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August 1, 2019

Ms. Jing Song
Department of Ecology, Northwest Region
3190 160th Avenue SE
Bellevue, WA 98008

Re: Response to Ecology August 21, 2018 Opinion Letter
**Former ConocoPhillips Facility No. 255353 (AOC #1396)**
**600 Westlake Avenue North**
**Seattle, Washington**
Facility/Site ID No. 46445373
VCP Site No. NW1714
Project Number: Z076000073

Dear Ms. Song:

ATC Group Services LLC (ATC) has reviewed the Washington State Department of Ecology (Ecology) Opinion email, dated August 21, 2018, regarding the completed Remedial Investigation/Feasibility Study/Cleanup Action Plan (RI/FS/CAP), dated February 16, 2018, for the above-referenced site. We offer the following responses and clarifications on behalf of the Voluntary Cleanup Program (VCP) Customer, Phillips 66 (Phillips). Ecology refers to the block on which the former ConocoPhillips Facility No. 255353 (the Site) sits as Block 77. While others refer to it as Block 37, for the purposes of this letter, when necessary, we will refer to it as Block 77. ATC provides the following specific responses to the Italicized and bulleted items contained in the August 21, 2018 Ecology email:

*Analysis of the Cleanup*

*Characterization of the Site*.

Ecology has determined your **characterization of the Site is not sufficient to establish cleanup standards and select a cleanup action**. The Site is described above and in Enclosure A. Site characterization data gaps include:

1• The 2017 Remedial Investigation/Feasibility Study/Cleanup Action Plan (RI/FS/CAP) defined the Site as City Block 77 (Block 77) and surrounding City of Seattle rights-of-way (ROWs), including Westlake Avenue N, Mercer Street, Valley Street, and Terry Avenue N. However, **contaminants of concern (COCs) in soil in the ROWs are not sufficiently characterized; therefore, the horizontal and vertical extent of the Site is not fully delineated. Additional soil characterization and additional ground water monitoring wells along the ROWs are needed to fully define the**

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**horizontal extent of the Site boundary. Additional shallow and deep ground water monitoring wells at the Site are needed to fully define the vertical extent of the Site boundary**.

**Response:** ATC is currently comparing former site features to Ecology's cleanup requirements (per Table 830-1), and will identify any areas where data gaps exist. Once this activity is complete a Workplan will be prepared to address the identified data gaps.

2• **The deep water-bearing ground water zone has not been evaluated, with respect to ground water flow directions and concentrations of COCs**.

**Response:** Recent groundwater sampling at the Site by ATC did not indicate the presence of HVOCs in shallow groundwater. In addition, Farallon recently performed an assessment of shallow soil and groundwater at the Site and reported no evidence of a release of HVOCs to the shallow subsurface. As HVOCs are not present in shallow groundwater, it is ATCs technical opinion that these compounds presence in deep groundwater are understood to have migrated to the Site from the American Linen property to the west.

The compounds understood to be present in shallow soil and groundwater are those associated with the gasoline release from the former gas station on the SW corner of the SIte. As these are compounds which are lighter than water, a vertical delineation has not been conducted. However, if the data gaps evaluation indicates there may be incomplete vertical delineation of impacts related to the former Site, they will be included in the upcoming workplan, as noted above in our response to Ecology Comment 1.

Additionally, ATC understands that BMR Dexter is working on a full characterization of soil and groundwater for the American Linen Site that includes the Site. Farallon also has limited additional deep groundwater data for HVOCs that will help define the vertical extent of the potential impacts to deep groundwater at the Site.

3• Based on other data provided to Ecology, shallow ground water at the Site appears to be impacted by halogenic volatile organic compounds (HVOCs), including cis-1,2- dichloroethene (cis-l,2~DCE) and vinyl chloride (VC). The HVOC concentrations in the shallow water-bearing zone may be associated with the American Linen Supply Co Dexter Ave facility (American Linen), located approximately 700 feet west of the Site. The HVOC concentrations may also be associated with the possible solvents use during the historical operation of the automobile service and detailing businesses at the Site. **Additional ground water monitoring wells and ground water sampling are needed in both shallow and deep water-bearing zones to determine the horizontal and vertical extent of any HVOC contaminant plumes**.

ATC recently included cVOCs in its semi-annual groundwater sampling event. No cVOCs were detected in the groundwater samples. The data is included on the attached **laboratory report**.

Current shallow groundwater data collected at the Site by both ATC and Farallon indicate that there is no evidence of a release of CVOCs to the shallow subsurface beneath the Site.

However, ATC is currently comparing former Site features to Ecology's cleanup requirements (per Table 830-1), and will identify any areas where data gaps exist. If any data gaps are identified with

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regard to potential HVOC releases to shallow groundwater, they will be included in ATCs pending data gaps workplan.

*The soil and ground water at the Site has not been analyzed for all COCs.*

4• Multiple businesses historically operated at the Site, including a lumber mill, a brewery, a creamery, a railway, two retail gasoline service stations, multiple automobile service and detailing operations, and a restaurant. Multiple contamination sources associated with these businesses may have been present at the Site, including gasoline underground storage tanks (USTs), waste oil USTs, heating oil USTs, hydraulic hoists, use of solvents, and other chemical storage and use. In addition, because Block 77 is located in an urban and historically industrial area, the Site may be impacted by off-Site contamination sources that may have migrated to the Property.

5• Considering the past land uses on the Site and possible impacts from off-Site contamination sources, the COCs may include petroleum hydrocarbons, heavy metals, volatile organic compounds (VOCs) including HVOCs, and polycyclic aromatic hydrocarbons (PAHs) including cPAHs. A **majority of the soil and ground water samples collected at the Site were not analyzed for all possible COCs, especially HVOCs, cPAHs, and heavy metals. Additional soil and ground water characterization is needed for all possible COCs at the Site**.

**Response:** ATC is currently comparing former Union Oil Station Site features and activities to Ecology's cleanup requirements (per Table 830-1), and will identify areas where data gaps exist. If any data gaps are identified with regard to historical former Union Oil site uses, they will be included in ATCs pending data gaps workplan.

6• Due to the proximity of the Lake Union (approximately 200 feet north of the Site) and general northerly ground water flow direction, **the ground water to surface water pathway should be evaluated**.

The Historical Groundwater Monitoring and Sampling Table (**Table 1** – attached) has been revised to also include Surface Water Cleanup Levels. A comparison to the Surface Water Cleanup Levels indicates that no compounds currently exceed the surface water cleanup levels.

7o Monitoring well MW-213 located near the northwest boundary of the Site contained a benzene concentration above the MTCA Method A ground water cleanup level in December 2016 sampling event. **Additional ground water sampling at monitoring well MW-213 and monitoring wells north of well MW-213 is needed to ensure that surface water is not adversely impacted by the ground water at the Site**. Surface water cleanup levels may be appropriate for Site monitoring wells. Additional ground water monitoring wells near the northern Site boundary may be needed depending on the additional ground water monitoring results.

**Response:** ATC has added wells MW-213, MW-209 (located between well MW-213 and Lake Union), and other wells between the north end of the Site and Lake Union, to the semi-annual sampling program. Well locations are shown on the attached **Figure 1**. Groundwater sampling of these wells indicates that benzene has not been detected between the Site and Lake Union at concentrations above the laboratory reporting limit (**Table 1**).

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8• Multiple ground water monitoring wells at the Site have been decommissioned during construction or excavation, including multiple monitoring wells located in the ROWs that were decommissioned by City of Seattle. Please **provide a list of the monitoring wells that have been properly decommissioned in accordance with WAC 173-160-460, with the well decommissioning logs or reports**. Please contact Noel Philip at 425-649-7044 or noel.philip@ecv.wa.gov for monitoring well decommissioning requirements.

**Response:** Included with this letter is **Table 2** which shows the complete list of wells that have been properly decommissioned at the Site. The wells are also shown on **Figure 2**.

9• **Multiple ground water monitoring wells at the Site have been destroyed during construction or excavation. These monitoring wells need to be identified, located, and properly decommissioned in accordance with WAC 173-160-460**. For monitoring wells that cannot be located, please make a list and contact Noel Philip at 425-649-7044 or noel.philip@ecv.wa.gov for further action.

**Response:** Included with this letter is **Table 2** which shows the complete list of wells that have been destroyed during construction or excavation, that were installed as part of the former Union Oil Site investigations. The wells are also shown on **Figure 2**. Several of these wells were completely destroyed during excavation activities when the final excavation depth exceeded the total well depth. These wells are identified on the table. Wells that were improperly decommissioned are also identified.

10• The vapor intrusion pathway for the planned building has not been evaluated. **The vapor intrusion pathway should be evaluated based on the existing and newly collected soil and ground water characterization data**. The vapor intrusion pathway evaluation should be based on the following Ecology guidance documents:

**Response:** As the plans for the redevelopment of the property have not been finalized, we cannot evaluate the vapor intrusion pathway at this time. Once those plans become available, we will commence with the evaluation.

11• **Additional figures should be provided that are produced in a readable manner and to scale with the following information**:

12 o **Historical Site features**, including historical buildings, locations of USTs and hydraulic hoists associated with the two gasoline service stations, and locations of other potential contamination sources. Multiple figures may be used to provide Site features during different periods of time.

**Response:** Included with this letter is **Figure 3**, which shows historical site features, including historical buildings, locations of former USTs and hydraulic hoists associated with the two gasoline service stations, and locations of other potential contamination sources.

13o **Limits of the multiple soil excavations** conducted on Block 77 and the surrounding ROWs during UST removals, hydraulic hoists removals, remediation system trenching, building demolition, Phase I and Phase II of the Mercer Cleanup Projects (MCP), and other excavation activities.

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**Response:** Included with this letter is **Figure 4**, which shows the limits of the soil excavations conducted at the Site and the surrounding ROWs during UST removals, hydraulic hoists removals, remediation system trenching, building demolition, Phase I and Phase II of the MCP, and other excavation activities.

14o **Current soil conditions** with post-excavation sampling locations, sample depths, and concentrations for each COC, or detection limit, if not detected. (Color coding may be helpful to indicate contaminant concentrations that are above cleanup levels.

**Response:** Included with this letter is **Figure 5**, which show current soil conditions with post-excavation sampling locations, sample depths, and concentrations for each COC, or detection limit, if not detected.

15o **An additional cross-section passing the southeast portion of Block 77 and monitoring well MWR-5**. New and existing cross sections should include soil and ground water sampling locations, depths, and analytical results. Vertical scale on cross sections should reference mean sea level datum.

**Response:** As requested by Ecology, ATC has drafted **Figure 9**, which shows cross-section C-C' passing the southeast portion of Block 77 and monitoring well MWR-5. Additionally, ATC revised its previously drafted cross-sections A-A' and B-B' (**Figures 7 and 8**) which have been modified to include soil and groundwater sampling locations, depths, and analytical results. Vertical scale on ATCs cross sections references mean sea level datum. Transect locations are shown on **Figure 6**. Also included with this letter are previously drafted Delta cross-sections A'A' through D-D', and the associated transect map (**Attachment B**).

Should you require further information about the scheduled work, please do not hesitate to contact me at (206) 781-1449.

Sincerely,

**ATC Group Services LLC**

Elisabeth Silver, L.G.
Senior Project Manager

State of Washington
442
Licensed Geologist
Elisabeth S. Silver

cc: Mr. Ed Ralston, Program Manager, Phillips 66 Company (electronic mail only)

