 | -- | 9.34 | -- | -- | <1.00 | -- | -- | -- | -- | <1.00 | <1.00 |
| | 05/04/02 | 66.32 | 0.00 | 25.00 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 5.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/20/02 | 66.52 | 0.00 | 24.80 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.47 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/21/03[NP] | 66.65 | 0.00 | 24.67 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | 1.96 | <1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/03[NP] | 64.91 | 0.00 | 26.42 | <50.0 | -- | -- | <1.00 | <1.00 | <1.00 | <1.50 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/13/04[NP] | 64.80 | 0.00 | 26.52 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <5.00 | <5.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/10/04 [NP] | 67.05 | 0.00 | 24.27 | <100 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | **15.5** | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/08/05 | 67.31 | 0.00 | 24.01 | <100 | -- | -- | <0.5 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/16/05 | 67.05 | 0.00 | 24.27 | <100 | -- | -- | <1 | <1 | <1 | <3 | <1 | <15 | <15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/05 | 66.87 | 0.00 | 24.45 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | <0.3 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/22/05 | 67.43 | 0.00 | 23.89 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/01/06 | 66.90 | 0.00 | 24.42 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <8.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/31/06 | 66.35 | 0.00 | 24.97 | <48 | -- | -- | <0.2 | <0.2 | <0.2 | <0.6 | -- | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/28/06 | 66.07 | 0.00 | 25.25 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/06 | 78.00 | 0.00 | 13.32 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/21/07 | 65.91 | 0.00 | 25.41 | <48 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 76.5 | 65.4 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/22/07 | 66.08 | 0.00 | 25.24 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | 12 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/07 | 64.97 | 0.00 | 26.35 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/19/07 | 69.95 | 0.00 | 21.37 | <50 | -- | -- | <0.5 | 0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/19/08 | 65.58 | 0.00 | 25.74 | <50 | -- | -- | <0.5 | 0.7 | <0.8 | <0.8 | <0.5 | **19** | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| 406.56 | 05/19/08 | 65.45 | 0.00 | 341.11 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/08 | 65.88 | 0.00 | 340.68 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/17/08 | 66.40 | 0.00 | 340.16 | <50 | -- | -- | <0.5 | <0.7 | <0.8 | <0.8 | <0.5 | <6.9 | <6.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/09 | Unable to locate well | | | | | | | | | | | | | | | | | | | | |
| | 05/05/09 | 67.12 | 0.00 | 339.44 | <50.0 | <83 | <420 | <1.0 | <1.0 | <1.0 | 2.4 | <1.0 | 3.7 | <1.0 | -- | <1.0 | <0.010 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | 08/03/09 | 64.60 | 0.00 | 341.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/03/09 | 66.80 | 0.00 | 339.76 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/08/10 | 66.85 | 0.00 | 339.71 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/03/10 | 65.81 | 0.00 | 340.75 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/07/10 | 65.45 | 0.00 | 341.11 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/01/10 | 66.03 | 0.00 | 340.53 | <50.0 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | 8.3 | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/10/11 | 65.39 | 0.00 | 341.17 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/18/11 | 64.83 | 0.00 | 341.73 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 09/02/11 | 64.90 | 0.00 | 341.66 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 12/07/11 | 65.43 | 0.00 | 341.13 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 02/23/12 | 66.18 | 0.00 | 340.38 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 05/22/12 | 63.55 | 0.00 | 343.01 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 08/01/12 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/20/13 | NM | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID<br>TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Levels** | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-12D** | 12/18/14 | 64.45 | 0.00 | 342.11 | <100 | <100 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | -- | <5.0 | <5.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 406.58 | 04/29/15 | 63.40 | 0.00 | 343.16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 07/23/15 | 63.75 | 0.00 | 342.81 | <100 | -- | -- | <1.0 | <1.0 | 1.5 | <3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/15/15 | 65.62 | 0.00 | 340.94 | Well gauged only this quarter. | | | | | | | | | | | | | | | | | |
| | 10/07/16 | 64.50 | 0.00 | 342.06 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/19/17 | 62.35 | 0.00 | 344.21 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/05/18 | 63.65 | 0.00 | 342.91 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/18 | 64.28 | 0.00 | 342.28 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 2.8J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/28/19 | 64.94 | 0.00 | 341.62 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/26/19 | 64.90 | 0.00 | 341.66 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 3.6J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 65.37 | 0.00 | 341.19 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 12/16/21 | 65.96 | 0.00 | 340.60 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 64.92 | 0.00 | 341.64 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | NM | 0.00 | -- | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-13S** | 12/13/18 | 38.85 | 0.00 | 374.28 | **9,380** | -- | -- | **41.3** | 14 | 230.0 | 882 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.13 | 03/28/19 | 32.70 | 0.00 | 380.43 | **2,780** | -- | -- | **12.3** | 4.1 | 69.5 | 194 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/28/19 | 34.46 | 0.00 | 378.67 | 712 | -- | -- | 0.55J | 0.20J | 8.3 | 46.5 | -- | 3.8J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/12/19 | 38.25 | 0.00 | 374.88 | **5,740** | -- | -- | **6.9** | 1.8 | 99.1 | 190 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/11/19 | 40.00 | 0.00 | 375.30 | **6,150** | -- | -- | **34.2** | 9.9 | 144 | 257 | -- | 2.3J | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/11/20 | 31.75 | 0.00 | 381.38 | **3,300** | -- | -- | **11.8** | 4.7 | 61.9 | 186 | | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | 32.90 | 0.00 | 380.23 | 744 | -- | -- | **8.5** | 3.4 | 40.0 | 28.0 | -- | <2.0 | 2.2J | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/09/21 | 27.35 | 0.00 | 385.78 | **2,410** | -- | -- | 3.78 | 1.86 | 30.3 | 107.0 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/14/21 | 32.42 | 0.00 | 380.71 | **5,810** | -- | -- | **10.4** | 5.90 | 90.1 | 220 | -- | 3.8J | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/08/21 | 38.16 | 0.00 | 374.97 | **3,650** | -- | -- | **1.48** | 17.2 | 41.9 | 177 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/16/21 | 37.96 | 0.00 | 375.17 | **1,630** | -- | -- | 0.83J | 0.32J | 9.7 | 26.9 | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/30/22 | 28.37 | 0.00 | 384.76 | **2,100** | -- | -- | 2.8 | 2.3 | 26.5 | 57.1 | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/27/22 | 28.89 | 0.00 | 384.24 | **2,710** | -- | -- | **7.5** | 6.2 | 61.8 | 95.2 | -- | <2.6 | <2.6 | 0.33J | -- | -- | -- | -- | -- | -- | -- |
| **GW-13D** | 12/13/18 | 74.30 | 0.00 | 338.64 | <19.6 | -- | -- | 0.98 J | 0.74 J | 0.15 J | <0.31 | -- | 10.00 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 412.94 | 03/26/19 | 75.34 | 0.00 | 337.60 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/27/19 | 75.50 | 0.00 | 337.44 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 2.5J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/12/19 | 76.17 | 0.00 | 336.77 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 4.2J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/11/19 | 76.65 | 0.00 | 338.65 | 66.9J | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | 5.0J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/11/20 | 77.10 | 0.00 | 335.84 | <38.3 | -- | -- | <0.12 | <0.12 | <0.075 | <0.29 | -- | 4.4J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | 76.90 | 0.00 | 336.04 | <42.8 | -- | -- | <0.0941 | <0.278 | <0.137 | <0.174 | -- | 7.4J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/14/21 | 76.00 | 0.00 | 336.94 | <31.6 | -- | -- | <0.0941 | <0.278 | 0.162J | 0.401J | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/08/21 | 76.15 | 0.00 | 336.79 | 902 | -- | -- | <1.00 | 1.58 | 5.03 | 25.0 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/16/21 | 76.78 | 0.00 | 336.16 | <42.8 | -- | -- | <0.10 | <0.10 | <0.11 | <0.20 | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/30/22 | 76.35 | 0.00 | 336.59 | <22.2 | -- | -- | <0.10 | <0.10 | <0.11 | <0.20 | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/27/22 | 75.08 | 0.00 | 337.86 | <31.6 | -- | -- | <0.10 | <0.10 | <0.11 | <0.20 | -- | 4.5J | 5.3J | <0.23 | -- | -- | -- | -- | -- | -- | -- |
| **GW-14S** | 12/11/18 | 41.05 | 0.00 | 372.73 | **113,000** | -- | -- | **13.8** | **6,440** | **2,790** | **17,600** | -- | 5.0 J | 3.0 J | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.78 | 03/28/19 | 38.82 | 0.00 | 374.96 | **53,300** | -- | -- | **9.7J** | **3,470** | **1,870** | **9,300** | -- | <2.0 | 2.2J | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/28/19 | 40.30 | 0.00 | 373.48 | **96,200** | -- | -- | **21.6** | **5,350** | **2,610** | **13,300** | -- | 4.2J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/12/19 | 44.73 | 0.00 | 369.05 | **93,400** | -- | -- | **356** | **3,660** | **2,840** | **13,700** | -- | 11.1 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/19 | 45.00 | 0.00 | 370.30 | **114,000** | -- | -- | **693** | **3,900** | **2,430** | **11,400** | -- | 2.5J | 2.2J | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/12/20 | 38.18 | 0.00 | 375.60 | **35,800** | -- | -- | 4.5J | **1,030** | 499 | **2,360** | -- | 3.2J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |

**TABLE 2**
**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-14S** | 07/31/20 | 37.35 | 0.00 | 376.43 | **357,000** | -- | -- | **8.3J** | 814 | **1,030** | **3,960** | | 8.8J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.78 | 03/09/21 | 36.00 | 0.00 | 377.78 | **23,200** | -- | -- | **10.6** | 107 | 75.4 | 334 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont.) | 07/14/21 | 40.09 | 0.00 | 373.69 | **50,900** | -- | -- | **48.7J** | **4,350** | **1,740** | **9,000** | -- | 3.3J | 2.9J | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/08/21 | 44.81 | 0.00 | 368.97 | **51,800** | -- | -- | **290** | **2,310** | **1,810** | **8,560** | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/21 | 42.92 | 0.00 | 370.86 | **65,900** | -- | -- | **26.1J** | **1,720** | **2,060** | **9,870** | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/31/22 | 36.84 | 0.00 | 376.94 | **19,400** | -- | -- | **10.4** | 514 | 575 | **2,350** | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/29/22 | 35.68 | 0.00 | 378.10 | **21,800** | -- | -- | **18.4** | 715 | **1,040** | **3,930** | -- | <2.6 | <2.6 | **2.5J** | -- | -- | -- | -- | -- | -- | -- |
| **GW-14D** | 12/13/18 | 75.00 | 0.00 | 338.72 | <19.6 | -- | -- | **12** | 0.40 J | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 413.72 | 03/30/19 | 76.12 | 0.00 | 337.60 | 502 | -- | -- | **580** | 1.5 | 34.4 | 3.5 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/28/19 | 76.32 | 0.00 | 337.40 | 604 | -- | -- | **956** | 7.5 | 60.0 | 19.2 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/12/19 | 76.82 | 0.00 | 336.90 | 402 | -- | -- | **671** | 3.0 J | 23.1 | <1.5 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/19 | 77.30 | 0.00 | 338.00 | 39.9J | -- | -- | 1.5 | 0.16J | 0.15J | <0.31 | -- | 4.4J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/12/20 | 77.90 | 0.00 | 335.82 | Well not sampled this quarter. | | | | | | | | | | | | | | | | | |
| | 07/31/20 | 73.60 | 0.00 | 340.12 | 908 | -- | -- | **509** | 0.38J | 1.6 | <0.29 | -- | 2.6J | 2.5J | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/09/21 | 73.20 | 0.00 | 340.52 | 337 | -- | -- | **665** | <5.56 | 7.86J | <3.48 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/15/21 | 76.71 | 0.00 | 337.01 | **1,720** | -- | -- | **636** | <5.56 | 4.86J | 5.72J | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/08/21 | 76.93 | 0.00 | 336.79 | **3,300** | -- | -- | **<1.00** | 36.9 | 49.9 | 247 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/21 | 77.63 | 0.00 | 336.09 | Well not sampled this quarter. | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 76.96 | 0.00 | 336.76 | 186 | -- | -- | **327** | 0.25J | 8.8 | 0.36J | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/29/22 | 75.85 | 0.00 | 337.87 | **1,470** | -- | -- | **598** | 1.2J | 21.1 | 8.8J | -- | <2.6 | 2.7J | <1.2 | -- | -- | -- | -- | -- | -- | -- |
| **GW-14V** | 06/30/22 | 128.63 | 0.00 | 285.03 | <31.6 | -- | -- | <0.10 | 0.12J | <0.11 | <0.20 | -- | <2.6 | <2.6 | <0.23 | -- | -- | -- | -- | -- | -- | -- |
| 413.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **GW-15S** | 12/11/18 | 39.30 | 0.00 | 374.76 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| 414.06 | 03/30/19 | 32.69 | 0.00 | 381.37 | 398 | -- | -- | 1.0J | 0.23J | 10.8 | 26.6 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/25/19 | 34.67 | 0.00 | 379.39 | **2,670** | -- | -- | **7.4** | 6.9 | 52.5 | 281 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/12/19 | 38.63 | 0.00 | 375.43 | **987** | -- | -- | 0.50 J | 0.81 J | 9.8 | 30.4 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/11/19 | 40.42 | 0.00 | 374.88 | 470 | -- | -- | 0.65J | 1.1 | 12.0 | 17.6 | -- | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/12/20 | 32.49 | 0.00 | 381.57 | 547 | -- | -- | 2.0 | 1.4 | 4.2 | 28.2 | -- | 2.3J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | 33.00 | 0.00 | 381.06 | 392 | -- | -- | 2.5 | 2.7 | 17.7 | 30.4 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/09/21 | 27.14 | 0.00 | 386.92 | <42.8 | -- | -- | 0.141J | <0.278 | <0.137 | <0.174 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/14/21 | 33.43 | 0.00 | 380.63 | **1,390** | -- | -- | 2.47 | 5.96 | 37.1 | 124 | -- | 2.7J | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/07/21 | 38.16 | 0.00 | 375.90 | **1,940** | -- | -- | <1.00 | <1.00 | 25.7 | 30.6 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/16/21 | 38.47 | 0.00 | 375.59 | **2,220** | -- | -- | 1.4 | 2.1 | 14.4 | 41.4 | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/30/22 | 28.34 | 0.00 | 385.72 | <22.2 | -- | -- | <0.10 | <0.10 | <0.11 | 0.41J | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/28/22 | 29.11 | 0.00 | 384.95 | <31.6 | -- | -- | 0.10J | <0.10 | 0.11J | <0.20 | -- | <2.6 | <2.6 | <0.23 | -- | -- | -- | -- | -- | -- | -- |
| **GW-15D** | 12/13/18 | 56.00 | 0.00 | 358.01 | <19.6 | -- | -- | 1.0 | 0.66 J | 0.27 J | <0.31 | -- | 8.1 J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 414.01 | 03/26/19 | 52.60 | 0.00 | 361.41 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/25/19 | 52.40 | 0.00 | 361.61 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/12/19 | 54.60 | 0.00 | 359.41 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/11/19 | 57.35 | 0.00 | 357.95 | 61.8J | -- | -- | <0.10 | 0.16J | 0.28J | <0.31 | -- | 2.4J | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/12/20 | 53.98 | 0.00 | 360.08 | <38.3 | -- | -- | <0.12 | <0.12 | <0.075 | <0.29 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | 49.70 | 0.00 | 364.31 | <42.8 | -- | -- | <0.0941 | <0.278 | <0.137 | <0.174 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/14/21 | 51.03 | 0.00 | 362.98 | <31.6 | -- | -- | <0.0941 | <0.278 | 0.206J | 0.621J | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/07/21 | 54.38 | 0.00 | 359.63 | 163 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/16/21 | 55.42 | 0.00 | 358.59 | <42.8 | -- | -- | <0.10 | <0.10 | 0.24J | 0.26J | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/30/22 | 49.06 | 0.00 | 364.95 | <22.2 | -- | -- | <0.10 | <0.10 | <0.11 | 0.33J | -- | <2.6 | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/28/22 | 49.14 | 0.00 | 364.87 | <31.6 | -- | -- | <0.10 | <0.10 | <0.11 | <0.20 | -- | <2.6 | <2.6 | <0.23 | -- | -- | -- | -- | -- | -- | -- |

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**SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA**
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Method A Cleanup Levels | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-16S** | 12/11/18 | 48.50 | 0.00 | 366.94 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| 415.44 | 03/30/19 | 42.69 | 0.00 | 372.75 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/27/19 | 43.56 | 0.00 | 371.88 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 45.99 | 0.00 | 369.45 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 12/16/21 | 49.65 | 0.00 | 365.79 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 36.60 | 0.00 | 378.84 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | 38.21 | 0.00 | 377.23 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-16D** | 12/13/18 | 76.55 | 0.00 | 338.69 | <19.6 | -- | -- | 0.59 J | 0.44 J | 0.17 J | <0.31 | -- | 6.7 J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 415.24 | 03/27/19 | 77.64 | 0.00 | 337.60 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/27/19 | 77.78 | 0.00 | 337.46 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 78.47 | 0.00 | 336.77 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 12/16/21 | 79.06 | 0.00 | 336.18 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 78.52 | 0.00 | 336.72 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | 77.37 | 0.00 | 337.87 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-17S** | 12/11/18 | 49.30 | 0.00 | 365.54 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| 414.84 | 03/30/19 | 48.00 | 0.00 | 366.84 | <19.6 | -- | -- | 0.29 J | 0.094 J | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/27/19 | 47.00 | 0.00 | 367.84 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 48.61 | 0.00 | 366.23 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 12/16/21 | 49.24 | 0.00 | 365.60 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 43.94 | 0.00 | 370.90 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | 44.58 | 0.00 | 370.26 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-17D** | 02/27/00 | 76.08 | 0.00 | 338.99 | <19.6 | -- | -- | 0.50 J | 0.38 J | <0.14 | <0.31 | -- | 2.8 J | 2.0 J | -- | -- | -- | -- | -- | -- | -- | -- |
| 415.07 | 03/30/19 | 77.15 | 0.00 | 337.92 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | | 2.9J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/27/19 | 77.35 | 0.00 | 337.72 | <38.3 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | | 2.8J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/09/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 07/14/21 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 77.98 | 0.00 | 337.09 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 12/16/21 | 78.52 | 0.00 | 336.55 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 78.06 | 0.00 | 337.01 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| | 06/27/22 | 76.96 | 0.00 | 338.11 | Well not sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-18S** | 12/11/18 | 48.38 | 0.00 | 365.93 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| 414.31 | 03/30/19 | Dry | 0.00 | -- | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 06/25/19 | 48.18 | 0.00 | 366.13 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 09/12/19 | 48.50 | 0.00 | 365.81 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 12/12/19 | 48.30 | 0.00 | 366.01 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 03/11/20 | 48.49 | 0.00 | 365.82 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 07/31/20 | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | | | | |
| | 03/09/21 | 48.60 | 0.00 | 365.71 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 07/14/21 | 48.34 | 0.00 | 365.97 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 10/07/21 | 48.93 | 0.00 | 365.38 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |

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12660 First Avenue South
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| Well ID TOC Elevation | Sample Date | DTW (feet) | LPH (feet) | GW Elev. (feet) | TPH-G (µg/L) | TPH-D (µg/L) | TPH-O (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | Chloroform (µg/L) | 1,2 DCA (µg/L) | EDB (µg/L) | 1,1 DCE (µg/L) | 1,2 DCE (µg/L) | 1,2 DCP (µg/L) | PCE (µg/L) | TCE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Levels** | | | | | 1,000/800[a] | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 15 | 15 | 1.4 | 5 | 0.01 | NA | 5 | NA | 5 | 5 |
| **GW-18S** | 12/16/21 | 49.15 | 0.00 | 365.16 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| 414.31 | 03/31/22 | 48.48 | 0.00 | 365.83 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| (cont.) | 06/27/22 | NM | 0.00 | -- | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | |
| **GW-18D** | 12/11/18 | 75.45 | 0.00 | 338.73 | <19.6 | -- | -- | <0.10 | 0.093 J | <0.14 | <0.31 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 414.18 | 03/27/19 | 76.50 | 0.00 | 337.68 | **1,270** | -- | -- | **558** | 3.8 | 45.0 | 109 | -- | 4.9J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/28/19 | 76.60 | 0.00 | 337.58 | 241 | -- | -- | **62.3** | 1.2J | 7.3 | <1.5 | -- | <2.0 | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/12/19 | 77.28 | 0.00 | 336.90 | <38.3 | -- | -- | 1.8 | <0.083 | <0.14 | <0.31 | -- | 5.4J | <2.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/12/19 | 77.70 | 0.00 | 337.60 | <38.3 | -- | -- | 0.32J | <0.083 | <0.14 | <0.31 | -- | 3.4J | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/11/20 | 78.27 | 0.00 | 335.91 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 07/31/20 | 77.60 | 0.00 | 336.58 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 03/09/21 | 78.05 | 0.00 | 336.13 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 07/14/21 | 77.04 | 0.00 | 337.14 | <36.1 | -- | -- | 4.54 | <0.278 | 0.589J | 0.321J | -- | 2.7J | <2.6 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/07/21 | 77.39 | 0.00 | 336.79 | 159 | -- | -- | <1.00 | <1.00 | <1.00 | <3.00 | -- | <10.0 | <10.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/17/21 | 78.11 | 0.00 | 336.07 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 03/31/22 | 77.38 | 0.00 | 336.80 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| | 06/27/22 | NM | 0.00 | -- | Well not monitored or sampled this quarter | | | | | | | | | | | | | | | | | |
| **GWR-18S** | 06/27/22 | 52.65 | 0.00 | 360.44 | Insufficient Water to Sample | | | | | | | | | | | | | | | | | |
| 413.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **GWR-18D** | 06/28/22 | 75.20 | 0.00 | 338.02 | **2,640** | -- | -- | **28.1** | 0.92J | 31.6 | 43.3 | -- | 5.0J | 4.7J | 0.52J | -- | -- | -- | -- | -- | -- | -- |
| 413.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