Enc:
Tables
Figures
Attachments

# Tables

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| **CI-1** | 03/08/07 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.30 | 0.00 | -- | 0.30 |
| | 06/13/07 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | 6.75 | <1 | -- | | | -- | 10.91 | 0.00 | -- | 0.42 |
| | 09/12/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.99 | 0.00 | -- | 0.82 |
| | 12/19/07 | <50 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | <1 | -- | | | -- | 10.31 | 0.00 | -- | -- |
| | 03/18/08 | **3,140** | <236 | <472 | **476** | 6.470 | 4.59 | 1.83 | 9.96 | <1 | <5 | <1 | | | <1 | 9.85 | 0.00 | -- | -- |
| | 05/09/08 | <50 | <0.238 | <0.476 | <0.238 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.26 | | | <1 | 12.76 | 0.00 | -- | -- |
| | 06/03/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 11.73 | 0.00 | -- | -- |
| 29.97 | 08/05/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 11.38 | 0.00 | 18.59 | -- |
| | 11/05/08 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <240 | 10.81 | 0.00 | 19.16 | -- |
| | 02/25/09 | <50.0 | <243 | <485 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <243 | 10.82 | 0.00 | 19.15 | -- |
| | 05/17/09 | <50.0 | <243 | <485 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <243 | 11.93 | 0.00 | 18.04 | |
| | 08/16/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | |
| | 11/17/09 | <50.0 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <1 | <1 | | | <240 | 9.67 | 0.00 | 20.3 | |
| | 02/22/10 | <50.0 | 357 | 422 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.2 | <0.10 | | | <77.7 | 8.38 | 0.00 | 21.59 | |
| | 05/24/10 | <50.0 | 432 | 400 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.19 | <0.10 | | | 205 | NM | 0.00 | NM | |
| | 08/17/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 2.0 | <0.10 | | | <77.7 | 9.88 | 0.00 | 20.09 | |
| | 11/15/10 | <50.0 | <76.9 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <76.9 | 8.88 | 0.00 | 21.09 | |
| | 02/27/11 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **CI-2** | 03/08/07 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.91 | 0.00 | -- | 0.35 |
| | 06/13/07 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.86 | 0.00 | -- | 0.61 |
| | 09/12/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.06 | 0.00 | -- | 0.68 |
| | 12/19/07 | <50 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | <1 | -- | | | -- | 10.07 | 0.00 | -- | -- |
| | 03/18/08 | **3,350** | <236 | <472 | **566** | 7.04 | 4.76 | 1.93 | 10.1 | <1 | <5 | <1 | | | <1 | 10.00 | 0.00 | -- | -- |
| | 05/09/08 | <50 | <0.238 | <0.476 | <0.238 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.26 | | | <1 | 10.68 | 0.00 | -- | -- |
| | 06/03/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **9.22** | <1 | | | <236 | 9.96 | 0.00 | -- | -- |
| 28.98 | 08/05/08 | <50 | <236 | <472 | 0.52 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 10.13 | 0.00 | 18.85 | -- |
| | 11/05/08 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <240 | 9.74 | 0.00 | 19.24 | -- |
| | 02/25/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <240 | 9.90 | 0.00 | 19.08 | -- |
| | 05/17/09 | <50.0 | <238 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | 1.72 | <1.00 | | | <238 | 11.37 | 0.00 | 17.61 | |
| | 08/17/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | |
| | 11/17/09 | <50.0 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | 1.4 | <1 | | | <240 | 9.58 | 0.00 | 19.40 | |
| | 02/22/10 | <50.0 | **507** | **559** | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.72 | <0.10 | | | <77.7 | 8.82 | 0.00 | 20.16 | |
| | 05/24/10 | <50.0 | **712** | **643** | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 2.2 | <0.10 | | | 313 | 9.17 | 0.00 | 19.81 | |
| | 08/17/10 | <50.0 | <76.9 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.7 | <0.10 | | | <76.9 | 9.65 | 0.00 | 19.33 | |
| | 11/15/10 | <50.0 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <78.4 | 8.90 | 0.00 | 20.08 | |
| | 02/27/11 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **CI-3** | 03/08/07 | <50 | <255 | **<510** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.46 | 0.00 | -- | 0.53 |
| | 06/13/07 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.43 | 0.00 | -- | 0.51 |
| | 09/12/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.28 | 0.00 | -- | 0.76 |
| | 12/19/07 | **3,570** | <236 | <472 | **16.000** | 5.2 | 5.7 | 8.9 | <1 | <1 | <1 | -- | | | -- | 8.58 | 0.00 | -- | -- |
| | 03/18/08 | **3,340** | <236 | <472 | **555** | 6.86 | 4.78 | 1.90 | 10.1 | <1 | <5 | <1 | | | <1 | 10.54 | 0.00 | | -- |
| | 05/09/08 | <50 | <0.238 | <0.476 | <0.238 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.26 | | | <1 | 8.45 | 0.00 | | -- |
| | 06/03/08 | Construction equipment over well, unable to sample | | | | | | | | | | | | | | -- | -- | -- | -- |
| 29.04 | 08/05/08 | **2,410** | | | **19.6** | 6.47 | 7.71 | 10.4 | <1 | <5 | | | | | | 9.72 | 0.00 | 19.32 | -- |
| | | Well located on Propel Station property, unable to sample. | | | | | | | | | | | | | | | | | -- |
| **MW-3** | 02/14/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.77 | Trace | 9.61 | -- |
| 19.38 | 05/15/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.36 | 0.00 | 10.02 | -- |
| | 07/20/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/14/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.04 | Trace | 10.34 | -- |
| | 10/27/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.30 | 0.00 | 10.08 | -- |
| | 02/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 05/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.13 | 0.00 | 10.25 | -- |
| | 06/15/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/07/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.99 | 0.00 | 10.39 | -- |
| | 10/10/01 | **14,100** | **4,060** | **1,990** | **1,070** | <25 | **1,040** | 292 | -- | -- | -- | -- | | | -- | 10.11 | 0.00 | 9.27 | -- |
| | 12/28/01 | **3,340** | **1,810** | <500 | **92.6** | 4.62 | 146 | 51.2 | -- | -- | -- | -- | | | -- | 9.61 | 0.00 | 9.77 | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02[c] | **10,500** | **1,820** | <500 | **326** | 14.0 | 685 | 447 | -- | -- | -- | -- | | | -- | 10.96 | 0.00 | 8.42 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | **17,200** | **1,440** | **<595** | **86.6** | 38.1 | 434 | 798 | -- | -- | -- | -- | | | -- | 7.87 | 0.00 | 11.51 | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 01/14/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/30/04 | **3,040** | **1,950** | <285 | **57.1** | <5 | 24.3 | 23.57 | -- | -- | -- | -- | | | -- | 9.90 | 0.00 | 9.48 | 0.79 |
| | 06/22/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/29/04 | Paved over with concrete | | | | | | | | | | | | | | | | | -- |
| **MW-3A** | 03/17/05 | **1,610** | <251 | **<502** | 2.54 | 1.23 | 30.9 | 156.8 | -- | -- | -- | -- | | | -- | 11.00 | 0.00 | -- | 0.70 |
| 29.09 | 06/01/05 | **1,030[j]** | <241[j] | <483 | **5.21** | <1 | 27.8 | 66.0 | <1 | -- | -- | -- | | | -- | 10.29 | 0.00 | -- | 1.10 |
| | 07/25/05 | 702 | <250 | <500 | 4.60 | 0.860 | 23.0 | 47.1 | 1.06 | 2.16 | -- | -- | | | -- | 10.56 | 0.00 | -- | 3.20 |
| | 11/07/05 | 647 | <243 | <485 | 4.77 | 0.890 | 35.2 | 33.8 | <1 | -- | -- | -- | | | -- | 10.22 | 0.00 | 18.87 | NM [o] |
| | 02/23/06 | 759 | 1.12 | <0.5 | 4.14 | 0.740 | 51.3 | 38.9 | <1 | 5.83 | **4.10** | -- | | | -- | 10.37 | 0.00 | 18.72 | -- |
| | 05/10/06 | 654 | <260 | **<521** | 3.60 | 1.35 | 51.2 | 57.5 | <1 | 13.3 | **9.14** | -- | | | -- | 10.53 | 0.00 | 18.56 | 0.78 |
| | 08/30/06 | 160 | <236 | <472 | 0.550 | 0.580 | 8.93 | 3.45 | <1 | 7.03 | **11.6** | -- | | | -- | 11.35 | 0.00 | 17.74 | 2.52 |
| | 12/12/06 | 610 | <243 | <485 | 0.930 | 0.700 | 13.3 | 14.3 | <1 | 12.3 | **9.05** | -- | | | -- | 10.39 | 0.00 | 18.70 | 0.19 |
| | 03/06/07 | <50 | <236 | <472 | <0.5 | <5 | <5 | <3.00 | <1 | <5 | 2.36 | -- | | | -- | 10.18 | 0.00 | 18.91 | 0.23 |
| | 06/15/07 | <50 | <250 | <500 [r] | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 10.51 | 0.00 | 18.58 | 1.08 |
| | 09/14/07 | 79.4 | <250 | <500 | <0.5 | <0.5 | 2.56 | 4.82 | <1 | <5 | **2.86** | -- | | | -- | 7.71 | 0.00 | 21.38 | 0.32 |
| | 12/19/07 | <50 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | **3.43** | -- | | | -- | 8.71 | 0.00 | 20.38 | -- |
| | 03/17/08 | Inaccessible in dumpster area | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/01/08 | Covered/buried in garbage enclosure, unable to sample | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/04/08 | Covered/buried in garbage enclosure, unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/04/08 | Covered/buried in garbage enclosure, unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-8** | 07/26/05 | **81,600** | **641** | <500 | **4,700** | **5,280** | **4,270** | **15,450** | <1 | **1,010** | -- | -- | | | -- | 9.96 | 0.00 | -- | 0.30 |
| 28.82 | 11/02/05 | **41,000** | **506 [g]** | <485 | **4,540** | 955 | **3,240** | **12,000** | <1 | -- | -- | -- | | | -- | 10.04 | 0.00 | 18.78 | 1.40 |
| | 02/22/06 | **72,800** | **623[g]** | <490 | **2,760** | **6,240** | **3,020** | **13,400** | **<1,000[q,r]** | **1,040** | **21.8** | -- | | | -- | 9.61 | 0.00 | 19.21 | -- |
| | 05/09/06 | **87,600** | **1,140** | <485 | **2,940** | **6,510** | **3,470** | **13,870** | **<200** | **834** | **22.5** | -- | | | -- | 9.81 | 0.00 | 19.01 | 0.42 |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-13** | 02/14/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.87 | 0.00 | 9.86 | -- |
| 21.73 | 05/15/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.43 | 0.00 | 10.30 | -- |
| | 07/20/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/14/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.10 | 0.00 | 10.63 | -- |
| | 10/27/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.36 | 0.03 | 10.39 | -- |
| | 02/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.97 | 0.00 | 10.76 | -- |
| | 05/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.13 | 0.00 | 10.60 | -- |
| | 06/15/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/07/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.11 | 0.00 | 10.62 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| | 06/16/05 | **1,820** | **880[f]** | **1,100[f]** | 2.91 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 11.86 | 0.00 | 9.87 | 1.30 |
| | 07/26/05 | Not sampled - well did not recharge after purging dry | | | | | | | | | | | | | | 12.06 | 0.00 | -- | 1.40 |
| | 11/01/05 | 125 | <238 | <476 | 1.19 | <0.5 | <0.5 | <1 | <2 | -- | -- | -- | | | -- | 12.16 | 0.00 | -12.16 | NM [o] |
| 30.88 | 02/22/06 | 227 | <272 | **<543** | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | **11.9** | -- | | | -- | -- | -- | -- | -- |
| **MW-13** | 05/08/06 | 236 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | **38.2** | -- | | | -- | 12.08 | 0.00 | -12.08 | 1.69 |
| Conted. | 08/31/06 | <100 | <243 | <485 | 1.24 | <0.5 | 7.64 | 6.68 | <1 | 6.00 | **48.9** | -- | | | -- | 12.62 | 0.00 | -12.62 | 0.47 |
| | 09/25/06 | Destroyed during utility construction activities | | | | | | | | | | | | | | | | | -- |
| **MW-14** | 02/14/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.65 | 0.00 | 9.63 | -- |
| 19.28 | 05/15/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.95 | 0.00 | 10.33 | -- |
| | 07/20/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/14/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.95 | 0.00 | 10.33 | -- |
| | 10/27/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.16 | 0.00 | 10.12 | -- |
| | 02/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.15 | 0.00 | 10.13 | -- |
| | 05/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.99 | 0.00 | 10.29 | -- |
| | 06/15/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/07/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.04 | 0.00 | 10.24 | -- |
| | 06/02/05 | Unable to collect sample | | | | | | | | | | | | | | 8.35 | 0.00 | 10.93 | 1.40 |
| | 06/16/05 | Not enough water in well to sample | | | | | | | | | | | | | | 8.60 | 0.00 | 10.68 | -- |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-15** | 02/14/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.62 | 0.00 | 9.86 | -- |
| 20.48 | 05/15/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.18 | 0.00 | 10.30 | -- |
| | 07/20/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/14/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.96 | 0.00 | 10.52 | -- |
| | 10/27/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.28 | 0.00 | 10.20 | -- |
| | 02/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.17 | 0.00 | 10.31 | -- |
| | 05/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.18 | 0.00 | 10.30 | -- |
| | 06/15/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/07/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.13 | 0.00 | 10.35 | -- |
| | 06/02/05 | Well casing is broken - unable to gauge or sample | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-16** | 02/14/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.15 | 0.00 | 10.04 | -- |
| 21.19 | 05/15/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.76 | 0.00 | 10.43 | -- |
| | 07/20/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/14/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.54 | 0.00 | 10.65 | -- |
| | 10/27/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.80 | 0.00 | 10.39 | -- |
| | 02/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.60 | 0.00 | 10.59 | -- |
| | 05/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.59 | 0.00 | 10.60 | -- |
| | 06/15/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/07/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.58 | 0.00 | 10.61 | -- |
| | 06/02/05 | Unable to collect sample | | | | | | | | | | | | | | 10.95 | 0.00 | 10.24 | 1.00 |
| | 06/16/05 | <500 | **4,000[h,t]** | **16,000[t]** | -- | 135 | <5 | <5 | <10 | <5 | -- | -- | | | -- | 10.86 | 0.00 | 10.33 | 0.60 |
| | 07/26/05 | 358 | **8,320[c]** | **20,700** | -- | 42.6 | 0.340 | <0.2 | 1.25 | <1 | <0.5 | -- | | | -- | 11.08 | 0.00 | -- | 0.30 |
| 30.26 | 11/01/05 | <50 | <236 | <472 | -- | 8.00 | <0.5 | 0.600 | <1.00 | <2 | -- | -- | | | -- | 11.10 | 0.00 | 19.16 | NM [o] |
| | 02/21/06 | 137 | <278 | **1,080** | -- | 4.09 | <0.5 | <0.5 | <3.00 | <1 | <1 | **157** | | | -- | 10.84 | 0.00 | 19.42 | -- |
| | 05/09/06 | 98.4 | <238 | <476 | -- | 2.43 | <0.5 | <0.5 | <3.00 | <1 | <1 | **4.33** | | | -- | 11.12 | 0.00 | 19.14 | 0.40 |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-17** | 02/14/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.56 | 0.07 | 9.77 | -- |
| 21.28 | 05/15/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.22 | 0.04 | 10.09 | -- |
| | 07/20/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/14/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.75 | 0.00 | 10.53 | -- |
| | 10/27/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.22 | 0.00 | 10.06 | -- |
| | 02/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.71 | 0.00 | 10.57 | -- |
| | 05/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.90 | 0.00 | 10.38 | -- |
| | 06/15/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/07/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.78 | 0.00 | 10.50 | -- |
| | 06/02/05 | Well obstructed with soil at 2.2 feet below top of casing | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-18** | 02/14/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.11 | 0.00 | 9.98 | -- |
| 21.09 | 05/15/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.78 | 0.06 | 10.36 | -- |
| | 07/20/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/14/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.20 | 0.00 | 10.89 | -- |
| | 10/27/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.83 | 0.00 | 10.26 | -- |
| | 02/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.42 | Trace | 10.67 | -- |
| | 05/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.61 | 0.00 | 10.48 | -- |
| | 06/15/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/07/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.36 | 0.00 | 10.73 | -- |
| | 06/02/05 | **6,600** | **18,000[f,t]** | **28,800[t]** | **403** | 434 | 91.9 | 779 | <1 | -- | -- | -- | | | -- | 10.83 | 0.00 | 10.26 | 1.10 |
| | 07/26/05 | **1,400** | **6,930** | **13,200** | **35.2** | 3.98 | 6.23 | 33.4 | <1 | 30.9 | -- | -- | | | -- | 11.19 | 0.00 | -- | 0.90 |
| 30.08 | 11/07/05 | **2,660** | 271[f] | **<505** | **84.4** | 28.2 | 28.7 | 314 | <4 | -- | -- | -- | | | -- | 11.37 | 0.00 | 18.71 | 2.20 |
| | 02/22/06 | **10,800** | **2,090[p]** | **<505** | **345** | 217 | 56.4 | 697 | <20.0[q] | 80.2 | **386** | -- | | | -- | 10.60 | 0.00 | 19.48 | -- |
| | 05/10/06 | **1,450** | 269[p] | <481 | **102** | 5.32 | 19.0 | 57.4 | <4 | 122 | **64.8** | -- | | | -- | 11.85 | 0.00 | 18.23 | 0.23 |
| | 08/29/06 | **1,250** | 377[p] | **1,030** | **298** | 7.42 | 13.5 | 72.2 | <1 | 107 | **1,360** | -- | | | -- | 11.65 | 0.00 | 18.43 | 0.98 |
| | 12/12/06 | **4,360** | **856** | **1,800** | **301** | 28.7 | 44.9 | 281 | <1 | 69.2 | **70.2** | -- | | | -- | 10.68 | 0.00 | 19.40 | 0.72 |
| | 03/06/07 | **856** | <266 | **<532** | **140** | 5.00 | 7.20 | 67.1 | <10 | <50 | **15.3** | -- | | | -- | 11.14 | 0.00 | 18.94 | 1.78 |
| | 06/14/07 | 330 | <236 | <472 | **8.67** | 0.72 | 2.02 | 4.84 | <1 | 44.9 | **73.4** | -- | | | -- | 11.24 | 0.00 | 18.84 | 0.28 |
| | 09/14/07 | 458 | <243 | <485 | **15.6** | 16.3 | 3.23 | 6.46 | <1 | 16.4 | **226.0** | -- | | | -- | 11.62 | 0.00 | 18.46 | -0.01 |
| | 12/17/07 | Well compromised, unable to sample | | | | | | | | | | | | | | -- | -- | -- | |
| | 03/17/08 | Well compromised, unable to sample | | | | | | | | | | | | | | -- | -- | -- | |
| | 06/01/08 | Well compromised, unable to sample | | | | | | | | | | | | | | -- | -- | -- | |
| | 08/10/08 | Well contaminated with surface mud, unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/02/08 | Well contaminated with surface mud, unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 05/17/09 | **3,370** | **1,220** | **4,320** | **281** | 3.95 | 29.4 | 258 | <1.0 | 62.6 | **93.1** | **4.77** | | | **695** | 11.65 | 0.00 | 18.43 | |
| | 08/16/09 | 690 | **910** | **2,200** | **120** | 0.77 | 3.1 | 28 | <1.0 | 42 | **1,100** | <5.0 | | | **800** | 13.45 | 0.00 | 16.63 | |
| | 11/15/09 | **2,300** | **760[y]** | **1,200** | **470[H]** | 1.3 | 40 | 180 | <1.0 | 61 | **57** | <1.0 | | | **800[y]** | 11.63 | 0.00 | 18.45 | |
| | 02/21/10 | **18,400** | **3,440** | **2,900** | **768** | 289 | 274 | **3,280** | -- | 123 | **33.8** | 0.38 | | | **6,210** | 10.53 | 0.00 | 19.55 | |
| | 05/23/10 | **9,700** | **2,870** | **2,330** | **819** | 109 | 174 | **2840** | **--** | 128 | **39.2** | 0.26 | | | **3,930** | 10.89 | 0.00 | 19.19 | |
| | 08/15/10 | **9,200** | 461 | **891** | **789** | 129 | 115 | **2240** | **--** | 104 | **40.4** | **3.30** | | | **1,480** | 11.15 | 0.00 | 18.93 | |
| | 11/14/10 | **16,600** | 598 | **936** | **1180** | 158 | 343 | **4390** | **--** | 146 | **23.7** | <10.0 | | | **3,900** | 10.33 | 0.00 | 19.75 | |
| | 02/27/11 | Well compromised, unable to sample | | | | | | | | | | | | | | -- | -- | -- | |
| | 06/14/11 | Not Sampled | | | | | | | | | | | | | | | | | |
| | 08/29/11 | Not Sampled | | | | | | | | | | | | | | | | | |
| **MW-19** | 02/14/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.24 | 0.23 | 9.91 | -- |
| 20.97 | 05/15/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.07 | 0.44 | 10.25 | -- |
| | 07/20/88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/14/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.78 | 0.57 | 10.65 | -- |
| | 10/27/89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.96 | Trace | 10.01 | -- |
| | 02/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.04 | Trace | 9.93 | -- |
| | 05/01/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.76 | 0.43 | 10.55 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 06/15/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.70 | 0.47 | 10.65 | -- |
| | 12/07/90 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.19 | 0.00 | 10.78 | -- |
| | 06/02/05 | Unable to collect sample | | | | | | | | | | | | | | 10.95 | 0.00 | 10.02 | 1.30 |
| | 06/16/05 | **117,000** | **31,000[t,j]** | **<12,000[l]** | **391** | 380 | 121 | **21,960** | **<50** | -- | -- | -- | | | -- | 10.92 | 0.00 | 10.05 | 1.20 |
| | 07/26/05 | **96,400** | **4,050[d]** | **2,340** | **201** | 229 | <20 | **16,590** | <1 | **805** | -- | -- | | | -- | 12.14 | 0.00 | -- | 4.90 |
| 29.93 | 11/07/05 | **72,000** | **4,070 [f]** | **<990** | **436** | 520 | 504 | **13,700** | **<40** | -- | -- | -- | | | -- | 11.00 | 0.00 | 18.93 | NM [o] |
| **MW-19** | 02/22/06 | **18,900** | **13,900[g,p]** | **<5,210** | **288** | 33.8 | 146 | **1,760** | <20.0[q] | **491** | **81.0** | -- | | | -- | 10.69 | 0.00 | 19.24 | -- |
| Cont | 05/10/06 | **45,900** | **5,520** | **<1,000** | **373** | 171 | 164 | **8,760** | **<100** | **1,700** | **64.8** | -- | | | -- | 11.09 | 0.00 | 18.84 | 0.92 |
| | 08/29/06 | **3,530** | **1,220[p]** | <495 | **156** | 72.4 | 66.1 | **1,020** | <10 | **251** | **20.9** | -- | | | -- | 11.71 | 0.00 | 18.22 | 0.26 |
| | 12/12/06 | **68,400** | **2,720** | <481 | **688** | 731 | 286.0 | **10,700** | <1 | **452** | **78.6** | -- | | | -- | 10.92 | 0.00 | 19.01 | 0.21 |
| | 03/06/07 | **47,800** | **2,330** | <495 | **560** | 192 | 480 | **12,000** | 10 | **873** | **40.4** | -- | | | -- | 10.80 | 0.00 | 19.13 | 0.53 |
| | 06/14/07 | **28,100** | **8140 [g]** | <481 | **279** | 130 | 96.9 | **4,860** | <1 | **308** | **53.4** | -- | | | -- | 10.96 | 0.00 | 18.97 | 0.47 |
| | 09/14/07 | **22,300** | **1,530** | **1,050** | **98.4** | 27.8 | 128 | **2,710** | <1 | **511** | **34.0** | -- | | | -- | 11.22 | 0.00 | 18.71 | 0.15 |
| | 12/17/07 | Well compromised, unable to sample | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/18/08 | **32,400** | -- | -- | -- | 218 | 89.1 | 127 | **4,650** | <1 | **304** | **72.7** | | | 25 | 10.81 | | 19.12 | -- |
| | 06/01/08 | **22,400** | **822** | **<758** | **202.00** | 18.6 | 140 | **3,280** | <1 | **337** | **--** | **19.40** | | | **5,010** | 8.25 | 0.00 | 21.68 | -- |
| | 08/10/08 | **26,800** | | | **180** | 34.8 | 140 | **2,390** | <20 | **210** | **30.20** | **25.50** | | | | 12.05 | 0.00 | 17.88 | -- |
| | 11/02/08 | **19,700** | <245 | <490 | **78.6** | 14.5 | 90.4 | **2,610** | <1.00 | **<200** | **25.80** | **8.22** | | | 549 | 11.62 | 0.00 | 18.31 | -- |
| | 02/22/09 | **50,700** | **4,440** | <481 | **470.0** | 33.7 | 280 | **7,900** | -- | 83.5 | **24.80** | **5.45** | | | **19,500** | 10.50 | 0.00 | 19.43 | -- |
| | 05/17/09 | **61,200** | **2,140** | <485 | **202.0** | 37.6 | 343 | **12,300** | <1.00 | 63.7 | **28.30** | 1.41 | | | **20,900** | 11.43 | 0.00 | 18.50 | |
| | 08/16/09 | Insufficient volume of water to fill sample containers. | | | | | | | | | | | | | | 13.90 | 0.00 | 16.03 | |
| | 11/15/09 | **53,000** | **12,000[r]** | <490 | **530[H]** | 10 | 490[H] | **8,500[H]** | <1.0 | **950[H]** | **41** | 1.4 | | | **21,000[r]** | 11.20 | 0.00 | 18.73 | |
| | 02/21/10 | **46,400** | **7,090** | **1,660** | **319** | 7.7 | 688 | **7,820** | -- | **517** | **9.5** | 0.33 | | | **21,300** | 10.44 | 0.00 | 19.49 | |
| | 05/23/10 | **44,400** | **7,100** | **2,010** | **312** | 5.8 | 687 | **6,990** | -- | **543** | **9** | 0.3 | | | **21,400** | 10.98 | 0.00 | 18.95 | |
| | 08/15/10 | **33,500** | **2,470** | **954** | **293** | 4.9 | 354 | **4,950** | -- | 67.7 | **20.9** | 1.8 | | | **12,200** | 11.14 | 0.00 | 18.79 | |
| | 11/14/10 | **29,500** | **1,640** | <388 | **436** | 9.5 | 496 | **4,190** | -- | **432** | <10.0 | <10.0 | | | **12,000** | 10.27 | 0.00 | 19.66 | |
| | 02/27/11 | Well compromised, unable to sample | | | | | | | | | | | | | | -- | -- | -- | |
| | 08/29/11 | Not Sampled | | | | | | | | | | | | | | | | | |
| | 06/14/11 | Not Sampled | | | | | | | | | | | | | | | | | |
| **MW-24** | 02/14/88 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| 21.49 | 05/15/88 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| | 07/20/88 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| | 04/14/89 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.71 | 0.00 | 10.78 | -- |
| | 10/27/89 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| | 02/01/90 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| | 05/01/90 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.36 | 0.66 | 10.66 | -- |
| | 06/15/90 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/07/90 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| | 06/02/05 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| | 06/16/05 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| **MW-27[a]** | 06/16/05 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | Dry | -- | -- | -- |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-32A** | 11/04/91 | **52,000** | **<1,000** | -- | | **10,000** | **10,000** | **2,000** | **10,000** | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 20.70 | 12/29/93 | **19,000** | **2,900** | **1,300** | | **6,300** | **990** | 940 | **1,700** | -- | -- | -- | | | -- | 10.73 | 0.00 | 9.97 | -- |
| | 04/07/94 | **11,000** | **2,100** | **1,300** | | **3,900** | 150 | 490 | **590** | -- | -- | -- | | | -- | 10.65 | 0.00 | 10.05 | -- |
| | 07/14/94 | **9,900** | **1,700** | **1,500** | | **5,600** | 54 | 530 | **500** | -- | -- | -- | | | -- | 10.72 | 0.00 | 9.98 | -- |
| | 10/25/94 | **19,000** | **1,100** | **1,000** | | **4,600** | **2,300** | 560 | **2,300** | -- | -- | -- | | | -- | 11.46 | 0.00 | 9.24 | -- |
| | 03/08/95 | **21,000** | **2,300** | **2,300** | | **5,800** | **1,700** | 990 | **2,900** | -- | -- | -- | | | -- | 11.29 | 0.00 | 9.41 | -- |
| | 06/06/95 | **--** | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/95 | **20,000** | **2,500** | **1,600** | | **4,200** | 470 | 730 | **2,000** | -- | -- | -- | | | -- | 11.27 | -- | 9.43 | -- |
| | 12/08/95 | **11,000** | **1,200** | **<750** | | **1,600** | 86 | 420 | **910** | -- | -- | -- | | | -- | 10.61 | -- | 10.09 | -- |
| | 04/01/96 | **7,900** | **1,400** | **1,000** | | **2,200** | 58 | 300 | **490** | -- | -- | -- | | | -- | 10.90 | -- | 9.80 | -- |
| | 06/25/96 | **7,500** | **1,250** | **<750** | | **1,200** | 60.4 | 217 | **435** | -- | -- | -- | | | -- | 10.98 | -- | 9.72 | -- |
| | 09/27/96 | **7,050** | **1,040** | **<750** | | **1,570** | 37.4 | 264 | **416** | -- | -- | -- | | | -- | 11.37 | -- | 9.33 | -- |
| | 03/28/97 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.26 | -- | 9.44 | -- |
| | 06/30/97 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.89 | -- | 9.81 | -- |
| | 09/08/97 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.67 | 0.00 | 9.03 | -- |
| | 12/19/97 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.42 | 0.00 | 9.28 | -- |
| | 03/16/98 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.30 | 0.00 | 9.40 | -- |
| | 06/26/98 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.29 | 0.00 | 9.41 | -- |
| | 09/23/98 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.97 | 0.00 | 8.73 | -- |
| | 12/17/98 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.09 | 0.00 | 9.61 | -- |
| | 03/31/99 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.47 | 0.00 | 10.23 | -- |
| | 06/30/99 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.60 | 0.00 | 11.10 | -- |
| | 12/08/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.07 | 0.00 | 9.63 | -- |
| | 06/20/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.40 | 0.00 | 9.30 | -- |
| | 12/19/00[b] | **7,010** | **1,740** | **<750** | **4,430** | 136 | 438 | 182 | -- | -- | -- | -- | | | -- | 10.90 | 0.00 | 9.80 | -- |
| | 06/15/01[b] | **13,700** | **2,810** | **<846** | **2,370** | 11.2 | 272 | 31.1 | -- | -- | -- | -- | | | -- | 11.31 | 0.00 | 9.39 | -- |
| | 06/26/01[b] | **15,500** | **1,620** | **<750** | **8,780** | **1,110** | **1,230** | **1,020** | -- | -- | -- | -- | | | -- | 11.85 | 0.00 | 8.85 | -- |
| | 09/07/01[b] | **17,100** | **4,220** | **822** | **5,870** | 19.9 | 684 | 110 | -- | -- | -- | -- | | | -- | 10.81 | 0.00 | 9.89 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | **12,200** | **4,260** | **711** | **3,570** | 180 | 537 | 393 | -- | -- | -- | -- | | | -- | 11.29 | 0.00 | 9.41 | -- |
| | 03/08/02 | **16,400** | **4,140** | **769** | **4,900** | 142 | 619 | 247 | -- | -- | -- | -- | | | -- | 11.49 | 0.00 | 9.21 | -- |
| | 06/24/02 | **6,850** | **2,040** | **577** | **2,820** | 7.43 | 221 | 59.1 | -- | -- | -- | -- | | | -- | 11.56 | 0.00 | 9.14 | -- |
| | 09/26/02[c] | **6,580** | **3,740** | **670** | **1,930** | 31.4 | 204 | 89.7 | -- | -- | -- | -- | | | -- | 12.88 | 0.00 | 7.82 | -- |
| **MW-32A** | 12/12/02 | **6,750** | **3,530** | **528** | **1,450** | 55.6 | 229 | 283 | -- | -- | -- | -- | | | -- | 12.72 | 0.00 | 7.98 | -- |
| | 03/13/03 | **13,000** | **2,550** | **<581** | **1,990** | 222 | 419 | 806 | -- | -- | -- | -- | | | -- | 10.95 | 0.00 | 9.75 | -- |
| | 06/12/03 | **17,400** | **2,730** | <500 | **4,830** | 200 | **745** | 262 | -- | -- | -- | -- | | | -- | 11.92 | 0.00 | 8.78 | -- |
| | 09/19/03 | **1,420** | <294 | **<588** | **64.2** | 42.7 | 7.49 | 135 | -- | -- | -- | -- | | | -- | 12.67 | 0.00 | 8.03 | -- |
| | 01/14/04 | **1,580** | 316 | <253 | **28.9** | 4.13 | 13.1 | 32.5 | -- | -- | -- | -- | | | -- | 11.33 | 0.00 | 9.37 | 3.10 |
| | 03/30/04 | **7,310** | **838** | <276 | **18.3** | <10 | 209 | 122 | -- | -- | -- | -- | | | -- | 12.39 | 0.00 | 8.31 | 2.43 |
| | 06/22/04 | **3,330** | **1,470** | 381 | **149** | <10 | 72.5 | 43.8 | -- | -- | -- | -- | | | -- | 12.62 | 0.00 | 8.08 | 0.50 |
| | 09/29/04 | 330 | <242 | <484 | **13** | 1.6 | 3.7 | 39 | -- | -- | -- | -- | | | -- | 9.20 | 0.00 | 11.50 | 6.10 |
| | 12/29/04 | **1,500** | **592** | <478 | **71** | <5 | 30.9 | 31.2 | -- | -- | -- | -- | | | -- | 12.24 | 0.00 | 8.46 | 1.00 |
| | 03/17/05 | <100 | <239 | <478 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 12.31 | 0.00 | 8.39 | 0.90 |
| | 06/01/05 | 205 | <237 | <473 | **13.2** | <1 | 5.55 | 6.16 | <1 | -- | -- | -- | | | -- | 11.76 | 0.00 | 8.94 | 2.60 |
| | 07/25/05 | 277 | <250 | <500 | **11.2** | 0.270 | 7.04 | 2.83 | <1 | 2.28 | -- | -- | | | -- | 12.17 | 0.00 | -- | 2.20 |
| 30.14 | 11/08/05 | 217 | <250 | <500 | **6.84** | 0.810 | 0.660 | <3.00 | <1 | -- | -- | -- | | | -- | 11.69 | 0.00 | 18.45 | 1.80 |
| | 02/23/06 | <50 | 400 | **<505** | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | 1.12 | -- | | | -- | 11.44 | 0.00 | 18.70 | -- |
| | 05/08/06 | **2,740[j]** | **1,030[p]** | <500 | **157** | 1.65 | 179 | 85.5 | <1 | 47.4 | 1.43 | -- | | | -- | 12.54 | 0.00 | 17.60 | 0.72 |
| | 08/30/06 | 197 | <243 | <485 | **13.8** | <0.5 | 12.3 | <3.00 | <1 | 10.9 | <1 | -- | | | -- | 12.71 | 0.00 | 17.43 | 0.29 |
| | 12/13/06 | **1,770** | <250 | <500 | **128.0** | 7.05 | 129.0 | 51 | <5 | <25 | <1 | -- | | | -- | 11.65 | 0.00 | 18.49 | 0.24 |
| | 03/08/07 | 596 | <248 | <495 | **38.5** | <.05 | 31.3 | 5.30 | <1 | 18.5 | 1.26 | -- | | | -- | 11.45 | 0.00 | 18.69 | 0.13 |
| | 06/15/07 | 296 | <250 | <500 [r] | **14.2** | <0.5 | 3.26 | <3.00 | <1 | 12.1 | <1 | -- | | | -- | 12.05 | 0.00 | 18.09 | 0.26 |
| | 09/14/07 | 358 | <245 | <490 | **25.5** | <0.5 | 9.29 | <3.00 | <1 | 6.85 | <1 | -- | | | -- | 13.11 | 0.00 | 17.03 | 0.04 |
| | 12/18/07 | 64.8 | <236 | <472 | 3.3 | <1 | <1 | <3 | <1 | <1 | **3.55** | -- | | | -- | 10.17 | 0.00 | 19.97 | -- |
| | 03/17/08 | 290 | <236 | <472 | **<236** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **4.4** | | | <1 | 11.09 | | 19.05 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 06/02/08 | 215 | 284 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **415** | <1 | | | 265 | 11.41 | 0.00 | 18.73 | -- |
| | 08/04/08 | -- | <236 | <472 | -- | -- | -- | -- | -- | -- | **334** | <1 | | | <236 | 11.23 | 0.00 | 18.91 | -- |
| | 11/05/08 | 528 | <238 | <476 | <0.500 | <0.500 | 0.65 | <3.00 | <1.00 | <5.00 | 2.32 | <1.00 | | | 281 | 11.20 | 0.00 | 18.94 | -- |
| | | Abandoned or Damaged - To be decomissioned at a later date | | | | | | | | | | | | | | | | | |
| **MW-33** | 11/04/91 | **11,000** | **<1,000** | -- | **550** | 490 | 240 | **1,300** | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 20.75 | 12/29/93 | **7,200** | **1,100** | **<750** | **560** | 100 | 250 | **1,100** | -- | -- | -- | -- | | | -- | 10.82 | 0.00 | 9.93 | -- |
| | 04/07/94 | **3,500** | **1,000** | **1,100** | **220** | 1.5 | 80 | 190 | -- | -- | -- | -- | | | -- | 10.60 | 0.00 | 10.15 | -- |
| | 03/08/95 | **4,900** | **1,400** | **2,000** | **650** | <25 | 320 | 420 | -- | -- | -- | -- | | | -- | 11.16 | 0.00 | 9.59 | -- |
| | 06/06/95 | -- | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| **MW-33** | 09/07/95 | **9,700** | **1,400** | **820** | **550** | 140 | 230 | 620 | -- | -- | -- | -- | | | -- | 11.20 | 0.00 | 9.55 | -- |
| contd. | 12/08/95 | **13,000** | **1,900** | **1,800** | **800** | 240 | 280 | 760 | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/01/96 | **5,200** | **960** | **<750** | **630** | 33 | 130 | 270 | -- | -- | -- | -- | | | -- | 11.00 | 0.00 | 9.75 | -- |
| | 06/25/96 | **2,700** | **1,030** | **<750** | **230** | 24.6 | 46.5 | 61.1 | -- | -- | -- | -- | | | -- | 11.05 | 0.00 | 9.70 | -- |
| | 09/27/96 | **5,150** | **1,190** | **<750** | **1,190** | 237 | 86.3 | 272 | -- | -- | -- | -- | | | -- | 11.13 | 0.00 | 9.62 | -- |
| | 03/28/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.19 | 0.00 | 9.56 | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.66 | 0.00 | 10.09 | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.48 | 0.00 | 10.27 | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.18 | 0.00 | 9.57 | -- |
| | 09/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.90 | 0.00 | 8.85 | -- |
| | 12/17/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.03 | 0.00 | 9.72 | -- |
| | 03/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.38 | 0.00 | 10.37 | -- |
| | 06/30/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.52 | 0.00 | 11.23 | -- |
| | 12/08/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.97 | 0.00 | 9.78 | -- |
| | 06/20/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.33 | 0.00 | 9.42 | -- |
| | 12/19/00 | Inaccessible | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/15/01 | LPH Present | | | | | | | | | | | | | | 12.72 | 2.50 | 10.03 | -- |
| | 06/26/01 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01 | LPH Present | | | | | | | | | | | | | | NM | 0.30 | -- | -- |
| | 10/10/01 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | **141,000** | **25,200** | **2,680** | | **5,360** | **32,500** | **3,410** | **22,700** | -- | -- | -- | | | -- | 11.21 | 0.00 | 9.54 | -- |
| | 03/08/02 | **126,000** | **31,400** | **3,420** | | **2,660** | **21,600** | **3,420** | **24,800** | -- | -- | -- | | | -- | 11.37 | 0.00 | 9.38 | -- |
| | 06/24/02 | **205,000** | **51,700** | **14,000** | | **1,510** | **14,200** | **3,770** | **28,900** | -- | -- | -- | | | -- | 11.36 | 0.00 | 9.39 | -- |
| | 09/26/02 | LPH Present | | | | | | | | | | | | | | 12.45 | 0.10 | 8.38 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 12.34 | 0.00 | 8.41 | -- |
| | 03/13/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.59 | 0.00 | 10.16 | -- |
| | 06/12/03 | **30,900** | **4,170** | **<562** | **396** | 526 | 474 | 3,890 | -- | -- | -- | -- | | | -- | 11.65 | Sheen | 9.10 | -- |
| | 09/19/03 | 125 | <291 | **<581** | 0.704 | <0.5 | <0.5 | 4.30 | -- | -- | -- | -- | | | -- | 6.70 | 0.00 | 14.05 | -- |
| | 01/14/04 | 524 | <135 | <271 | **17** | 3.7 | 7.65 | 31 | -- | -- | -- | -- | | | -- | 12.03 | 0.00 | 8.72 | 0.60 |
| | 03/30/04 | **2,680** | **725** | <256 | **218** | 14.7 | 53.2 | 150.4 | -- | -- | -- | -- | | | -- | 12.49 | 0.00 | 8.26 | 1.72 |
| | 06/22/04 | **3,500** | **1,330** | 443 | **197** | 12.1 | 99.2 | 217.3 | -- | -- | -- | -- | | | -- | 12.66 | 0.00 | 8.09 | 1.20 |
| | 09/29/04 | 290 | 290 | **<511** | **12** | 1.9 | 5.6 | 22 | -- | -- | -- | -- | | | -- | 9.60 | 0.00 | 11.15 | 7.20 |
| | 12/29/04 | **2,860** | **795** | <491 | **91** | 30.9 | 49.4 | 169.3 | -- | -- | -- | -- | | | -- | 12.14 | 0.00 | 8.61 | 0.10 |
| | 03/17/05 | 106 | <239 | <478 | **8.23** | 1.23 | 4.6 | 9.55 | -- | -- | -- | -- | | | -- | 12.07 | 0.00 | 8.68 | 4.60 |
| | 06/01/05 | <100 | <262 | **<524** | 2.03 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 11.21 | 0.00 | 9.54 | 9.30 |
| | 07/25/05 | 79.3 | <250 | <500 | 3.27 | 0.230 | 1.95 | 1.78 | <1 | 1.27 | -- | -- | | | -- | 11.73 | 0.00 | -- | 5.20 |
| 30.16 | 11/01/05 | <50 | <236 | <472 | 0.800 | <0.5 | <0.5 | <1 | <2 | -- | -- | -- | | | -- | 6.50 | 0.00 | 23.66 | NM [o] |
| | 02/23/06 | 582 | <255 | **<510** | **145** | 4.75 | 5.50 | <15.0 | <5 | <5 | 1.00 | -- | | | -- | 11.49 | 0.00 | 18.67 | -- |
| | 05/08/06 | 242 | <240 | <481 | 4.29 | <0.5 | 0.7 | 1.78 | <1 | 2.13 | <1 | -- | | | -- | 11.79 | 0.00 | 18.37 | 0.56 |
| | 08/30/06 | **874** | <250 | <500 | **200** | 10.0 | 26.2 | 56.0 | 6.79 | 17.1 | <1 | -- | | | -- | 12.43 | 0.00 | 17.73 | 1.74 |
| | 12/12/06 | **11,200** | <243 | <485 | **163** | 41.2 | 45.2 | 175 | <5 | <25 | <1 | -- | | | -- | 11.52 | 0.00 | 18.64 | 0.15 |
| | 03/07/07 | **867** | <260 | **<521** | **65** | 2.48 | 54.8 | 84.6 | <1 | 23.8 | <1 | -- | | | -- | 8.45 | 0.00 | 21.71 | 0.87 |
| | 06/15/07 | 535 | <245 | <490 [r] | **32.5** | <0.5 | 0.550 | 17.5 | 1.38 | 21.8 | <1 | -- | | | -- | 12.03 | 0.00 | 18.13 | 0.55 |
| | 09/14/07 | 235 | <250 | <500 | **29.4** | 1.45 | <0.5 | 19.8 | 1.23 | 6.62 | <1 | -- | | | -- | 12.07 | 0.00 | 18.09 | 0.36 |
| | 12/19/07 | 176 | <236 | <472 | **40.0** | <1 | <1 | 4.3 | <1 | 1.30 | **8.85** | -- | | | -- | 10.22 | 0.00 | 19.94 | -- |
| | 03/18/08 | 82.9 | <236 | <472 | **<236** | 1.17 | 0.68 | 2.08 | <3 | <1 | <5 | **7.38** | | | <1 | 11.22 | 0.00 | 18.94 | -- |
| | 06/03/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **5.41** | <1 | | | <236 | 11.43 | 0.00 | 18.73 | -- |
| | 08/04/08 | 55.3 | <236 | <472 | 1.16 | <0.5 | 0.910 | <3 | <1 | <5 | **3.84** | <1 | | | <236 | 12.10 | 0.00 | 18.06 | -- |
| | 11/04/08 | Well buried under gravel from station decommission, unable to sample. | | | | | | | | | | | | | | | | | -- |
| **MW-34** | 11/04/91 | **40,000** | **<1,000** | -- | **23,000** | **18,000** | **2,600** | **14,000** | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 21.42 | 10/07/93 | **4,200** | **1,600** | **970** | **1,400** | 480 | 120 | 440 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| | 12/29/93 | **52,000** | **2,200** | **<750** | **15,000** | **11,000** | **1,500** | **7,000** | -- | -- | -- | -- | | | -- | 11.01 | 0.00 | 10.41 | -- |
| | 04/07/94 | **9,800** | **1,400** | **<750** | **4,500** | 930 | 260 | 840 | -- | -- | -- | -- | | | -- | 10.88 | 0.00 | 10.54 | -- |
| | 07/14/94 | **5,700** | **1,200** | **<750** | **980** | 420 | 210 | 820 | -- | -- | -- | -- | | | -- | 10.78 | 0.00 | 10.64 | -- |
| | 10/25/94 | **13,000** | **4,100** | **1,900** | **6,500** | 170 | 680 | **1,000** | -- | -- | -- | -- | | | -- | 11.78 | 0.00 | 9.64 | -- |
| | 03/08/95 | **8,200** | **1,100** | 480 | **2,400** | **1,500** | 250 | **1,300** | -- | -- | -- | -- | | | -- | 11.62 | 0.00 | 9.80 | -- |
| | 06/06/95 | **9,100** | **2,300** | **<750** | **4,200** | **1,000** | 330 | **1,200** | -- | -- | -- | -- | | | -- | 11.73 | 0.00 | 9.69 | -- |
| | 09/07/95 | **18,000** | **1,800** | **930** | **4,800** | **2,300** | 560 | **2,000** | -- | -- | -- | -- | | | -- | 11.57 | 0.00 | 9.85 | -- |
| | 12/08/95 | **68,000** | **2,900** | **1,600** | **12,000** | **9,200** | **1,200** | **5,500** | -- | -- | -- | -- | | | -- | 10.92 | 0.00 | 10.50 | -- |
| | 04/01/96 | **10,000** | **1,900** | **<750** | **5,500** | 580 | 520 | **1,200** | -- | -- | -- | -- | | | -- | 11.21 | 0.00 | 10.21 | -- |
| | 06/25/96 | **13,700** | **1,160** | **<750** | **4,190** | **1,110** | 393 | **1,740** | -- | -- | -- | -- | | | -- | 11.19 | 0.00 | 10.23 | -- |
| | 09/27/96 | **16,300** | **1,030** | **<750** | **5,010** | **2,520** | 541 | **1,310** | -- | -- | -- | -- | | | -- | 11.58 | 0.00 | 9.84 | -- |
| | 03/28/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.47 | 0.00 | 9.95 | -- |
| | 06/30/97[b] | **2,970** | 311 | **<750** | **1,930** | 15.7 | 271 | 531 | -- | -- | -- | -- | | | -- | 11.19 | 0.00 | 10.23 | -- |
| | 09/08/97[b] | **8,390** | 455 | **<750** | **3,920** | 645 | 567 | **1,270** | -- | -- | -- | -- | | | -- | 11.74 | 0.00 | 9.68 | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/98[b] | **76,900** | **3,090** | **<750** | **13,400** | **11,100** | **2,310** | **9,080** | -- | -- | -- | -- | | | -- | 11.42 | 0.00 | 10.00 | -- |