EXPLANATION:
Total Pb = Total lead by EPA Method 6020; Diss Pb = Dissolved lead by EPA Method 6020.
TPH-G = Total Petroleum Hydrocarbons as gasoline by Ecology Method NWTPH-Gx
TPH-D = Total Petroleum Hydrocarbons as diesel and oil by Ecology Method NWTPH-Dx
Prior to 5/18/11, BTEX and MTBE Analyzed by EPA Method 8021B. After 5/18/11, analyzed by EPA Method 5030B/8260.
[a] Concentration levels stated by MTCA Method A for TPH-G are 1,000 µg/L when no benzene is present and 800 µg/L when benzene is present.
DTW = Depth to water in feet below top of casing
All concentrations are in µg/L (ppb).
Data collected before May 18, 2011 was obtained from prior consultants.
Groundwater elevations were corrected for LPH using a specific gravity of 0.75, as necessary.
GW Elev. = Groundwater elevation in feet relative to top of casing elevations
LPH = Liquid-phase hydrocarbon thickness in feet
< = Less than the stated laboratory reporting limit
J = Estimated concentration above the adjusted method deltection limit and below the adjusted reporting limit.
Prior to December 20, 2011, 1,2-DCA = 1,2-Dichloroethane; PCE = Tetrachloroethene; TCE = Trichloroethene; 1,1-DCE = 1,1 Dichloroethene; 1,2-DCE = 1,2 Dichloroethene; 1,2-DCP = 1,2 Dichloropropane analyzed by EPA Method 8260.
Prior to December 20, 2011, EDB (1,2-Dibromoethane) analyzed by EPA Method 8011.
After December 20, 2011, 1,2-Dichloroethane (1,2-DCA); Tetrachloroethene (PCE); Trichloroethene (TCE); 1,1 Dichloroethene (1,1-DCE); 1,2 Dichloroethene (1,2-DCE); 1,2 Dichloropropane (1,2-DCP) and 1,2-Dibromoethane (EDB) analyzed by EPA Method 8260.
NA = Not Analyzed or Sampled
NE = Not established
NM = Not Measured
NP = Not Purged
Wellhead elevations were taken from prior consultant's reports for dates prior to 2018.
[1] = For wells GW-7D through GW-12D: Well designations changed from GW-7 through GW-12 respectively to reflect that the wells are designated as deep water bearing zone wells.
[b] Approximated due to wellhead modification
[C] Samples collected from stub-ups inside remediation compound
[d] Well contained insufficient water to sample, labeled dry when unable to pull any water from well.
* DTW measurements collected 1 day prior to sampling
** Analytical results are anomalous compared to historical data. Atlas suspects that sample ID's "GW-5" and "GW-6" may have been switched.
1n = Sample was evaluated to the MDL.; 2n = Diluted analysis conducted in excess of EPA method holding time; 4n = Sample was reanalyzed 3 days outside of holding time due to carryover.
M1 = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
Z2 = Analyte present in the associated method blank above the detection limit.
Prior to second quarter 2008, monitoring wells surveyed to relative elevations. Wells were surveyed relative to sea level during the second quarter of 2008.

**TABLE 3**
**HISTORICAL WELL CONSTRUCTION INFORMATION**
Former Phillips 66 Facility 2701476 (AOC #2063)
12660 First Avenue, South
Seattle, Washington

| Well ID | Date Well Installed | TOC Elev. (feet) | Borehole Diameter (inches) | Total Depth of Boring (ft bgs) | Well Depth (ft bgs) | Well Casing Diameter (inches) | Well Casing Material | Screened Interval (ft bgs) | Slot Size (inches) | Filter Pack Interval (ft bgs) | Filter Pack Material |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-1* | 05/05/92 | 414.74 | NR | 50 | 50 | 4 | PVC | 15-50 | 0.010 | 13-50 | Sand |
| GW-2* | 05/04/92 | 413.94 | 12 | 50 | 49 | 4 | PVC | 15-50 | 0.020 | 10-50 | Sand |
| GW-3* | 04/19/94 | 417.74 | NR | 92 | 92 | 4 | PVC | 62-92 | 0.010 | 60-92 | No. 2/12 Sand |
| GW-4* | 04/19/94 | 416.79 | NR | 80 | 80 | 2 | PVC | 15-80 | 0.020 | 15-80 | No. 10/20 Sand |
| GW-5* | 04/20/94 | 413.40 | NR | 90 | 90 | 2 | PVC | 15-90 | 0.010 | 13-90 | No. 10/20 Sand |
| GW-6* | 04/20/94 | 413.26 | NR | 70 | 70 | 2 | PVC | 15-70 | 0.020 | 13-70 | No. 8/12 Sand |
| GW-7D | 10/26/94 | 412.23 | NR | 88 | 88 | 2 | PVC | 68-88 | 0.010 | 66-88 | No. 10/20 Sand |
| GW-8S | 10/30/18 | 413.77 | 8 | 40 | 40 | 2 | PVC | 20-40 | 0.020 | 18-40 | No. 2/12 Sand |
| GW-8D | 10/27/94 | 413.78 | NR | 95 | 95 | 2 | PVC | 75-95 | 0.010 | 73-95 | No. 2/12 Sand |
| GW-9D | 10/25/94 | 414.53 | NR | 95 | 95 | 2 | PVC | 75-95 | 0.010 | 73-95 | No. 2/12 Sand |
| GW-10S | 10/29/18 | 415.46 | 8 | 40 | 40 | 2 | PVC | 19-39 | 0.020 | 17-40 | No. 2/12 Sand |
| GW-10D | 10/27/94 | 415.30 | NR | 95 | 95 | 2 | PVC | 75-95 | 0.010 | 73-95 | No. 2/12 Sand |
| GW-11D | 10/26/94 | 414.58 | NR | 90 | 90 | 2 | PVC | 70-90 | 0.010 | 68-90 | No. 2/12 Sand |
| GW-12D | 04/18/95 | 406.56 | NR | 95 | 95 | 2 | PVC | 68-95 | 0.000 | 65-95 | No. 2/12 Sand |
| GW-13S | 10/11/18 | 413.13 | 8 | 50 | 50 | 2 | PVC | 30-50 | 0.020 | 28-50 | No. 2/12 Sand |
| GW-13D | 10/12/18 | 412.94 | 8 | 85 | 85 | 2 | PVC | 65-85 | 0.020 | 63-85 | No. 2/12 Sand |
| GW-14S | 10/17/18 | 413.78 | 8 | 55 | 51 | 2 | PVC | 30-50 | 0.020 | 28-51 | No. 2/12 Sand |
| GW-14D | 10/18/18 | 413.72 | 8 | 80 | 80 | 2 | PVC | 59.25-79.25 | 0.020 | 58-80 | No. 2/12 Sand |
| GW-14V | 05/18/22 | 413.66 | 9/8/6 | 150 | 150 | 2 | PCV | 130-150 | 0.010 | 128-150 | No. 2/12 Sand |
| GW-15S | 10/18/02 | 414.06 | 8 | 50 | 45 | 2 | PVC | 25-45 | 0.020 | 23-46 | No. 2/12 Sand |
| GW-15D | 10/16/18 | 414.01 | 8 | 75 | 75 | 2 | PVC | 55-75 | 0.020 | 53-75 | No. 2/12 Sand |
| GW-16S | 10/31/18 | 415.44 | 8 | 50 | 50 | 2 | PVC | 30-50 | 0.020 | 28-50 | No. 2/12 Sand |
| GW-16D | 10/26/18 | 415.24 | 8 | 85 | 85 | 2 | PVC | 65-85 | 0.020 | 63-85 | No. 2/12 Sand |
| GW-17S | 10/23/18 | 414.84 | 8 | 50 | 50 | 2 | PVC | 30-50 | 0.020 | 28-50 | No. 2/12 Sand |
| GW-17D | 10/25/18 | 415.07 | 8 | 85 | 85 | 2 | PVC | 65-85 | 0.020 | 63-85 | No. 2/12 Sand |
| GW-18S | 10/19/18 | 414.31 | 8 | 50 | 50 | 2 | PVC | 30-50 | 0.020 | 28-50 | No. 2/12 Sand |
| GW-18D | 10/22/18 | 414.18 | 8 | 80 | 80 | 2 | PVC | 60-80 | 0.020 | 58-80 | No. 2/12 Sand |
| GWR-18S | 05/03/22 | 413.09 | 4/6 | 70 | 55 | 2 | PVC | 30-55 | 0.010 | 28-56 | No. 2/12 Sand |
| GWR-18D | 05/09/22 | 413.22 | 8/6 | 90 | 90 | 2 | PVC | 65-90 | 0.010 | 63-90 | No. 2/12 Sand |

EXPLANATION:
TOC Elev. = Top of well casing elevation
ft bgs = Feet below ground surface
NE = Not established
PVC = Polyvinyl chloride
NR = Not reported
* = Well abandoned in October, 2018
Note: Wells GW-7D through GW-12D were formerly named GW-7 through GW-12 respectively.
Note: Deep well borings GW-13D through GW-18D were double-cased within approximately the upper 50 feet, and the outer diameter of the double cased section was approximately 14 inches.

# APPENDIX I
# SOIL BORING AND WELL CONSTRUCTION LOGS

# LOG OF GW-14V

SHEET 1 OF 1

Project: Burien Well Installation | Location: 12660 First Avenue South, Burien, WA

Client: Phillips 66 | Drill Method: Sonic | Elevation (ft amsl): --

Prj. No.: Z076000087 | Drilling Started: 5/3/22 | Ended: 5/18/22 | Total Depth (ft): 150

Logged By: B. Goulet | Drill Contractor: Cascade | Depth To Water (ft): AD 128.7

| DEPTH (feet) | SAMPLE NO. | BLOWS/6" | PID (ppm) | USCS | LITHOLOGY | DESCRIPTION | COMPLETION DETAILS | DEPTH FEET |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | Surface: ~0.25' Asphalt | 8-inch flush mount monument | 0 |
| | | | | | | No recovery. | 2-inch locking cap | |
| | | | | | | | Concrete surface seal | |
| 10 | | | | | | | | 10 |
| 20 | | | | | | | Hydrated bentonite chips | 20 |
| 30 | | | | | | | 2-inch Sch 40 blank PVC | 30 |
| 40 | | | | | | | | 40 |
| | NR | | | | | | | |
| 50 | | | | | | | | 50 |
| 60 | | | | | | | | 60 |
| 70 | | | | | | | | 70 |
| 80 | | | | | | | | 80 |
| 90 | | | | | | | | 90 |
| | CT | | 0.5 | SP | | FINE-MEDIUM SAND: Gray-brown, wet, no petroleum odor. | | |
| | CT | | 0.8 | | | Decreasing silt content with depth. | | |
| 100 | CT | | 0.3 | SM | | SILTY SAND: Gray, moist, no petroleum odor. | | 100 |
| | CT | | 0.5 | ML | | SILT: Gray, slightly damp, strong induration, no petroleum odor. | | |
| 110 | CT | | 1.9 | SW | | FINE-COARSE SAND with trace gravel: Brown, dry, no petroleum odor. | | 110 |
| | CT | | 1.5 | SM | | SILTY SAND: Gray, damp, no petroleum odor. | | |
| 120 | CT | | 1.2 | SW | | 117.5' bgs: Color changes to gray-brown, decreasing silt content. | | 120 |
| | CT | | | SM | | FINE-COARSE SAND with trace gravel: Brown, dry, no petroleum odor. | 2/12 silica sand | |
| 130 | CT | | | SP | | 125' bgs: Becoming moist. | | 130 |
| | CT | | | | | SILTY SAND: Gray-brown, moist, no petroleum odor. | | |
| 140 | CT | | | | | FINE-MEDIUM SAND: Gray-brown, moist, no petroleum odor. | 2-inch Sch 40 slotted PVC | 140 |
| | CT | | | | | 132' bgs: 5% gravel present with depth. | | |
| | CT | | | | | 135' bgs: Becoming wet. | | |
| 150 | | | | | | 140' bgs: Decreasing gravel content with depth. | 2-inch Sch 40 end cap | 150 |
| | | | | | | 145' bgs: No gravel present with depth. | | |
| | | | | | | Bottom of hole at 150 feet | | |

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Remarks:

See key sheet for symbols and abbreviations used above.

LOG A EWNN76 BURIEN - MAY WELL INTALL.GPJ LOG A EWNN05.GDT 8/26/22

# LOG OF GWR-18D

SHEET 1 OF 2

Project: Burien Well Installation | Location: 12660 First Avenue South, Burien, WA

Client: Phillips 66 | Drill Method: Sonic | Elevation (ft amsl): --

Prj. No.: Z076000087 | Drilling Started: 5/3/22 | Ended: 5/9/22 | Total Depth (ft): 90

Logged By: B. Goulet | Drill Contractor: Cascade | Depth To Water (ft): AD 75.67

| DEPTH (feet) | SAMPLE NO. | BLOWS/6" | PID (ppm) | USCS | LITHOLOGY | DESCRIPTION | COMPLETION DETAILS | DEPTH FEET |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Surface: ~0.25' Asphalt<br>No recovery. | 8-inch flush mount monument<br>2-inch locking cap<br>Concrete surface seal | |
| 10 | | | | | | | | 10 |
| 20 | | | | | | | Hydrated bentonite chips | 20 |
| 30 | NR | | | | | | 2-inch Sch 40 blank PVC | 30 |
| 40 | | | | | | | | 40 |
| 50 | | | | | | | | 50 |
| 60 | | | | | | | | 60 |
| 70 | CT | | 4.5 | SW | | Driller noted silt layer at 68' bgs.<br>FINE-MEDIUM SAND: Gray-brown, damp, no petroleum odor. | 2/12 silica sand | 70 |
| | CT | | 1.7 | | | | 2-inch Sch 40 slotted PVC | |
| 80 | CT | | 0.3 | SP | | FINE-MEDIUM SAND with trace gravel: Gray-brown, wet, no petroleum odor.<br>Coarsening sand component with depth. | | 80 |
| | CT | | 0.3 | | | | | |
| 90 | | | | | | Bottom of hole at 90 feet (continued) | 2-inch Sch 40 end | 90 |

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LOG A EWNN76 BURIEN - MAY WELL INTALL.GPJ LOG A EWNN05.GDT 8/26/22

# LOG OF GWR-18D

SHEET 2 OF 2

Project Burien Well Installation | Location 12660 First Avenue South, Burien, WA

Client Phillips 66 | Drill Method Sonic | Elevation (ft amsl) --

Prj. No. Z076000087 | Drilling Started 5/3/22 | Ended 5/9/22 | Total Depth (ft) 90

Logged By B. Goulet | Drill Contractor Cascade | Depth To Water (ft) ▼ AD 75.67

| DEPTH (feet) | SAMPLE NO. | BLOWS/6" | PID (ppm) | USCS | LITHOLOGY | DESCRIPTION | COMPLETION DETAILS | DEPTH FEET |
|---|---|---|---|---|---|---|---|---|
| 100 | | | | | | | cap | 100 |
| 110 | | | | | | | | 110 |
| 120 | | | | | | | | 120 |
| 130 | | | | | | | | 130 |
| 140 | | | | | | | | 140 |
| 150 | | | | | | | | 150 |
| 160 | | | | | | | | 160 |
| 170 | | | | | | | | 170 |
| 180 | | | | | | | | 180 |

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See key sheet for symbols and abbreviations used above.

# LOG OF GWR-18S

SHEET 1 OF 1

Project: Burien Well Installation | Location: 12660 First Avenue South, Burien, WA

Client: Phillips 66 | Drill Method: Sonic | Elevation (ft amsl): --

Prj. No.: Z076000087 | Drilling Started: 5/3/22 | Ended: 5/3/22 | Total Depth (ft): 70

Logged By: B. Goulet | Drill Contractor: Cascade | Depth To Water (ft): AD 52.92

| DEPTH (feet) | SAMPLE NO. | BLOWS/6" | PID (ppm) | USCS | LITHOLOGY | DESCRIPTION | COMPLETION DETAILS | DEPTH FEET |
|---|---|---|---|---|---|---|---|---|
| | NR | | | | | Surface: ~0.25' Asphalt<br>No recovery. | 8-inch flush mount monument<br>2-inch locking cap<br>Concrete surface seal | |
| | CT | | 0.6 | SM | | SILTY SAND with trace gravel: Medium brown, damp, strong induration, no petroleum odor.<br>Color changes to gray-brown. | | |
| 10 | CT | | 2.0 | | | | Hydrated bentonite chips | 10 |
| | CT | | 4.0 | | | Color changes to gray with depth, increasing fine-medium sand content with depth. | | |
| 20 | CT | | 1.4 | | | | 2-inch Sch 40 blank PVC | 20 |
| | CT | | 52.4 | | | Color changes to blue-gray with depth, increasing gravel content with depth, faint petroluem odor. | | |
| 30 | CT<br>GWR18S-30' | | 87.2 | | | Coarsening gravel component with depth. | 2/12 silica sand | 30 |
| | CT | | 168.2 | | | | | |
| | NR | | | | | No recovery. | | |
| | CT | | 9.9 | | | Faint petroleum odor. | | |
| 40 | CT<br>GWR18S-40' | | 371.4 | | | Moderate petroleum odor. | 2-inch Sch 40 slotted PVC | 40 |
| | CT | | 50.2 | | | | | |
| | CT<br>GWR18S-45' | | 50.5 | | | Decreasing gravel content, faint petroleum odor. | | |
| | CT | | 7.2 | | | | | |
| 50 | CT | | 12.5 | | | Moderate petroleum odor. | | 50 |
| | CT | | 9.8 | | | Increasing coarse sand component. | 2-inch Sch 40 end cap | |
| 60 | CT | | 387.2 | | | FINE-MEDIUM SAND with trace gravel: Gray, moist, strong induration, strong petroleum odor.<br>Primarily medium sand component present, becoming wet.<br>Coarsening gravel component. | Hydrated bentonite chips | 60 |
| 70 | CT | | 14.7 | | | | | 70 |
| | | | | | | Bottom of hole at 70 feet | | |

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LOG A EWNN76 BURIEN - MAY WELL INTALL.GPJ LOG A EWNN05.GDT 8/26/22

# LOG OF SB-6

SHEET 1 OF 1

Project: Burien Well Installation | Location: 12660 First Avenue South, Burien, WA

Client: Phillips 66 | Drill Method: Sonic | Elevation (ft amsl): --

Prj. No.: Z076000087 | Drilling Started: 5/2/22 | Ended: 5/3/22 | Total Depth (ft): 15

Logged By: B. Goulet | Drill Contractor: Cascade | Depth To Water (ft):

| DEPTH (feet) | SAMPLE NO. | BLOWS/6" | PID (ppm) | USCS | LITHOLOGY | DESCRIPTION | DEPTH FEET |
|---|---|---|---|---|---|---|---|
| | | | | | | Surface: ~0.25' Asphalt | |
| | | | | | | No recovery. | |
| 2 | NR | | | | | | 2 |
| | | | | | | SILTY SAND with trace gravel: Medium brown, damp, strong induration, no petroleum odor. | |
| 4 | | | | SM | | | 4 |
| | | | | | | Color change to gray-brown. | |
| 6 | CT | | 0.3 | | | | 6 |
| 8 | | | | | | | 8 |
| 10 | CT SB6-9' | | 0.2 | | | | 10 |
| 12 | CT | | 0.4 | | | | 12 |
| 14 | | | | | | | 14 |
| | | | | | | Bottom of hole at 15 feet | |


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See key sheet for symbols and abbreviations used above.

# LOG OF SB-7

SHEET 1 OF 1

Project Burien Well Installation | Location 12660 First Avenue South, Burien, WA

Client Phillips 66 | Drill Method Sonic | Elevation (ft amsl) --

Prj. No. Z076000087 | Drilling Started 5/2/22 | Ended 5/3/22 | Total Depth (ft) 15

Logged By B. Goulet | Drill Contractor Cascade | Depth To Water (ft)

| DEPTH (feet) | SAMPLE NO. | BLOWS/6" | PID (ppm) | USCS | LITHOLOGY | DESCRIPTION | DEPTH FEET |
|---|---|---|---|---|---|---|---|
| | | | | | | Surface: ~0.25' Asphalt | |
| | | | | | | No recovery. | |
| 2 | NR | | | | | | 2 |
| 4 | | | | | | | 4 |
| | | | | SM | | SILTY SAND with trace gravel: Medium brown, damp, strong induration, no petroleum odor. | |
| 6 | | | | | | Color changes to gray-brown. | 6 |
| | CT | | 0.4 | | | | |
| 8 | | | | | | | 8 |
| | CT SB7-9' | | 1.0 | | | | |
| 10 | | | | | | | 10 |
| | CT | | 0.8 | | | | |
| 12 | | | | | | | 12 |
| | | | | | | | |
| 14 | CT SB7-14' | | 1.6 | | | | 14 |
| | CT | | 2.6 | | | | |
| | | | | | | Bottom of hole at 15 feet | |

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Remarks:

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See key sheet for symbols and abbreviations used above.