| | 09/23/98[b] | **9,040** | **3,000** | **799** | **3,540** | 243 | 636 | **1,650** | -- | -- | -- | -- | | | -- | 12.23 | 0.00 | 9.19 | -- |
| | 12/17/98[b] | **80,900** | **5,470** | **1,380** | **14,200** | **10,800** | **3,110** | **11,800** | -- | -- | -- | -- | | | -- | 11.35 | 0.00 | 10.07 | -- |
| | 03/31/99[b] | **33,400** | **1,910** | **<750** | **5,970** | **1,740** | **1,400** | **3,820** | -- | -- | -- | -- | | | -- | 10.85 | 0.00 | 10.57 | -- |
| | 06/30/99[b] | **28,500** | **4,840** | **984** | **4,340** | **1,320** | **1,490** | **3,610** | -- | -- | -- | -- | | | -- | 10.18 | 0.00 | 11.24 | -- |
| | 12/08/99[b] | **62,400** | **2,500** | **<1,360** | **12,900** | **7,440** | **3,240** | **9,210** | -- | -- | -- | -- | | | -- | 11.33 | 0.00 | 10.09 | -- |
| | 06/20/00[b] | **25,000** | <250 | **<750** | **6,360** | 480 | **2,190** | **3,930** | -- | -- | -- | -- | | | -- | 11.68 | 0.00 | 9.74 | -- |
| | 12/19/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/15/01[b] | **25,800** | **4,780** | **<883** | **5,300** | 90 | **1,930** | **2,190** | -- | -- | -- | -- | | | -- | 11.85 | 0.00 | 9.57 | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01[b] | **17,800** | **4,510** | **722** | **3,540** | 44.9 | **1,510** | **2,180** | -- | -- | -- | -- | | | -- | 11.86 | 0.00 | 9.56 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | **19,000** | **8,400** | **752** | **5,320** | **1,200** | 406 | **1,010** | -- | -- | -- | -- | | | -- | 11.46 | 0.00 | 9.96 | -- |
| | 03/08/02 | **59,200** | **8,550** | **661** | **7,200** | **8,610** | **2,190** | **8,200** | -- | -- | -- | -- | | | -- | 11.70 | 0.00 | 9.72 | -- |
| | 06/24/02 | **12,500** | **4,200** | **614** | **2,140** | 651 | 659 | **1,160** | -- | -- | -- | -- | | | -- | 11.91 | 0.00 | 9.51 | -- |
| | 09/26/02[c] | **13,800** | **6,270** | **<1,160** | **5,840** | 21.8 | 280 | 87 | -- | -- | -- | -- | | | -- | 12.80 | 0.00 | 8.62 | -- |
| | 12/12/02 | **14,500** | **11,000** | **681** | **5,130** | 44.7 | 333 | 224 | -- | -- | -- | -- | | | -- | 12.98 | 0.00 | 8.44 | -- |
| | 03/13/03 | **25,600** | **6,480** | <500 | **6,030** | 668 | **775** | **1,130** | -- | -- | -- | -- | | | -- | 11.67 | 0.00 | 9.75 | -- |
| | 06/12/03 | **13,000** | **2,880** | <500 | **1,590** | 735 | 450 | **1,360** | -- | -- | -- | -- | | | -- | 12.04 | 0.00 | 9.38 | -- |
| | 09/19/03 | 351 | <301 | **<602** | **9.91** | 11.7 | 6.48 | 34.6 | -- | -- | -- | -- | | | -- | 12.83 | 0.00 | 8.59 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 01/14/04 | 160 | <122 | <245 | **23.7** | <0.5 | 2.11 | <1 | -- | -- | -- | -- | | | -- | 12.00 | 0.00 | 9.42 | 0.20 |
| | 03/30/04 | **15,100** | **1,120** | <300 | **3,060** | 238 | 564 | 846.6 | -- | -- | -- | -- | | | -- | 12.62 | 0.00 | 8.80 | 1.68 |
| | 06/22/04 | **6,760** | **1,900** | <238 | **2,320** | 14.3 | 395 | 279.8 | -- | -- | -- | -- | | | -- | 12.88 | 0.00 | 8.54 | 0.50 |
| | 09/29/04 | 310 | 306 | **<505** | **10** | <0.5 | 3.5 | 8.2 | -- | -- | -- | -- | | | -- | 11.38 | 0.00 | 10.04 | 0.40 |
| | 12/29/04 | **2,590** | 481 | **<504** | **320** | <10 | 83.8 | 101.4 | -- | -- | -- | -- | | | -- | 12.67 | 0.00 | 8.75 | 2.00 |
| | 03/17/05 | <100 | <239 | <478 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 12.66 | 0.00 | 8.76 | 0.40 |
| | 06/01/05 | 143 | <237 | <474 | <1 | <1 | 5.34 | 4.87 | <1 | -- | -- | -- | | | -- | 11.81 | 0.00 | 9.61 | 2.90 |
| | 07/25/05 | <50 | <250 | <500 | 0.210 | <0.2 | 1.85 | 1.31 | <1 | <0.5 | -- | -- | | | -- | 11.80 | 0.00 | -- | 2.10 |
| 30.58 | 11/07/05 | 219 | <245 | <490 | **8.46** | <0.5 | 0.58 | 4.86 | <1 | -- | -- | -- | | | -- | 11.92 | 0.00 | 18.66 | 0.90 |
| | 02/22/06 | 95.9 | <255 | **<510** | **6.27** | 9.27 | 2.10 | 10.2 | <1. [q,r] | <1 | 1.32 | -- | | | -- | 11.48 | 0.00 | 19.10 | -- |
| | 05/08/06 | 489 | <250 | <500 | **14.7** | <0.5 | 9.15 | 2.36 | <1 | 8.04 | <1 | -- | | | -- | 12.84 | 0.00 | 17.74 | 4.67 |
| | 08/30/06 | 254 | <245 | <490 | **32.8** | 0.880 | 4.82 | 5.45 | <1 | 12.1 | <1 | -- | | | -- | 12.70 | 0.00 | 17.88 | 0.40 |
| **MW-34** | 12/13/06 | **2,240** | <250 | <500 | **211** | <2.5 | 25.0 | <15.0 | <5 | <25 | <1 | -- | | | -- | 11.66 | 0.00 | 18.92 | 1.34 |
| contd. | 03/07/07 | **1,010** | <240 | <481 | **81.7** | <5 | 7.50 | 181 | <10 | <50 | 1.98 | -- | | | -- | 10.75 | 0.00 | 19.83 | 0.64 |
| | 06/15/07 | **806** | <250 | <500 [r] | **141** | 1.01 | 4.02 | <3.00 | <1 | 6.79 | <1 | -- | | | -- | 12.39 | 0.00 | 18.19 | 0.57 |
| | 09/13/07 | 727 | <238 | <476 | **59.2** | 0.680 | 27.1 | <3.00 | <1 | 14.6 | **4.25** | -- | | | -- | 13.24 | 0.00 | 17.34 | 0.05 |
| | 12/19/07 | 53.4 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | 1.69 | -- | | | -- | 10.50 | 0.00 | 20.08 | -- |
| | 03/17/08 | **2040** | <236 | <472 | **499** | 235 | 1.48 | 10.5 | <3 | <1 | <5 | **18.60** | | | <1 | 11.64 | 0.00 | 18.94 | -- |
| | 06/02/08 | **1,280** | <240 | <481 | **55.1** | 1.26 | 5.07 | <3 | <1 | <5 | **37.20** | <1 | | | 356 | 11.84 | 0.00 | 18.74 | -- |
| | 08/04/08 | Unable to unlock | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/05/08 | **1,890** | <238 | <476 | **23.2** | 1.2 | 10..4 | <3.00 | <1.00 | 8.55 | 1.41 | <1.00 | | | **1,060** | 12.20 | 0.00 | 18.38 | -- |
| | | Abandoned or Damaged - To be decomissioned at a later date | | | | | | | | | | | | | | | | | |
| **MW-35** | 11/04/91 | **24,000** | **<1,000** | -- | | 440 | **2,600** | 610 | **4,300** | -- | -- | -- | | | | -- | -- | -- | -- |
| 20.10 | 12/29/93 | **4,200** | **1,000** | **<750** | | 580 | 40 | 200 | **720** | -- | -- | -- | | | | 10.23 | 0.00 | 9.87 | -- |
| | 04/07/94 | **5,300** | **870** | **<750** | | 480 | 51 | 140 | **550** | -- | -- | -- | | | | 9.91 | 0.00 | 10.19 | -- |
| | 07/14/94 | **8,100** | **890** | **<750** | | 980 | 79 | 150 | **600** | -- | -- | -- | | | | 10.13 | 0.00 | 9.97 | -- |
| | 10/25/94 | **2,800** | **1,300** | **1,200** | | 360 | 3.6 | 100 | **82** | -- | -- | -- | | | | 10.87 | 0.00 | 9.23 | -- |
| | 03/08/95 | **2,600** | **1,200** | **1,300** | | 400 | <25 | 120 | **83** | -- | -- | -- | | | | 10.67 | 0.00 | 9.43 | -- |
| | 06/06/95 | **810** | **1,000** | **930** | | 62 | 1.4 | 27 | **36** | -- | -- | -- | | | | 10.67 | 0.00 | 9.43 | -- |
| | 09/07/95 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | | 10.87 | 0.00 | 9.23 | -- |
| | 12/08/95 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | | NM | NM | -- | -- |
| | 04/01/96 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | | NM | NM | -- | -- |
| | 06/25/96 | **1,620** | **850** | **<750** | | 68.2 | 1.11 | 26.7 | 17.6 | -- | -- | -- | | | | 11.11 | 0.00 | 8.99 | -- |
| | 09/27/96 | **959** | **524** | **<750** | | 38.8 | 0.990 | 10.4 | 6.18 | -- | -- | -- | | | | 10.64 | 0.00 | 9.46 | -- |
| | 03/28/97[b] | **1,370** | 333 | **<750** | | 161 | 2.36 | 31.9 | 10.7 | -- | -- | -- | | | | 11.28 | 0.00 | 8.82 | -- |
| | 03/28/97 | **1,800** | <250 | **<750** | | 250 | 2.62 | 49.1 | 8.04 | -- | -- | -- | | | | 11.28 | 0.00 | 8.82 | -- |
| | 06/30/97[b] | **1,900** | <250 | **<750** | | 348 | <2.5 | 85 | 7.31 | -- | -- | -- | | | | 10.19 | 0.00 | 9.91 | -- |
| | 09/08/97[b] | **4,200** | <250 | **<750** | | **1,460** | 16.2 | 231 | 68.2 | -- | -- | -- | | | | 10.86 | 0.00 | 9.24 | -- |
| | 12/19/97 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | | NM | NM | -- | -- |
| | 03/16/98[b] | **905** | 361 | **<750** | | 410 | 4.24 | <2.5 | <5.00 | -- | -- | -- | | | | 10.64 | 0.00 | 9.46 | -- |
| | 06/26/98[b] | **1,300** | **682** | **<750** | | 600 | <10 | 45.1 | <20.0 | -- | -- | -- | | | | 10.65 | 0.00 | 9.45 | -- |
| | 09/23/98[b] | 665 | **659** | **<750** | | 243 | <2.5 | <2.5 | <5.00 | -- | -- | -- | | | | 11.38 | 0.00 | 8.72 | -- |
| | 12/17/98[b] | 699 | **572** | **<750** | | 402 | <2.5 | 10.8 | 9.99 | -- | -- | -- | | | | 10.49 | 0.00 | 9.61 | -- |
| | 03/31/99 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/30/99 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 12/08/99 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/20/00 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 12/19/00 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/15/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/01[b] | 504 | 464 | **<750** | **11.3** | 27.5 | 5.52 | 28.4 | -- | -- | -- | -- | | | -- | 10.60 | 0.00 | 9.50 | -- |
| | 09/04/01[b] | 263 | **903** | **<564** | 2.36 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.54 | 0.00 | 9.56 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | 691 | **1,160** | <500 | **28.7** | 0.898 | 14.1 | 13.2 | -- | -- | -- | -- | | | -- | 10.54 | 0.00 | 9.56 | -- |
| | 03/08/02 | 638 | **1,100** | <500 | **16.2** | 0.939 | 7.05 | 6.91 | -- | -- | -- | -- | | | -- | 10.72 | 0.00 | 9.38 | -- |
| | 06/24/02 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 09/26/02[b] | 555 | **1,420** | <500 | **9.49** | <2 | 1.78 | <1.50 | -- | -- | -- | -- | | | -- | 11.90 | 0.00 | 8.20 | -- |
| | 12/12/02 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 03/13/03 | **13,500** | **1,430** | <500 | **749** | 153 | **791** | **2,160** | -- | -- | -- | -- | | | -- | 9.87 | 0.00 | 10.23 | -- |
| | 06/12/03 | **3,930** | **973** | **<562** | **338** | 21.2 | 49.9 | 222 | -- | -- | -- | -- | | | -- | 11.91 | 0.00 | 8.19 | -- |
| | 09/19/03 | 517 | <373 | **<746** | **7.29** | 4.32 | 1.86 | 14.6 | -- | -- | -- | -- | | | -- | 12.18 | 0.00 | 7.92 | -- |
| | 01/14/04 | 614 | 142 | <256 | 1.45 | <0.5 | 0.657 | 0.568 | -- | -- | -- | -- | | | -- | 11.33 | 0.00 | 8.77 | 0.30 |
| | 03/30/04 | 541 | 196 | <257 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.69 | 0.00 | 8.41 | 1.46 |
| | 06/22/04 | 526 | 210 | <238 | 1.27 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.91 | 0.00 | 8.19 | 1.50 |
| | 09/29/04 | 250 | 248 | <487 | 0.50 | <0.5 | 1.1 | 2.1 | -- | -- | -- | -- | | | -- | 11.77 | 0.00 | 8.33 | 0.10 |
| | 12/29/04 | 280 | <255 | **<510** | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 10.64 | 0.00 | 9.46 | 0.10 |
| 19.45 | 03/17/05 | 168 | <239 | <478 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 10.88 | 0.00 | 8.57 | 0.70 |
| | 06/01/05 | 334 | <238[l] | <475[l] | **7.06** | <1 | 2.11 | <2 | 1.21 | -- | -- | -- | | | -- | 10.11 | 0.00 | 9.34 | 1.60 |
| | 07/25/05 | 296 | <250 | <500 | 2.09 | 0.280 | 0.980 | 1.15 | 1.14 | 0.970 | -- | -- | | | -- | 10.42 | 0.00 | -- | 1.60 |
| | 11/07/05 | 243 | <245 | <490 | 1.22 | 0.870 | 1.17 | 3.89 | <1 | -- | -- | -- | | | -- | 10.22 | 0.00 | 9.23 | NM [o] |
| | 02/23/06 | <50 | 315 | <485 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | 1.95 | -- | | | -- | 10.21 | 0.00 | 9.24 | -- |
| 28.90 | 05/08/06 | <50 | <236 | <472 | 2.53 | <0.5 | <0.5 | <3.00 | <1 | <1 | 2.01 | -- | | | -- | 10.43 | 0.00 | 18.47 | 0.72 |
| | 08/30/06 | 120 | <245 | <490 | 1.30 | 1.25 | <0.5 | <3.00 | <1 | <5 | 1.35 | -- | | | -- | 11.18 | 0.00 | 17.72 | 3.99 |
| | 12/13/06 | 181 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 10.23 | 0.00 | 18.67 | 1.62 |
| | 03/08/07 | 89.1 | <253 | **<505** | **13.0** | 0.720 | 0.890 | <3.00 | <1 | <5 | **2.55** | -- | | | -- | 9.95 | 0.00 | 18.95 | 0.37 |
| | 06/15/07 | <50 | <245 | <490 [r] | <0.5 | <0.5 | <0.5 | <3.00 | <1 | 6.34 | <1 | -- | | | -- | 10.44 | 0.00 | 18.46 | 0.22 |
| | 09/14/07 | <50 | <255 | **<510** | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | **4.62** | -- | | | -- | 10.66 | 0.00 | 18.24 | 0.02 |
| | 12/18/07 | 72.60 | <236 | <472 | 2.31 | <1 | <1 | 2.40 | <1 | <1 | 2.26 | -- | | | -- | 9.53 | 0.00 | 19.37 | -- |
| | 03/18/08 | 59.60 | <236 | <472 | **<236** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **11.20** | | | <1 | 9.93 | | 18.97 | -- |
| | 06/03/08 | 75.8 | 479 | **940** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **191** | <1 | | | <236 | 10.46 | 0.00 | 18.44 | -- |
| | 08/04/08 | 70.1 | <236 | <472 | <0.5 | 0.70 | <0.5 | <3 | <1 | <5 | **4.64** | <1 | | | <236 | 10.86 | 0.00 | 18.04 | -- |
| | 11/05/08 | 94.8 | <238 | <476 | <0.500 | 1.35 | <0.500 | <3.00 | <1.00 | <5.00 | **229** | <1.00 | | | <238 | 10.07 | 0.00 | 18.83 | -- |
| | | Abandoned or Damaged - To be decomissioned at a later date | | | | | | | | | | | | | | | | | |
| **MW-36** | 11/05/91 | **1,000** | **<1,000** | -- | **24** | 0.9 | <0.5 | 1.0 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 17.80 | 12/30/93 | <100 | 370 | **940** | 0.7 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | 9.42 | 0.00 | 8.38 | -- |
| | 07/15/94 | <100 | 410 | **960** | 0.7 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | 7.98 | 0.00 | 9.82 | -- |
| | 10/25/94 | <50 | **670** | **1,300** | 1.2 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.32 | 0.00 | 8.48 | -- |
| | 03/08/95 | <50 | **560** | **1,200** | 2.6 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.07 | 0.00 | 8.73 | -- |
| | 06/06/95 | <50 | <250 | **<750** | 1 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 7.92 | 0.00 | 9.88 | -- |
| | 09/07/95 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 8.11 | 0.00 | 9.69 | -- |
| | 12/08/95 | <50 | **510** | **1,200** | 1.1 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.00 | 0.00 | 8.80 | -- |
| | 04/01/96 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.00 | 0.00 | 8.80 | -- |
| | 06/25/96 | <50 | <250 | **<750** | 0.58 | 0.500 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.97 | 0.00 | 8.83 | -- |
| | 09/27/96 | <50 | <250 | **<750** | 1.18 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 7.53 | 0.00 | 10.27 | -- |
| | 03/28/97 | <50 | <250 | **<750** | 0.810 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 9.21 | 0.00 | 8.59 | -- |
| | 06/30/97[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 6.88 | 0.00 | 10.92 | -- |
| | 09/08/97[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 9.21 | 0.00 | 8.59 | -- |
| | 12/19/97[b] | <50 | <250 | **<750** | 0.606 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 10.09 | 0.00 | 7.71 | -- |
| | 03/16/98[b] | 56.6 | 287 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 9.29 | 0.00 | 8.51 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 06/26/98[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.47 | 0.00 | 9.33 | -- |
| | 09/23/98[b] | <50 | <250 | **<750** | 0.737 | <0.5 | <0.5 | 1.13 | -- | -- | -- | -- | | | -- | 9.89 | 0.00 | 7.91 | -- |
| | 12/17/98[b] | <50 | 288 | **<750** | 0.533 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 10.00 | 0.00 | 7.80 | -- |
| | 03/31/99[b] | <50 | 321 | **<750** | 0.759 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.96 | 0.00 | 8.84 | -- |
| | 06/30/99[b] | <50 | <250 | **<750** | 1.29 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.44 | 0.00 | 9.36 | -- |
| | 12/08/99[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 10.05 | 0.00 | 7.75 | -- |
| | 06/20/00[b] | 172 | <250 | **<750** | <0.5 | 0.583 | 1.78 | 11.1 | -- | -- | -- | -- | | | -- | 8.47 | 0.00 | 9.33 | -- |
| | 12/19/00[b] | 106 | <250 | **<750** | 0.529 | 1.51 | 1.08 | 7.14 | -- | -- | -- | -- | | | -- | 9.50 | 0.00 | 8.30 | -- |
| | 06/15/01[b] | <50 | 298 | **<750** | 0.691 | 0.648 | 0.530 | 1.53 | -- | -- | -- | -- | | | -- | 8.00 | 0.00 | 9.80 | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01[b] | <50 | <250 | <500 | 0.897 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.70 | 0.00 | 9.10 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | <50 | 387 | <500 | 0.773 | 0.748 | <0.5 | 1.78 | -- | -- | -- | -- | | | -- | 9.57 | 0.00 | 8.23 | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| **MW-36** | 09/26/02 | <100 | <250 | <500 | 0.735 | <2 | <1 | <1.50 | -- | -- | -- | -- | | | -- | 10.16 | 0.00 | 7.64 | -- |
| contd. | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | <50 | <250 | <500 | 0.830 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 9.34 | 0.00 | 8.46 | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | <50 | <287 | **<575** | 1.44 | 0.561 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 10.23 | 0.00 | 7.57 | -- |
| | 01/14/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/30/04 | <100 | <133 | <267 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 9.46 | 0.00 | 8.34 | 1.10 |
| | 06/22/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/29/04 | <50 | <250 | <500 | 0.90 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.78 | 0.00 | 8.02 | 0.80 |
| | 12/29/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/17/05 | <100 | <246 | <492 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 8.66 | 0.00 | 9.14 | 0.10 |
| | 06/02/05 | <100 | --[e] | --[e] | <1 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 7.70 | 0.00 | 10.10 | 0.90 |
| | 06/16/05 | -- | 82[f] | <250 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 7.71 | 0.00 | 10.09 | 0.80 |
| | 07/25/05 | <50 | <250 | <500 | 0.550 | <0.2 | <0.2 | <0.5 | <1 | <0.5 | -- | -- | | | -- | 8.15 | 0.00 | -- | 2.30 |
| 27.21 | 11/08/05 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | -- | -- | -- | | | -- | 8.81 | 0.00 | 18.40 | 1.20 |
| | 02/24/06 | <50 | <255 | **<510** | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | **3.37** | -- | | | -- | 8.62 | 0.00 | 18.59 | -- |
| | 05/09/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | **10.7** | -- | | | -- | 7.55 | 0.00 | 19.66 | 1.00 |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-37** | 11/05/91 | **21,000** | **<1,000** | -- | **810** | **2,400** | 470 | **3,300** | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 21.01 | 12/30/93 | LPH Present | | | | | | | | | | | | | | 10.59 | 0.40 | 10.74 | -- |
| | 04/07/94 | **92,000** | **18,000** | **<750** | **660** | **3,600** | **1,500** | **9,500** | -- | -- | -- | -- | | | -- | 10.49 | 0.08 | 10.58 | -- |
| | 07/15/94 | **330,000** | **1,700,000** | **260,000** | **18,000** | **44,000** | **7,700** | **44,000** | -- | -- | -- | -- | | | -- | -- | 0.25 | -- | -- |
| | 10/26/94 | **170,000** | **35,000** | **7,500** | **14,000** | **30,000** | **4,400** | **26,000** | -- | -- | -- | -- | | | -- | -- | 0.17 | -- | -- |
| | 03/08/95 | **34,000** | **3,200** | **1,400** | **3,100** | **2,400** | **1,200** | **6,700** | -- | -- | -- | -- | | | -- | 11.94 | 0.00 | 9.07 | -- |
| | 06/06/95 | **45,000** | **4,600** | **2,500** | **3,700** | **2,400** | **1,300** | **7,900** | -- | -- | -- | -- | | | -- | 11.76 | 0.01 | 9.26 | -- |
| | 06/06/95 | **90,000** | -- | -- | **5,100** | **6,000** | **2,400** | **14,000** | -- | -- | -- | -- | | | -- | 11.76 | 0.01 | 9.26 | -- |
| | 09/07/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.17 | 0.00 | 9.84 | -- |
| | 12/08/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.22 | 0.00 | 10.79 | -- |
| | 04/01/96 | LPH Present | | | | | | | | | | | | | | 10.79 | 0.02 | 10.24 | -- |
| | 06/25/96 | LPH Present | | | | | | | | | | | | | | 10.82 | 0.20 | 10.35 | -- |
| | 09/27/96 | LPH Present | | | | | | | | | | | | | | 11.47 | 0.05 | 9.58 | -- |
| | 03/28/97[b] | **60,100** | **7,570** | **789** | **1,530** | **2,180** | **1650** | **7,440** | -- | -- | -- | -- | | | -- | 11.14 | 0.25 | 10.07 | -- |
| | 03/28/97 | **297,000** | **45,100** | **<8,250** | **6,570** | **13,200** | **4930** | **22,900** | -- | -- | -- | -- | | | -- | 11.14 | 0.25 | 10.07 | -- |
| | 06/30/97 | LPH Present | | | | | | | | | | | | | | 10.80 | 0.02 | 10.23 | -- |
| | 09/08/97 | LPH Present | | | | | | | | | | | | | | 11.41 | 0.23 | 9.78 | -- |
| | 12/19/97 | LPH Present | | | | | | | | | | | | | | 11.28 | 0.02 | 9.75 | -- |
| | 03/16/98 | LPH Present | | | | | | | | | | | | | | 11.11 | 0.01 | 9.91 | -- |
| | 06/26/98 | LPH Present | | | | | | | | | | | | | | 11.32 | 0.01 | 9.70 | -- |
| | 09/23/98 | LPH Present | | | | | | | | | | | | | | 12.01 | 0.03 | 9.02 | -- |
| | 12/17/98 | LPH Present | | | | | | | | | | | | | | 11.00 | Trace | 10.01 | -- |
| | 03/31/99 | LPH Present | | | | | | | | | | | | | | NM | Trace | -- | -- |
| | 06/30/99 | LPH Present | | | | | | | | | | | | | | DRY | 0.30 | -- | -- |
| | 12/08/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.11 | -- | 9.90 | -- |
| | 06/20/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.50 | -- | 9.51 | -- |
| | 12/19/00 | LPH Present | | | | | | | | | | | | | | 11.50 | 0.50 | 9.91 | -- |
| | 06/15/01[b] | LPH Present | | | | | | | | | | | | | | 11.35 | 0.03 | 9.68 | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01[b] | **159,000** | **22,100** | **14,600** | **3,420** | **12,600** | **4,440** | **27,000** | -- | -- | -- | -- | | | -- | 11.43 | 0.00 | 9.58 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01[b] | LPH Present | | | | | | | | | | | | | | 11.00 | 0.20 | 10.17 | -- |
| | 03/08/02 | LPH Present | | | | | | | | | | | | | | 11.61 | 0.40 | 9.72 | -- |
| | 06/24/02 | Inaccessible | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 09/26/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 12.38 | 0.00 | 8.63 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 12.35 | 0.00 | 8.66 | -- |
| | 03/13/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.10 | 0.00 | 9.91 | -- |
| | 06/12/03 | **1,450** | 474 | **<568** | **22.9** | 43.2 | 15.8 | 85.5 | -- | -- | -- | -- | | | -- | 11.61 | 0.00 | 9.40 | -- |
| | 09/19/03 | 141 | <298 | **<595** | <0.5 | <0.5 | <0.5 | 1.01 | -- | -- | -- | -- | | | -- | 11.95 | 0.00 | 9.06 | -- |
| | 01/14/04 | 471 | <127 | <255 | 4.56 | <0.5 | 9.01 | 27.75 | -- | -- | -- | -- | | | -- | 12.12 | 0.00 | 8.89 | 0.50 |
| | 03/30/04 | 572 | 180 | <281 | **5.77** | <1 | <1 | 1.53 | -- | -- | -- | -- | | | -- | 12.73 | 0.00 | 8.28 | 1.50 |
| | 06/22/04 | 737 | 487 | 294 | 3.26 | 3.66 | 1.46 | 14.25 | -- | -- | -- | -- | | | -- | 12.29 | 0.00 | 8.72 | 1.00 |
| | 09/29/04 | 190 | 419 | <496 | <0.5 | <0.5 | 0.67 | 1.3 | -- | -- | -- | -- | | | -- | 10.89 | 0.00 | 10.12 | 2.00 |
| | 12/29/04 | 430 | <262 | **<524** | **18.2** | 2.27 | 1.08 | 11.22 | -- | -- | -- | -- | | | -- | 11.90 | 0.00 | 9.11 | 1.50 |
| | 03/17/05 | 250 | 259 | <476 | <1 | 1.27 | <1 | 4.22 | -- | -- | -- | -- | | | -- | 12.18 | 0.00 | 8.83 | 2.50 |
| | 06/02/05 | 137 | <238 | **604** | <1 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 10.87 | 0.00 | 10.14 | 1.50 |
| | 07/26/05 | 59.4 | <250 | <500 | <0.2 | <0.2 | <0.2 | <0.50 | <1 | 0.520 | -- | -- | | | -- | 11.37 | 0.00 | -- | 10.10 |
| 30.09 | 11/07/05 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | -- | -- | -- | | | -- | 14.71 | 0.00 | 15.38 | 3.80 |
| | 02/22/06 | **1,830** | <248 | <495 | **32.4** | 63.8 | 19.6 | 284 | <5[q] | 15.0 | 1.66 | -- | | | -- | 11.14 | 0.00 | 18.95 | -- |
| | 05/10/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | <1 | -- | | | -- | 12.49 | 0.00 | 17.60 | 1.88 |
| | 08/29/06 | 91.2 | <258 | **<515** | 2.59 | 1.61 | 1.19 | 12.4 | <1 | <5 | 1.30 | -- | | | -- | 12.18 | 0.00 | 17.91 | 0.94 |
| | 12/12/06 | 686 | <238 | <476 | **5.46** | 11.2 | 5.87 | 60.4 | <1 | <5 | <1 | -- | | | -- | 11.17 | 0.00 | 18.92 | 0.10 |
| | 03/06/07 | 64.6 | <266 | **<532** | <0.5 | 1.14 | 1.02 | 5.76 | <1 | <5 | <1 | -- | | | -- | 10.20 | 0.00 | 19.89 | 9.14 |
| | 06/14/07 | 121 | <236 | <472 | 1.56 | <0.5 | 0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 12.18 | 0.00 | 17.91 | 0.58 |
| | 09/14/07 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 13.09 | 0.00 | 17.00 | -0.02 |
| | 12/17/07 | **3,130** | <240 | <481 | **54.0** | 72.00 | 27 | 600.00 | <1 | -- | **18.80** | -- | | | -- | 10.90 | 0.00 | 19.19 | -- |
| | 03/18/08 | 750 | <236 | <472 | **249** | 2.16 | 1.16 | 3.32 | **51.40** | <1 | <5 | **92.10** | | | <1 | 11.04 | | 19.05 | -- |
| | 06/01/08 | **1,370** | <238 | <476 | 4.9 | 2.52 | 5.77 | 158 | <1 | 7.31 | -- | <1 | | | 343 | 11.90 | 0.00 | 18.19 | -- |
| | 08/10/08 | **1,450** | <240 | <481 | **51.3** | 1.7 | 13.4 | 115 | <1 | 18.10 | **3.31** | <1 | | | 444 | 12.45 | 0.00 | 17.64 | -- |
| | 11/02/08 | 685 | <245 | <490 | **3.6** | 0.54 | 4.58 | 38 | <1.00 | 10.30 | 1.77 | <1.00 | | | <245 | 11.80 | 0.00 | 18.29 | -- |
| | 02/22/09 | **2,380** | <238 | <476 | **35.2** | 49.0 | 52.4 | 391 | -- | 21.00 | **5.44** | <1.00 | | | **692** | 12.40 | 0.00 | 17.69 | -- |
| | 05/17/09 | **1,840** | <236 | <472 | **12.5** | 2.37 | 35.5 | 199 | <1.00 | 16.30 | 1.37 | <1.00 | | | 459 | 12.35 | 0.00 | 17.74 | -- |
| | 08/16/09 | **1,100** | **840** | <480 | 4.7 | 0.53 | 3.7 | 47 | <1.0 | 5.9 | <5.0 | <5.0 | | | **650** | 14.12 | 0.00 | 15.97 | -- |
| | 11/15/09 | **1,300** | 440[y] | <480 | **12.0** | 2.9 | 19 | 88 | <1.0 | 20 | 1.5 | <1 | | | **530[y]** | 11.65 | 0.00 | 18.44 | -- |
| | 02/21/10 | **4,120** | **958** | **649** | **161** | 66.6 | 184 | **1,530** | -- | 15.7 | 0.85 | <0.10 | | | **1,030** | 11.00 | 0.00 | 19.09 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 05/23/10 | **2,260** | **810** | **522** | **80.6** | 13.6 | 106 | 706 | -- | 13.3 | 2.2 | <0.10 | | | **1140** | 11.15 | 0.00 | 18.94 | -- |
| | 08/15/10 | **2,350** | <79.2 | <396 | **51.0** | 2.6 | 47.0 | 415 | -- | 16.7 | **4.3** | 0.64 | | | **598** | 11.43 | 0.00 | 18.66 | |
| | 11/14/10 | **5,580** | 111 | <388 | **94.3** | 10.3 | 151 | **1270** | -- | 22.5 | <10.0 | <10.0 | | | **912** | 10.70 | 0.00 | 19.39 | |
| | 02/27/11 | Well compromised, unable to sample | | | | | | | | | | | | | | -- | -- | -- | |
| | 06/14/11 | Not Sampled | | | | | | | | | | | | | | | | | |
| | 08/29/11 | Not Sampled | | | | | | | | | | | | | | | | | |
| **MW-38** | 11/05/91 | **<1,000** | **<1,000** | -- | <0.5 | 0.6 | <0.5 | 0.5 | -- | -- | -- | -- | | | -- | -- | 0.00 | -- | -- |
| 16.52 | 03/08/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/06/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/08/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 04/01/96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/25/96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/27/96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/28/97 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 9.23 | 0.00 | 7.29 | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/17/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/30/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/08/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/20/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/19/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/15/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | <50 | 403 | <500 | 0.636 | 1.33 | 0.554 | 2.59 | -- | -- | -- | -- | | | -- | 8.96 | 0.00 | 7.56 | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02[c] | <100 | 282 | <500 | 0.743 | <2 | <1 | <1.50 | -- | -- | -- | -- | | | -- | 8.87 | 0.00 | 7.65 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 7.84 | 0.00 | 8.68 | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | <50 | <250 | <500 | 0.704 | 1.42 | 0.722 | 3.72 | -- | -- | -- | -- | | | -- | 8.90 | 0.00 | 7.62 | -- |
| | 01/14/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/30/04 | <100 | <133 | <266 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 8.09 | 0.00 | 8.43 | 0.90 |
| | 06/22/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/29/04 | Unable to locate due to road construction activities | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 12/29/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/17/05 | <100 | <250 | <499 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 8.32 | 0.00 | 8.20 | 0.40 |
| | 06/02/05 | Obstructed by vehicle | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/16/05 | Obstructed by vehicle | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 07/26/05 | <50 | <250 | <500 | <0.2 | <0.2 | <0.2 | <0.5 | <1 | <0.5 | -- | -- | | | -- | 7.60 | 0.00 | 8.92 | 0.40 |
| 26.01 | 11/07/05 | <50 | <253 | **<505** | <0.5 | <0.5 | <0.5 | <3.00 | <1 | -- | -- | -- | | | -- | 8.11 | 0.00 | 17.90 | NM [o] |
| | 02/21/06 | Well obstructed by vehicle | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 05/09/06 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | <1 | -- | | | -- | 5.82 | 0.00 | 20.19 | 0.50 |
| | 08/30/06 | <80 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 7.02 | 0.00 | 18.99 | 1.81 |
| | 12/13/06 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 8.56 | 0.00 | 17.45 | 1.09 |
| | 03/07/07 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 7.92 | 0.00 | 18.09 | 0.45 |
| | 06/14/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 6.37 | 0.00 | 19.64 | 1.11 |
| | 09/12/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 6.93 | 0.00 | 19.08 | 0.46 |
| | 12/17/07 | Inaccessible, well covered by vehicle | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/17/08 | Inaccessible, well covered by vehicle | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/02/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **3.77** | <1 | | | **<236** | 6.71 | 0.00 | 19.30 | -- |
| | 08/05/08 | Vehicle parked over well | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/04/08 | <50.0 | <245 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **5.99** | <1.00 | | | <236 | 7.86 | 0.00 | 18.15 | -- |
| | 02/24/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | 1.78 | <1.00 | | | <240 | 7.25 | 0.00 | 18.76 | -- |
| | 05/17/09 | <50.0 | <238 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | 1.71 | <1.00 | | | <238 | 7.13 | 0.00 | 18.88 | |
| | 08/17/09 | <50 | <240 | <470 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **5.9** | <5.0 | | | <240 | 20.00 | 0.00 | 6.01 | |
| | 11/16/09 | <50.0 | <240 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **4.9** | <1 | | | <240 | 7.37 | 0.00 | 18.64 | |
| | 02/22/10 | <50.0 | 149 | 423 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **5.9** | <0.10 | | | <75.5 | 8.30 | 0.00 | 17.71 | |
| | 05/23/10 | Well Destroyed | | | | | | | | | | | | | | | | | |
| **MW-40** | 11/05/91 | **<1,000** | **<1,000** | -- | **5.8** | 0.7 | 0.5 | 0.8 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 20.89 | 10/07/93 | **930** | **1,800** | **1,900** | **36** | 1.8 | 2.1 | 5.3 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| | 12/30/93 | **1,500** | **5,400** | **4,200** | **34** | 1.1 | 11 | 7.4 | -- | -- | -- | -- | | | -- | 10.68 | 0.00 | 10.21 | -- |
| | 04/07/94 | **1,200** | **2,200** | **2,000** | **29** | 1.1 | 6.9 | 2.6 | -- | -- | -- | -- | | | -- | 9.35 | 0.00 | 11.54 | -- |
| | 07/15/94 | **1,000** | **2,100** | **2,500** | **27** | 0.8 | 1.2 | 1.7 | -- | -- | -- | -- | | | -- | 10.68 | 0.00 | 10.21 | -- |
| | 10/26/94 | **1,200** | **2,900** | **2,600** | **20** | 0.53 | 0.77 | 2.0 | -- | -- | -- | -- | | | -- | 11.22 | 0.00 | 9.67 | -- |
| | 03/08/95 | **960** | **2,600** | **2,600** | **11** | <0.5 | 11 | <1.0 | -- | -- | -- | -- | | | -- | 10.98 | 0.00 | 9.91 | -- |
| | 06/06/95 | **1,500** | **2,300** | **1,600** | **6.8** | 4.3 | 4.1 | 21 | -- | -- | -- | -- | | | -- | 11.18 | 0.00 | 9.71 | -- |
| | 09/07/95 | 650 | **13,000** | **66,000** | **11** | 0.91 | 0.57 | <1.0 | -- | -- | -- | -- | | | -- | 11.08 | 0.00 | 9.81 | -- |
| | 12/08/95 | 500 | **1,400** | **4,800** | 2.7 | 3.00 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.30 | 0.00 | 10.59 | -- |
| | 04/01/96 | 520 | **3,200** | **13,000** | 1.2 | <0.5 | 0.55 | <1.0 | -- | -- | -- | -- | | | -- | 10.56 | 0.00 | 10.33 | -- |
| | 06/25/96 | 500 | **2,700** | **8,460** | <0.5 | 9.82 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 10.69 | 0.00 | 10.20 | -- |
| | 09/27/96 | 602 | **3,550** | **9,860** | 0.604 | 41.1 | 0.525 | <1.0 | -- | -- | -- | -- | | | -- | 10.95 | 0.00 | 9.94 | -- |
| | 03/28/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.92 | 0.00 | 9.97 | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/19/97[c] | 325 | **3,260** | **12,600** | <0.5 | 0.504 | 0.663 | 2.44 | -- | -- | -- | -- | | | -- | 11.11 | 0.00 | 9.78 | -- |
| | 03/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/17/98[b] | 384 | **2,840** | **9,620** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 10.86 | 0.00 | 10.03 | -- |
| | 03/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/30/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/08/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/20/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/09/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/19/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/15/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 12/28/01 | 449 | **4,000** | **5,090** | 2.12 | 2.19 | 1.38 | 3.88 | -- | -- | -- | -- | | | -- | 10.75 | 0.00 | 10.14 | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02 | 331 | **2,810** | **3,470** | 1.92 | <2 | <1 | <1.50 | -- | -- | -- | -- | | | -- | 12.69 | 0.00 | 8.20 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | 509 | **2,010** | **2,010** | <0.5 | <0.5 | 0.630 | 1.77 | -- | -- | -- | -- | | | -- | 11.30 | 0.00 | 9.59 | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | 259 | 393 | **1,120** | 2.64 | 3.01 | 1.39 | 6.77 | -- | -- | -- | -- | | | -- | 12.46 | 0.00 | 8.43 | -- |
| | 01/14/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/30/04 | 627 | **863** | **3,360** | 3.69 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.55 | Sheen | 9.34 | 1.71 |
| | 06/22/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/29/04 | 390 | **32,800** | **219,000** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 12.03 | Sheen | 8.86 | 1.40 |
| | 12/29/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/17/05 | 402 | **758** | **4,130** | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.89 | Sheen | 9.00 | 0.20 |
| | 06/02/05 | 433 | **692**[cj] | **3,760** | <1 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 11.30 | 0.00 | 9.59 | 1.00 |
| | 07/26/05 | 216 | **596**[c] | **1,600** | <0.2 | <0.2 | <0.2 | <0.500 | <1 | <0.5 | -- | -- | | | -- | 11.35 | 0.00 | -- | 0.20 |
| 30.08 | 11/07/05 | 269 | <243 | <485 | <0.5 | <0.5 | <0.5 | 3.58 | <1 | -- | -- | -- | | | -- | 11.66 | 0.00 | 18.42 | NM [o] |
| | 02/23/06 | 397 | <248 | **546** | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | **7.35** | -- | | | -- | -- | -- | -- | -- |
| | 05/10/06 | 207 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | 1.84 | -- | | | -- | 12.50 | 0.00 | 17.58 | 0.67 |
| | 08/29/06 | 81.5 | <236 | <472 | 0.940 | <0.5 | <0.5 | <3.00 | <1 | <5 | 2.01 | -- | | | -- | 12.87 | 0.00 | 17.21 | 0.30 |
| | 12/12/06 | 540 | <243 | <485 | 2.51 | 0.600 | 0.520 | <3.00 | <1 | <5 | <1 | -- | | | -- | 11.92 | 0.00 | 18.16 | 0.32 |
| | 03/07/07 | 216 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | 1.08 | -- | | | -- | 10.63 | 0.00 | 19.45 | 0.35 |
| | 06/14/07 | 179 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | 1.05 | -- | | | -- | 11.71 | 0.00 | 18.37 | 0.51 |
| | 09/14/07 | 65.8 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 12.08 | 0.00 | 18.00 | 0.30 |
| | 12/17/07 | 203 | <236 | <472 | <1 | <1 | <1 | <2 | <1 | -- | **7.37** | -- | | | -- | 10.10 | 0.00 | 19.98 | -- |
| | 03/17/08 | 411 | <236 | <472 | **<236** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **4.10** | | | <1 | -- | -- | -- | -- |
| | 06/02/08 | 272 | <240 | <481 | <0.5 | 0.68 | <0.5 | <3 | <1 | <5 | **6.39** | <1 | | | <240 | 11.22 | 0.00 | 18.86 | -- |
| | 08/04/08 | 149 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **12.5** | <1 | | | <236 | 14.00 | 0.00 | 16.08 | -- |
| | 11/03/08 | 350 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <0.500 | **4.97** | <1.00 | | | <240 | 12.50 | 0.00 | 17.58 | -- |
| | 02/23/09 | 330 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | **7.09** | <1.00 | | | <240 | 11.96 | 0.00 | 18.12 | -- |
| | 05/17/09 | 281 | <238 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **4.64** | <1.00 | | | <238 | 13.85 | 0.00 | 16.23 | |
| | 08/16/09 | Insufficient volume of water to fill sample containers. | | | | | | | | | | | | | | 17.95 | 0.00 | 12.13 | |
| | 11/15/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | |
| | 02/21/10 | 609 | **1,070** | **771** | 1.9 | <1.0 | <1.0 | 6.1 | -- | 2.1 | **3.9** | 0.39 | | | **711** | 10.52 | 0.00 | 19.56 | |
| | 05/23/10 | 480 | **861** | **909** | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **7.7** | 0.25 | | | **810** | 10.66 | 0.00 | 19.42 | |
| | 08/15/10 | Inaccessible | | | | | | | | | | | | | | | | | |
| | 11/14/10 | 500 | 109 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | 235 | 10.07 | 0.00 | 20.01 | |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | |
| **MW-41** | 11/05/91 | **<1,000** | **<1,000** | -- | **67** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 27.00 | 12/29/93 | <100 | <250 | **<750** | 4.6 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | 11.24 | 0.00 | 15.76 | -- |
| | 07/14/94 | <100 | <250 | **<750** | **10** | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | 10.81 | 0.00 | 16.19 | -- |
| | 10/25/94 | <50 | **500** | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 13.69 | 0.00 | 13.31 | -- |
| | 03/08/95 | <50 | <250 | **<750** | 1.6 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 14.72 | -- | 12.28 | -- |
| | 06/06/95 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 15.02 | -- | 11.98 | -- |
| | 09/07/95 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 15.00 | -- | 12.00 | -- |
| | 12/08/95 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 16.30 | -- | 10.70 | -- |
| | 04/01/96 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 15.02 | -- | 11.98 | -- |
| | 06/25/96 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 15.07 | -- | 11.93 | -- |
| | 09/27/96 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 15.42 | 0.00 | 11.58 | -- |
| | 03/28/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 15.27 | 0.00 | 11.73 | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/02/05 | <100 | <237 | <474 | <1 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 15.48 | 0.00 | 11.52 | 1.40 |
| | 07/26/05 | <50 | 258[c] | **977** | <0.2 | <0.2 | <0.2 | <0.50 | <1 | <0.5 | -- | -- | | | -- | 15.88 | 0.00 | -- | 5.70 |
| 36.25 | 11/02/05 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | -- | -- | -- | -- | -- | -- | 15.89 | 0.00 | 20.36 | 0.80 |
| | 02/23/06 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | 1.32 | -- | -- | -- | -- | 15.26 | 0.00 | 20.99 | -- |
| | 05/09/06 | <50 | <253 | **<505** | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <1 | 1.56 | -- | -- | -- | -- | 15.47 | 0.00 | 20.78 | 0.57 |
| | 08/30/06 | <80 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | -- | -- | -- | 15.90 | 0.00 | 20.35 | 0.80 |
| | 12/12/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | **8.79** | -- | -- | -- | -- | 15.81 | 0.00 | 20.44 | 1.42 |
| | 03/07/07 | <50 | <263 | **<526** | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | -- | -- | -- | 15.38 | 0.00 | 20.87 | 0.32 |
| | 06/14/07 | 79.2 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | -- | -- | -- | 15.45 | 0.00 | 20.80 | 0.53 |
| | 09/13/07 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | **2.56** | -- | -- | -- | -- | 15.61 | 0.00 | 20.64 | 0.28 |
| | 12/18/07 | <50 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | **2.73** | -- | -- | -- | -- | 15.46 | 0.00 | 20.79 | -- |
| | 03/17/08 | <50 | <236 | <472 | **<236** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | -- | <1 | 15.33 | -- | 20.92 | -- |
| | 06/03/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | -- | -- | <236 | 15.31 | 0.00 | 20.94 | -- |
| | 08/04/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | -- | -- | <236 | 15.59 | 0.00 | 20.66 | -- |
| | 11/04/08 | <50.0 | <245 | <490 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | -- | -- | <245 | 15.80 | 0.00 | 20.45 | -- |
| | 02/24/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | -- | -- | <240 | 15.60 | 0.00 | 20.65 | -- |
| | 05/17/09 | <50.0 | <250 | <500 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | 2.05 | <1.00 | -- | -- | <250 | 15.78 | 0.00 | 20.47 | -- |
| | 08/16/09 | <50 | 470 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | -- | -- | <240 | 16.25 | 0.00 | 20.00 | -- |
| | 11/15/09 | <50 | <280 | **<560** | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | -- | -- | -- | -- | <280 | 16.50 | 0.00 | 19.75 | -- |
| | 02/21/10 | <50.0 | 98.4 | <379 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.8 | <0.10 | -- | -- | <75.8 | 15.50 | 0.00 | 20.75 | -- |
| | 05/23/10 | <50.0 | <76.9 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.35 | <0.10 | -- | -- | <76.9 | 15.42 | 0.00 | 20.83 | -- |
| | 08/16/10 | Unable to gauge and sample; Well damaged. | | | | | | | | | | | | | | | | | -- |
| | 11/15/10 | <50.0 | <77.7 | <388 | <1.0 | 1.8 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | -- | -- | <77.7 | 15.24 | 0.00 | 21.01 | -- |
| | 02/28/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | -- | -- | <77.7 | 15.09 | 0.00 | 21.16 | -- |
| | 06/14/11 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 0.51 | <0.10 | -- | -- | -- | 15.13 | 0.00 | 21.12 | -- |
| | 08/29/11 | <50.0 | <84.2 | <421 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <0.10 | <0.10 | -- | -- | <84.2 | 15.19 | 0.00 | 21.06 | -- |