LOG A EWNN76 BURIEN - MAY WELL INTALL.GPJ LOG A EWNN05.GDT 8/26/22

# APPENDIX II
# CASCADE WELL INSTALLATION DOCUMENTATION

# CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS: 22722 29th Drive SE, STE 228
CITY, STATE, ZIP : BOTHELL, WA 98021
PHONE NUMBER: 425.485.8908

Client: Atlas | Day: Friday | Date: 5-6-22

Location: Burien, Wa | Job #: 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Per-trip, Drive to Shop. | 600 | 630 | 0.5 |
| | | Per-trip, on Big Rig. Drive to Job site. | 630 | 800 | 1.5 |
| | | Safty meeting. Rig warm up. | 800 | 830 | 0.5 |
| | | Cased to 60ft Cleaned Out. ~~Bit~~ chiped pulled | 830 | 1030 | 2 |
| | | Back Casing to 55ft | ~~1030~~ | | |
| | | Loaded Rig, tooling. site clean up. | 1030 | 1230 | 2 |
| | | Drive to tacome Shop. | 1230 | 200 | 1.5 |
| | | Per-trip on Vac-truck Drive Back to Portland | 300 | 700 | 5 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | PM Shop Time | | | |
| Total Ft. | | TOTAL HOURS | | | 13 |

## EQUIPMENT

| | |
|---|---|
| DRILL RIG # | 1051196 |
| SUPPORT TRUCK # | |
| SUPPORT TRUCK # | |
| Bobcat / Forklift # | |

## CASING

| TYPE | SLOT | 2"/ 4" |
|---|---|---|
| | | |
| 5' BLANK | | |
| 10' Blank | | |
| 5' SCREEN | | |
| 10' SCREEN | | |
| SLIP CAP | | |
| THREADED | | |
| | | |

## MATERIALS

| ITEM | QTY | ITEM | QTY |
|---|---|---|---|
| ASPHALT | | WELL COVER 8" | |
| PORTLAND | | WELL COVER 12" | |
| BENTONITE CHIPS | 3 | BOLLARDS | |
| BENTONITE GROUT | | SOIL DRUMS | |
| SAND | | CORE BOXES | |
| SAMPLER TUBES | | DEVELOPMENT | |
| SHELBY TUBES | | SOIL SAMPLES | |
| | | WATER SAMPLES | |

## WELL LOG INFO

| | | | |
|---|---|---|---|
| Client # | | | |
| Well Tag # | | | |
| Start Card # | | | |
| Monument: Flush/ Above | | | |
| Diameter of Hole | | | |
| Depth of Hole | | | |
| Seal Depth: From - To | | | |
| Filter Pack: From - To | | | |
| Sand Size | | | |
| Seal Below Filter Pack | | | |
| Casing: From - To | | | |
| Screen: From- To | | | |
| Static Water Level | | | |
| Date - Started | | | |
| Date - Completed | | | |
| Soil Formation: | | | |
| Comments: | | | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Charles.W | 2 | 4.5 | 6.5 | 13 | 50 |
| Quinton.H | 2 | 4.5 | 6.5 | 13 | 50 |
| Torggart | 2 | 4.5 | 1.5 | 8 | |
| | | | | | |
| | | | | | |

UTILITIES FOUND OR HIT

CLIENT SIGNATURE:

OPERATOR SIGNATURE:

# CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS: 22722 29th Drive SE, STE 228
CITY, STATE, ZIP: BOTHELL, WA 98021
PHONE NUMBER: 425.485.8908

Client: Atles | Day: Mon | Date: 9 May 22

Location: Burien 76 | Job #: 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Shop load | 600 | 700 | |
| | | Travel to site | 700 | 800 | |
| | | Saftey - wait for vehical to be moved so we can off load | 800 | 900 | |
| | | off load | 900 | 1000 | |
| 18D | 35 | Drill 6" from 55 to 90 (8" was set @ 55) | 1000 | 400 | |
| | | lunch | 1230 | 100 | -.5 |
| | | Clean-up / secure site | 400 | 430 | |
| | | Travel to Tacoma yard | 430 | 600 | |
| | | load for 200' hole | 600 | 700 | |
| | | paper work | 700 | 730 | |
| | | | | | |
| | | | | | |
| | | Josh was out at 6 pm | | | |
| | | Taggard was in at 7 am | | | |
| | | | | | |
| | | | | | |
| | | PM Shop Time | | | |
| Total | 35 | TOTAL HOURS | | | 13 |

## EQUIPMENT

| | |
|---|---|
| DRILL RIG # | 10-11817 - 34-65020 |
| SUPPORT TRUCK # | 22-46435 |
| SUPPORT TRUCK # | 23-55830 |
| Bobcat / Forklift # | 42-12014 - 34-02318 |

## CASING

| TYPE | SLOT | 2" 4" |
|---|---|---|
| | | |
| BLANK | | |
| Blank | | |
| SCREEN | | |
| SCREEN | | |
| TIP CAP | | |
| THREADED | | |

## MATERIALS

| ITEM | QTY | ITEM | QTY |
|---|---|---|---|
| ASPHALT | | WELL COVER 8" | |
| PORTLAND | | WELL COVER 12" | |
| BENTONITE CHIPS | | BOLLARDS | |
| BENTONITE GROUT | | SOIL DRUMS | |
| SAND | | CORE BOXES | |
| SAMPLER TUBES | | DEVELOPMENT | |
| SHELBY TUBES | | SOIL SAMPLES | |
| | | WATER SAMPLES | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Joe Stalock | 2 | 8 | 3 | 13 | 950 |
| Taggart Knutsen | 1 | 8 | 2½ | 11½ | |
| Josh Doty | 2 | 8 | 1½ | 11½ | |
| | | | | | |
| | | | | | |

## WELL LOG INFO

| | | | |
|---|---|---|---|
| Client # | GWR-18D | | |
| Well Tag # | | | |
| Start Card # | | | |
| Monument: Flush/ Above | | | |
| Diameter of Hole | 6 + 8 | | |
| Depth of Hole | 90 | | |
| Seal Depth From - To | | | |
| Filter Pack. From - To | | | |
| Sand Size | | | |
| Seal Below Filter Pack | | | |
| Casing From - To | | | |
| Screen From- To | | | |
| Static Water Level | 80' | | |
| Date - Started | (?) 5-9 | | |
| Date - Completed | | | |
| Soil Formation 60 | Gray silty Sand and Gravel | | |
| 68 | brown stiff silt | | |
| 70 | Gray fine sand some Gravel | | |
| 90 | TD | | |
| Comments | | | |
| | | UTILITIES FOUND OR HIT | |

CLIENT SIGNATURE

OPERATOR SIGNATURE

# CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS 22722 29th Drive SE, STE 228
CITY, STATE, ZIP BOTHELL, WA 98021
PHONE NUMBER 425 485 8908

Client ATLES | Day Tue | Date 10 May 22

Location Burien 76 | Job # 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Shop - Pre Trip - load | 600 | 700 | |
| | | Travel to Site | 700 | 800 | |
| | | Saftey Meeting - | 800 | 830 | |
| | | Clean out 6" casing | 830 | 900 | |
| | | Patch holes vac'ed under Power lines | 900 | 1000 | |
| | | Set well GWR-18D @ 90' - 25' Screen | 1000 | 230 | |
| | | lunch | 1230 | 100 | .5 |
| | | Move off hole - unload Pipe Truck | 230 | 330 | |
| | | Clean up & Secure Site | 330 | 400 | |
| | | Travel to Shop | 400 | 530 | |
| | | Shop - unload - fuel | 530 | 600 | |
| | | PAPERWORK | 600 | 630 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total | | PM Shop Time | | | |
| | | TOTAL HOURS | | | 12 |

## EQUIPMENT

| | |
|---|---|
| DRILL RIG # | 10-11817 - 34-65020 |
| SUPPORT TRUCK # | 22-46435 |
| SUPPORT TRUCK # | 23-55850 |
| Bobcat / Forklift # | 42-12014 - 34-02318 |

## CASING

| TYPE | SLOT | 2" 4" |
|---|---|---|
| PVC | .010 | 2 |
| 5 BLANK | | 1 |
| 10 Blank | | 6 |
| 5 SCREEN | | 1 |
| 10 SCREEN | | 2 |
| TIP CAP | | 1 |
| THREADED | | 1 |

## MATERIALS

| ITEM | QTY | ITEM | QTY |
|---|---|---|---|
| ~~ASPHALT~~ Concrete | 3 | WELL COVER 8" | |
| PORTLAND | | WELL COVER 12" | |
| BENTONITE CHIPS | 30 | BOLLARDS | |
| BENTONITE GROUT | | SOIL DRUMS | |
| SAND | 13 | CORE BOXES | |
| SAMPLER TUBES | | DEVELOPMENT | |
| SHELBY TUBES | | SOIL SAMPLES | |
| | | WATER SAMPLES | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Joe Stalock | 2 | 7½ | 2½ | 12 | $50 |
| Taggart Knutson | 2 | 7½ | 2 | 11½ | |
| | | | | | |
| | | | | | |
| | | | | | |

## WELL LOG INFO

| | |
|---|---|
| Client # | GWR-18D |
| Well Tag # | |
| Start Card # | |
| Monument: Flush/ Above | |
| Diameter of Hole | 6 + 8(55) |
| Depth of Hole | 90 |
| Seal Depth: From - To | 0 - 63 |
| Filter Pack: From - To | 63 - 90 |
| Sand Size | 2X12 |
| Seal Below Filter Pack | |
| Casing: From - To | 0 - 65 |
| Screen: From- To | 65 - 90 |
| Static Water Level | 80 |
| Date - Started | (?) 5-9-22 |
| Date - Completed | 5-10-22 |
| Soil Formation: | |
| Comments | |

UTILITIES FOUND OR HIT

CLIENT SIGNATURE

OPERATOR SIGNATURE

# CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS: 22722 29th Drive SE. STE 228
CITY. STATE. ZIP: BOTHELL. WA 98021
PHONE NUMBER 425 485 8908

Client: ATLES | Day: WED | Date: 11 May 22

Location: Burien 76 Wa | Job #: 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Shop - load water - 9" Pipe - Get fuel | 600 | 700 | |
| | | Travel to Site | 700 | 800 | |
| | | on Site SAfety Meeting | 800 | 830 | |
| GW14 | 51 | Drill GW14V = 9" 0-51 | 830 | 330 | |
| | | spindle bolt on head broke and hose fitting came loose | 330 | – | |
| | | Clean-up + secured site | – | 400 | |
| | | Charles + Taggart traveled to Shop | 400 | 530 | |
| | | I met Keith in castle Rock for new bolts and back to motel | 400 | 830 | |
| | | lunch | 1200 | 1230 | -.5 |
| | | | | | |
| | | Shut down for fuel truck delivery | 1000 | 1030 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total | 51 | PM Shop Time | | | 11 |
| | | TOTAL HOURS | | | 14 |

## EQUIPMENT

| | |
|---|---|
| DRILL RIG # | 10-11817 - 34-65020 |
| SUPPORT TRUCK # | 22-46435 |
| SUPPORT TRUCK # | 23-55830 |
| Bobcat / Forklift # | 42-12014 - 34-02318 |

## CASING

| TYPE | SLOT | 2" 4" |
|---|---|---|
| | | |
| BLANK | | |
| Blank | | |
| SCREEN | | |
| SCREEN | | |
| TIP CAP | | |
| THREADED | | |
| | | |

## MATERIALS

| ITEM | QTY | ITEM | QTY |
|---|---|---|---|
| ASPHALT | | WELL COVER 8" | |
| PORTLAND | | WELL COVER 12" | |
| BENTONITE CHIPS | | BOLLARDS | |
| BENTONITE GROUT | | SOIL DRUMS | |
| SAND | | CORE BOXES | |
| SAMPLER TUBES | | DEVELOPMENT | |
| SHELBY TUBES | | SOIL SAMPLES | |
| | | WATER SAMPLES | |

## WELL LOG INFO

| | | | |
|---|---|---|---|
| Client # | GW14V | | |
| Well Tag # | | | |
| Start Card # | | | |
| Monument: Flush/ Above | | | |
| Diameter of Hole | 9 | | |
| Depth of Hole | | | |
| Seal Depth: From - To | | | |
| Filter Pack: From - To | | | |
| Sand Size | | | |
| Seal Below Filter Pack | | | |
| Casing: From - To | | | |
| Screen: From- To | | | |
| Static Water Level | | | |
| Date - Started | 5-11-22 | | |
| Date - Completed | | | |
| Soil Formation: | 0 Brown/Gray silty sand + Gravel | | |
| Comments: | | | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Joe Staloch | 2 | 7½ | 4½ | 14 | $50- |
| Charles Winkel | 2 | 7½ | 1½ | 11 | $50 |
| Taggart Knutson | 2 | 7½ | 1½ | 11 | |
| | | | | | |
| | | | | | |

UTILITIES FOUND OR HIT

CLIENT SIGNATURE

OPERATOR SIGNATURE

# CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS 22722 29th Drive SE, STE 228
CITY, STATE, ZIP BOTHELL, WA 98021
PHONE NUMBER 425 485 8908

Client ATLES | Day THur | Date 12 May 22

Location Burien 76 Wa | Job # 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Travel to site | 630 | 800 | |
| | | on site safety meeting | 800 | 830 | |
| | | Inside and outside (large & small) spindle head bolts broke | 830 | 1230 | |
| | | lunch | 1230 | 100 | -05 |
| 14V | 10 | GW14V: Drill 9" to 50 to 60 | 100 | 300 | |
| | | Chip and pull casing back to 50 | 300 | 330 | |
| | | clean up & secure site | 330 | 400 | |
| | | went to find a Hydrolic fitting | 400 | - | |
| | | Charles and Taggard went ISO in Tacoma | - | 600 | |
| | | I went ISO in Kent | - | 630 | |
| | | PAPERWORK | 630 | 700 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | PM Shop Time | | | 1 |
| otal | 10 | TOTAL HOURS | | | 12 |

## EQUIPMENT

| | |
|---|---|
| RILL RIG # | 10-11817 - 34-65020 |
| UPPORT TRUCK # | 22-46435 |
| UPPORT TRUCK # | 23-55830 |
| bcat / Forklift # | 42-12014 - 34-02318 |

CASING

| TYPE | SLOT | 2" 4" |
|---|---|---|
| | | |
| BLANK | | |
| Blank | | |
| SCREEN | | |
| SCREEN | | |
| IP CAP | | |
| IREADED | | |
| | | |

MATERIALS

| ITEM | QTY | ITEM | QTY |
|---|---|---|---|
| ASPHALT | | WELL COVER 8" | |
| PORTLAND | | WELL COVER 12" | |
| BENTONITE CHIPS | | BOLLARDS | |
| BENTONITE GROUT | | SOIL DRUMS | |
| SAND | | CORE BOXES | |
| SAMPLER TUBES | | DEVELOPMENT | |
| SHELBY TUBES | | SOIL SAMPLES | |
| | | WATER SAMPLES | |

## WELL LOG INFO

| | | | |
|---|---|---|---|
| Client # | GW14V | | |
| Well Tag # | | | |
| Start Card # | | | |
| Monument: Flush/ Above | | | |
| Diameter of Hole | 9": 60 / Casing at 50' | | |
| Depth of Hole | | | |
| Seal Depth: From - To | | | |
| Filter Pack: From - To | | | |
| Sand Size | | | |
| Seal Below Filter Pack | | | |
| Casing: From - To | | | |
| Screen: From- To | | | |
| Static Water Level | | | |
| Date - Started | 5-11-22 | | |
| Date - Completed | | | |
| Soil Formation | | | |
| Comments | | | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Joe Stalock | 1 1/2 | 7 1/2 | 3 | 12 | $50- |
| Charles Winland | 1 1/2 | 7 1/2 | 2 | 11 | $50- |
| Taggard Knutson | 1 1/2 | 7 1/2 | 2 | 11 | |
| | | | | | |
| | | | | | |

UTILITIES FOUND OR HIT

IENT SIGNATURE

OPERATOR SIGNATURE

# CASCADE

DRILLING I TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS: 22722 29th Drive SE. STE 228
CITY, STATE, ZIP : BOTHELL. WA 98021
PHONE NUMBER: 425.485.8908

Client: ATLES | Day FRI | Date 13 May 22

Location Burien 76 Wa | Job # 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Shop load water | 600 | 630 | |
| | | met crews and Traveled to Site | 630 | 730 | |
| | | Put hose fitting on rig | 730 | 800 | |
| | | Safety Meeting | 800 | 830 | |
| GW18D | | Redue Asphalt patch near dumpsters - Install monument GW18 D | 830 | 900 | |
| GW14V | 30 | Drill GW 14V - Trip 8" casing in To 50' Drill to 80' | 900 | 330 | |
| | | | | | |
| | | lunch | 1200 | 1230 | -.5 |
| | | Shut down for fuel Delivery | 1200 | 100 | |
| | | 2' six inch casing adaptor Broke when starting to run 8" casing | 70 to 80' | | |
| | | | | | |
| | | clean up / Secure Site | 330 | 430 | |
| | | Traveled back to Tacoma | 430 | 600 | 11 |
| | | Traveled back to Clackamas | 430 | 830 | 14 |
| | | | | | |
| | | | | | |
| | | PM Shop Time | | | |
| Total Ft | | TOTAL HOURS | | | |

## EQUIPMENT

| | |
|---|---|
| DRILL RIG # | 10-11817 + 34-65020 |
| SUPPORT TRUCK # | 22-46435 |
| SUPPORT TRUCK # | 23-55830 |
| Bobcat / Forklift # | 42-12014 / 34-02318 |

| CASING TYPE | CASING SLOT | 2"/4" | MATERIALS ITEM | QTY | ITEM | QTY |
|---|---|---|---|---|---|---|
| | | | ~~ASPHALT~~ Concrete | 4 | WELL COVER 8" | |
| 5' BLANK | | | PORTLAND | | WELL COVER 12" | |
| 10' Blank | | | BENTONITE CHIPS | | BOLLARDS | |
| 5' SCREEN | | | BENTONITE GROUT | | SOIL DRUMS | |
| 10' SCREEN | | | SAND | | CORE BOXES | |
| SLIP CAP | | | SAMPLER TUBES | | DEVELOPMENT | |
| THREADED | | | SHELBY TUBES | | SOIL SAMPLES | |
| | | | | | WATER SAMPLES | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Joe Staloch | 1 1/2 | 8 1/2 | 4 | 14 | $50- |
| Charles Conkel | 1 | 8 1/2 | 4 | 18 1/2 | $50- |
| Taggart Knutson | 1 | 8 1/2 | 1 1/2 | 11 | |
| | | | | | |
| | | | | | |

## WELL LOG INFO

| | | | |
|---|---|---|---|
| Client # | GW18D | | |
| Well Tag # | BNV411 | | |
| Start Card # | | | |
| Monument: Flush/ Above | Flush | | |
| Diameter of Hole | 8 & 6 | | |
| Depth of Hole | | | |
| Seal Depth: From - To | | | |
| Filter Pack: From - To | | | |
| Sand Size | | | |
| Seal Below Filter Pack | | | |
| Casing: From - To | | | |
| Screen: From- To | | | |
| Static Water Level | | | |
| Date - Started | (?)5.9.22 | | |
| Date - Completed | 5-10-22 | | |
| Soil Formation | | | |
| Contents | GW18D: LAT 47.48864 long = -122.33338 | | |

UTILITIES FOUND OR HIT

CLIENT SIGNATURE

OPERATOR SIGNATURE

# CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS: 22722 29th Drive SE, STE 228
CITY, STATE, ZIP : BOTHELL, WA 98021
PHONE NUMBER: 425.485.8908

Client: ATLES | Day: Mon | Date: 16 May 22

Location: Burien 76 wa | Job #: 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Shop - load chips - check pipetrucks for bolts | 600 | 700 | |
| | | Travel to site | 700 | 800 | |
| | | SAfety Meeting | 800 | 830 | |
| | | Put on new sub Sauer spindle on | 830 | 1000 | |
| 14V | 30 | Drill GW14V - 8" 80 to 110' | 1000 | 400 | |
| | | | | | |
| | | lunch | 1130 | 1200 | -.5 |
| | | Broke Drill Rod & fished it out | 1200 | 100 | |
| | | | | | |
| | | Clean-up & secure site | 400 | 430 | |
| | | Travel to shop / motel | 430 | 600 | |
| | | PAPERWORK | 600 | 630 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total Ft. | 30 | PM Shop Time | | | |
| | | TOTAL HOURS | | | |

## EQUIPMENT

| | |
|---|---|
| DRILL RIG # | 10-11817 + 34-65020 |
| SUPPORT TRUCK # | 22-46435 |
| SUPPORT TRUCK # | 23-55830 |
| Bobcat / Forklift # | 42-12014 / 34-02318 |

## CASING

| TYPE | SLOT | 2"/4" |
|---|---|---|
| | | |
| 5' BLANK | | |
| 10' Blank | | |
| 5' SCREEN | | |
| 10' SCREEN | | |
| SLIP CAP | | |
| THREADED | | |
| | | |