| | 12/05/11 | <50.0 | <85.1 | <426 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | 0.16 | 0.11 | -- | -- | <85.1 | 15.32 | 0.00 | 20.93 | -- |
| | 02/15/12 | <50.0 | <76.2 | <381 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.0 | <10.0 | <10.0 | -- | -- | <76.2 | 15.19 | 0.00 | 21.06 | -- |
| | 05/16/12 | <50.0 | <81.6 | <408 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | -- | -- | <81.6 | 14.92 | 0.00 | 21.33 | -- |
| | 08/14/12 | <50.0 | <88.9 | <444 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | -- | -- | <88.9 | 15.10 | 0.00 | 21.15 | -- |
| **MW-42** | 11/05/91 | **<1,000** | **<1,000** | -- | **180** | 2.9 | 0.8 | 4.7 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 20.34 | 12/30/93 | <100 | **1,300** | **2,400** | **570** | 0.5 | <0.5 | 0.7 | -- | -- | -- | -- | | | -- | 9.62 | 0.00 | 10.72 | -- |
| | 04/07/94 | <200 | **840** | **1,100** | **620** | <1 | <1 | <1 | -- | -- | -- | -- | | | -- | 9.36 | 0.00 | 10.98 | -- |
| | 07/15/94 | <100 | **540** | **850** | **490** | 0.6 | <0.5 | 0.5 | -- | -- | -- | -- | | | -- | 9.26 | 0.00 | 11.08 | -- |
| | 10/26/94 | 92 | **1,300** | **2,500** | **530** | 0.55 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.92 | 0.00 | 10.42 | -- |
| | 03/08/95 | 130 | **670** | **1,200** | **790** | <25 | <25 | <50 | -- | -- | -- | -- | | | -- | 9.45 | 0.00 | 10.89 | -- |
| | 06/06/95 | 120 | **920** | **1,500** | **500** | <0.56 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.37 | 0.00 | 10.97 | -- |
| | 09/07/95 | **3,000** | **780** | **1,200** | **210** | 4.1 | 42 | 230 | -- | -- | -- | -- | | | -- | 9.50 | 0.00 | 10.84 | -- |
| | 12/08/95 | 200 | **1,300** | **1,900** | **380** | <2 | <2 | <4.0 | -- | -- | -- | -- | | | -- | 8.95 | 0.00 | 11.39 | -- |
| | 04/01/96 | 180 | **650** | **<750** | **280** | 0.52 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 9.03 | 0.00 | 11.31 | -- |
| | 06/25/96 | 150 | **720** | **<750** | **150** | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 9.07 | 0.00 | 11.27 | -- |
| | 09/27/96 | <250 | **534** | **<750** | **228** | <2.5 | <2.5 | <5.00 | -- | -- | -- | -- | | | -- | 9.12 | 0.00 | 11.22 | -- |
| | 03/28/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.09 | 0.00 | 11.25 | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.92 | 0.00 | 11.42 | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.57 | 0.00 | 10.77 | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | -- | -- | -- |
| | 03/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.53 | 0.00 | 10.81 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 06/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.51 | 0.00 | 10.83 | -- |
| | 09/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.96 | 0.00 | 10.38 | -- |
| | 12/17/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.10 | 0.00 | 11.24 | -- |
| | 03/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.00 | 0.00 | 11.34 | -- |
| | 06/30/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.60 | 0.00 | 11.74 | -- |
| | 12/08/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.00 | 0.00 | 12.34 | -- |
| | 06/20/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/19/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/15/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.41 | 0.00 | 10.93 | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.66 | 0.00 | 10.68 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.28 | 0.00 | 10.06 | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.75 | 0.00 | 10.59 | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.81 | 0.00 | 9.53 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.89 | 0.00 | 9.45 | -- |
| | 03/13/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.77 | 0.00 | 10.57 | -- |
| | 06/12/03 | Not Sampled | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/02/05 | 198 | --[e] | --[e] | 4.67 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 9.52 | 0.00 | 10.82 | 1.50 |
| | 06/16/05 | -- | 97[f] | <250 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.34 | 0.00 | 11.00 | 1.00 |
| | 07/26/05 | 117 | <250 | <500 | 2.95 | 0.340 | <0.2 | 0.900 | <1 | <0.5 | -- | -- | | | -- | 9.81 | 0.00 | 10.53 | 0.90 |
| 28.66 | 11/02/05 | 179 | <236 | <472 | **8.22** | <0.5 | <0.5 | <3.00 | <1 | -- | -- | -- | | | -- | 10.18 | 0.00 | 19.00 | 0.10 |
| | 02/22/06 | 193 | <248 | <495 | 2.23 | <0.5 | <0.5 | <3.00 | <1 [q] | <1 | <1 | -- | | | -- | 9.66 | 0.00 | 19.00 | -- |
| | 05/09/06 | 185 | <250 | <500 | 3.62 | 1.37 | 0.580 | <3.00 | <1 | <1 | <1 | -- | | | -- | 9.64 | 0.00 | 19.02 | 0.64 |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-43** | 11/05/91 | **<1,000** | **<1,000** | -- | **86** | 3.4 | 0.6 | 2.7 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 21.04 | 12/30/93 | 340 | 320 | **<750** | **82** | 0.5 | 11 | 100 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| | 07/14/94 | 360 | <250 | **<750** | **31** | <0.5 | 4.6 | 74 | -- | -- | -- | -- | | | -- | 10.70 | 0.00 | 10.34 | -- |
| | 10/26/94 | 160 | **580** | **<750** | **9.1** | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 11.34 | 0.00 | 9.70 | -- |
| | 03/08/95 | <50 | **650** | **2,400** | **25** | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 11.35 | 0.00 | 9.69 | -- |
| | 06/06/95 | <50 | **690** | **1,500** | **8.2** | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 11.45 | 0.00 | 9.59 | -- |
| | 09/07/95 | <50 | <250 | **850** | **10** | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 11.14 | 0.00 | 9.90 | -- |
| | 12/08/95 | <50 | **960** | **3,100** | **37** | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.85 | 0.00 | 10.19 | -- |
| | 04/01/96 | <50 | 300 | **<750** | 4.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.98 | 0.00 | 10.06 | -- |
| | 06/25/96 | <50 | 370 | **<750** | 2.57 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.06 | 0.00 | 9.98 | -- |
| | 09/27/96 | <50 | 339 | **<750** | 4.4 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.33 | 0.00 | 9.71 | -- |
| | 03/28/97 | <50 | <250 | **<750** | **5.89** | 0.884 | <0.5 | 2.47 | -- | -- | -- | -- | | | -- | 11.13 | 0.00 | 9.91 | -- |
| | 06/30/97[b] | <50 | <250 | **<750** | **59.2** | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 7.08 | 0.00 | 13.96 | -- |
| | 09/08/97[b] | 83 | <250 | **<750** | **35.5** | <0.5 | 2.10 | 3.08 | -- | -- | -- | -- | | | -- | 11.46 | 0.00 | 9.58 | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/16/98[b] | 76.3 | 408 | **<750** | **26.5** | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.09 | 0.00 | 9.95 | -- |
| | 06/26/98[b] | <50 | 346 | **<750** | **69.6** | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.26 | 0.00 | 9.78 | -- |
| | 09/23/98[b] | <50 | 267 | **<750** | **9.05** | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.75 | 0.00 | 9.29 | -- |
| | 12/17/98[b] | <50 | <250 | **<750** | **33.0** | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.07 | 0.00 | 9.97 | -- |
| | 03/31/99[b] | <50 | 267 | **<750** | **9.84** | <0.5 | 0.782 | 2.47 | -- | -- | -- | -- | | | -- | 10.97 | 0.00 | 10.07 | -- |
| | 06/30/99[b] | 146 | 253 | **<750** | **28.2** | 7.47 | 2.95 | 17.5 | -- | -- | -- | -- | | | -- | 9.97 | 0.00 | 11.07 | -- |
| | 12/08/99[b] | <50 | <250 | **<750** | **20.5** | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.06 | 0.00 | 9.98 | -- |
| | 06/20/00[b] | <50 | <250 | **<750** | 3.79 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.40 | 0.00 | 9.64 | -- |
| | 12/19/00[b] | 55.9 | 253 | **<749** | 2.97 | 0.948 | 0.730 | 4.78 | -- | -- | -- | -- | | | -- | 11.40 | 0.00 | 9.64 | -- |
| | 06/15/01[b] | <50 | 405 | **<750** | 0.670 | <0.5 | <0.5 | 1.22 | -- | -- | -- | -- | | | -- | 11.32 | 0.00 | 9.72 | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01[b] | <50 | <293 | **<587** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.46 | 0.00 | 9.58 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | 52 | 487 | <500 | **5.61** | 1.18 | 0.558 | 3.34 | -- | -- | -- | -- | | | -- | 11.17 | 0.00 | 9.87 | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02[c] | <100 | 303 | <500 | 0.669 | <2 | <1 | <1.50 | -- | -- | -- | -- | | | -- | 12.28 | 0.00 | 8.76 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | <50 | <321 | **<641** | 0.883 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 11.20 | 0.00 | 9.84 | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | <50 | <291 | **<581** | 1.76 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 12.37 | 0.00 | 8.67 | -- |
| | 01/14/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/30/04 | <100 | <129 | <258 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.95 | 0.00 | 9.09 | 1.76 |
| | 06/22/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/29/04 | 180 | <249 | <499 | 3.6 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 12.00 | 0.00 | 9.04 | 0.10 |
| | 12/29/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/17/05 | <100 | <250 | **<501** | 2.2 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.69 | 0.00 | 9.35 | 0.80 |
| | 06/02/05 | <100 | --[e] | --[e] | **15** | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 11.18 | 0.00 | 9.86 | 1.30 |
| | 06/16/05 | -- | <50 | <250 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 11.16 | 0.00 | 9.88 | 1.20 |
| | 07/26/05 | <50 | <250 | <500 | 4.24 | <0.2 | <0.2 | <0.500 | <1 | <0.5 | -- | -- | | | -- | 11.70 | 0.00 | -- | 0.70 |
| 30.21 | 11/01/05 | <50 | <236 | <472 | <0.2 | <0.5 | <0.5 | <1.00 | <2 | -- | -- | -- | | | -- | 11.45 | 0.00 | 18.76 | NM [o] |
| | 02/21/06 | <50 | <281 | **<562** | 1.16 | <0.5 | <0.5 | <3.00 | <1 | <1 | <1 | -- | | | -- | 10.99 | 0.00 | 19.22 | -- |
| | 05/09/06 | <50 | <236 | <472 | 1.13 | <0.5 | <0.5 | <3.00 | <1 | <1 | <1 | -- | | | -- | 11.40 | 0.00 | 18.81 | 0.47 |
| | 08/31/06 | <100 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 11.90 | 0.00 | 18.31 | 2.64 |
| | 12/13/06 | <50 | <240 | <481 | **10.3** | <0.5 | <0.5 | <3.00 | <1 | <5 | <1 | -- | | | -- | 10.87 | 0.00 | 19.34 | 0.11 |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-44** | 11/05/91 | **<1,000** | **<1,000** | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 18.73 | 07/15/94 | <100 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | 8.35 | 0.00 | 10.38 | -- |
| | 10/26/94 | <50 | 280 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.81 | 0.00 | 8.92 | -- |
| | 03/08/95 | <50 | 290 | **940** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.44 | 0.00 | 9.29 | -- |
| | 06/06/95 | <50 | <250 | **820** | <0.5 | <0.5 | <0.5 | 1.60 | -- | -- | -- | -- | | | -- | 8.28 | 0.00 | 10.45 | -- |
| | 09/07/95 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 7.94 | 0.00 | 10.79 | -- |
| | 12/08/95 | <50 | **520** | **2,500** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 8.09 | 0.00 | 10.64 | -- |
| | 04/01/96 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 7.98 | 0.00 | 10.75 | -- |
| | 06/25/96 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 7.90 | 0.00 | 10.83 | -- |
| | 09/27/96 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.28 | 0.00 | 10.45 | -- |
| | 03/28/97 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.07 | 0.00 | 10.66 | -- |
| | 06/30/97[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 7.84 | 0.00 | 10.89 | -- |
| | 09/08/97[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.65 | 0.00 | 10.08 | -- |
| | 12/19/97[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.51 | 0.00 | 10.22 | -- |
| | 03/16/98[b] | 60.0 | 310 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.43 | 0.00 | 10.30 | -- |
| | 06/26/98[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.37 | 0.00 | 10.36 | -- |
| | 09/23/98[b] | <50 | 343 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 9.30 | 0.00 | 9.43 | -- |
| | 12/17/98[b] | <50 | 271 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.10 | 0.00 | 10.63 | -- |
| | 03/31/99[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.18 | 0.00 | 10.55 | -- |
| | 06/30/99[b] | <50 | 393 | **<750** | <0.5 | 0.619 | <0.5 | 1.21 | -- | -- | -- | -- | | | -- | 8.03 | 0.00 | 10.70 | -- |
| | 12/08/99[b] | <50 | 281 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.52 | 0.00 | 10.21 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 06/20/00[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 9.53 | 0.00 | 9.20 | -- |
| | 12/19/00[b] | 301 | 330 | **<750** | <0.5 | 1.64 | 2.76 | 22.1 | -- | -- | -- | -- | | | -- | 9.20 | 0.00 | 9.53 | -- |
| | 06/15/01[b] | <50 | 468 | **<841** | <0.5 | <0.5 | <0.5 | <1.00 | -- | -- | -- | -- | | | -- | 8.44 | 0.00 | 10.29 | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01[b] | **10,300** | **4,250** | **849** | **1,050** | 6.97 | **945** | 51.0 | -- | -- | -- | -- | | | -- | 9.48 | 0.00 | 9.25 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | 90.6 | **823** | <500 | **10.9** | 1.40 | 0.644 | 4.04 | -- | -- | -- | -- | | | -- | 9.31 | 0.00 | 9.42 | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02[c] | <100 | **1,600** | **569** | **14.2** | <2 | <1 | <1.50 | -- | -- | -- | -- | | | -- | 10.79 | 0.00 | 7.94 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | 196 | 347 | **<575** | **26.8** | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 11.58 | 0.00 | 7.15 | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | 156 | <301 | **<602** | **20.2** | 0.997 | <0.5 | 2.61 | -- | -- | -- | -- | | | -- | 10.97 | 0.00 | 7.76 | -- |
| | 01/14/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/30/04 | <100 | <134 | <268 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 10.01 | 0.00 | 8.72 | 1.90 |
| | 06/22/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/29/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/29/04 | <100 | <260 | **<520** | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 9.24 | 0.00 | 9.49 | 0.30 |
| | 03/17/05 | <100 | <240 | <480 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 9.48 | 0.00 | 9.25 | 0.40 |
| | 06/02/05 | <100 | --[e] | --[e] | <1 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 8.30 | 0.00 | 10.43 | 1.20 |
| | 06/16/05 | -- | <50 | <250 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.32 | 0.00 | 10.41 | 1.30 |
| | 07/26/05 | <50 | <250 | <500 | <0.200 | <0.2 | <0.2 | <0.5 | <1 | <0.5 | -- | -- | | | -- | 8.76 | 0.00 | -- | 5.20 |
| 27.97 | 11/01/05 | <50 | <236 | <472 | <0.200 | <0.5 | <0.5 | <1 | <2 | -- | -- | -- | | | -- | 9.14 | 0.00 | 18.83 | NM [o] |
| | 02/21/06 | <50 | <263 | **<526** | <0.500 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.58 | 0.00 | 19.39 | -- |
| | 05/09/06 | <50 | <272 | **<543** | <0.500 | <0.5 | <0.5 | <3 | <1 | 7.98 | <1 | -- | | | -- | 9.29 | 0.00 | 18.68 | 0.59 |
| | 08/29/06 | <80 | <240 | <481 | <0.500 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.89 | 0.00 | 18.08 | 0.37 |
| **MW-44** | 03/06/07 | Not Sampled | | | | | | | | | | | | | | -- | -- | -- | -- |
| contd. | 11/04/08 | <50.0 | <248 | <495 | <0.500 | <0.500 | <0.500 | <3.00 | | <5.00 | <1.00 | <1.00 | | | <248 | 9.25 | 0.00 | 18.72 | -- |
| | 02/24/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <240 | 9.80 | 0.00 | 18.17 | -- |
| | 05/17/09 | <50.0 | <238 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | 1.01 | <1.00 | | | <238 | 11.97 | 0.00 | 16.00 | -- |
| | 08/17/09 | <50 | <240 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | 260 | 13.25 | 0.00 | 14.72 | -- |
| | 11/16/09 | <50 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **3.2** | <1 | | | <240 | 10.95 | 0.00 | 17.02 | -- |
| | 02/22/10 | <50.0 | 166 | <381 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.52 | <0.10 | | | <76.2 | 9.50 | 0.00 | 18.47 | -- |
| | 05/24/10 | <50.0 | 121 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.54 | <0.10 | | | <76.9 | 9.46 | 0.00 | 18.51 | -- |
| | 08/17/10 | <50.0 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.49 | 0.16 | | | <78.4 | 9.79 | 0.00 | 18.18 | -- |
| | 11/15/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 9.21 | 0.00 | 18.76 | -- |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | |
| | 11/20/12 | <50.0 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | **14.8** | **7.1** | -- | -- | <100 | 15.19 | 0.00 | 21.06 | -- |
| | 11/07/13 | <100 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | -- | -- | -- | 15.69 | 0.00 | 20.56 | -- |
| | 07/29/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.010 | <1.0 | -- | 15.72 | 0.00 | 20.53 | -- |
| 36.09 | 12/09/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0099 | <1.0 | -- | 15.70 | 0.00 | 20.39 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 15.42 | 0.00 | 20.67 | -- |
| | 06/22/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 15.57 | 0.00 | 20.52 | -- |
| | 09/10/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 15.81 | 0.00 | 20.28 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.58 | 0.00 | 25.51 | -- |
| | 06/28/16 | Not Gauged or Sampled. | | | | | | | | | | | | | | | | | |
| | 12/13/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 15.25 | 0.00 | 20.84 | -- |
| **MW-45** | 11/04/91 | **17,000** | **2,000** | -- | | 500 | **1,000** | 370 | **2,300** | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 18.11 | 12/29/93 | **11,000** | **1,100** | **860** | | **2,900** | **760** | 680 | **3,000** | -- | -- | -- | | | -- | 8.79 | 0.00 | 9.32 | -- |
| | 04/07/94 | **16,000** | **830** | **<750** | | **2,500** | 620 | 580 | **2,500** | -- | -- | -- | | | -- | 8.22 | 0.00 | -8.22 | -- |
| | 07/14/94 | **25,000** | **850** | **1,100** | | **4,000** | **750** | 870 | **3,600** | -- | -- | -- | | | -- | 8.39 | 0.00 | 9.72 | -- |
| | 10/25/94 | **19,000** | **1,000** | **<750** | | **2,600** | 230 | 920 | **3,000** | -- | -- | -- | | | -- | 9.10 | 0.00 | 9.01 | -- |
| | 09/07/01[b] | <50 | 375 | **<606** | | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | | | -- | 9.80 | 0.00 | 8.31 | -- |
| | 10/10/01 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | **17,300** | **2,210** | **597** | | **2,130** | 73.4 | **1,330** | **2,970** | -- | -- | -- | | | -- | 9.03 | 0.00 | 9.08 | -- |
| | 03/08/02 | **15,500** | **2,380** | **686** | | **2,090** | 38.4 | **1,190** | **1,650** | -- | -- | -- | | | -- | 9.12 | 0.00 | 8.99 | -- |
| | 06/24/02 | **5,100** | **1,920** | **761** | | **1,330** | 6.39 | 451 | **235** | -- | -- | -- | | | -- | 9.00 | 0.00 | 9.11 | -- |
| | 09/26/02[c] | **2,420** | **1,190** | **547** | | 394 | 3.41 | 204 | **106** | -- | -- | -- | | | -- | 10.20 | 0.00 | 7.91 | -- |
| | 12/12/02 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 03/13/03 | **3,590** | **2,050** | <500 | | 219 | 133 | 99.4 | **368** | -- | -- | -- | | | -- | 8.05 | 0.00 | 10.06 | -- |
| | 06/12/03 | **10,700** | **1,470** | **<575** | | **1,350** | 10.8 | **954** | **631** | -- | -- | -- | | | -- | 9.16 | 0.00 | 8.95 | -- |
| | 09/19/03 | 583 | <298 | **<595** | | 1.93 | 2.25 | 5.65 | **38.6** | -- | -- | -- | | | -- | 10.68 | 0.00 | 7.43 | -- |
| | 01/14/04 | 360 | <118 | <236 | | 4.97 | <0.5 | 2.48 | 1.01 | -- | -- | -- | | | -- | 10.12 | 0.00 | 7.99 | 0.40 |
| | 03/30/04 | 303 | 234 | <240 | | <1 | <1 | <1 | <2 | -- | -- | -- | | | -- | 10.19 | 0.00 | 7.92 | 0.84 |
| | 06/22/04 | 151 | 365 | 358 | | <1 | <1 | <1 | <2 | -- | -- | -- | | | -- | 10.34 | 0.00 | 7.77 | 0.70 |
| | 09/29/04 | 270 | <251 | **<503** | | <0.5 | 1.5 | 0.62 | 7.3 | -- | -- | -- | | | -- | 10.40 | 0.00 | 7.71 | 0.90 |
| | 12/29/04 | 207 | <249 | <498 | | 2.90 | <1 | <1 | 9.04 | -- | -- | -- | | | -- | 9.40 | 0.00 | 8.71 | 0.30 |
| | 03/17/05 | 235 | <239 | <477 | | 5.61 | 1.08 | 2.49 | 19.1 | -- | -- | -- | | | -- | 9.44 | 0.00 | 8.67 | 1.20 |
| | 06/01/05 | 793 | 283[tj] | <491[j] | | 17.1 | 37.9 | 13.9 | **83.8** | <1 | -- | -- | | | -- | 8.62 | 0.00 | 9.49 | 1.30 |
| | 07/25/05 | 564 | <250 | **<500** | | 18.6 | 14.6 | 16.7 | **113.2** | <1 | **7.51** | -- | | | -- | 8.98 | 0.00 | -- | 3.20 |
| 27.52 | 11/01/05 | 100 | <240 | <481 | | <0.200 | <0.5 | <0.5 | <1 | <2 | -- | -- | | | -- | 9.81 | 0.00 | 17.71 | NM [o] |
| | 02/21/06 | 484 | <275 | **<549** | | 5.13 | <0.5 | 7.65 | **36.5** | <1 | **3.77** | 1.30 | | | -- | 8.83 | 0.00 | 18.69 | -- |
| | 05/08/06 | 198 | **540** | **<500** | | 1.06 | <0.5 | 0.980 | 2.70 | <1 | 1.69 | <1 | | | -- | 8.79 | 0.00 | 18.73 | 1.00 |
| | 08/30/06 | 104 | <248 | <495 | | <0.5 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | | | -- | 9.84 | 0.00 | 17.68 | 3.03 |
| | 12/12/06 | **25,900** | **662** | <485 | | 64.1 | 23.8 | 330 | **5,020** | <5 | **278** | **10.8** | | | -- | 9.13 | 0.00 | 18.39 | 1.49 |
| | 03/06/07 | **1,680** | <260 | **<521** | | <0.5 | <0.5 | 22.0 | **139** | <1 | **54** | <1 | | | -- | 8.75 | 0.00 | 18.77 | 0.30 |
| | 06/15/07 | **12,500** | 439 | <481 [r] | | 16.8 | 2.77 | 178 | **1,590** | <1 | **330** | 1.77 | | | -- | 8.85 | 0.00 | 18.67 | 0.24 |
| | 09/13/07 | **23,400** | 328 | <481 | | 65.3 | 16.9 | 303 | **3,740** | <1 | **246** | **6.85** | | | -- | 9.07 | 0.00 | 18.45 | 0.15 |
| | 12/17/07 | Unable to sample, well under water | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/18/08 | <50 | <236 | <472 | **<236** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | | | <1 | 8.30 | 0.00 | 19.22 | -- |
| | 06/03/08 | Unable to sample, well under water | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/05/08 | 64.4 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.39 | <1 | | | <236 | 8.90 | 0.00 | 18.62 | -- |
| | 11/03/08 | Well under water, unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 02/22/09 | 53.2 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | -- | 15.0 | <1.00 | <1.00 | | | <236 | 11.44 | 0.00 | 8.38 | -- |
| | 05/17/09 | 176.0 | 428 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | 97.9 | <1.00 | <1.00 | | | 431 | 16.67 | 0.00 | 10.85 | -- |
| | 08/16/09 | 250 | **570** | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | 100 | <5.0 | <5.0 | | | **1200** | 16.92 | 0.00 | 10.60 | -- |
| | 11/15/09 | **1000** | **2,200[r]** | <480 | 3.9 | 2.2 | 11 | 28 | <1.0 | 14 | **9.2** | <1 | | | **2,100[r]** | 9.12 | 0.00 | 18.40 | -- |
| | 02/21/10 | 745 | **1,160** | **832** | 3.9 | <1.0 | 34 | 23.2 | -- | 14.5 | **4.7** | <0.10 | | | **566** | 8.46 | 0.00 | 19.06 | -- |
| | 05/23/10 | 398 | **692** | **449** | 1.3 | <1.0 | 14.5 | 4 | -- | 7.9 | **3.1** | <0.10 | | | **665** | 8.15 | 0.00 | 19.37 | -- |
| | 08/16/10 | 319 | <77.7 | <388 | <1.0 | <1.0 | 5.8 | <3.0 | -- | 7.5 | **7.2** | 0.37 | | | 177 | 8.80 | 0.00 | 18.72 | -- |
| | 11/16/10 | **1,880** | 106 | <388 | **5.8** | 1.3 | 43.1 | 212 | -- | 28.4 | <10.0 | <10.0 | | | **547** | 8.15 | 0.00 | 19.37 | -- |
| | 02/28/11 | **10,500** | 347 | <388 | **17.6** | 3.3 | 172.0 | 479 | -- | 150.0 | <10.0 | -- | | | **2,750** | 8.66 | 0.00 | 18.86 | -- |
| | 06/14/11 | **3,230** | 137 | <396 | 1.7 | <1.0 | 46.8 | 34 | -- | -- | 1.8 | <0.10 | | | **--** | 8.85 | 0.00 | 18.67 | -- |
| | 08/29/11 | **1,790** | 119 | <421 | <1.0 | <1.0 | 5.1 | <3.0 | -- | 36.5 | 0.4 | <0.10 | | | 489 | 8.62 | 0.00 | 18.90 | -- |
| | 12/05/11 | **19,900** | 298 | <426 | **20.5** | 5.7 | 327 | **2,240** | -- | **213** | 2.1 | 0.34 | | | **6,960** | 7.80 | 0.00 | 19.72 | -- |
| | 02/15/12 | **14,000** | 219 | <404 | **11.6** | 2.7 | 203 | 631 | -- | **206.0** | <10.0 | <10.0 | | | **2,470** | 9.05 | 0.00 | 18.47 | -- |
| | 05/15/12 | **3,920** | 211 | <421 | <5.0 | <5.0 | 77.0 | 122 | -- | 75.4 | <10.0 | <10.0 | | | **1,330** | 8.14 | 0.00 | 19.38 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 08/14/12 | **1,600** | 206 | <430 | <1.0 | <1.0 | 7.3 | <3.0 | -- | 33.7 | <10.0 | <10.0 | | | **676** | 8.78 | 0.00 | 18.74 | -- |
| | 11/20/12 | **4,130** | **1,900** | <100 | **6.0** | 2.8 | 105 | 612 | -- | 99.3 | **3.7** | <3.0 | | | **2,500** | 4.37 | -- | 23.15 | |
| | 11/06/13 | 281 | <400 | <400 | <1.0 | 1.3 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 10.50 | 0.00 | 17.02 | -- |
| 28.06 | 07/29/14 | Well was dry | | | | | | | | | | | | | | | | | |
| 27.91 | 12/08/14 | 323 | -- | -- | **6.2** | <1.0 | 1.6 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 10.95 | 0.00 | 16.57 | -- |
| | 03/23/15 | **917** | -- | -- | **2.0** | <1.0 | 20.4 | 53.8 | -- | -- | -- | -- | -- | -- | -- | 9.23 | 0.00 | 18.29 | -- |
| | 06/22/15 | 474 | -- | -- | **5.1** | <1.0 | 18.3 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.57 | 0.00 | 16.95 | -- |
| | 09/10/15 | 150 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.11 | 0.00 | 17.41 | -- |
| | 12/07/15 | 748 | -- | -- | 2.1 | <1.0 | 20.3 | 3.4 | -- | -- | -- | -- | -- | -- | -- | 8.09 | 0.00 | 19.43 | -- |
| | 06/28/16 | Unable to access well, not gauged or sampled. | | | | | | | | | | | | | | | | | -- |
| | 12/13/16 | Unable to access well, not gauged or sampled. | | | | | | | | | | | | | | | | | -- |
| | 06/29/17 | Well dewatered. | | | | | | | | | | | | | | | | | -- |
| | 12/13/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | | | -- | 14.05 | 0.00 | 13.47 | -- |
| | 06/13/18 | Unable to access well, not gauged or sampled. | | | | | | | | | | | | | | | | | -- |
| | 01/03/19 | **1,230** | -- | -- | 1.4 | 0.51J | 34.1 | 5.6 | -- | -- | <2.0 | 2.1J | | | -- | 8.50 | 0.00 | 19.02 | |
| **MW-46** | 11/05/91 | **<1,000** | **<1,000** | -- | <0.5 | 0.6 | <0.5 | 1.2 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 16.91 | 07/15/94 | <100 | 270 | **1,200** | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | 7.15 | 0.00 | 9.76 | -- |
| | 10/25/94 | <50 | **1,500** | **7,300** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 8.51 | 0.00 | 8.40 | -- |
| | 03/08/95 | <50 | **720** | **3,600** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 8.00 | 0.00 | 8.91 | -- |
| | 06/06/95 | <50 | <250 | **1,400** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 7.30 | 0.00 | 9.61 | -- |
| | 09/07/95 | <50 | **710** | **5,600** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 7.80 | 0.00 | 9.11 | -- |
| | 12/08/95 | <50 | **1,400** | **14,000** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 8.32 | 0.00 | 8.59 | -- |
| | 04/01/96 | <50 | <400 | **2,800** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 7.04 | 0.00 | 9.87 | -- |
| | 06/25/96 | <50 | 440 | **2,090** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 7.85 | 0.00 | 9.06 | -- |
| | 09/27/96 | <50 | 267 | **<750** | 0.518 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 7.57 | 0.00 | 9.34 | -- |
| | 03/28/97 | <50 | <250 | **<750** | <0.5 | 1.25 | <0.5 | 2.06 | -- | -- | -- | -- | | | -- | 7.25 | 0.00 | 9.66 | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 7.12 | 0.00 | 9.79 | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.82 | 0.00 | 8.09 | -- |
| | 12/19/97[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.40 | 0.00 | 7.51 | -- |
| | 03/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/17/98[b] | <50 | 354 | **<750** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 9.20 | 0.00 | 7.71 | -- |
| | 03/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/30/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/08/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/20/00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/19/00 | 226 | 277 | **<750** | <0.5 | 2.18 | 2.53 | 18.0 | -- | -- | -- | -- | | | -- | 12.70 | 0.00 | 4.21 | -- |
| | 06/15/01[b] | <50 | 295 | **<750** | <0.5 | <0.5 | <0.5 | 1.39 | -- | -- | -- | -- | | | -- | 7.19 | 0.00 | 9.72 | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | Covered by asphalt | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 03/08/02 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02 | Unable to locate | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 12/12/02 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | Covered by asphalt | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/12/03 | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | Covered by asphalt | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 01/14/04 | Monitoring Discontinued | | | | | | | | | | | | | | | | | -- |
| | | Abandoned or Damaged - To be decomissioned at a later date | | | | | | | | | | | | | | | | | |
| **MW-47** | 11/05/91 | **<1,000** | **<1,000** | -- | **5.2** | 0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| 19.83 | 12/30/93 | <100 | 310 | **<750** | 2.0 | <0.5 | <0.5 | 1.0 | -- | -- | -- | -- | | | -- | 9.50 | 0.00 | 10.33 | -- |
| | 04/07/94 | <100 | 300 | **<750** | 2.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | 10.47 | 0.00 | 9.36 | -- |
| | 07/14/94 | <100 | 290 | **<750** | 1.6 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | | | -- | 10.51 | 0.00 | 9.32 | -- |
| | 10/25/94 | 51 | 270 | **<750** | 1.8 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 11.02 | 0.00 | 8.81 | -- |
| | 03/08/95 | <50 | 330 | **1,600** | **5.3** | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.88 | 0.00 | 8.95 | -- |
| | 06/06/95 | 70 | 380 | **780** | **15** | 0.59 | <0.5 | 2.3 | -- | -- | -- | -- | | | -- | 10.91 | 0.00 | 8.92 | -- |
| | 09/07/95 | <50 | 260 | **<750** | 1.7 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.76 | 0.00 | 9.07 | -- |
| | 12/08/95 | 740 | **580** | **2,000** | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.40 | 0.00 | 9.43 | -- |
| | 04/01/96 | <50 | <250 | **<750** | 4.4 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.67 | 0.00 | 9.16 | -- |
| | 06/25/96 | 110 | 400 | **<750** | **14.4** | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.71 | 0.00 | 9.12 | -- |
| | 09/27/96 | <50 | <250 | **<750** | 4.34 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 10.85 | 0.00 | 8.98 | -- |
| | 03/28/97[b] | 64.5 | <250 | **<750** | **7.61** | <0.5 | <0.5 | 1.57 | -- | -- | -- | -- | | | -- | 10.92 | 0.00 | 8.91 | -- |
| | 03/28/97 | 177 | <250 | **<750** | **52.6** | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.92 | 0.00 | 8.91 | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/19/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/26/98[b] | <50 | 356 | **<750** | **27.3** | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.78 | 0.00 | 9.05 | -- |
| | 09/23/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/17/98[b] | <50 | <250 | **<750** | 3.34 | <0.5 | <0.5 | 1.12 | -- | -- | -- | -- | | | -- | 10.61 | 0.00 | 9.22 | -- |
| | 03/31/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.65 | 0.00 | 10.18 | -- |
| | 06/30/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/08/99 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/20/00[b] | <50 | <250 | **<750** | <1.30 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.94 | 0.00 | 8.89 | -- |
| | 12/19/00[b] | **1,310** | 357 | **<750** | <0.5 | 6.10 | 10.6 | 77.3 | -- | -- | -- | -- | | | -- | 11.20 | 0.00 | 8.63 | -- |
| | 06/15/01 | <50 | **591** | **<952** | 0.709 | 0.504 | <0.5 | 1.18 | -- | -- | -- | -- | | | -- | 10.98 | 0.00 | 8.85 | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01[b] | <50 | 356 | <500 | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 11.14 | 0.00 | 8.69 | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | 181 | **542** | <500 | **7.64** | 1.49 | 4.79 | 37.8 | -- | -- | -- | -- | | | -- | 10.90 | 0.00 | 8.93 | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02[c] | 106 | **747** | <500 | 2.36 | <2 | <1.00 | <1.5 | -- | -- | -- | -- | | | -- | 11.85 | 0.00 | 7.98 | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | 75.5 | <284 | **<568** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.91 | 0.00 | 8.92 | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | 76.8 | <294 | **<588** | 3.41 | <0.5 | <0.5 | 1.14 | -- | -- | -- | -- | | | -- | 12.05 | 0.00 | 7.78 | -- |
| | 01/14/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/30/04 | 272 | 262 | **980** | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.81 | 0.00 | 8.02 | 1.21 |
| | 06/22/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/29/04 | 200 | 329 | **735** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 11.87 | 0.00 | 7.96 | 0.20 |
| | 12/29/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/17/05 | 166 | <248 | <495 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.62 | 0.00 | 8.21 | 0.80 |
| | 06/01/05 | 217 | <252 | **616[f]** | <1 | <1 | <1 | <2 | 1.3 | -- | -- | -- | | | -- | 11.25 | 0.00 | 8.58 | 1.70 |
| | 07/25/05 | 162 | <250 | <500 | <0.2 | <0.2 | <0.2 | <0.5 | 1.18 | <0.5 | -- | -- | | | -- | 11.36 | 0.00 | -- | 1.00 |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| 29.34 | 11/04/05 | 99.2 | <236 | <472 | <0.5 | <0.5 | <0.5 | <1 | <1 | -- | -- | -- | | | -- | 11.42 | 0.00 | 17.92 | NM [o] |
| | 02/22/06 | 73.5 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | 1.06 | <1 | <1 | -- | | | -- | 11.24 | 0.00 | 18.10 | -- |
| | 05/09/06 | 97.8 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 11.41 | 0.00 | 17.93 | 1.24 |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-48** | 06/01/05 | 357 | 294[g] | <494 | <1 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 9.40 | 0.00 | -- | 1.30 |
| 27.98 | 07/25/05 | 334 | <250 | <500 | <0.2 | <0.2 | <0.2 | <0.5 | <1 | <0.5 | -- | -- | | | -- | 9.48 | 0.00 | -- | 0.60 |
| | 11/04/05 | 278 | <236 | <472 | <0.5 | <0.5 | <0.5 | <1 | <1 | -- | -- | -- | | | -- | 9.35 | 0.00 | 18.63 | NM [o] |
| | 02/22/06 | **6,460** | <258 | **<515** | **139** | 26.8 | 219 | **1140** | <20.0[q] | 41 | <1 | -- | | | -- | 9.41 | 0.00 | 18.57 | -- |
| | 05/09/06 | 325 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 9.12 | 0.00 | 18.86 | 0.32 |
| | 08/30/06 | 176 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.40 | 0.00 | 17.58 | 1.79 |
| | 12/13/06 | 275 | <240 | <481 | <0.5 | <0.5 | 0.870 | 4.44 | <1 | <5 | <1 | -- | | | -- | -- | -- | -- | 0.09 |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-49** | 07/25/05 | 313 | **2,060** | **6,590** | <0.2 | <0.2 | <0.200 | 0.3 | <1 | 0.550 | -- | -- | | | -- | 3.82 | 0.00 | -- | 3.20 |
| 22.36 | 11/02/05 | <50 | <236 | <472 | 0.200 | <0.5 | 0.660 | 1.06 | <2 | -- | -- | -- | | | -- | 3.60 | 0.00 | 18.76 | NM [o] |
| | 02/24/06 | 380 | 457 | **<556** | <0.5 | <0.5 | 3.45 | 9.35 | <1 | 1.52 | 1.69 | -- | | | -- | -- | -- | -- | -- |
| | 05/11/06 | 201 | **2,550[p]** | **625[p]** | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | 2.21 | -- | | | -- | 3.59 | 0.00 | 18.77 | 0.54 |
| | 08/31/06 | <100 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **5.73** | -- | | | -- | 4.73 | 0.00 | 17.63 | 1.19 |
| | 12/13/06 | 197 | <240 | **679** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **3.33** | -- | | | -- | 4.03 | 0.00 | 18.33 | 1.30 |
| | 03/07/07 | 232 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1.85 | -- | | | -- | 3.47 | 0.00 | 18.89 | 0.09 |
| | 06/13/07 | 178 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 2.42 | -- | | | -- | 3.59 | 0.00 | 18.77 | 0.88 |
| | 09/12/07 | 68.7 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 2.47 | -- | | | -- | 3.76 | 0.00 | 18.60 | 0.17 |
| | 12/19/07 | 308 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | **13** | -- | | | -- | 2.59 | 0.00 | 19.77 | -- |
| | 03/18/08 | <50 | <236 | <472 | **<236** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **12.9** | | | <1 | 3.12 | 0.00 | 19.24 | -- |
| | 06/03/08 | 51.8 | <236 | <472 | 1.38 | <0.5 | <0.5 | <3 | <1 | <5 | **6.12** | <1 | | | <236 | 3.55 | 0.00 | 18.81 | -- |
| | 08/06/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **28.1** | <1 | | | <236 | 4.09 | 0.00 | 18.27 | -- |
| | 11/04/08 | Well under water, unable to sample. | | | | | | | | | | | | | | 3.13 | 0.00 | 19.23 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| | 11/20/12 | **4,130** | **1,900** | <100 | **6.0** | 2.8 | 105 | 612 | -- | 99.3 | **3.7** | <3.0 | | | **2,500** | 4.37 | -- | 23.15 | |
| | 11/06/13 | 281 | <400 | <400 | <1.0 | 1.3 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 10.50 | 0.00 | Note Z | -- |
| 28.06 | 07/29/14 | Well was dry | | | | | | | | | | | | | | | | | |
| 27.91 | 12/08/14 | 323 | -- | -- | **6.2** | <1.0 | 1.6 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 10.95 | 0.00 | 16.96 | -- |
| | 03/23/15 | **917** | -- | -- | **2.0** | <1.0 | 20.4 | 53.8 | -- | -- | -- | -- | -- | -- | -- | 9.23 | 0.00 | 18.68 | -- |
| | 06/22/15 | 474 | -- | -- | **5.1** | <1.0 | 18.3 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.57 | 0.00 | 17.34 | -- |
| | 09/10/15 | 150 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.11 | 0.00 | 17.80 | -- |
| | 12/07/15 | 748 | -- | -- | 2.1 | <1.0 | 20.3 | 3.4 | -- | -- | -- | -- | -- | -- | -- | 8.09 | 0.00 | 19.82 | -- |
| | 06/28/16 | Unable to access well, not gauged or sampled. | | | | | | | | | | | | | | | | | -- |
| | 12/13/16 | Unable to access well, not gauged or sampled. | | | | | | | | | | | | | | | | | -- |
| **MW-50** | 10/10/01 | **8,970** | **2,200** | <606 | | 674 | 221 | 382 | **779** | -- | -- | -- | | | | 11.11 | 0.00 | 8.69 | -- |
| 19.80 | 12/28/01 | **23,200** | **3,460** | <500 | | 1,630 | 3,690 | 991 | **4,480** | -- | -- | -- | | | | 10.45 | 0.00 | 9.35 | -- |
| | 03/08/02 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/24/02 | **8,290** | **1,970** | 556 | | 414 | 23 | 314 | **2,010** | -- | -- | -- | | | | 10.84 | 0.00 | 8.96 | -- |
| | 09/26/02 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 12/12/02 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 03/13/03 | **12,200** | **1,810** | <588 | | 733 | 127 | 523 | **1,100** | -- | -- | -- | | | | 9.93 | 0.00 | 9.87 | -- |
| | 06/12/03 | **6,450** | **1,740** | <500 | | 448 | 13.7 | 299 | **286** | -- | -- | -- | | | | 11.27 | 0.00 | 8.53 | -- |
| | 09/19/03 | **4,440** | <250 | <500 | | 51.7 | 315 | 26.1 | **462** | -- | -- | -- | | | | 12.05 | 0.00 | 7.75 | -- |
| | 01/14/04 | **29,700** | **1,970** | <258 | | 308 | 502 | 312 | **6,180** | -- | -- | -- | | | | 11.81 | 0.00 | 7.99 | 4.10 |
| | 03/30/04 | **3,330** | **867** | <241 | | 21.8 | <5 | 21.9 | **226.4** | -- | -- | -- | | | | 11.65 | 0.00 | 8.15 | 1.69 |
| | 06/22/04 | **2,130** | **874** | <237 | | 14.2 | 2.4 | 27.9 | **85.11** | -- | -- | -- | | | | 11.79 | 0.00 | 8.01 | 1.10 |
| | 09/29/04 | **3,600** | **1,330** | <502 | | 92 | 62 | 100 | **520** | -- | -- | -- | | | | 11.71 | 0.00 | 8.09 | 0.20 |
| | 12/29/04 | **1,570** | **745** | <611 | | 9.69 | 3.88 | 9.98 | **27.62** | -- | -- | -- | | | | 11.01 | 0.00 | 8.79 | 1.50 |
| | 03/17/05 | **1,420** | **1,060** | 506 | | 5.82 | 2.41 | 10.6 | **30.59** | -- | -- | -- | | | | 11.26 | 0.00 | 8.54 | 0.60 |
| | 06/01/05 | **1,710** | **528[g]** | <503 | | 20.3 | 10.7 | 42.3 | **84.7** | 8.01 | -- | -- | | | | 10.58 | 0.00 | 9.22 | 1.30 |
| | 07/25/05 | **1,500** | <250 | <500 | | 16.8 | 3.23 | 36.9 | **50.11** | 4.29 | **7.04** | -- | | | | 10.90 | 0.00 | -- | 1.70 |
| 29.32 | 11/01/05 | 634 | 380 [g] | <472 | | 15.9 | 2.49 | 0.52 | 2.19 | 5.62 | -- | -- | | | | 10.60 | 0.00 | 18.72 | NM [o] |
| | 02/21/06 | **1,430** | <272 | <543 | | 139 | 15.4 | 16.7 | **28.20** | <5 | **7.05** | 1.33 | | | | 10.56 | 0.00 | 18.76 | -- |
| | 05/08/06 | **1,550[j]** | **1,870** | <485 | | 28.4 | 2.13 | 24.7 | **35.06** | 3.88 | **9.48** | <1 | | | | 10.81 | 0.00 | 18.51 | <1.00 |
| | 08/29/06 | 264 | <248 | <495 | | 8.55 | 0.780 | 6.87 | 7.26 | 4.23 | <5 | <1 | | | | 11.58 | 0.00 | 17.74 | 0.47 |
| | 12/12/06 | **1,650** | <243 | <485 | | 80.9 | 2.75 | 18.9 | 41.9 | 3.93 | **17.4** | 1.62 | | | | 10.61 | 0.00 | 18.71 | 0.09 |
| | 03/08/07 | **1,650** | <240 | <481 | | 51.3 | 1.06 | 14.1 | 33.6 | 2.92 | **35.9** | <1 | | | | 10.53 | 0.00 | 18.79 | 0.30 |
| | 06/15/07 | **1390** [J] | 333 | <495 [r] | | 28.0 | 1.00 | 6.46 | 5.20 | 1.85 | **40.5** | <1 | | | | 10.74 | 0.00 | 18.58 | 0.35 |
| | 09/13/07 | 439 | <240 | <481 | | 4.36 | <0.5 | 0.650 | <3 | 1.89 | **10.3** | <1 | | | | 10.90 | 0.00 | 18.42 | 0.13 |
| | 12/18/07 | 886 | <236 | <472 | | 1.10 | <1 | 4 | <3 | <1 | **6.9** | **2.94** | | | | 9.63 | 0.00 | 19.69 | -- |
| | 03/18/08 | 77.6 | <236 | <472 | <236 | 1.02 | 0.58 | 1.85 | <3 | <1 | <5 | <1 | | | <1 | 11.39 | 0.00 | 17.93 | -- |
| | 06/03/08 | Well covered by trailer truck, unable to sample | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/05/08 | **1,260** | <236 | <472 | 3.94 | 0.50 | 8.42 | 9.76 | 2.06 | <5 | **4** | <1 | | | 494 | 11.28 | 0.00 | 18.04 | -- |
| | 11/03/08 | **1,250** | <236 | <472 | <0.500 | <0.500 | 3.69 | 4.84 | <1.00 | <5.00 | <1.00 | <1.00 | | | 478 | 10.79 | 0.00 | 18.53 | -- |
| | 11/18/08 | Thought to be Decommissioned | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/15/09 | 630 | **2,900[y]** | <490 | 2.3 | 0.74 | 0.65 | <2.0 | <1.0 | 660[H] | 1.1 | <1 | | | **3000** | 11.88 | 0.00 | 17.44 | -- |
| | 02/21/10 | <50.0 | **1,280** | 457 | <1.0 | <1.0 | <1.0 | 4.9 | -- | 62.8 | 0.61 | <0.10 | | | 392 | 11.02 | 0.00 | 18.30 | -- |
| | 05/23/10 | 57.4 | **1320** | 433 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 60.4 | 0.92 | <0.10 | | | **1080** | 10.72 | 0.00 | 18.60 | -- |