## MATERIALS

| ITEM | QTY | ITEM | QTY |
|---|---|---|---|
| ASPHALT | | WELL COVER 8" | |
| PORTLAND | | WELL COVER 12" | |
| BENTONITE CHIPS | | BOLLARDS | |
| BENTONITE GROUT | | SOIL DRUMS | |
| SAND | | CORE BOXES | |
| SAMPLER TUBES | | DEVELOPMENT | |
| SHELBY TUBES | | SOIL SAMPLES | |
| | | WATER SAMPLES | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Joe Staloch | 2 | 8 | 2 | 12 | $50 |
| Taggart Knutson | 2 | 8 | 1 1/2 | 11 1/2 | |
| Matt Calvert | 2 | 8 | 1 1/2 | 11 1/2 | |
| | | | | | |
| | | | | | |

## WELL LOG INFO

| | | | |
|---|---|---|---|
| Client # | GW14V | | |
| Well Tag # | | | |
| Start Card # | | | |
| Monument: Flush/ Above | | | |
| Diameter of Hole | 9 + 8 | | |
| Depth of Hole | | | |
| Seal Depth: From - To | | | |
| Filter Pack: From - To | | | |
| Sand Size | | | |
| Seal Below Filter Pack | | | |
| Casing: From - To | | | |
| Screen: From- To | | | |
| Static Water Level | | | |
| Date - Started | 5-11-22 | | |
| Date - Completed | | | |
| Soil Formation: 0 | BRN/Gray | Silty SAND + Gravel | |
| 105 | Gray stiff Silt | | |
| | | | |
| | | | |
| Comments: | | | |

UTILITIES FOUND OR HIT

CLIENT SIGNATURE:

OPERATOR SIGNATURE:

# CASCADE

DRILLING I TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS: 22722 29th Drive SE, STE 228
CITY, STATE, ZIP: BOTHELL, WA 98021
PHONE NUMBER 425 485 8908

Client: ATLES | Day TUE | Date 17 MAY 22

Location Burien 76 wa | Job # 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Pick up More Drill rod for yard | 600 | 630 | |
| | | Meet up with crew travel to site | 630 | 730 | |
| | | On Site - unload - fuel - Pre shift - warm Equipment - SAfety Meeting | 730 | 830 | |
| 14V | 10 | Drill GW14V - 110-120 | 830 | 400 | |
| | | | | | |
| | | lunch | 1230 | 100 | -.5 |
| | | lube pump brake from bracket mount - Re-secured | 230 | 300 | |
| | | | | | |
| | | Set 8" Seal from 110-105 | 400 | 430 | |
| | | Clean-up - Secure Site | 430 | 500 | |
| | | Travel to Yard - Paper work | 500 | 630 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total Ft. | | PM Shop Time | | | |
| | | TOTAL HOURS | | | |

## EQUIPMENT

| | |
|---|---|
| DRILL RIG # | 10-11817 + 34-65020 |
| SUPPORT TRUCK # | 22-46435 |
| SUPPORT TRUCK # | 23-55830 |
| Bobcat / Forklift # | 42-12014 / 34-02318 |

## CASING

| TYPE | SLOT | 2"/4" |
|---|---|---|
| | | |
| 5' BLANK | | |
| 10' Blank | | |
| 5' SCREEN | | |
| 10' SCREEN | | |
| SLIP CAP | | |
| THREADED | | |
| | | |

## MATERIALS

| ITEM | QTY | ITEM | QTY |
|---|---|---|---|
| ASPHALT | | WELL COVER 8" | |
| PORTLAND | | WELL COVER 12" | |
| BENTONITE CHIPS | | BOLLARDS | |
| BENTONITE GROUT | | SOIL DRUMS | |
| SAND | | CORE BOXES | |
| SAMPLER TUBES | | DEVELOPMENT | |
| SHELBY TUBES | | SOIL SAMPLES | |
| | | WATER SAMPLES | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Joe Staloch | 1 1/2 | 9 | 1 1/2 | 12 | $50 |
| Taggart Knutson | 1 | 9 | 1 1/2 | 11 1/2 | |
| Matt Colvert | 1 | 9 | 1 1/2 | 11 1/2 | |
| | | | | | |
| | | | | | |

CLIENT SIGNATURE:

OPERATOR SIGNATURE

## WELL LOG INFO

| | | | |
|---|---|---|---|
| Client # | GW14V | | |
| Well Tag # | | | |
| Start Card # | | | |
| Monument: Flush/ Above | | | |
| Diameter of Hole | 9" to 60 | 8" to 110 | |
| Depth of Hole | | | |
| Seal Depth: From - To | | | |
| Filter Pack: From - To | | | |
| Sand Size | | | |
| Seal Below Filter Pack | | | |
| Casing From - To | | | |
| Screen From- To | | | |
| Static Water Level | | | |
| Date - Started | 5-11-22 | | |
| Date - Completed | | | |

Soil Formation

| | |
|---|---|
| 0 | BRN/Gray Silty Sand & Gravel |
| 105 | Gray Stiff Silt |
| 113 | Brown Sand Small Gravel |
| 116 | Gray/brown Silty Sand Small Gravel |

Comments

UTILITIES FOUND OR HIT

# CASCADE

DRILLING I TECHNICAL SERVICES

CASCADE DAILY WORK REPORT
ADDRESS: 22722 29th Drive SE, STE 228
CITY, STATE, ZIP : BOTHELL, WA 98021
PHONE NUMBER: 425.485.8908

Client: ATLES | Day WED | Date 18 May 22

Location Burien 76 wo | Job # 110-22-1038

| Well # | Depth Drilled | DESCRIPTION OF WORK<br>Please explain reasons for Down Time, Standby Time, and Shop Time | Hours Start | Hours Finish | Total Hrs. |
|---|---|---|---|---|---|
| | | Get fuel & Travel to Site | 600 | 730 | |
| | | Safety Meeting | 730 | 800 | |
| | | Trip Casing (6") to 105 | 800 | 830 | |
| 14V | 45 | Drill GW14V 6" from 105 to 150' | 830 | 330 | |
| | | | | | |
| | | lunch | 1230 | 100 | -.5 |
| | | Change lower Jaws | 1000 | 1030 | |
| | | | | | |
| | | Clean up Secure Site | 330 | 400 | |
| | | Travel to motel / yard | 400 | 530 | |
| | | paperwork | 530 | 600 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total Ft | | PM Shop Time | | | |
| | | TOTAL HOURS | | | |

## EQUIPMENT

| | |
|---|---|
| DRILL RIG # | 10-11817 + 34-65020 |
| SUPPORT TRUCK # | 22-46435 |
| SUPPORT TRUCK # | 23-55830 |
| Bobcat / Forklift # | 42-12014 / 34-02318 |

## CASING

| TYPE | SLOT | 2"/4" |
|---|---|---|
| | | |
| 5' BLANK | | |
| 10' Blank | | |
| 5' SCREEN | | |
| 10' SCREEN | | |
| SLIP CAP | | |
| THREADED | | |
| | | |

## MATERIALS

| ITEM | QTY | ITEM | QTY |
|---|---|---|---|
| ASPHALT | | WELL COVER 8" | |
| PORTLAND | | WELL COVER 12" | |
| BENTONITE CHIPS | | BOLLARDS | |
| BENTONITE GROUT | | SOIL DRUMS | |
| SAND | | CORE BOXES | |
| SAMPLER TUBES | | DEVELOPMENT | |
| SHELBY TUBES | | SOIL SAMPLES | |
| | | WATER SAMPLES | |

## LABOR

| NAME | AM Shop/Travel | Job Site | PM Shop/Travel | Total | PDM |
|---|---|---|---|---|---|
| Joe Staloch | 1 1/2 | 8 | 2 | 11 1/2 | $50 |
| Taggart Knutson | 1 1/2 | 8 | 1 1/2 | 11 | |
| Matt Calvert | 1 1/2 | 8 | 1 1/2 | 11 | |
| | | | | | |
| | | | | | |

CLIENT SIGNATURE:

OPERATOR SIGNATURE

## WELL LOG INFO

| | | | |
|---|---|---|---|
| Client # | GW14V | | |
| Well Tag # | | | |
| Start Card # | | | |
| Monument: Flush/ Above | | | |
| Diameter of Hole | 9" to 60 | 8" to 110 | 6" to 150 |
| Depth of Hole | 150 | | |
| Seal Depth: From - To | | | |
| Filter Pack: From - To | | | |
| Sand Size | | | |
| Seal Below Filter Pack | | | |
| Casing: From - To | | | |
| Screen: From- To | | | |
| Static Water Level | 132 | | |
| Date - Started | 5-11-22 | | |
| Date - Completed | | | |

Soil Formation

| | |
|---|---|
| 0 | Brn/Gray Silty Sand + Gravel |
| 105 | Stiff Gray Silt ORX |
| 113 | Brown Sand Small Gravel |
| 116 | Gray/Brown Silty Sand Small Gravel |
| 124 | Brown fine Sand |
| 150 | TD |

Comments:

UTILITIES FOUND OR HIT

# APPENDIX III
# WELL SURVEY FIELD NOTES

ATLAS

# Field Report

FLD-100
Revision 1.0
6/1/2016

| | | |
|---|---|---|
| ATC Branch: Seattle - 10282 | Date: 08-02-2022 | Page 1 of 1 |
| ATC Representative(s): B. Goulet / I. Arcona | Project: P66 Burien | |
| Role: | Location: 1660 1st Ave. S. Seattle, WA | |
| Contact Information: (206) 781-1449 | Project No: | Task No: -- |
| Scope of Work: | Weather: | Temperature: |
| ___ Monitoring ___ Assessment __ Remediation ___ Closure | Contractor: | |

| Time: | Comments: |
|---|---|
| 10:00 | Arrive on-site, don Level D PPE. Present DTM. |
| | Open wells & setup survey tripod. |
| | Well ID — Measured Elev. (ft.) — Actual Elev. |
| * | GMW-14D ~~10.00~~ 4.03 = 413.72 |
| | GMW-14V 3.97 ~~413.66~~ 413.78 |
| | GMWR-18S 3.41 ~~4.00~~ 3.40 ~~413.09~~ 414.34 |
| | GMWR-18D 3.53 ~~413.22~~ 414.22 |
| 10:41 | E. Silver calls — stop work. |
| 10:43 | Resume work. |
| 10:44 | I. Arcona closing GW-14D & GW-14V; |
| | open paired wells GWR-18S/D; |
| | Survey paired wells |
| 11:15 | Work complete — MOB off-site |
| | |
| | Measured − GW-14d meas. |
| | GW-14V = 3.97 − 4.03 |
| | = -0.06 |
| | * lower staff ht. |
| | relative to GW-14D Act |
| | = higher TOC elevation |
| | |

| | | |
|---|---|---|
| Equipment Used: | | |
| Contractor Hours (per Person): | Staff / Technician Hours: | Mileage: |
| Copies To: | Project Manager: | |
| | Reviewed By: | |

# APPENDIX IV
# LABORATORY AND CHAIN OF CUSTODY DOCUMENTATION

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

May 18, 2022

Elisabeth Silver
Atlas
6347 Seaview Ave NW
Seattle, WA 98107

RE: Project: P66 Burien Data Gaps
Pace Project No.: 10607127

Dear Elisabeth Silver:

Enclosed are the analytical results for sample(s) received by the laboratory on May 05, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

# CERTIFICATIONS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Pace Analytical Services, LLC - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

**Pace Analytical Services National**

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## CERTIFICATIONS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Pace Analytical Services National**

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## SAMPLE SUMMARY

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10607127001** | **SB6-9'** | Solid | 05/03/22 10:05 | 05/05/22 08:50 |
| **10607127002** | **SB6-14'** | Solid | 05/03/22 10:15 | 05/05/22 08:50 |
| **10607127003** | **SB7-9'** | Solid | 05/03/22 11:05 | 05/05/22 08:50 |
| **10607127004** | **SB7-14'** | Solid | 05/03/22 11:10 | 05/05/22 08:50 |
| **10607127005** | **GWR185-30'** | Solid | 05/03/22 14:35 | 05/05/22 08:50 |
| **10607127006** | **GWR185-40'** | Solid | 05/03/22 15:05 | 05/05/22 08:50 |

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## SAMPLE ANALYTE COUNT

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **10607127001** | **SB6-9'** | EPA 8082A | RAG | 9 | PASI-M |
| | | NWTPH-Dx | EB3 | 4 | PASI-M |
| | | NWTPH-Gx | MGF | 2 | PAN |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | EPA 8270E by SIM | KJ3 | 8 | PASI-M |
| | | EPA 8260D | ADM | 71 | PAN |
| | | SM 2540G | CMK | 1 | PAN |
| **10607127002** | **SB6-14'** | EPA 8082A | RAG | 9 | PASI-M |
| | | NWTPH-Dx | EB3 | 4 | PASI-M |
| | | NWTPH-Gx | MGF | 2 | PAN |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | EPA 8270E by SIM | KJ3 | 8 | PASI-M |
| | | EPA 8260D | ADM | 71 | PAN |
| | | SM 2540G | CMK | 1 | PAN |
| **10607127003** | **SB7-9'** | NWTPH-Dx | EB3 | 4 | PASI-M |
| | | NWTPH-Gx | MGF | 2 | PAN |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | EPA 8270E by SIM | KJ3 | 8 | PASI-M |
| | | EPA 8260D | ADM | 8 | PAN |
| | | SM 2540G | CMK | 1 | PAN |
| **10607127004** | **SB7-14'** | NWTPH-Dx | EB3 | 4 | PASI-M |
| | | NWTPH-Gx | MGF | 2 | PAN |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | ASTM D2974 | JDL | 1 | PASI-M |
| | | EPA 8270E by SIM | KJ3 | 8 | PASI-M |
| | | EPA 8260D | ADM | 8 | PAN |
| | | SM 2540G | CMK | 1 | PAN |
| **10607127005** | **GWR185-30'** | NWTPH-Gx | MGF | 2 | PAN |
| | | EPA 8260D | ADM, JHH | 7 | PAN |
| | | SM 2540G | CMK | 1 | PAN |
| **10607127006** | **GWR185-40'** | NWTPH-Gx | MGF | 2 | PAN |
| | | EPA 8260D | BMB | 7 | PAN |
| | | SM 2540G | CMK | 1 | PAN |

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## SAMPLE ANALYTE COUNT

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|

PAN = Pace National - Mt. Juliet
PASI-M = Pace Analytical Services - Minneapolis

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB6-9'** **Lab ID: 10607127001** Collected: 05/03/22 10:05 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3546<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.023** | mg/kg | 0.055 | 0.023 | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.038** | mg/kg | 0.055 | 0.038 | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.033** | mg/kg | 0.055 | 0.033 | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.034** | mg/kg | 0.055 | 0.034 | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.028** | mg/kg | 0.055 | 0.028 | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.028** | mg/kg | 0.055 | 0.028 | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.020** | mg/kg | 0.055 | 0.020 | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 75 | %. | 53-125 | | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 877-09-8 | |
| Decachlorobiphenyl (S) | 79 | %. | 41-125 | | 1 | 05/09/22 10:09 | 05/10/22 10:10 | 2051-24-3 | |
| **NWTPH-Dx GCS** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3550<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Diesel Fuel Range | **<7.5** | mg/kg | 16.3 | 7.5 | 1 | 05/09/22 17:57 | 05/11/22 17:43 | 68334-30-5 | |
| Motor Oil Range | **<5.4** | mg/kg | 10.8 | 5.4 | 1 | 05/09/22 17:57 | 05/11/22 17:43 | | |
| ***Surrogates*** | | | | | | | | | |
| n-Triacontane (S) | 77 | %. | 50-150 | | 1 | 05/09/22 17:57 | 05/11/22 17:43 | | |
| o-Terphenyl (S) | 74 | %. | 50-150 | | 1 | 05/09/22 17:57 | 05/11/22 17:43 | 84-15-1 | |
| **VOA (GC) NWTPHGX** | Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX<br>Pace National - Mt. Juliet | | | | | | | | |
| TPH (C06-C12) | **1.07J** | mg/kg | 3.03 | 1.03 | 25 | 05/03/22 10:05 | 05/14/22 09:46 | | B,J |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (FID) | 97.6 | % | 77.0-120 | | 25 | 05/03/22 10:05 | 05/14/22 09:46 | 98-08-8FID | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Lead | **1.8** | mg/kg | 0.51 | 0.11 | 1 | 05/10/22 09:20 | 05/11/22 12:40 | 7439-92-1 | |
| **Dry Weight / %M by ASTM D2974** | Analytical Method: ASTM D2974<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | **9.7** | % | 0.10 | 0.10 | 1 | | 05/12/22 12:04 | | N2 |
| **8270E MSSV CPAH by SIM** | Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Benzo(a)anthracene | **<0.00096** | mg/kg | 0.011 | 0.00096 | 1 | 05/09/22 19:00 | 05/11/22 18:34 | 56-55-3 | |
| Benzo(a)pyrene | **<0.0012** | mg/kg | 0.011 | 0.0012 | 1 | 05/09/22 19:00 | 05/11/22 18:34 | 50-32-8 | |
| Benzofluoranthenes (Total) | **<0.0046** | mg/kg | 0.033 | 0.0046 | 1 | 05/09/22 19:00 | 05/11/22 18:34 | | N2 |
| Chrysene | **<0.0011** | mg/kg | 0.011 | 0.0011 | 1 | 05/09/22 19:00 | 05/11/22 18:34 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.00090** | mg/kg | 0.011 | 0.00090 | 1 | 05/09/22 19:00 | 05/11/22 18:34 | 53-70-3 | |
| Indeno(1,2,3-cd)pyrene | **<0.00097** | mg/kg | 0.011 | 0.00097 | 1 | 05/09/22 19:00 | 05/11/22 18:34 | 193-39-5 | |
| ***Surrogates*** | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 80 | %. | 43-125 | | 1 | 05/09/22 19:00 | 05/11/22 18:34 | 321-60-8 | |
| p-Terphenyl-d14 (S) | 88 | %. | 40-125 | | 1 | 05/09/22 19:00 | 05/11/22 18:34 | 1718-51-0 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB6-9'** **Lab ID: 10607127001** Collected: 05/03/22 10:05 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **VOA (GC/MS) 8260D** | Analytical Method: EPA 8260D Preparation Method: 5035A<br>Pace National - Mt. Juliet | | | | | | | | |
| Acetone | **<0.0226** | mg/kg | 0.0546 | 0.0226 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 67-64-1 | |
| Allyl chloride | **<0.00437** | mg/kg | 0.00546 | 0.00437 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 107-05-1 | |
| Benzene | **<0.000409** | mg/kg | 0.00109 | 0.000409 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 71-43-2 | |
| Bromobenzene | **<0.000300** | mg/kg | 0.00109 | 0.000300 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 108-86-1 | |
| Bromochloromethane | **<0.000366** | mg/kg | 0.00109 | 0.000366 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 74-97-5 | |
| Bromodichloromethane | **<0.000791** | mg/kg | 0.00109 | 0.000791 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-27-4 | |
| Bromoform | **<0.000463** | mg/kg | 0.00109 | 0.000463 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-25-2 | |
| Bromomethane | **<0.00128** | mg/kg | 0.00546 | 0.00128 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 74-83-9 | |
| n-Butylbenzene | **<0.000282** | mg/kg | 0.00109 | 0.000282 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 104-51-8 | R1 |
| sec-Butylbenzene | **<0.000219** | mg/kg | 0.00109 | 0.000219 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 135-98-8 | |
| tert-Butylbenzene | **<0.000225** | mg/kg | 0.00109 | 0.000225 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 98-06-6 | |
| Carbon tetrachloride | **<0.000271** | mg/kg | 0.00109 | 0.000271 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 56-23-5 | |
| Chlorobenzene | **<0.000210** | mg/kg | 0.00109 | 0.000210 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 108-90-7 | |
| Dibromochloromethane | **<0.000245** | mg/kg | 0.00109 | 0.000245 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 124-48-1 | |
| Chloroethane | **<0.00109** | mg/kg | 0.00546 | 0.00109 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-00-3 | |
| Chloroform | **<0.00112** | mg/kg | 0.00546 | 0.00112 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 67-66-3 | |
| Chloromethane | **<0.000710** | mg/kg | 0.00273 | 0.000710 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 74-87-3 | |
| 2-Chlorotoluene | **<0.000246** | mg/kg | 0.00109 | 0.000246 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 95-49-8 | |
| 4-Chlorotoluene | **<0.000754** | mg/kg | 0.00109 | 0.000754 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 106-43-4 | |
| 1,2-Dibromoethane (EDB) | **<0.000273** | mg/kg | 0.00109 | 0.000273 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 106-93-4 | |
| 1,2-Dibromo-3-chloropropane | **<0.00207** | mg/kg | 0.00546 | 0.00207 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 96-12-8 | |
| Dibromomethane | **<0.000382** | mg/kg | 0.00109 | 0.000382 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.000464** | mg/kg | 0.00109 | 0.000464 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 95-50-1 | L0,R1 |
| 1,3-Dichlorobenzene | **<0.000655** | mg/kg | 0.00109 | 0.000655 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.000906** | mg/kg | 0.00109 | 0.000906 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.000313** | mg/kg | 0.00546 | 0.000313 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-71-8 | |
| Dichlorofluoromethane | **<0.000546** | mg/kg | 0.00546 | 0.000546 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-43-4 | |
| 1,1-Dichloroethane | **<0.000293** | mg/kg | 0.00109 | 0.000293 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.000491** | mg/kg | 0.00109 | 0.000491 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.000388** | mg/kg | 0.00109 | 0.000388 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.000519** | mg/kg | 0.00109 | 0.000519 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.000546** | mg/kg | 0.00109 | 0.000546 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.000179** | mg/kg | 0.00109 | 0.000179 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.000246** | mg/kg | 0.00109 | 0.000246 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.000409** | mg/kg | 0.00109 | 0.000409 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.000409** | mg/kg | 0.00109 | 0.000409 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.000464** | mg/kg | 0.00109 | 0.000464 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.000737** | mg/kg | 0.00109 | 0.000737 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 10061-02-6 | |
| Ethylbenzene | **<0.000327** | mg/kg | 0.00109 | 0.000327 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 100-41-4 | |
| Diethyl ether (Ethyl ether) | **<0.000437** | mg/kg | 0.00109 | 0.000437 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 60-29-7 | |
| Hexachloro-1,3-butadiene | **<0.000373** | mg/kg | 0.00109 | 0.000373 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 87-68-3 | R1 |
| n-Hexane | **<0.00115** | mg/kg | 0.0109 | 0.00115 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 110-54-3 | |
| Isopropylbenzene (Cumene) | **<0.000464** | mg/kg | 0.00109 | 0.000464 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 98-82-8 | |
| p-Isopropyltoluene | **<0.000223** | mg/kg | 0.00109 | 0.000223 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 99-87-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB6-9'** **Lab ID: 10607127001** Collected: 05/03/22 10:05 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **VOA (GC/MS) 8260D** | Analytical Method: EPA 8260D Preparation Method: 5035A<br>Pace National - Mt. Juliet | | | | | | | | |
| 2-Butanone (MEK) | **<0.00511** | mg/kg | 0.0109 | 0.00511 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 78-93-3 | |
| Methylene Chloride | **0.00126J** | mg/kg | 0.00546 | 0.00109 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-09-2 | J |
| 4-Methyl-2-pentanone (MIBK) | **<0.00104** | mg/kg | 0.0109 | 0.00104 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 108-10-1 | |
| Methyl-tert-butyl ether | **<0.000382** | mg/kg | 0.00109 | 0.000382 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 1634-04-4 | |
| Naphthalene | **<0.00544** | mg/kg | 0.00546 | 0.00544 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 91-20-3 | R1 |
| n-Propylbenzene | **<0.000225** | mg/kg | 0.00109 | 0.000225 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 103-65-1 | |
| Styrene | **<0.000243** | mg/kg | 0.00109 | 0.000243 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.000323** | mg/kg | 0.00109 | 0.000323 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.000252** | mg/kg | 0.00109 | 0.000252 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 79-34-5 | |
| Tetrachloroethene | **<0.000355** | mg/kg | 0.00109 | 0.000355 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 127-18-4 | |
| Tetrahydrofuran | **<0.00183** | mg/kg | 0.00546 | 0.00183 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 109-99-9 | |
| Toluene | **<0.00134** | mg/kg | 0.00546 | 0.00134 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.000334** | mg/kg | 0.00109 | 0.000334 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 87-61-6 | R1 |
| 1,2,4-Trichlorobenzene | **<0.000424** | mg/kg | 0.00109 | 0.000424 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 120-82-1 | R1 |
| 1,2,4-Trimethylbenzene | **<0.000230** | mg/kg | 0.00109 | 0.000230 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.000290** | mg/kg | 0.00109 | 0.000290 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 108-67-8 | |
| 1,1,1-Trichloroethane | **<0.000404** | mg/kg | 0.00109 | 0.000404 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.000464** | mg/kg | 0.00109 | 0.000464 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 79-00-5 | |
| Trichloroethene | **<0.000218** | mg/kg | 0.00109 | 0.000218 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 79-01-6 | |
| Trichlorofluoromethane | **<0.000389** | mg/kg | 0.00546 | 0.000389 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.000465** | mg/kg | 0.00109 | 0.000465 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 76-13-1 | |
| 1,2,3-Trichloropropane | **<0.000266** | mg/kg | 0.00273 | 0.000266 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 96-18-4 | |
| Vinyl chloride | **<0.000247** | mg/kg | 0.00109 | 0.000247 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 75-01-4 | |
| Xylene (Total) | **0.000727J** | mg/kg | 0.00327 | 0.000546 | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 1330-20-7 | J |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 109 | % | 70.0-130 | | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 17060-07-0 | |
| Toluene-d8 (S) | 110 | % | 75.0-131 | | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96.9 | % | 67.0-138 | | 1 | 05/03/22 10:05 | 05/13/22 17:59 | 460-00-4 | |
| **Total Solids 2540 G-2011** | Analytical Method: SM 2540G Preparation Method: SM 2540 G<br>Pace National - Mt. Juliet | | | | | | | | |
| Total Solids | **91.6** | % | | | 1 | 05/13/22 10:14 | 05/13/22 10:19 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB6-14'** **Lab ID: 10607127002** Collected: 05/03/22 10:15 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3546<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.023** | mg/kg | 0.055 | 0.023 | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.038** | mg/kg | 0.055 | 0.038 | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.032** | mg/kg | 0.055 | 0.032 | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.034** | mg/kg | 0.055 | 0.034 | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.028** | mg/kg | 0.055 | 0.028 | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.027** | mg/kg | 0.055 | 0.027 | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.020** | mg/kg | 0.055 | 0.020 | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 77 | %. | 53-125 | | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 877-09-8 | |
| Decachlorobiphenyl (S) | 84 | %. | 41-125 | | 1 | 05/09/22 10:09 | 05/10/22 11:45 | 2051-24-3 | |
| **NWTPH-Dx GCS** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3550<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Diesel Fuel Range | **<7.5** | mg/kg | 16.2 | 7.5 | 1 | 05/09/22 17:57 | 05/11/22 17:54 | 68334-30-5 | |
| Motor Oil Range | **<5.4** | mg/kg | 10.8 | 5.4 | 1 | 05/09/22 17:57 | 05/11/22 17:54 | | |
| ***Surrogates*** | | | | | | | | | |
| n-Triacontane (S) | 80 | %. | 50-150 | | 1 | 05/09/22 17:57 | 05/11/22 17:54 | | |
| o-Terphenyl (S) | 78 | %. | 50-150 | | 1 | 05/09/22 17:57 | 05/11/22 17:54 | 84-15-1 | |
| **VOA (GC) NWTPHGX** | Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX<br>Pace National - Mt. Juliet | | | | | | | | |
| TPH (C06-C12) | **<1.05** | mg/kg | 3.09 | 1.05 | 25 | 05/03/22 10:15 | 05/14/22 10:09 | | R1 |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (FID) | 97.9 | % | 77.0-120 | | 25 | 05/03/22 10:15 | 05/14/22 10:09 | 98-08-8FID | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Lead | **1.4** | mg/kg | 0.53 | 0.11 | 1 | 05/10/22 09:20 | 05/11/22 12:42 | 7439-92-1 | |
| **Dry Weight / %M by ASTM D2974** | Analytical Method: ASTM D2974<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | **9.5** | % | 0.10 | 0.10 | 1 | | 05/12/22 12:04 | | N2 |
| **8270E MSSV CPAH by SIM** | Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Benzo(a)anthracene | **<0.00096** | mg/kg | 0.011 | 0.00096 | 1 | 05/09/22 19:00 | 05/11/22 19:05 | 56-55-3 | |
| Benzo(a)pyrene | **<0.0012** | mg/kg | 0.011 | 0.0012 | 1 | 05/09/22 19:00 | 05/11/22 19:05 | 50-32-8 | |
| Benzofluoranthenes (Total) | **<0.0046** | mg/kg | 0.033 | 0.0046 | 1 | 05/09/22 19:00 | 05/11/22 19:05 | | N2 |
| Chrysene | **<0.0011** | mg/kg | 0.011 | 0.0011 | 1 | 05/09/22 19:00 | 05/11/22 19:05 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.00090** | mg/kg | 0.011 | 0.00090 | 1 | 05/09/22 19:00 | 05/11/22 19:05 | 53-70-3 | |
| Indeno(1,2,3-cd)pyrene | **<0.00097** | mg/kg | 0.011 | 0.00097 | 1 | 05/09/22 19:00 | 05/11/22 19:05 | 193-39-5 | |
| ***Surrogates*** | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 75 | %. | 43-125 | | 1 | 05/09/22 19:00 | 05/11/22 19:05 | 321-60-8 | |
| p-Terphenyl-d14 (S) | 85 | %. | 40-125 | | 1 | 05/09/22 19:00 | 05/11/22 19:05 | 1718-51-0 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

# ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB6-14'** **Lab ID: 10607127002** Collected: 05/03/22 10:15 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **VOA (GC/MS) 8260D** | Analytical Method: EPA 8260D Preparation Method: 5035A<br>Pace National - Mt. Juliet | | | | | | | | |
| Acetone | **<0.0228** | mg/kg | 0.0550 | 0.0228 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 67-64-1 | |
| Allyl chloride | **<0.00440** | mg/kg | 0.00550 | 0.00440 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 107-05-1 | |
| Benzene | **<0.000413** | mg/kg | 0.00110 | 0.000413 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 71-43-2 | |
| Bromobenzene | **<0.000303** | mg/kg | 0.00110 | 0.000303 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 108-86-1 | |
| Bromochloromethane | **<0.000369** | mg/kg | 0.00110 | 0.000369 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 74-97-5 | |
| Bromodichloromethane | **<0.000798** | mg/kg | 0.00110 | 0.000798 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-27-4 | |
| Bromoform | **<0.000466** | mg/kg | 0.00110 | 0.000466 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-25-2 | |
| Bromomethane | **<0.00129** | mg/kg | 0.00550 | 0.00129 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 74-83-9 | |
| n-Butylbenzene | **<0.000284** | mg/kg | 0.00110 | 0.000284 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 104-51-8 | R1 |
| sec-Butylbenzene | **<0.000221** | mg/kg | 0.00110 | 0.000221 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 135-98-8 | |
| tert-Butylbenzene | **<0.000227** | mg/kg | 0.00110 | 0.000227 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 98-06-6 | |
| Carbon tetrachloride | **<0.000273** | mg/kg | 0.00110 | 0.000273 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 56-23-5 | |
| Chlorobenzene | **<0.000211** | mg/kg | 0.00110 | 0.000211 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 108-90-7 | |
| Dibromochloromethane | **<0.000246** | mg/kg | 0.00110 | 0.000246 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 124-48-1 | |
| Chloroethane | **<0.00110** | mg/kg | 0.00550 | 0.00110 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-00-3 | |
| Chloroform | **<0.00113** | mg/kg | 0.00550 | 0.00113 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 67-66-3 | |
| Chloromethane | **<0.000715** | mg/kg | 0.00275 | 0.000715 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 74-87-3 | |
| 2-Chlorotoluene | **<0.000248** | mg/kg | 0.00110 | 0.000248 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 95-49-8 | |
| 4-Chlorotoluene | **<0.000760** | mg/kg | 0.00110 | 0.000760 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 106-43-4 | |
| 1,2-Dibromoethane (EDB) | **<0.000275** | mg/kg | 0.00110 | 0.000275 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 106-93-4 | |
| 1,2-Dibromo-3-chloropropane | **<0.00209** | mg/kg | 0.00550 | 0.00209 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 96-12-8 | |
| Dibromomethane | **<0.000385** | mg/kg | 0.00110 | 0.000385 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.000468** | mg/kg | 0.00110 | 0.000468 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 95-50-1 | L0,R1 |
| 1,3-Dichlorobenzene | **<0.000660** | mg/kg | 0.00110 | 0.000660 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.000913** | mg/kg | 0.00110 | 0.000913 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.000316** | mg/kg | 0.00550 | 0.000316 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-71-8 | |
| Dichlorofluoromethane | **<0.000550** | mg/kg | 0.00550 | 0.000550 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-43-4 | |
| 1,1-Dichloroethane | **<0.000295** | mg/kg | 0.00110 | 0.000295 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.000495** | mg/kg | 0.00110 | 0.000495 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.000391** | mg/kg | 0.00110 | 0.000391 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.000523** | mg/kg | 0.00110 | 0.000523 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.000550** | mg/kg | 0.00110 | 0.000550 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.000180** | mg/kg | 0.00110 | 0.000180 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.000248** | mg/kg | 0.00110 | 0.000248 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.000413** | mg/kg | 0.00110 | 0.000413 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.000413** | mg/kg | 0.00110 | 0.000413 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.000468** | mg/kg | 0.00110 | 0.000468 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.000743** | mg/kg | 0.00110 | 0.000743 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 10061-02-6 | |
| Ethylbenzene | **<0.000330** | mg/kg | 0.00110 | 0.000330 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 100-41-4 | |
| Diethyl ether (Ethyl ether) | **<0.000440** | mg/kg | 0.00110 | 0.000440 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 60-29-7 | |
| Hexachloro-1,3-butadiene | **<0.000376** | mg/kg | 0.00110 | 0.000376 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 87-68-3 | R1 |
| n-Hexane | **<0.00116** | mg/kg | 0.0110 | 0.00116 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 110-54-3 | |
| Isopropylbenzene (Cumene) | **<0.000468** | mg/kg | 0.00110 | 0.000468 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 98-82-8 | |
| p-Isopropyltoluene | **<0.000224** | mg/kg | 0.00110 | 0.000224 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 99-87-6 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB6-14'** **Lab ID: 10607127002** Collected: 05/03/22 10:15 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **VOA (GC/MS) 8260D** | Analytical Method: EPA 8260D Preparation Method: 5035A<br>Pace National - Mt. Juliet | | | | | | | | |
| 2-Butanone (MEK) | **<0.00515** | mg/kg | 0.0110 | 0.00515 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 78-93-3 | |
| Methylene Chloride | **0.00131J** | mg/kg | 0.00550 | 0.00110 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-09-2 | J |
| 4-Methyl-2-pentanone (MIBK) | **<0.00105** | mg/kg | 0.0110 | 0.00105 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 108-10-1 | |
| Methyl-tert-butyl ether | **<0.000385** | mg/kg | 0.00110 | 0.000385 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 1634-04-4 | |
| Naphthalene | **<0.00548** | mg/kg | 0.00550 | 0.00548 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 91-20-3 | R1 |
| n-Propylbenzene | **<0.000227** | mg/kg | 0.00110 | 0.000227 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 103-65-1 | |
| Styrene | **<0.000245** | mg/kg | 0.00110 | 0.000245 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.000326** | mg/kg | 0.00110 | 0.000326 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.000254** | mg/kg | 0.00110 | 0.000254 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 79-34-5 | |
| Tetrachloroethene | **<0.000358** | mg/kg | 0.00110 | 0.000358 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 127-18-4 | |
| Tetrahydrofuran | **<0.00185** | mg/kg | 0.00550 | 0.00185 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 109-99-9 | |
| Toluene | **<0.00135** | mg/kg | 0.00550 | 0.00135 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.000337** | mg/kg | 0.00110 | 0.000337 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 87-61-6 | R1 |
| 1,2,4-Trichlorobenzene | **<0.000427** | mg/kg | 0.00110 | 0.000427 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 120-82-1 | R1 |
| 1,2,4-Trimethylbenzene | **<0.000232** | mg/kg | 0.00110 | 0.000232 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.000293** | mg/kg | 0.00110 | 0.000293 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 108-67-8 | |
| 1,1,1-Trichloroethane | **<0.000407** | mg/kg | 0.00110 | 0.000407 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.000468** | mg/kg | 0.00110 | 0.000468 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 79-00-5 | |
| Trichloroethene | **<0.000220** | mg/kg | 0.00110 | 0.000220 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 79-01-6 | |
| Trichlorofluoromethane | **<0.000392** | mg/kg | 0.00550 | 0.000392 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.000469** | mg/kg | 0.00110 | 0.000469 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 76-13-1 | |
| 1,2,3-Trichloropropane | **<0.000268** | mg/kg | 0.00275 | 0.000268 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 96-18-4 | |
| Vinyl chloride | **<0.000249** | mg/kg | 0.00110 | 0.000249 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 75-01-4 | |
| Xylene (Total) | **0.000989J** | mg/kg | 0.00330 | 0.000550 | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 1330-20-7 | J |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 109 | % | 70.0-130 | | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 17060-07-0 | |
| Toluene-d8 (S) | 110 | % | 75.0-131 | | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 99.2 | % | 67.0-138 | | 1 | 05/03/22 10:15 | 05/13/22 18:21 | 460-00-4 | |
| **Total Solids 2540 G-2011** | Analytical Method: SM 2540G Preparation Method: SM 2540 G<br>Pace National - Mt. Juliet | | | | | | | | |
| Total Solids | **90.9** | % | | | 1 | 05/13/22 10:14 | 05/13/22 10:19 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB7-9'** **Lab ID: 10607127003** Collected: 05/03/22 11:05 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Dx GCS** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3550<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Diesel Fuel Range | **<7.3** | mg/kg | 15.9 | 7.3 | 1 | 05/09/22 17:57 | 05/11/22 18:06 | 68334-30-5 | |
| Motor Oil Range | **<5.3** | mg/kg | 10.6 | 5.3 | 1 | 05/09/22 17:57 | 05/11/22 18:06 | | |
| ***Surrogates*** | | | | | | | | | |
| n-Triacontane (S) | 65 | %. | 50-150 | | 1 | 05/09/22 17:57 | 05/11/22 18:06 | | |
| o-Terphenyl (S) | 73 | %. | 50-150 | | 1 | 05/09/22 17:57 | 05/11/22 18:06 | 84-15-1 | |
| **VOA (GC) NWTPHGX** | Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX<br>Pace National - Mt. Juliet | | | | | | | | |
| TPH (C06-C12) | **1.13J** | mg/kg | 2.90 | 0.984 | 25 | 05/03/22 11:05 | 05/14/22 10:32 | | B,J,R1 |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (FID) | 97.9 | % | 77.0-120 | | 25 | 05/03/22 11:05 | 05/14/22 10:32 | 98-08-8FID | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Lead | **1.8** | mg/kg | 0.52 | 0.11 | 1 | 05/10/22 09:20 | 05/11/22 12:43 | 7439-92-1 | |
| **Dry Weight / %M by ASTM D2974** | Analytical Method: ASTM D2974<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | **7.5** | % | 0.10 | 0.10 | 1 | | 05/12/22 12:04 | | N2 |
| **8270E MSSV CPAH by SIM** | Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Benzo(a)anthracene | **<0.00094** | mg/kg | 0.011 | 0.00094 | 1 | 05/09/22 19:00 | 05/11/22 19:37 | 56-55-3 | |
| Benzo(a)pyrene | **<0.0011** | mg/kg | 0.011 | 0.0011 | 1 | 05/09/22 19:00 | 05/11/22 19:37 | 50-32-8 | |
| Benzofluoranthenes (Total) | **<0.0045** | mg/kg | 0.032 | 0.0045 | 1 | 05/09/22 19:00 | 05/11/22 19:37 | | N2 |
| Chrysene | **<0.0010** | mg/kg | 0.011 | 0.0010 | 1 | 05/09/22 19:00 | 05/11/22 19:37 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.00088** | mg/kg | 0.011 | 0.00088 | 1 | 05/09/22 19:00 | 05/11/22 19:37 | 53-70-3 | |
| Indeno(1,2,3-cd)pyrene | **<0.00095** | mg/kg | 0.011 | 0.00095 | 1 | 05/09/22 19:00 | 05/11/22 19:37 | 193-39-5 | |
| ***Surrogates*** | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 84 | %. | 43-125 | | 1 | 05/09/22 19:00 | 05/11/22 19:37 | 321-60-8 | |
| p-Terphenyl-d14 (S) | 91 | %. | 40-125 | | 1 | 05/09/22 19:00 | 05/11/22 19:37 | 1718-51-0 | |
| **VOA (GC/MS) 8260D** | Analytical Method: EPA 8260D Preparation Method: 5035A<br>Pace National - Mt. Juliet | | | | | | | | |
| Benzene | **<0.000404** | mg/kg | 0.00108 | 0.000404 | 1 | 05/03/22 11:05 | 05/13/22 18:43 | 71-43-2 | |
| Ethylbenzene | **<0.000323** | mg/kg | 0.00108 | 0.000323 | 1 | 05/03/22 11:05 | 05/13/22 18:43 | 100-41-4 | |
| Naphthalene | **<0.00536** | mg/kg | 0.00538 | 0.00536 | 1 | 05/03/22 11:05 | 05/13/22 18:43 | 91-20-3 | R1 |
| Toluene | **<0.00132** | mg/kg | 0.00538 | 0.00132 | 1 | 05/03/22 11:05 | 05/13/22 18:43 | 108-88-3 | |
| Xylene (Total) | **0.00104J** | mg/kg | 0.00323 | 0.000538 | 1 | 05/03/22 11:05 | 05/13/22 18:43 | 1330-20-7 | J |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 105 | % | 70.0-130 | | 1 | 05/03/22 11:05 | 05/13/22 18:43 | 17060-07-0 | |
| Toluene-d8 (S) | 111 | % | 75.0-131 | | 1 | 05/03/22 11:05 | 05/13/22 18:43 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97.4 | % | 67.0-138 | | 1 | 05/03/22 11:05 | 05/13/22 18:43 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB7-9'** **Lab ID: 10607127003** Collected: 05/03/22 11:05 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Total Solids 2540 G-2011** | Analytical Method: SM 2540G Preparation Method: SM 2540 G<br>Pace National - Mt. Juliet | | | | | | | | |
| Total Solids | **92.9** | % | | | 1 | 05/13/22 10:14 | 05/13/22 10:19 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

# ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB7-14'** **Lab ID: 10607127004** Collected: 05/03/22 11:10 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Dx GCS** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3550<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Diesel Fuel Range | **<7.1** | mg/kg | 15.4 | 7.1 | 1 | 05/09/22 17:57 | 05/11/22 18:17 | 68334-30-5 | |
| Motor Oil Range | **<5.1** | mg/kg | 10.3 | 5.1 | 1 | 05/09/22 17:57 | 05/11/22 18:17 | | |
| ***Surrogates*** | | | | | | | | | |
| n-Triacontane (S) | 84 | %. | 50-150 | | 1 | 05/09/22 17:57 | 05/11/22 18:17 | | |
| o-Terphenyl (S) | 80 | %. | 50-150 | | 1 | 05/09/22 17:57 | 05/11/22 18:17 | 84-15-1 | |
| **VOA (GC) NWTPHGX** | Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX<br>Pace National - Mt. Juliet | | | | | | | | |
| TPH (C06-C12) | **1.17J** | mg/kg | 2.89 | 0.979 | 25 | 05/03/22 11:10 | 05/14/22 10:54 | | B,J,R1 |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (FID) | 97.6 | % | 77.0-120 | | 25 | 05/03/22 11:10 | 05/14/22 10:54 | 98-08-8FID | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Lead | **1.3** | mg/kg | 0.52 | 0.11 | 1 | 05/10/22 09:20 | 05/11/22 12:45 | 7439-92-1 | |
| **Dry Weight / %M by ASTM D2974** | Analytical Method: ASTM D2974<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Percent Moisture | **6.9** | % | 0.10 | 0.10 | 1 | | 05/12/22 12:04 | | N2 |
| **8270E MSSV CPAH by SIM** | Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C<br>Pace Analytical Services - Minneapolis | | | | | | | | |
| Benzo(a)anthracene | **<0.00093** | mg/kg | 0.011 | 0.00093 | 1 | 05/09/22 19:00 | 05/11/22 20:08 | 56-55-3 | |
| Benzo(a)pyrene | **<0.0011** | mg/kg | 0.011 | 0.0011 | 1 | 05/09/22 19:00 | 05/11/22 20:08 | 50-32-8 | |
| Benzofluoranthenes (Total) | **<0.0044** | mg/kg | 0.032 | 0.0044 | 1 | 05/09/22 19:00 | 05/11/22 20:08 | | N2 |
| Chrysene | **<0.0010** | mg/kg | 0.011 | 0.0010 | 1 | 05/09/22 19:00 | 05/11/22 20:08 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.00088** | mg/kg | 0.011 | 0.00088 | 1 | 05/09/22 19:00 | 05/11/22 20:08 | 53-70-3 | |
| Indeno(1,2,3-cd)pyrene | **<0.00094** | mg/kg | 0.011 | 0.00094 | 1 | 05/09/22 19:00 | 05/11/22 20:08 | 193-39-5 | |
| ***Surrogates*** | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 84 | %. | 43-125 | | 1 | 05/09/22 19:00 | 05/11/22 20:08 | 321-60-8 | |
| p-Terphenyl-d14 (S) | 86 | %. | 40-125 | | 1 | 05/09/22 19:00 | 05/11/22 20:08 | 1718-51-0 | |
| **VOA (GC/MS) 8260D** | Analytical Method: EPA 8260D Preparation Method: 5035A<br>Pace National - Mt. Juliet | | | | | | | | |
| Benzene | **<0.000403** | mg/kg | 0.00107 | 0.000403 | 1 | 05/03/22 11:10 | 05/13/22 19:04 | 71-43-2 | |
| Ethylbenzene | **<0.000322** | mg/kg | 0.00107 | 0.000322 | 1 | 05/03/22 11:10 | 05/13/22 19:04 | 100-41-4 | |
| Naphthalene | **<0.00535** | mg/kg | 0.00537 | 0.00535 | 1 | 05/03/22 11:10 | 05/13/22 19:04 | 91-20-3 | R1 |
| Toluene | **<0.00132** | mg/kg | 0.00537 | 0.00132 | 1 | 05/03/22 11:10 | 05/13/22 19:04 | 108-88-3 | |
| Xylene (Total) | **0.00130J** | mg/kg | 0.00322 | 0.000537 | 1 | 05/03/22 11:10 | 05/13/22 19:04 | 1330-20-7 | J |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 106 | % | 70.0-130 | | 1 | 05/03/22 11:10 | 05/13/22 19:04 | 17060-07-0 | |
| Toluene-d8 (S) | 111 | % | 75.0-131 | | 1 | 05/03/22 11:10 | 05/13/22 19:04 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98.1 | % | 67.0-138 | | 1 | 05/03/22 11:10 | 05/13/22 19:04 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: SB7-14'** **Lab ID: 10607127004** Collected: 05/03/22 11:10 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Total Solids 2540 G-2011** | Analytical Method: SM 2540G Preparation Method: SM 2540 G<br>Pace National - Mt. Juliet | | | | | | | | |
| Total Solids | **93.1** | % | | | 1 | 05/13/22 10:14 | 05/13/22 10:19 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: GWR185-30'** **Lab ID: 10607127005** Collected: 05/03/22 14:35 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **VOA (GC) NWTPHGX** | Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX<br>Pace National - Mt. Juliet | | | | | | | | |
| TPH (C06-C12) | **5.03** | mg/kg | 2.81 | 0.955 | 25 | 05/03/22 14:35 | 05/14/22 11:17 | | B,R1 |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (FID) | 98.0 | % | 77.0-120 | | 25 | 05/03/22 14:35 | 05/14/22 11:17 | 98-08-8FID | |
| **VOA (GC/MS) 8260D** | Analytical Method: EPA 8260D Preparation Method: 5035A<br>Pace National - Mt. Juliet | | | | | | | | |
| Benzene | **0.00146** | mg/kg | 0.00106 | 0.000397 | 1 | 05/03/22 14:35 | 05/16/22 15:17 | 71-43-2 | |
| Ethylbenzene | **0.00917** | mg/kg | 0.00106 | 0.000317 | 1 | 05/03/22 14:35 | 05/13/22 19:26 | 100-41-4 | |
| Toluene | **0.00373J** | mg/kg | 0.00529 | 0.00130 | 1 | 05/03/22 14:35 | 05/13/22 19:26 | 108-88-3 | J |
| Xylene (Total) | **0.0168** | mg/kg | 0.00317 | 0.000529 | 1 | 05/03/22 14:35 | 05/13/22 19:26 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 98.3 | % | 70.0-130 | | 1 | 05/03/22 14:35 | 05/13/22 19:26 | 17060-07-0 | |
| 1,2-Dichloroethane-d4 (S) | 107 | % | 70.0-130 | | 1 | 05/03/22 14:35 | 05/16/22 15:17 | 17060-07-0 | |
| Toluene-d8 (S) | 96.4 | % | 75.0-131 | | 1 | 05/03/22 14:35 | 05/13/22 19:26 | 2037-26-5 | |
| Toluene-d8 (S) | 101 | % | 75.0-131 | | 1 | 05/03/22 14:35 | 05/16/22 15:17 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 95.3 | % | 67.0-138 | | 1 | 05/03/22 14:35 | 05/13/22 19:26 | 460-00-4 | |
| 4-Bromofluorobenzene (S) | 98.1 | % | 67.0-138 | | 1 | 05/03/22 14:35 | 05/16/22 15:17 | 460-00-4 | |
| **Total Solids 2540 G-2011** | Analytical Method: SM 2540G Preparation Method: SM 2540 G<br>Pace National - Mt. Juliet | | | | | | | | |
| Total Solids | **94.5** | % | | | 1 | 05/13/22 10:14 | 05/13/22 10:19 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## ANALYTICAL RESULTS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

**Sample: GWR185-40'** **Lab ID: 10607127006** Collected: 05/03/22 15:05 Received: 05/05/22 08:50 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **VOA (GC) NWTPHGX** | Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX<br>Pace National - Mt. Juliet | | | | | | | | |
| TPH (C06-C12) | **228** | mg/kg | 21.5 | 7.30 | 200 | 05/03/22 15:05 | 05/17/22 13:35 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (FID) | 94.0 | % | 77.0-120 | | 200 | 05/03/22 15:05 | 05/17/22 13:35 | 98-08-8FID | |
| **VOA (GC/MS) 8260D** | Analytical Method: EPA 8260D Preparation Method: 5035A<br>Pace National - Mt. Juliet | | | | | | | | |
| Benzene | **<0.0807** | mg/kg | 0.215 | 0.0807 | 200 | 05/03/22 15:05 | 05/18/22 00:18 | 71-43-2 | |
| Ethylbenzene | **0.991** | mg/kg | 0.215 | 0.0646 | 200 | 05/03/22 15:05 | 05/18/22 00:18 | 100-41-4 | |
| Toluene | **<0.265** | mg/kg | 1.08 | 0.265 | 200 | 05/03/22 15:05 | 05/18/22 00:18 | 108-88-3 | |
| Xylene (Total) | **9.05** | mg/kg | 0.646 | 0.108 | 200 | 05/03/22 15:05 | 05/18/22 00:18 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 98.9 | % | 70.0-130 | | 200 | 05/03/22 15:05 | 05/18/22 00:18 | 17060-07-0 | |
| Toluene-d8 (S) | 105 | % | 75.0-131 | | 200 | 05/03/22 15:05 | 05/18/22 00:18 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 | % | 67.0-138 | | 200 | 05/03/22 15:05 | 05/18/22 00:18 | 460-00-4 | |
| **Total Solids 2540 G-2011** | Analytical Method: SM 2540G Preparation Method: SM 2540 G<br>Pace National - Mt. Juliet | | | | | | | | |
| Total Solids | **96.6** | % | | | 1 | 05/14/22 16:11 | 05/14/22 16:30 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1862652 Analysis Method: NWTPH-Gx
QC Batch Method: 8021B/NWTPHGX Analysis Description: VOA (GC) NWTPHGX
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

METHOD BLANK: R3792686-2 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 1.06J | 2.50 | 0.848 | 05/14/22 08:37 | J |
| a,a,a-Trifluorotoluene (FID) | % | 97.8 | 77.0-120 | | 05/14/22 08:37 | |

LABORATORY CONTROL SAMPLE & LCSD: R3792686-1 R3792686-3

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 5.50 | 6.54 | 4.42 | 119 | 80.4 | 71.0-124 | 38.7 | 20 | R1 |
| a,a,a-Trifluorotoluene (FID) | % | | | | 108 | 104 | 77.0-120 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3792686-4 R3792686-5

| Parameter | Units | 10607127001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 1.07 | 128 | 128 | 104 | 123 | 80.3 | 95.4 | 50.0-150 | 17.0 | 27 | |
| a,a,a-Trifluorotoluene (FID) | % | | | | | | 101 | 103 | 77.0-120 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1862652 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPHGX Analysis Description: VOA (GC) NWTPHGX
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

METHOD BLANK: R3792686-2 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 1.06J | 2.50 | 0.848 | 05/14/22 08:37 | J |
| a,a,a-Trifluorotoluene (FID) | % | 97.8 | 77.0-120 | | 05/14/22 08:37 | |

LABORATORY CONTROL SAMPLE & LCSD: R3792686-1 R3792686-3

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 5.50 | 6.54 | 4.42 | 119 | 80.4 | 71.0-124 | 38.7 | 20 | R1 |
| a,a,a-Trifluorotoluene (FID) | % | | | | 108 | 104 | 77.0-120 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3792686-4 R3792686-5

| Parameter | Units | 10607127001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 1.07 | 128 | 128 | 104 | 123 | 80.3 | 95.4 | 50.0-150 | 17.0 | 27 | |
| a,a,a-Trifluorotoluene (FID) | % | | | | | | 101 | 103 | 77.0-120 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1865103
QC Batch Method: NWTPHGX
Analysis Method: NWTPH-Gx
Analysis Description: VOA (GC) NWTPHGX
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10607127006

METHOD BLANK: R3792801-3 Matrix: Solid
Associated Lab Samples: 10607127006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 1.25J | 2.50 | 0.848 | 05/17/22 06:26 | J |
| a,a,a-Trifluorotoluene (FID) | % | 98.4 | 77.0-120 | | 05/17/22 06:26 | |

LABORATORY CONTROL SAMPLE & LCSD: R3792801-2 R3792801-4

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 5.50 | 5.47 | 4.90 | 99.5 | 89.1 | 71.0-124 | 11.0 | 20 | |
| a,a,a-Trifluorotoluene (FID) | % | | | | 107 | 102 | 77.0-120 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1865103
QC Batch Method: 8021B/NWTPHGX
Analysis Method: NWTPH-Gx
Analysis Description: VOA (GC) NWTPHGX
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10607127006

METHOD BLANK: R3792801-3 Matrix: Solid
Associated Lab Samples: 10607127006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 1.25J | 2.50 | 0.848 | 05/17/22 06:26 | J |
| a,a,a-Trifluorotoluene (FID) | % | 98.4 | 77.0-120 | | 05/17/22 06:26 | |

LABORATORY CONTROL SAMPLE & LCSD: R3792801-2 R3792801-4

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH (C06-C12) | mg/kg | 5.50 | 5.47 | 4.90 | 99.5 | 89.1 | 71.0-124 | 11.0 | 20 | |
| a,a,a-Trifluorotoluene (FID) | % | | | | 107 | 102 | 77.0-120 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 813865 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004

METHOD BLANK: 4315267 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Lead | mg/kg | <0.098 | 0.48 | 0.098 | 05/11/22 12:18 | |

LABORATORY CONTROL SAMPLE: 4315268

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Lead | mg/kg | 48.5 | 48.8 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315269 4315270

| Parameter | Units | 10607217004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | mg/kg | 11400 | 467 | 485 | 12000 | 11200 | 125 | -31 | 75-125 | 6 | 20 | P6 |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 814837
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004

SAMPLE DUPLICATE: 4319288

| Parameter | Units | 10607933001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 22.3 | 21.4 | 4 | 30 | N2 |

SAMPLE DUPLICATE: 4319289

| Parameter | Units | 10607210002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 16.4 | 16.3 | 0 | 30 | N2 |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1863556
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

METHOD BLANK: R3791707-2 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Acetone | mg/kg | <0.0207 | 0.0500 | 0.0207 | 05/13/22 11:50 | |
| Allyl chloride | mg/kg | <0.00400 | 0.00500 | 0.00400 | 05/13/22 11:50 | |
| Benzene | mg/kg | <0.000375 | 0.00100 | 0.000375 | 05/13/22 11:50 | |
| Bromobenzene | mg/kg | <0.000275 | 0.00100 | 0.000275 | 05/13/22 11:50 | |
| Bromochloromethane | mg/kg | <0.000335 | 0.00100 | 0.000335 | 05/13/22 11:50 | |
| Bromodichloromethane | mg/kg | <0.000725 | 0.00100 | 0.000725 | 05/13/22 11:50 | |
| Bromoform | mg/kg | <0.000424 | 0.00100 | 0.000424 | 05/13/22 11:50 | |
| Bromomethane | mg/kg | <0.00117 | 0.00500 | 0.00117 | 05/13/22 11:50 | |
| n-Butylbenzene | mg/kg | <0.000258 | 0.00100 | 0.000258 | 05/13/22 11:50 | |
| sec-Butylbenzene | mg/kg | <0.000201 | 0.00100 | 0.000201 | 05/13/22 11:50 | |
| tert-Butylbenzene | mg/kg | <0.000206 | 0.00100 | 0.000206 | 05/13/22 11:50 | |
| Carbon tetrachloride | mg/kg | <0.000248 | 0.00100 | 0.000248 | 05/13/22 11:50 | |
| Chlorobenzene | mg/kg | <0.000192 | 0.00100 | 0.000192 | 05/13/22 11:50 | |
| Dibromochloromethane | mg/kg | <0.000224 | 0.00100 | 0.000224 | 05/13/22 11:50 | |
| Chloroethane | mg/kg | <0.00100 | 0.00500 | 0.00100 | 05/13/22 11:50 | |
| Chloroform | mg/kg | <0.00103 | 0.00500 | 0.00103 | 05/13/22 11:50 | |
| Chloromethane | mg/kg | <0.000650 | 0.00250 | 0.000650 | 05/13/22 11:50 | |
| 2-Chlorotoluene | mg/kg | <0.000225 | 0.00100 | 0.000225 | 05/13/22 11:50 | |
| 4-Chlorotoluene | mg/kg | <0.000691 | 0.00100 | 0.000691 | 05/13/22 11:50 | |
| 1,2-Dibromoethane (EDB) | mg/kg | <0.000250 | 0.00100 | 0.000250 | 05/13/22 11:50 | |
| 1,2-Dibromo-3-chloropropane | mg/kg | <0.00190 | 0.00500 | 0.00190 | 05/13/22 11:50 | |
| Dibromomethane | mg/kg | <0.000350 | 0.00100 | 0.000350 | 05/13/22 11:50 | |
| 1,2-Dichlorobenzene | mg/kg | <0.000425 | 0.00100 | 0.000425 | 05/13/22 11:50 | |
| 1,3-Dichlorobenzene | mg/kg | <0.000600 | 0.00100 | 0.000600 | 05/13/22 11:50 | |
| 1,4-Dichlorobenzene | mg/kg | <0.000830 | 0.00100 | 0.000830 | 05/13/22 11:50 | |
| Dichlorodifluoromethane | mg/kg | <0.000287 | 0.00500 | 0.000287 | 05/13/22 11:50 | |
| Dichlorofluoromethane | mg/kg | <0.000500 | 0.00500 | 0.000500 | 05/13/22 11:50 | |
| 1,1-Dichloroethane | mg/kg | <0.000268 | 0.00100 | 0.000268 | 05/13/22 11:50 | |
| 1,2-Dichloroethane | mg/kg | <0.000450 | 0.00100 | 0.000450 | 05/13/22 11:50 | |
| 1,1-Dichloroethene | mg/kg | <0.000355 | 0.00100 | 0.000355 | 05/13/22 11:50 | |
| cis-1,2-Dichloroethene | mg/kg | <0.000475 | 0.00100 | 0.000475 | 05/13/22 11:50 | |
| trans-1,2-Dichloroethene | mg/kg | <0.000500 | 0.00100 | 0.000500 | 05/13/22 11:50 | |
| 1,2-Dichloropropane | mg/kg | <0.000164 | 0.00100 | 0.000164 | 05/13/22 11:50 | |
| 1,3-Dichloropropane | mg/kg | <0.000225 | 0.00100 | 0.000225 | 05/13/22 11:50 | |
| 2,2-Dichloropropane | mg/kg | <0.000375 | 0.00100 | 0.000375 | 05/13/22 11:50 | |
| 1,1-Dichloropropene | mg/kg | <0.000375 | 0.00100 | 0.000375 | 05/13/22 11:50 | |
| cis-1,3-Dichloropropene | mg/kg | <0.000425 | 0.00100 | 0.000425 | 05/13/22 11:50 | |
| trans-1,3-Dichloropropene | mg/kg | <0.000675 | 0.00100 | 0.000675 | 05/13/22 11:50 | |
| Ethylbenzene | mg/kg | <0.000300 | 0.00100 | 0.000300 | 05/13/22 11:50 | |
| Diethyl ether (Ethyl ether) | mg/kg | <0.000400 | 0.00100 | 0.000400 | 05/13/22 11:50 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

METHOD BLANK: R3791707-2 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | mg/kg | <0.000342 | 0.00100 | 0.000342 | 05/13/22 11:50 | |
| n-Hexane | mg/kg | <0.00105 | 0.0100 | 0.00105 | 05/13/22 11:50 | |
| Isopropylbenzene (Cumene) | mg/kg | <0.000425 | 0.00100 | 0.000425 | 05/13/22 11:50 | |
| p-Isopropyltoluene | mg/kg | <0.000204 | 0.00100 | 0.000204 | 05/13/22 11:50 | |
| 2-Butanone (MEK) | mg/kg | <0.00468 | 0.0100 | 0.00468 | 05/13/22 11:50 | |
| Methylene Chloride | mg/kg | <0.00100 | 0.00500 | 0.00100 | 05/13/22 11:50 | |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | <0.000950 | 0.0100 | 0.000950 | 05/13/22 11:50 | |
| Methyl-tert-butyl ether | mg/kg | <0.000350 | 0.00100 | 0.000350 | 05/13/22 11:50 | |
| Naphthalene | mg/kg | <0.00498 | 0.00500 | 0.00498 | 05/13/22 11:50 | |
| n-Propylbenzene | mg/kg | <0.000206 | 0.00100 | 0.000206 | 05/13/22 11:50 | |
| Styrene | mg/kg | <0.000223 | 0.00100 | 0.000223 | 05/13/22 11:50 | |
| 1,1,1,2-Tetrachloroethane | mg/kg | <0.000296 | 0.00100 | 0.000296 | 05/13/22 11:50 | |
| 1,1,2,2-Tetrachloroethane | mg/kg | <0.000231 | 0.00100 | 0.000231 | 05/13/22 11:50 | |
| Tetrachloroethene | mg/kg | <0.000325 | 0.00100 | 0.000325 | 05/13/22 11:50 | |
| Tetrahydrofuran | mg/kg | <0.00168 | 0.00500 | 0.00168 | 05/13/22 11:50 | |
| Toluene | mg/kg | <0.00123 | 0.00500 | 0.00123 | 05/13/22 11:50 | |
| 1,2,3-Trichlorobenzene | mg/kg | <0.000306 | 0.00100 | 0.000306 | 05/13/22 11:50 | |
| 1,2,4-Trichlorobenzene | mg/kg | <0.000388 | 0.00100 | 0.000388 | 05/13/22 11:50 | |
| 1,2,4-Trimethylbenzene | mg/kg | <0.000211 | 0.00100 | 0.000211 | 05/13/22 11:50 | |
| 1,3,5-Trimethylbenzene | mg/kg | <0.000266 | 0.00100 | 0.000266 | 05/13/22 11:50 | |
| 1,1,1-Trichloroethane | mg/kg | <0.000370 | 0.00100 | 0.000370 | 05/13/22 11:50 | |
| 1,1,2-Trichloroethane | mg/kg | <0.000425 | 0.00100 | 0.000425 | 05/13/22 11:50 | |
| Trichloroethene | mg/kg | <0.000200 | 0.00100 | 0.000200 | 05/13/22 11:50 | |
| Trichlorofluoromethane | mg/kg | <0.000356 | 0.00500 | 0.000356 | 05/13/22 11:50 | |
| 1,1,2-Trichlorotrifluoroethane | mg/kg | <0.000426 | 0.00100 | 0.000426 | 05/13/22 11:50 | |
| 1,2,3-Trichloropropane | mg/kg | <0.000244 | 0.00250 | 0.000244 | 05/13/22 11:50 | |
| Vinyl chloride | mg/kg | <0.000226 | 0.00100 | 0.000226 | 05/13/22 11:50 | |
| Xylene (Total) | mg/kg | <0.000500 | 0.00300 | 0.000500 | 05/13/22 11:50 | |
| 1,2-Dichloroethane-d4 (S) | % | 106 | 70.0-130 | | 05/13/22 11:50 | |
| Toluene-d8 (S) | % | 112 | 75.0-131 | | 05/13/22 11:50 | |
| 4-Bromofluorobenzene (S) | % | 99.7 | 67.0-138 | | 05/13/22 11:50 | |

LABORATORY CONTROL SAMPLE & LCSD: R3791707-1 R3791707-3

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | mg/kg | 0.125 | 0.124 | 0.110 | 99.2 | 88.0 | 10.0-160 | 12.0 | 31 | |
| Allyl chloride | mg/kg | 0.125 | 0.132 | 0.120 | 106 | 96.0 | 70.0-131 | 9.52 | 20 | |
| Benzene | mg/kg | 0.0250 | 0.0260 | 0.0240 | 104 | 96.0 | 70.0-123 | 8.00 | 20 | |
| Bromobenzene | mg/kg | 0.0250 | 0.0277 | 0.0245 | 111 | 98.0 | 73.0-121 | 12.3 | 20 | |
| Bromochloromethane | mg/kg | 0.0250 | 0.0255 | 0.0238 | 102 | 95.2 | 77.0-128 | 6.90 | 20 | |
| Bromodichloromethane | mg/kg | 0.0250 | 0.0254 | 0.0242 | 102 | 96.8 | 73.0-121 | 4.84 | 20 | |
| Bromoform | mg/kg | 0.0250 | 0.0248 | 0.0237 | 99.2 | 94.8 | 64.0-132 | 4.54 | 20 | |
| Bromomethane | mg/kg | 0.0250 | 0.0304 | 0.0285 | 122 | 114 | 56.0-147 | 6.45 | 20 | |
| n-Butylbenzene | mg/kg | 0.0250 | 0.0173 | 0.0246 | 69.2 | 98.4 | 68.0-135 | 34.8 | 20 | R1 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

LABORATORY CONTROL SAMPLE & LCSD: R3791707-1 R3791707-3

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | mg/kg | 0.0250 | 0.0274 | 0.0238 | 110 | 95.2 | 74.0-130 | 14.1 | 20 | |
| tert-Butylbenzene | mg/kg | 0.0250 | 0.0274 | 0.0235 | 110 | 94.0 | 75.0-127 | 15.3 | 20 | |
| Carbon tetrachloride | mg/kg | 0.0250 | 0.0255 | 0.0235 | 102 | 94.0 | 66.0-128 | 8.16 | 20 | |
| Chlorobenzene | mg/kg | 0.0250 | 0.0249 | 0.0242 | 99.6 | 96.8 | 76.0-128 | 2.85 | 20 | |
| Dibromochloromethane | mg/kg | 0.0250 | 0.0257 | 0.0248 | 103 | 99.2 | 74.0-127 | 3.56 | 20 | |
| Chloroethane | mg/kg | 0.0250 | 0.0234 | 0.0220 | 93.6 | 88.0 | 61.0-134 | 6.17 | 20 | |
| Chloroform | mg/kg | 0.0250 | 0.0254 | 0.0242 | 102 | 96.8 | 72.0-123 | 4.84 | 20 | |
| Chloromethane | mg/kg | 0.0250 | 0.0242 | 0.0219 | 96.8 | 87.6 | 51.0-138 | 9.98 | 20 | |
| 2-Chlorotoluene | mg/kg | 0.0250 | 0.0275 | 0.0243 | 110 | 97.2 | 75.0-124 | 12.4 | 20 | |
| 4-Chlorotoluene | mg/kg | 0.0250 | 0.0274 | 0.0248 | 110 | 99.2 | 75.0-124 | 9.96 | 20 | |
| 1,2-Dibromoethane (EDB) | mg/kg | 0.0250 | 0.0256 | 0.0243 | 102 | 97.2 | 74.0-128 | 5.21 | 20 | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.0250 | 0.0193 | 0.0212 | 77.2 | 84.8 | 59.0-130 | 9.38 | 20 | |
| Dibromomethane | mg/kg | 0.0250 | 0.0247 | 0.0232 | 98.8 | 92.8 | 75.0-122 | 6.26 | 20 | |
| 1,2-Dichlorobenzene | mg/kg | 0.0250 | 0.0169 | 0.0247 | 67.6 | 98.8 | 76.0-124 | 37.5 | 20 | L0,R1 |
| 1,3-Dichlorobenzene | mg/kg | 0.0250 | 0.0271 | 0.0250 | 108 | 100 | 76.0-125 | 8.06 | 20 | |
| 1,4-Dichlorobenzene | mg/kg | 0.0250 | 0.0252 | 0.0245 | 101 | 98.0 | 77.0-121 | 2.82 | 20 | |
| Dichlorodifluoromethane | mg/kg | 0.0250 | 0.0261 | 0.0251 | 104 | 100 | 43.0-156 | 3.91 | 20 | |
| Dichlorofluoromethane | mg/kg | 0.0250 | 0.0244 | 0.0222 | 97.6 | 88.8 | 65.0-137 | 9.44 | 20 | |
| 1,1-Dichloroethane | mg/kg | 0.0250 | 0.0252 | 0.0234 | 101 | 93.6 | 70.0-127 | 7.41 | 20 | |
| 1,2-Dichloroethane | mg/kg | 0.0250 | 0.0243 | 0.0235 | 97.2 | 94.0 | 65.0-131 | 3.35 | 20 | |
| 1,1-Dichloroethene | mg/kg | 0.0250 | 0.0252 | 0.0225 | 101 | 90.0 | 65.0-131 | 11.3 | 20 | |
| cis-1,2-Dichloroethene | mg/kg | 0.0250 | 0.0259 | 0.0245 | 104 | 98.0 | 73.0-125 | 5.56 | 20 | |
| trans-1,2-Dichloroethene | mg/kg | 0.0250 | 0.0253 | 0.0229 | 101 | 91.6 | 71.0-125 | 9.96 | 20 | |
| 1,2-Dichloropropane | mg/kg | 0.0250 | 0.0262 | 0.0247 | 105 | 98.8 | 74.0-125 | 5.89 | 20 | |
| 1,3-Dichloropropane | mg/kg | 0.0250 | 0.0256 | 0.0246 | 102 | 98.4 | 80.0-125 | 3.98 | 20 | |
| 2,2-Dichloropropane | mg/kg | 0.0250 | 0.0277 | 0.0253 | 111 | 101 | 59.0-135 | 9.06 | 20 | |
| 1,1-Dichloropropene | mg/kg | 0.0250 | 0.0257 | 0.0239 | 103 | 95.6 | 73.0-125 | 7.26 | 20 | |
| cis-1,3-Dichloropropene | mg/kg | 0.0250 | 0.0267 | 0.0255 | 107 | 102 | 76.0-127 | 4.60 | 20 | |
| trans-1,3-Dichloropropene | mg/kg | 0.0250 | 0.0256 | 0.0247 | 102 | 98.8 | 73.0-127 | 3.58 | 20 | |
| Ethylbenzene | mg/kg | 0.0250 | 0.0247 | 0.0236 | 98.8 | 94.4 | 74.0-126 | 4.55 | 20 | |
| Diethyl ether (Ethyl ether) | mg/kg | 0.0250 | 0.0258 | 0.0231 | 103 | 92.4 | 64.0-137 | 11.0 | 20 | |
| Hexachloro-1,3-butadiene | mg/kg | 0.0250 | 0.0174 | 0.0235 | 69.6 | 94.0 | 57.0-150 | 29.8 | 20 | R1 |
| n-Hexane | mg/kg | 0.0250 | 0.0230 | 0.0199 | 92.0 | 79.6 | 55.0-137 | 14.5 | 20 | |
| Isopropylbenzene (Cumene) | mg/kg | 0.0250 | 0.0253 | 0.0240 | 101 | 96.0 | 72.0-127 | 5.27 | 20 | |
| p-Isopropyltoluene | mg/kg | 0.0250 | 0.0273 | 0.0244 | 109 | 97.6 | 72.0-133 | 11.2 | 20 | |
| 2-Butanone (MEK) | mg/kg | 0.125 | 0.121 | 0.105 | 96.8 | 84.0 | 30.0-160 | 14.2 | 24 | |
| Methylene Chloride | mg/kg | 0.0250 | 0.0235 | 0.0215 | 94.0 | 86.0 | 68.0-123 | 8.89 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | 0.125 | 0.124 | 0.112 | 99.2 | 89.6 | 56.0-143 | 10.2 | 20 | |
| Methyl-tert-butyl ether | mg/kg | 0.0250 | 0.0261 | 0.0241 | 104 | 96.4 | 66.0-132 | 7.97 | 20 | |
| Naphthalene | mg/kg | 0.0250 | 0.0179 | 0.0226 | 71.6 | 90.4 | 59.0-130 | 23.2 | 20 | R1 |
| n-Propylbenzene | mg/kg | 0.0250 | 0.0280 | 0.0240 | 112 | 96.0 | 74.0-126 | 15.4 | 20 | |
| Styrene | mg/kg | 0.0250 | 0.0262 | 0.0251 | 105 | 100 | 72.0-127 | 4.29 | 20 | |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.0250 | 0.0250 | 0.0238 | 100 | 95.2 | 74.0-129 | 4.92 | 20 | |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.0250 | 0.0267 | 0.0232 | 107 | 92.8 | 68.0-128 | 14.0 | 20 | |
| Tetrachloroethene | mg/kg | 0.0250 | 0.0255 | 0.0241 | 102 | 96.4 | 70.0-136 | 5.65 | 20 | |
| Tetrahydrofuran | mg/kg | 0.0250 | 0.0256 | 0.0221 | 102 | 88.4 | 37.0-146 | 14.7 | 24 | |
| Toluene | mg/kg | 0.0250 | 0.0236 | 0.0224 | 94.4 | 89.6 | 75.0-121 | 5.22 | 20 | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

LABORATORY CONTROL SAMPLE & LCSD: R3791707-1 R3791707-3

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | mg/kg | 0.0250 | 0.0167 | 0.0239 | 66.8 | 95.6 | 59.0-139 | 35.5 | 20 | R1 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.0250 | 0.0192 | 0.0262 | 76.8 | 105 | 62.0-137 | 30.8 | 20 | R1 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.0250 | 0.0265 | 0.0232 | 106 | 92.8 | 70.0-126 | 13.3 | 20 | |
| 1,3,5-Trimethylbenzene | mg/kg | 0.0250 | 0.0272 | 0.0235 | 109 | 94.0 | 73.0-127 | 14.6 | 20 | |
| 1,1,1-Trichloroethane | mg/kg | 0.0250 | 0.0259 | 0.0235 | 104 | 94.0 | 69.0-126 | 9.72 | 20 | |
| 1,1,2-Trichloroethane | mg/kg | 0.0250 | 0.0256 | 0.0245 | 102 | 98.0 | 78.0-123 | 4.39 | 20 | |
| Trichloroethene | mg/kg | 0.0250 | 0.0256 | 0.0238 | 102 | 95.2 | 76.0-126 | 7.29 | 20 | |
| Trichlorofluoromethane | mg/kg | 0.0250 | 0.0244 | 0.0222 | 97.6 | 88.8 | 61.0-142 | 9.44 | 20 | |
| 1,1,2-Trichlorotrifluoroethane | mg/kg | 0.0250 | 0.0254 | 0.0224 | 102 | 89.6 | 61.0-139 | 12.6 | 20 | |
| 1,2,3-Trichloropropane | mg/kg | 0.0250 | 0.0272 | 0.0236 | 109 | 94.4 | 67.0-129 | 14.2 | 20 | |
| Vinyl chloride | mg/kg | 0.0250 | 0.0241 | 0.0225 | 96.4 | 90.0 | 63.0-134 | 6.87 | 20 | |
| Xylene (Total) | mg/kg | 0.0750 | 0.0729 | 0.0699 | 97.2 | 93.2 | 72.0-127 | 4.20 | 20 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 104 | 105 | 70.0-130 | | | |
| Toluene-d8 (S) | % | | | | 108 | 110 | 75.0-131 | | | |
| 4-Bromofluorobenzene (S) | % | | | | 100 | 102 | 67.0-138 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1863941
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10607127005

METHOD BLANK: R3792340-3 Matrix: Solid
Associated Lab Samples: 10607127005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Benzene | mg/kg | <0.000375 | 0.00100 | 0.000375 | 05/16/22 11:51 | |
| 1,2-Dichloroethane-d4 (S) | % | 105 | 70.0-130 | | 05/16/22 11:51 | |
| Toluene-d8 (S) | % | 111 | 75.0-131 | | 05/16/22 11:51 | |
| 4-Bromofluorobenzene (S) | % | 102 | 67.0-138 | | 05/16/22 11:51 | |

LABORATORY CONTROL SAMPLE & LCSD: R3792340-1 R3792340-2

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.0250 | 0.0261 | 0.0277 | 104 | 111 | 70.0-123 | 5.95 | 20 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 101 | 100 | 70.0-130 | | | |
| Toluene-d8 (S) | % | | | | 108 | 109 | 75.0-131 | | | |
| 4-Bromofluorobenzene (S) | % | | | | 102 | 103 | 67.0-138 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1865433
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10607127006

METHOD BLANK: R3792996-4 Matrix: Solid
Associated Lab Samples: 10607127006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Benzene | mg/kg | <0.00938 | 0.0250 | 0.00938 | 05/17/22 23:54 | |
| Ethylbenzene | mg/kg | <0.00750 | 0.0250 | 0.00750 | 05/17/22 23:54 | |
| Toluene | mg/kg | <0.0308 | 0.125 | 0.0308 | 05/17/22 23:54 | |
| Xylene (Total) | mg/kg | <0.0125 | 0.0750 | 0.0125 | 05/17/22 23:54 | |
| 1,2-Dichloroethane-d4 (S) | % | 96.1 | 70.0-130 | | 05/17/22 23:54 | |
| Toluene-d8 (S) | % | 103 | 75.0-131 | | 05/17/22 23:54 | |
| 4-Bromofluorobenzene (S) | % | 102 | 67.0-138 | | 05/17/22 23:54 | |

LABORATORY CONTROL SAMPLE & LCSD: R3792996-1 R3792996-2

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.0250 | 0.0244 | 0.0252 | 97.6 | 101 | 70.0-123 | 3.23 | 20 | |
| Ethylbenzene | mg/kg | 0.0250 | 0.0244 | 0.0253 | 97.6 | 101 | 74.0-126 | 3.62 | 20 | |
| Toluene | mg/kg | 0.0250 | 0.0244 | 0.0255 | 97.6 | 102 | 75.0-121 | 4.41 | 20 | |
| Xylene (Total) | mg/kg | 0.0750 | 0.0729 | 0.0762 | 97.2 | 102 | 72.0-127 | 4.43 | 20 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 104 | 106 | 70.0-130 | | | |
| Toluene-d8 (S) | % | | | | 104 | 106 | 75.0-131 | | | |
| 4-Bromofluorobenzene (S) | % | | | | 99.9 | 98.8 | 67.0-138 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 813916
QC Batch Method: EPA 3546
Analysis Method: EPA 8082A
Analysis Description: 8082A GCS PCB
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10607127001, 10607127002

METHOD BLANK: 4315375 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | mg/kg | <0.021 | 0.050 | 0.021 | 05/10/22 09:23 | |
| PCB-1221 (Aroclor 1221) | mg/kg | <0.034 | 0.050 | 0.034 | 05/10/22 09:23 | |
| PCB-1232 (Aroclor 1232) | mg/kg | <0.030 | 0.050 | 0.030 | 05/10/22 09:23 | |
| PCB-1242 (Aroclor 1242) | mg/kg | <0.031 | 0.050 | 0.031 | 05/10/22 09:23 | |
| PCB-1248 (Aroclor 1248) | mg/kg | <0.026 | 0.050 | 0.026 | 05/10/22 09:23 | |
| PCB-1254 (Aroclor 1254) | mg/kg | <0.025 | 0.050 | 0.025 | 05/10/22 09:23 | |
| PCB-1260 (Aroclor 1260) | mg/kg | <0.018 | 0.050 | 0.018 | 05/10/22 09:23 | |
| Decachlorobiphenyl (S) | %. | 89 | 41-125 | | 05/10/22 09:23 | |
| Tetrachloro-m-xylene (S) | %. | 60 | 53-125 | | 05/10/22 09:23 | |

LABORATORY CONTROL SAMPLE: 4315376

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | mg/kg | 1 | 0.91 | 91 | 68-125 | |
| PCB-1260 (Aroclor 1260) | mg/kg | 1 | 0.95 | 95 | 70-125 | |
| Decachlorobiphenyl (S) | %. | | | 91 | 41-125 | |
| Tetrachloro-m-xylene (S) | %. | | | 83 | 53-125 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315528 4315529

| Parameter | Units | 10607127001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | mg/kg | <0.023 | 1.1 | 1.1 | 0.97 | 0.97 | 88 | 89 | 53-125 | 0 | 30 | |
| PCB-1260 (Aroclor 1260) | mg/kg | <0.020 | 1.1 | 1.1 | 1.0 | 1.0 | 92 | 92 | 30-143 | 0 | 30 | |
| Decachlorobiphenyl (S) | %. | | | | | | 86 | 87 | 41-125 | | | |
| Tetrachloro-m-xylene (S) | %. | | | | | | 76 | 76 | 53-125 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 814045
QC Batch Method: EPA 3550C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E CPAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004

METHOD BLANK: 4316015 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Benzo(a)anthracene | mg/kg | <0.00087 | 0.010 | 0.00087 | 05/11/22 15:27 | |
| Benzo(a)pyrene | mg/kg | <0.0011 | 0.010 | 0.0011 | 05/11/22 15:27 | |
| Benzofluoranthenes (Total) | mg/kg | <0.0041 | 0.030 | 0.0041 | 05/11/22 15:27 | N2 |
| Chrysene | mg/kg | <0.00098 | 0.010 | 0.00098 | 05/11/22 15:27 | |
| Dibenz(a,h)anthracene | mg/kg | <0.00082 | 0.010 | 0.00082 | 05/11/22 15:27 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | <0.00088 | 0.010 | 0.00088 | 05/11/22 15:27 | |
| 2-Fluorobiphenyl (S) | %. | 92 | 43-125 | | 05/11/22 15:27 | |
| p-Terphenyl-d14 (S) | %. | 101 | 40-125 | | 05/11/22 15:27 | |

LABORATORY CONTROL SAMPLE: 4316016

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Benzo(a)anthracene | mg/kg | 0.1 | 0.090 | 90 | 60-125 | |
| Benzo(a)pyrene | mg/kg | 0.1 | 0.090 | 90 | 67-125 | |
| Benzofluoranthenes (Total) | mg/kg | 0.3 | 0.28 | 94 | 67-125 | N2 |
| Chrysene | mg/kg | 0.1 | 0.094 | 94 | 60-125 | |
| Dibenz(a,h)anthracene | mg/kg | 0.1 | 0.093 | 93 | 66-125 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.092 | 92 | 67-125 | |
| 2-Fluorobiphenyl (S) | %. | | | 86 | 43-125 | |
| p-Terphenyl-d14 (S) | %. | | | 90 | 40-125 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316017 4316018

| Parameter | Units | 20242686002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | mg/kg | <0.87 ug/kg | 0.1 | 0.1 | 0.077 | 0.076 | 77 | 76 | 30-150 | 2 | 30 | |
| Benzo(a)pyrene | mg/kg | <1.1 ug/kg | 0.1 | 0.1 | 0.080 | 0.078 | 80 | 79 | 30-150 | 2 | 30 | |
| Benzofluoranthenes (Total) | mg/kg | <4.1 ug/kg | 0.3 | 0.3 | 0.25 | 0.25 | 85 | 85 | 30-150 | 0 | 30 | N2 |
| Chrysene | mg/kg | <0.97 ug/kg | 0.1 | 0.1 | 0.083 | 0.082 | 83 | 82 | 30-150 | 1 | 30 | |
| Dibenz(a,h)anthracene | mg/kg | <0.82 ug/kg | 0.1 | 0.1 | 0.080 | 0.080 | 81 | 80 | 30-146 | 0 | 30 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | <0.88 ug/kg | 0.1 | 0.1 | 0.080 | 0.079 | 80 | 80 | 30-150 | 0 | 30 | |
| 2-Fluorobiphenyl (S) | %. | | | | | | 73 | 70 | 43-125 | | | |
| p-Terphenyl-d14 (S) | %. | | | | | | 85 | 83 | 40-125 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 814044
QC Batch Method: EPA 3550
Analysis Method: NWTPH-Dx
Analysis Description: NWTPH-Dx GCS
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004

METHOD BLANK: 4316005 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Diesel Fuel Range | mg/kg | <6.9 | 15.0 | 6.9 | 05/11/22 16:46 | |
| Motor Oil Range | mg/kg | <5.0 | 10.0 | 5.0 | 05/11/22 16:46 | |
| n-Triacontane (S) | %. | 84 | 50-150 | | 05/11/22 16:46 | |
| o-Terphenyl (S) | %. | 84 | 50-150 | | 05/11/22 16:46 | |

LABORATORY CONTROL SAMPLE: 4316006

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Diesel Fuel Range | mg/kg | 50 | 36.3 | 73 | 50-150 | |
| Motor Oil Range | mg/kg | 50 | 44.3 | 89 | 50-150 | |
| n-Triacontane (S) | %. | | | 79 | 50-150 | |
| o-Terphenyl (S) | %. | | | 78 | 50-150 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316061 4316062

| Parameter | Units | 10607520001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Fuel Range | mg/kg | 15400 | 50 | 49.5 | 14800 | 14800 | -1190 | -1210 | 50-150 | 0 | 30 | P6 |
| Motor Oil Range | mg/kg | 8600 | 50 | 49.5 | 8160 | 7970 | -870 | -1270 | 50-150 | 2 | 30 | P6 |
| n-Triacontane (S) | %. | | | | | | 0 | 0 | 50-150 | | | S4 |
| o-Terphenyl (S) | %. | | | | | | 0 | 0 | 50-150 | | | S4 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1863278
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

METHOD BLANK: R3791769-1 Matrix: Solid
Associated Lab Samples: 10607127001, 10607127002, 10607127003, 10607127004, 10607127005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Solids | % | 0.00100 | | | 05/13/22 10:19 | |

LABORATORY CONTROL SAMPLE: R3791769-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Solids | % | 50.0 | 50.0 | 99.9 | 85.0-115 | |

SAMPLE DUPLICATE: R3791769-3

| Parameter | Units | L1491513-04 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Solids | % | 83.6 | 83.6 | 0.0516 | 10 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

QC Batch: 1863279
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10607127006

METHOD BLANK: R3792143-1 Matrix: Solid
Associated Lab Samples: 10607127006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Solids | % | 0.00100 | | | 05/14/22 16:30 | |

LABORATORY CONTROL SAMPLE: R3792143-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Solids | % | 50.0 | 50.0 | 100 | 85.0-115 | |

SAMPLE DUPLICATE: R3792143-3

| Parameter | Units | L1491772-01 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Solids | % | 85.6 | 83.2 | 2.85 | 10 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

# QUALIFIERS

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| B | Analyte was detected in the associated method blank. |
| J | Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs. |
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits. |
| N2 | The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level. |
| R1 | RPD value was outside control limits. |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution. |

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P66 Burien Data Gaps
Pace Project No.: 10607127

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10607127001** | **SB6-9'** | EPA 3546 | 813916 | EPA 8082A | 814082 |
| **10607127002** | **SB6-14'** | EPA 3546 | 813916 | EPA 8082A | 814082 |
| **10607127001** | **SB6-9'** | EPA 3550 | 814044 | NWTPH-Dx | 814171 |
| **10607127002** | **SB6-14'** | EPA 3550 | 814044 | NWTPH-Dx | 814171 |
| **10607127003** | **SB7-9'** | EPA 3550 | 814044 | NWTPH-Dx | 814171 |
| **10607127004** | **SB7-14'** | EPA 3550 | 814044 | NWTPH-Dx | 814171 |
| **10607127001** | **SB6-9'** | NWTPHGX | 1862652 | NWTPH-Gx | 1862652 |
| **10607127002** | **SB6-14'** | NWTPHGX | 1862652 | NWTPH-Gx | 1862652 |
| **10607127003** | **SB7-9'** | NWTPHGX | 1862652 | NWTPH-Gx | 1862652 |
| **10607127004** | **SB7-14'** | NWTPHGX | 1862652 | NWTPH-Gx | 1862652 |
| **10607127005** | **GWR185-30'** | NWTPHGX | 1862652 | NWTPH-Gx | 1862652 |
| **10607127006** | **GWR185-40'** | NWTPHGX | 1865103 | NWTPH-Gx | 1865103 |
| **10607127001** | **SB6-9'** | EPA 3050B | 813865 | EPA 6010D | 814368 |
| **10607127002** | **SB6-14'** | EPA 3050B | 813865 | EPA 6010D | 814368 |
| **10607127003** | **SB7-9'** | EPA 3050B | 813865 | EPA 6010D | 814368 |
| **10607127004** | **SB7-14'** | EPA 3050B | 813865 | EPA 6010D | 814368 |
| **10607127001** | **SB6-9'** | ASTM D2974 | 814837 | | |
| **10607127002** | **SB6-14'** | ASTM D2974 | 814837 | | |
| **10607127003** | **SB7-9'** | ASTM D2974 | 814837 | | |
| **10607127004** | **SB7-14'** | ASTM D2974 | 814837 | | |
| **10607127001** | **SB6-9'** | EPA 3550C | 814045 | EPA 8270E by SIM | 814602 |
| **10607127002** | **SB6-14'** | EPA 3550C | 814045 | EPA 8270E by SIM | 814602 |
| **10607127003** | **SB7-9'** | EPA 3550C | 814045 | EPA 8270E by SIM | 814602 |
| **10607127004** | **SB7-14'** | EPA 3550C | 814045 | EPA 8270E by SIM | 814602 |
| **10607127001** | **SB6-9'** | 5035A | 1863556 | EPA 8260D | 1863556 |
| **10607127002** | **SB6-14'** | 5035A | 1863556 | EPA 8260D | 1863556 |
| **10607127003** | **SB7-9'** | 5035A | 1863556 | EPA 8260D | 1863556 |
| **10607127004** | **SB7-14'** | 5035A | 1863556 | EPA 8260D | 1863556 |
| **10607127005** | **GWR185-30'** | 5035A | 1863556 | EPA 8260D | 1863556 |
| **10607127005** | **GWR185-30'** | 5035A | 1863941 | EPA 8260D | 1863941 |
| **10607127006** | **GWR185-40'** | 5035A | 1865433 | EPA 8260D | 1865433 |
| **10607127001** | **SB6-9'** | SM 2540 G | 1863278 | SM 2540G | 1863278 |
| **10607127002** | **SB6-14'** | SM 2540 G | 1863278 | SM 2540G | 1863278 |
| **10607127003** | **SB7-9'** | SM 2540 G | 1863278 | SM 2540G | 1863278 |
| **10607127004** | **SB7-14'** | SM 2540 G | 1863278 | SM 2540G | 1863278 |
| **10607127005** | **GWR185-30'** | SM 2540 G | 1863278 | SM 2540G | 1863278 |
| **10607127006** | **GWR185-40'** | SM 2540 G | 1863279 | SM 2540G | 1863279 |

Pace Analytical
WWW.PACELABS.COM

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : | Of |

| Section A<br>Required Client Information: | Section B<br>Required Project Information: | Section C<br>Invoice Information: | |
|---|---|---|---|
| Company: Atlas | Report To: elisabeth.silver@oneatlas.com | Attention: Accounts Payable | |
| Address: 6347 Seaview Ave NW | Copy To: | Company Name: Atlas | |
| Seattle, WA 98107 | | Address: 6347 Seaview Ave NW, Seattle, WA 98107 | Regulatory Agency |
| Email: elisabeth.silver@oneatlas.com | Purchase Order #: | Pace Quote: | |
| Phone: Fax | Project Name: P66 Burien Data Gaps | Pace Project Manager: jennifer.gross@pacelabs.com, | State / Location |
| Requested Due Date: *Standard 10 day* | Project #: | Pace Profile #: *39765 / 8* | WA / Seattle |

| ITEM # | SAMPLE ID<br>One Character per box. (A-Z, 0-9 / , -)<br>Sample Ids must be unique | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | 8260D LL BTEX | 8260D LL EDB, EDC, MTBE | 8260D LL Naphthalene | 8260D LL Halogenated VOCs | NWTPH-Gx (Gasoline) | NWTPH-Dx (Diesel/Motor Oil) | 6010/7471 ~~MTCA 5~~ Lead | 8082 PCBs | 8270 cPAHSIM | Moisture/Dry Weight | Residual Chlorine (Y/N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SB6-9' | | | 05/3/22 | 1005 | | | | 8 | 2 | | | | | 2 | 4 | | | X | X | X | X | X | X | X | X | | 001 |
| 2 | SB6-14' | | | | 1015 | | | | 8 | 2 | | | | | 2 | 4 | | | X | X | X | X | X | X | X | X | | 002 |
| 3 | SB7-9' | | | | 1105 | | | | 8 | 2 | | | | | 2 | 4 | | | X | X | | X | X | X | | X | | 003 |
| 4 | SB7-14' | | | | 1110 | | | | 8 | 2 | | | | | 2 | 4 | | | X | X | | X | X | X | | X | | 004 |
| 5 | GWR185-30' | | | | 1435 | | | | | 1 | | | | | 2 | 4 | | | X | | | | X | | | | | 005 |
| 6 | GWR185-40' | | | ↓ | 1505 | | | | | 1 | | | | | 2 | 4 | | | X | | | | X | | | | | 006 |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

**WO# : 10607127**

10607127

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | B Goulet / Atlas | 05/3/22 | 1455 | [illegible] / AKE | 05/04/22 | 8:50 | 5.0 | Y | Y | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| SAMPLER NAME AND SIGNATURE | | | | | |
|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | B. Goulet | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| SIGNATURE of SAMPLER: | B Goulet | DATE Signed: 05-04-2022 | | | | |

| Pace Analytical Services | DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR) |
|---|---|
| | Effective Date: 04/12/2022 |

**Sample Condition Upon Receipt**

**Client Name:** Atlas

**Project #:**

**WO#: 10607127**

**PM: JMG** **Due Date: 05/19/22**

**CLIENT: ATC_WA**

**Courier:** ☑Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial

See Exceptions ☐ENV-FRM-MIN4-0142

**Tracking Number:** 5405 1015 9832

**Custody Seal on Cooler/Box Present?** ☑Yes ☐No **Seals Intact?** ☑Yes ☐No **Biological Tissue Frozen?** ☐Yes ☐No ☑N/A

**Packing Material:** ☐Bubble Wrap ☐Bubble Bags ☐None ☑Other: Ziplock **Temp Blank?** ☐Yes ☑No

**Thermometer:** ☐T1(0461) ☐T2(1336) ☐T3(0459) ☑T4(0254) ☐T5(0489) ☐T6(0235) ☐T7 (0042) ☐01339252/1710 ☐122639816 ☐140792808

**Type of Ice:** ☑Wet ☐Blue ☐None ☐Dry ☐Melted

**Did Samples Originate in West Virginia?** ☐Yes ☑No **Were All Container Temps Taken?** ☐Yes ☐No ☑N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** _____ °C

**Correction Factor:** True **Cooler Temp Corrected w/temp blank:** _____ °C

**Average Corrected Temp (no temp blank only):** 5.0 °C ☑See Exceptions ENV-FRM-MIN4-0142 ☐1 Container

**USDA Regulated Soil:** ( ☐ N/A, water sample/Other: _____ )

**Date/Initials of Person Examining Contents:** KN 05/09/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☑No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☑No

**If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.**

| **Location (check one):** ☐ Duluth ☑ Minneapolis ☐ Virginia | | | | **COMMENTS:** |
|---|---|---|---|---|
| Chain of Custody Present and Filled Out? | ☑Yes | ☐No | | 1. |
| Chain of Custody Relinquished? | ☑Yes | ☐No | | 2. |
| Sampler Name and/or Signature on COC? | ☑Yes | ☐No | ☐N/A | 3. |
| Samples Arrived within Hold Time? | ☑Yes | ☐No | | 4. If Fecal: ☐<8 hrs ☐>8hr, <24 hrs, ☐>24 hrs |
| **Short Hold Time Analysis (<72 hr)?** | ☐Yes | ☑No | | 5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____ |
| **Rush Turn Around Time Requested?** | ☐Yes | ☑No | | 6. |
| Sufficient Volume? | ☑Yes | ☐No | | 7. |
| Correct Containers Used? | ☑Yes | ☐No | | 8. |
| -Pace Containers Used? | ☐Yes | ☑No | | |
| Containers Intact? | ☑Yes | ☐No | | 9. |
| Field Filtered Volume Received for Dissolved Tests? | ☐Yes | ☐No | ☑N/A | 10. Is sediment visible in the dissolved container? ☐Yes ☐No |
| Is sufficient information available to reconcile the samples to the COC? Matrix: ☐Water ☑Soil ☐Oil ☐Other- | ☑Yes | ☐No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142** |
| All containers needing acid/base preservation have been checked? | ☐Yes | ☐No | ☑N/A | 12. Sample # |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide) | ☐Yes | ☐No | ☑N/A | ☐ NaOH ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ Zinc Acetate |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS | ☐Yes | ☐No | ☑N/A | Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142** |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Headspace in Methyl Mercury Container? | ☐Yes | ☐No | ☑N/A | |
| Extra labels present on soil VOA or WIDRO containers? | ☐Yes | ☑No | ☐N/A | 13. **See Exception** ☐ **ENV-FRM-MIN4-0140** |
| Headspace in VOA Vials (greater than 6mm)? | ☐Yes | ☐No | ☑N/A | |
| Trip Blank Present? | ☐Yes | ☐No | ☑N/A | 14. |
| Trip Blank Custody Seals Present? | ☐Yes | ☐No | ☑N/A | Pace Trip Blank Lot # (if purchased): _____ |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

**Project Manager Review:** Jenni Gross **Date:** 5/6/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: KN (2)

## SCUR Exceptions:

## Workorder #:

| Out of Temp Sample IDs | Container Type | # of Containers |
|---|---|---|
| | | |
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**PM Notified?** ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

**Multiple Cooler Project?** ☐Yes ☐No
**If you answered yes, fill out information to the left.**

| No Temp Blank | | |
|---|---|---|
| Read Temp | Corrected Temp | Average Temp |
| 4.2 | | 5.0 |
| 4.3 | TRUE | |
| 5.5 | | |
| 5.7 | | |

| Tracking Number/Temperature | |
|---|---|
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| Issue Type: Sample ID | Container Type | # of Containers |
|---|---|---|
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## pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preserv. | pH Upon Receipt | Date Adjusted | Time Adjusted | Amount Added (mL) | Lot # Added | pH After | In Compliance after addition? | Initials |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ☐Yes ☐No | |
| | | | | | | | | ☐Yes ☐No | |
| | | | | | | | | ☐Yes ☐No | |
| | | | | | | | | ☐Yes ☐No | |

**Comments:**

J099

# Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: WA
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 5/5/2022 Results Requested By: 5/19/2022

**Workorder:** 10607127 **Workorder Name:** P66 Burien Data Gaps

| Report To | Subcontract To |
|---|---|
| Jennifer Gross<br>Pace Analytical Minnesota<br>1700 Elm Street<br>Minneapolis, MN 55414<br>Phone (612)607-1700 | Pace National<br>12065 Lebanon Rd<br>Mt. Juliet, TN 37122<br>Phone (615) 758-5858 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: VG9B | VG9M | DW | | | | Requested Analysis: 8260D AP9 LL BTEX (PACE-TN) | 8260D AP9 LL BTEX+Naphthalene | 8260D AP9 LL VOCs (PACE-TN) | NWTPH-Gx (PACE-TN) | Total Solids (PACE-TN) | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SB6-9' | PS | 5/3/2022 10:05 | 10607127001 | Solid | 2 | 2 | 1 | | | | | | X | X | X | | | | | | | 1 |
| 2 | SB6-14' | PS | 5/3/2022 10:15 | 10607127002 | Solid | 2 | 2 | 1 | | | | | | X | X | X | | | | | | | 2 |
| 3 | SB7-9' | PS | 5/3/2022 11:05 | 10607127003 | Solid | 2 | 2 | 1 | | | | | X | | X | X | | | | | | | 3 |
| 4 | SB7-14' | PS | 5/3/2022 11:10 | 10607127004 | Solid | 2 | 2 | 1 | | | | | X | | X | X | | | | | | | 4 |
| 5 | GWR185-30' | PS | 5/3/2022 14:35 | 10607127005 | Solid | 2 | 2 | 1 | | | | X | | | X | X | | | | | | | 5 |
| 6 | GWR185-40' | PS | 5/3/2022 15:05 | 10607127006 | Solid | 2 | 2 | 1 | | | | X | | | X | X | | | | | | | 6 |

U491765

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | CSM/Pace | 5-9-22 15:05 | Veronica Estrada | 5/10/22 0945 |
| 2 | | | | |
| 3 | | | | |

**Comments:** 8260D AP9: Low level, use stir bars first

**Cooler Temperature on Receipt** °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

JAA7 4.9+0=4.9

Sample Receipt Checklist

| | | | |
|---|---|---|---|
| COC Seal Present/Intact: | Y N | If Applicable | |
| COC Signed/Accurate: | Y N | VOA Zero Headspace: | Y N |
| Bottles arrive intact: | Y N | Pres.Correct/Check: | Y N |
| Correct bottles used: | Y N | | |
| Sufficient volume sent: | Y N | | |
| RAD Screen <0.5 mR/hr: | Y N | | |

5466 8884 5501

# APPENDIX V
# INVESTIGATIVE DERIVED WASTE DISPOSAL DOCUMENTATION

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

490794

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|---|
| | WAVSQG | 2 | 888-785-7225 | 377938/D458199 |

**GENERATOR**

5. Generator's Name and Mailing Address

Phillips 66 No. 2701476 c/o ATC Group
6347 Seaview Ave NW
Seattle, WA 98107
Generator's Phone: 206-491-9754

Generator's Site Address (if different than mailing address)

Phillips 66 No. 2701476
12660 First Ave South
Seattle, WA 98168

6. Transporter 1 Company Name: Advanced Chemical Transport Inc./DBA ACTenviro — U.S. EPA ID Number: CAR000070540

7. Transporter 2 Company Name: NRC Environmental Services — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

Chemical Waste Management of the Northwest
17629 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone: 541-454-2030

U.S. EPA ID Number: CAR000030114 / ORD089452353

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non-RCRA/Non-DOT Regulated Material Liquid (GROUNDWATER) | 1 | DM | 230 | P | |
| 2. | Non-RCRA/Non-DOT Regulated Material Liquid (GROUNDWATER) | ϕ | DM | ϕ | P | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information

Project Number 377938 Document #: D458199

1) OR350714 PHC- 1x30
2) OR350714 PHC- —

WMXU 980719 md 9/21/22

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Elisabeth Silver for Phillips — Signature: [signature] — Month: 8 Day: 16 Year: 22

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MIKE KUIKEN — Signature: [signature] — Month: 9 Day: 2 Year: 22

Transporter 2 Printed/Typed Name: G Kelly — Signature: [signature] — Month: 9 Day: 7 Year: 22

**DESIGNATED FACILITY**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Dawn Dunlop — Signature: [signature] — Month: 9 Day: 16 Year: 22



MV

490794

**NON-HAZARDOUS WASTE MANIFEST**
**(Continuation Sheet)**

19. Generator ID Number: WAVSQG

20. Page: 2 of 2

21. Waste Tracking Number: 377938/D458199

22. Generator's Name
Phillips 66 No. 2701476
12660 First Ave South
Seattle, WA 98168

23. Transporter 3 Company Name: Union Pacific Railroad
U.S. EPA ID Number: NED001792910

24. Transporter _____ Company Name
U.S. EPA ID Number

GENERATOR

| | 25. Waste Shipping Name and Description | 26. Containers No. | 26. Containers Type | 27. Total Quantity | 28. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
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29. Special Handling Instructions and Additional Information

TRANSPORTOR

30. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: D. Mab Signature: D. Mab Month: 9 Day: 7 Year: 22

31. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

32. Discrepancy

Printed in USA by GC Labels, Inc.
1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# C6NHWCON
www.gclabels.com

**NON-HAZARDOUS WASTE MANIFEST**

| 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number |
|---|---|---|---|
| WAVSOG | 1 | 888-785-7225 | 356071/D441735 |

**GENERATOR**

5. Generator's Name and Mailing Address
Phillips 66 No. 2701476 c/o ATC Group
5347 Seaview Ave NW
Seattle, WA 98107
Generator's Phone: 206-491-9754

Generator's Site Address (if different than mailing address)
Phillips 66 No. 2701476
12660 First Ave South
Seattle, WA 98168

6. Transporter 1 Company Name
Advanced Chemical Transport Inc./DBA ACTenviro
U.S. EPA ID Number

7. Transporter 2 Company Name
R Transport, INC
U.S. EPA ID Number
CAR000070540

8. Designated Facility Name and Site Address
Columbia Ridge Landfill
18177 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone: 541-454-2030
U.S. EPA ID Number
WAH000028338
ORD987173457

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS) | 01 | CM | 12,000 | P | 55940 |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information
WHX000854440
Project Number 356071 Document #: D441735
1) 137856OR PHC-_____

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Elisabeth Silverthorn Signature: Elisabeth Silverthorn Month: 6 Day: 17 Year: 22

**INT'L**

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:
Transporter 2 Printed/Typed Name: Matt Clark Signature: Month: 6 Day: 9 Year: 22

**DESIGNATED FACILITY**

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Trans 3. UPRR Manifest Reference Number: 6/9/22
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Signature: Month: 6 Day: 15 Year: 22

DESIGNATED FACILITY TO GENERATOR