| | 08/16/10 | <50.0 | 158 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 33.4 | 0.63 | 0.18 | | | 181 | 11.07 | 0.00 | 18.25 | -- |
| | 11/16/10 | <50.0 | 102 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 35.6 | <10.0 | <10.0 | | | 102 | 10.43 | 0.00 | 18.89 | -- |
| | 02/28/11 | 74.8 | 102 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 19.2 | <10.0 | -- | | | 114 | 10.75 | 0.00 | 18.57 | -- |
| | 06/14/11 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 0.52 | <0.10 | | | -- | 10.06 | 0.00 | 19.26 | -- |
| | 08/29/11 | 65.1 | <86.0 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 15 | 0.19 | 0.12 | | | 88.2 | 10.65 | 0.00 | 18.67 | -- |
| | 12/05/11 | 71.6 | <86.0 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 10.2 | 0.53 | <0.10 | | | <86.0 | 10.15 | 0.00 | 19.17 | -- |
| | 02/15/12 | 85.0 | 110 | <426 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 20.5 | <10.0 | <10.0 | | | 154 | 11.35 | 0.00 | 17.97 | -- |
| | 05/15/12 | 97.9 | <80.0 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 16.1 | <10.0 | <10.0 | | | 87.3 | 10.36 | 0.00 | 18.96 | -- |
| | 08/14/12 | 138 | 117 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 11.4 | <10.0 | <10.0 | | | 143 | 10.75 | 0.00 | 18.57 | |
| **MW-51** | 10/10/01 | 671 | 11,700 | 2,150 | 10.1 | 10.4 | 7.75 | 16.6 | -- | -- | -- | -- | | | -- | 11.68 | 0.00 | 8.90 | -- |
| 20.58 | 12/28/01 | 631 | 2,170 | 3,100 | 37.0 | 75.6 | 30.4 | 81.2 | -- | -- | -- | -- | | | -- | 11.20 | 0.00 | 9.38 | -- |
| | 03/08/02 | 102 | 2,350 | 1,610 | 6.22 | 5.89 | 3.84 | 10.4 | -- | -- | -- | -- | | | -- | 11.38 | 0.00 | 9.20 | -- |
| | 06/24/02 | 57.7 | 2,650 | 1,730 | 1.28 | 1.42 | 0.699 | 2.51 | -- | -- | -- | -- | | | -- | 11.60 | 0.00 | 8.98 | -- |
| | 09/26/02[c] | <100 | 1,660 | 875 | 0.848 | <2 | <1 | <1.5 | -- | -- | -- | -- | | | -- | 12.18 | 0.00 | 8.40 | -- |
| | 12/12/02 | <50 | 2,050 | 781 | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 12.28 | 0.00 | 8.30 | -- |
| | 03/13/03 | <50 | 693 | <625 | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 11.05 | 0.00 | 9.53 | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | 52.4 | <250 | <500 | 1.47 | 1.81 | 0.544 | 3.59 | -- | -- | -- | -- | | | -- | 12.42 | 0.00 | 8.16 | -- |
| | 01/14/04 | 73.5 | <139 | <278 | <0.25 | 0.804 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 11.79 | 0.00 | 8.79 | 0.40 |
| | 03/30/04 | <100 | 404 | 401 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 12.22 | 0.00 | 8.36 | 1.56 |
| | 06/22/04 | 104 | 129 | <237 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 12.10 | 0.00 | 8.48 | 1.20 |
| | 09/29/04 | 150 | <242 | <484 | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 12.20 | 0.00 | 8.38 | 1.40 |
| | 12/29/04 | <100 | <257 | <514 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.80 | 0.00 | 8.78 | 0.10 |
| | 03/17/05 | <100 | <240 | <481 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.58 | 0.00 | 9.00 | 1.80 |
| | 06/01/05 | <100 | 408[f] | <520 | <1 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 11.62 | 0.00 | 8.96 | 2.10 |
| | 07/25/05 | <50 | 697[c] | 826 | <0.2 | <0.2 | <0.2 | <0.5 | <1 | <0.5 | -- | -- | | | -- | 11.74 | 0.00 | -- | 2.90 |
| 29.75 | 11/04/05 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <1 | <1 | -- | -- | -- | | | -- | 11.80 | 0.00 | 17.95 | NM [o] |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| | 11/04/05 | -- | 1,290 [l,f] | 536 [l,f] | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| | 02/22/06 | <50 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 11.64 | 0.00 | 18.11 | -- |
| | 05/08/06 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | **3.71** | -- | | | -- | 11.82 | 0.00 | 17.93 | 1.61 |
| | 08/30/06 | <80 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | 1.20 | <5 | **2.81** | -- | | | -- | 12.23 | 0.00 | 17.52 | 0.56 |
| | 12/12/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.70 | 0.00 | 18.05 | 0.18 |
| | 03/07/07 | <50 | <258 | <515 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.61 | 0.00 | 18.14 | 0.42 |
| | 06/15/07 | <50 | <245 | <490 [r] | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.77 | 0.00 | 17.98 | 0.31 |
| | 09/13/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.95 | 0.00 | 17.80 | 0.38 |
| | 12/19/07 | <50 | <236 | <472 | <1 | <1 | <1.00 | <3 | <1 | <1 | **20.60** | -- | | | -- | 11.17 | 0.00 | 18.58 | -- |
| | 03/18/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <1 | 11.71 | | 18.04 | -- |
| | 06/03/08 | Well covered by construction vehicles and semi-trucks, unable to sample | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/05/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | 1.40 | | | <236 | 11.98 | 0.00 | 17.77 | -- |
| | 11/04/08 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | | <5.00 | <1.00 | <1.00 | | | <236 | 11.83 | 0.00 | 17.92 | -- |
| | 02/22/09 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <236 | 15.32 | 0.00 | 14.43 | -- |
| | 05/17/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | 2.36 | <1.00 | | | <240 | 12.97 | 0.00 | 16.78 | |
| | 08/16/09 | Insufficient volume of water to fill sample containers. | | | | | | | | | | | | | | 14.80 | 0.00 | 14.95 | |
| | 11/15/09 | <50 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 [H] | <1 | <1 | | | <240 | 11.81 | 0.00 | 17.94 | |
| | 02/21/10 | <50.0 | 1,040 | 1,550 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.4 | **6.1** | <0.10 | | | <76.9 | 11.52 | 0.00 | 18.23 | |
| | 05/23/10 | <50.0 | 1270 | 1610 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.47 | <0.10 | | | 346 | 11.40 | 0.00 | 18.35 | |
| | 08/17/10 | <50.0 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.4 | 0.10 | | | 346 | 11.59 | 0.00 | 18.16 | |
| | 11/16/10 | <50.0 | <76.9 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <76.9 | 10.42 | 0.00 | 19.33 | |
| | 02/27/11 | Well Compromised, not sampled | | | | | | | | | | | | | | -- | -- | -- | |
| | 06/14/11 | Well Compromised, not monitored or sampled | | | | | | | | | | | | | | | | | |
| | 08/29/11 | Well Compromised, not monitored or sampled | | | | | | | | | | | | | | | | | |
| **MW-52** | 10/10/01 | 13,400 | 1,460 | <582 | 1,150 | <10 | 827 | 793 | -- | -- | -- | -- | | | -- | 10.79 | 0.00 | -- | -- |
| | 12/28/01 | 7,900 | 1,690 | 595 | 634 | 5.87 | 509 | 479 | -- | -- | -- | -- | | | -- | 10.22 | 0.00 | -- | -- |
| | 03/08/02 | 10,100 | 2,790 | <602 | 814 | 6.30 | 602 | 387 | -- | -- | -- | -- | | | -- | 10.42 | 0.00 | -- | -- |
| | 06/24/02 | 9,820 | 2,810 | 640 | 1,250 | <25 | 757 | 448 | -- | -- | -- | -- | | | -- | 10.58 | 0.00 | -- | -- |
| | 09/26/02 [c] | 6,600 | 3,530 | <500 | 943 | 21.7 | 600 | 284 | -- | -- | -- | -- | | | -- | 11.51 | 0.00 | -- | -- |
| | 12/12/02 | 1,170 | 7,350 | 638 | 120 | 0.822 | 73.9 | 7.30 | -- | -- | -- | -- | | | -- | 11.61 | 0.00 | -- | -- |
| | 03/13/03 | 4,540 | 1,530 | <568 | 272 | 52.7 | 236 | 210 | -- | -- | -- | -- | | | -- | 9.59 | 0.00 | -- | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | Obstructed by vehicle | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 01/14/04 | 905 | <126 | <252 | 16.6 | 0.532 | 39.6 | 2.45 | -- | -- | -- | -- | | | -- | 11.00 | 0.00 | -- | 0.30 |
| | 03/30/04 | 738 | 462 | <253 | 16.8 | <1 | 18.4 | 24.66 | -- | -- | -- | -- | | | -- | 11.47 | 0.00 | -- | 1.31 |
| | 06/22/04 | 1,600 | 593 | <248 | 161 | <10 | 70.1 | <20 | -- | -- | -- | -- | | | -- | 11.50 | 0.00 | -- | 1.50 |
| | 09/29/04 | 290 | <253 | <507 [r] | 4.9 | <0.5 | 4.8 | 2.3 | -- | -- | -- | -- | | | -- | 11.45 | 0.00 | -- | 0.30 |
| | 12/29/04 | 844 | 272 | <507 | 28.7 | <1 | 17 | 9.22 | -- | -- | -- | -- | | | -- | 10.75 | 0.00 | -- | 0.40 |
| | 03/17/05 | 752 | <238 | <477 | 18.9 | <1 | 17.6 | 3.75 | -- | -- | -- | -- | | | -- | 11.00 | 0.00 | -- | 0.70 |
| | 06/01/05 | 503 | <249 [j] | <498 [j] | 28.3 | <1 | 19 | 7.06 | <1 | -- | -- | -- | | | -- | 10.30 | 0.00 | -- | 1.40 |
| | 07/25/05 | 401 | 368 | <500 | 14.5 | <0.2 | 8.24 | 3.12 | <1 | 2.37 | -- | -- | | | -- | 10.60 | 0.00 | -- | 1.50 |
| 29.06 | 11/08/05 | 243 | <243 | <485 | 6.47 | 0.860 | 9.39 | 4.69 | <1 | -- | -- | -- | | | -- | 10.41 | 0.00 | 18.65 | NM [o] |
| | 02/23/06 | 91.8 | 587 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | <1 | | | -- | 10.38 | 0.00 | 18.68 | -- |
| | 05/08/06 | <250 [s] | 290 [p] | <490 | <0.5 | <0.5 | 0.560 | <3 | <1 | <1 | <1 | <1 | | | -- | 10.48 | 0.00 | 18.58 | 0.57 |
| | 08/30/06 | 178 | <236 | <472 | 10.3 | 1.14 | 8.04 | 11 | <1 | <5 | <1 | <1 | | | -- | 11.33 | 0.00 | 17.73 | 3.70 |
| | 12/13/06 | 215 | <245 | <490 | 5.82 | <0.5 | 4.20 | <3 | <1 | <5 | 1.02 | 1.02 | | | -- | 10.37 | 0.00 | 18.69 | 0.10 |
| | 03/06/07 | Not Accessable- construction equipment | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/15/07 | 146 | <250 | <500 | 0.620 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.23 | 0.00 | 18.83 | 0.25 |
| | 09/13/07 | 57.7 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.36 | 0.00 | 18.70 | 0.01 |
| | 12/17/07 | Unable to locate | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/17/08 | <50 | <238 | <476 | <238 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **97.6** | | | <1 | 9.85 | 0.00 | 19.21 | -- |
| | 06/02/08 | 52.70 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **6.14** | <1 | | | <236 | 10.14 | 0.00 | 18.92 | -- |
| | 08/04/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **8.43** | <1 | | | <236 | 11.08 | 0.00 | 17.98 | -- |
| | 11/05/08 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | | <5.00 | **17.80** | <1.00 | | | <236 | 10 | 0.00 | 19.06 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-53** | 03/13/03 | 14,000 | 1,030 | <625 | 398 | 143 | 501 | 1,170 | -- | -- | -- | -- | | | -- | 11.17 | 0.00 | 9.58 | -- |
| 20.75 | 06/12/03 | 9,700 | 1,370 | <500 | 553 | 197 | 431 | 1,270 | -- | -- | -- | -- | | | -- | 12.05 | 0.00 | 8.70 | -- |
| | 09/19/03 | 1,470 | <250 | <500 | 29.3 | 6.61 | 28.5 | 111 | -- | -- | -- | -- | | | -- | 12.85 | 0.00 | 7.90 | -- |
| | 01/14/04 | 2,770 | 181 | <264 | 173 | 3.79 | 91.7 | 127.1 | -- | -- | -- | -- | | | -- | 11.70 | 0.00 | 9.05 | 0.40 |
| | 03/30/04 | 3,580 | 686 | <237 | 257 | 49.7 | 125 | 204.8 | -- | -- | -- | -- | | | -- | 12.26 | 0.00 | 8.49 | 1.28 |
| | 06/22/04 | 4,820 | 750 | <240 | 363 | 85.2 | 188 | 425 | -- | -- | -- | -- | | | -- | 12.23 | 0.00 | 8.52 | 1.10 |
| | 09/29/04 | 240 | 311 | <509 | 1.9 | <0.5 | 1.4 | 6.7 | -- | -- | -- | -- | | | -- | 12.60 | 0.00 | 8.15 | 1.90 |
| | 12/29/04 | 2,650 | 655 | <491 | 225 | 11.9 | 92.8 | 123.4 | -- | -- | -- | -- | | | -- | 11.70 | 0.00 | 9.05 | 0.30 |
| | 03/17/05 | 1,560 | 293 | <515 | 106 | 3.25 | 40.9 | 61.3 | -- | -- | -- | -- | | | -- | 12.97 | 0.00 | 7.78 | 1.40 |
| | 06/01/05 | 3,120 | 381 [g] | 493 [f] | 205 | 5.98 | 120 | 236.9 | 1.88 | -- | -- | -- | | | -- | 11.22 | 0.00 | 9.53 | 1.50 |
| 30.38 | 07/25/05 | 450 | 310 [b] | <500 | 20.4 | 0.610 | 8.96 | 13.14 | <1 | 9.15 | -- | -- | | | -- | 11.75 | 0.00 | -- | 2.50 |
| | 11/04/05 | 1,510 | <236 | <472 | 164 | <2.5 | 59.4 | 28.2 | <5.00 | -- | -- | -- | | | -- | 11.49 | 0.00 | 18.89 | 1.70 |
| | 02/22/06 | 2,770 | <248 | <495 | 183 | 5.65 | 77.2 | 173 | <5.00 [d] | 30.0 | 1.16 | -- | | | -- | 11.04 | 0.00 | 19.34 | -- |
| | 05/08/06 | 559 | <245 | <490 | 66.6 | <1 | 21.2 | 9.06 | <2.00 | 8.24 | 1.32 | -- | | | -- | 11.54 | 0.00 | 18.84 | 0.95 |
| | 08/30/06 | 1,980 | <236 | <472 | 188 | 4.50 | 61.2 | 112 | <1 | 38.7 | <1 | -- | | | -- | 12.32 | 0.00 | 18.06 | 0.41 |
| | 12/12/06 | 177 | <245 | <490 | 33.8 | <0.5 | 2.20 | 4.38 | <1 | <5 | **3.34** | -- | | | -- | 11.07 | 0.00 | 19.31 | 1.13 |
| | 03/07/07 | <50 | <236 | <472 | 2.86 | <0.5 | <0.5 | <3 | <1 | <5 | 1.44 | -- | | | -- | 11.17 | 0.00 | 19.21 | 0.50 |
| | 06/15/07 | 71.4 | <238 | <476 [r] | 1.11 | <0.5 | 0.590 | <3 | <1 | <5 | <1 | -- | | | -- | 11.42 | 0.00 | 18.96 | 0.80 |
| | 09/13/07 | <50 | <238 | <476 | 0.970 | <0.5 | <0.5 | <3 | <1 | <5 | **2.62** | -- | | | -- | 11.64 | 0.00 | 18.74 | 0.02 |
| | 12/17/07 | Unable to locate | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/17/08 | 121 | <236 | <472 | <236 | 8.96 | <0.5 | 3.69 | 3.58 | <1 | <5 | **81.9** | | | <1 | 10.89 | 0.00 | 19.49 | -- |
| | 06/02/08 | 176 | <236 | <472 | 17.4 | <0.5 | 6.51 | <3 | <1 | <5 | **35.60** | <1 | | | <236 | 11.64 | 0.00 | 18.74 | -- |
| | 08/04/08 | 382 | <236 | <472 | 63.2 | 2.34 | 18.5 | 17.7 | <1 | 5.36 | **21.90** | <1 | | | <236 | 12.35 | 0.00 | 18.03 | -- |
| | 11/040/8 | 117 | <236 | <472 | 6.65 | <0.500 | 2.92 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <236 | 11.34 | 0.00 | 19.04 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | -- | -- | -- | -- |
| | | | | | | | | | | | | | | | | | | | |
| | 11/20/12 | 183 | 180 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 6.5 | **6.4** | <3.0 | | | 250 | 8.88 | 0.00 | 20.44 | |
| | 11/06/13 | 185 | **540** | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | **530** | 12.55 | 0.00 | 16.77 | -- |
| | 07/29/14 | Well contained approximately 0.05 foot of water in well cap; well was not sampled. | | | | | | | | | | | | | | | | | |
| 29.00 | 12/08/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | **14.0** | <10.0 | <0.0098 | <1.0 | -- | 14.07 | 0.00 | 14.93 | -- |
| | 03/27/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.05 | 0.00 | 16.95 | -- |
| | 06/22/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.79 | 0.00 | 16.21 | -- |
| | 09/10/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.54 | 0.00 | 16.46 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.01 | 0.00 | 16.99 | -- |
| | 06/28/16 | Not Gauged or Sampled. | | | | | | | | | | | | | | | | | -- |
| | 12/14/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.7 | 0.00 | 18.30 | -- |
| **MW-54** | 06/16/05 | 206 | 130 [f] | 410 | 4.82 | <1 | 2.09 | 10.27 | <1 | -- | -- | -- | | | -- | 9.09 | 0.00 | 18.91 | 1.40 |
| 28.00 | 07/25/05 | 177 | <250 | <500 | **5.26** | 0.280 | 0.680 | 3.11 | <1 | 0.990 | -- | -- | | | -- | 9.51 | 0.00 | 18.49 | 0.20 |
| | 11/18/05 | 75.8 | <243 | <485 | 0.560 | 0.530 | 4.19 | 10.8 | <1 | -- | -- | -- | | | -- | 9.73 | 0.00 | 18.27 | 0.39 |
| | 02/23/06 | <50 | **695** | <472 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <1 | 1.04 | -- | | | -- | 9.44 | 0.00 | 18.56 | -- |
| | 05/08/06 | <50 | 328 [p] | <500 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | 1.41 | -- | | | -- | 9.31 | 0.00 | 18.69 | 0.97 |
| | 08/29/06 | <80 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.33 | 0.00 | 17.67 | 0.53 |
| | 12/12/06 | <50 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **2.69** | -- | | | -- | 9.69 | 0.00 | 18.31 | 1.99 |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| | 03/06/07 | <50 | <263 | **<526** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.40 | 0.00 | 18.60 | 0.83 |
| | 06/15/07 | <50 | <243 | <485 [r] | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.25 | 0.00 | 18.75 | 0.38 |
| | 09/13/07 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.59 | 0.00 | 18.41 | 0.20 |
| | 12/18/07 | <50 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | 1.13 | -- | | | -- | 8.53 | 0.00 | 19.47 | |
| | 03/18/08 | <50 | <236 | <472 | **<236** | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | | | <1 | 9.06 | | 18.94 | -- |
| | 06/03/08 | Unable to sample, well under water | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/05/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 2.37 | <1 | | | <236 | 9.68 | 0.00 | 18.32 | -- |
| | 11/03/08 | <50 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **8.64** | <1.00 | | | <236 | 8.72 | 0.00 | 19.28 | -- |
| | 02/22/09 | Well inaccessible: buried under garbage containers. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 05/17/09 | Well inaccessible: buried under garbage containers. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/16/09 | 280 | <240 | <480 | <0.50 | <0.50 | 1.4 | 2.5 | <1.0 | <5.0 | <5.0 | <5.0 | | | 310 | 11.78 | 0.00 | 16.22 | -- |
| | 11/15/09 | <50 | <240 | <470 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | 1.8 | <1 | | | <240 | 9.78 | 0.00 | 18.22 | -- |
| | 02/21/10 | <50.0 | 178 | 434 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.1 | 0.24 | | | <75.8 | 9.20 | 0.00 | 18.80 | -- |
| | 05/23/10 | <50.0 | 144 | 384 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **4.4** | 0.12 | | | 92.8 | 8.64 | 0.00 | 19.36 | -- |
| | 08/16/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **5.7** | 0.21 | | | <77.7 | 9.30 | 0.00 | 18.70 | -- |
| | 11/17/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 8.76 | 0.00 | 19.24 | -- |
| | 02/28/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | <77.7 | 9.23 | 0.00 | 18.77 | -- |
| | 06/14/11 | <50.0 | <84.2 | <421 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 1.2 | <0.10 | | | -- | 8.50 | 0.00 | 19.50 | -- |
| | 08/29/11 | <50.0 | <84.2 | <421 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.58 | <0.10 | | | <84.2 | 9.13 | 0.00 | 18.87 | -- |
| | 12/05/11 | <50.0 | <84.2 | <421 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | 0.70 | 0.18 | | | <84.2 | 8.90 | 0.00 | 19.10 | -- |
| | 02/16/12 | <50.0 | <75.8 | <379 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.4 | <10.0 | <10.0 | | | <75.8 | 9.98 | 0.00 | 18.02 | -- |
| | 05/15/12 | <50.0 | <75.5 | <377 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 4.0 | <10.0 | <10.0 | | | <75.5 | 8.38 | 0.00 | 19.62 | -- |
| | 08/14/12 | <50.0 | <87.9 | <440 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <87.9 | 9.40 | 0.00 | 18.60 | -- |
| **MW-55** | 06/16/05 | 2,240 | 3,100 [f,l] | <2,500 [l] | <2 | <2 | <2 | <4 | <2 | -- | -- | -- | | | -- | 10.53 | 0.00 | 18.69 | -- |
| 29.22 | 07/25/05 | 1,850 | 1,390 [a] | <500 | 0.480 | 1.69 | 2.57 | 1.99 | <1 | 908 | -- | -- | | | -- | 10.92 | 0.00 | 18.30 | -- |
| | 11/01/05 | 814 | 699 [n] | <526 | 0.360 | 2.12 | <0.500 | <1 | <2 | -- | -- | -- | | | -- | 11.11 | 0.00 | 18.11 | -- |
| | 02/21/06 | 278 | 353 | <562 | <0.5 | 1.35 | <0.500 | <3 | <1 | 117 | <1 | -- | | | -- | 10.62 | 0.00 | 18.60 | -- |
| | 05/08/06 | 190 | 358 | <500 | <0.5 | 0.550 | <0.500 | <3 | <1 | 64.9 | <1 | -- | | | -- | 11.47 | 0.00 | 17.75 | -- |
| | 08/29/06 | <80 | 268 | <495 | 1.42 | 0.910 | 0.720 | 6.95 | <1 | 104 | <1 | -- | | | -- | 12.23 | 0.00 | 16.99 | -- |
| | 12/12/06 | 60.1 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | 1.06 | 39.1 | <1 | -- | | | -- | 11.51 | 0.00 | 17.71 | -- |
| | 03/06/07 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.73 | 0.00 | 18.49 | -- |
| | 06/15/07 | <50 | <245 | <490 [r] | <0.5 | <0.5 | <0.5 | <3 | <1 | 7.19 | <1 | -- | | | -- | 11.46 | 0.00 | 17.76 | -- |
| | 09/13/07 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.99 | 0.00 | 17.23 | -- |
| | 12/18/07 | <50 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | 3.60 | 2.31 | 2.31 | | | -- | 10.42 | 0.00 | 18.80 | -- |
| | 03/18/08 | <50 | <238 | <476 | <238 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.00 | | | <1 | 11.03 | 0.00 | 18.19 | -- |
| | 06/03/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | 6.88 | 1.30 | <1 | | | <236 | 11.23 | 0.00 | 17.99 | -- |
| | 08/05/08 | Vehicle parked over well | | | | | | | | | | | | | | 11.76 | 0.00 | 17.46 | -- |
| | 11/02/08 | 51.8 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3.00 | <1.00 | 10.1 | 1.16 | <1.00 | | | <245 | 11.75 | 0.00 | 17.47 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-56** | 06/16/05 | 135 | 210 [f] | 380 [f] | <1 | <1 | <1 | <2 | 1.29 | -- | -- | -- | | | -- | 10.91 | 0.00 | 18.79 | -- |
| 29.70 | 07/25/05 | 220 | <250 | <500 | 3.81 | <0.2 | 3.96 | <0.5 | <1 | <0.5 | -- | -- | | | -- | 11.24 | 0.00 | 18.46 | -- |
| | 11/03/05 | 130 | <236 | <472 | 7.28 | <0.5 | 1.70 | 2.33 | <2 | -- | -- | -- | | | -- | 11.03 | 0.00 | 18.67 | -- |
| | 02/22/06 | 285 | <248 | <495 | 3.69 | 0.690 | 0.870 | <3 | 2.79 | <1 | <1 | -- | | | -- | 10.96 | 0.00 | 18.74 | -- |
| | 05/08/06 | 120 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 11.19 | 0.00 | 18.51 | -- |
| | 08/30/06 | 449 | <243 | <485 | 36.7 | <0.5 | 4.02 | <3 | 1.67 | <5 | 1.85 | -- | | | -- | 11.96 | 0.00 | 17.74 | -- |
| | 12/12/06 | 609 | <245 | <490 | 2.72 | 0.570 | 5.12 | <3 | 3.56 | <5 | <1 | -- | | | -- | 11.11 | 0.00 | 18.59 | -- |
| | 03/06/07 | 279 | <250 | <500 | <0.5 | <0.5 | <0.500 | <3 | 2.20 | <5 | <1 | -- | | | -- | 10.96 | 0.00 | 18.74 | -- |
| | 06/15/07 | 106 | <245 | <490 [r] | 1.94 | <0.5 | 0.650 | <3 | 1.53 | 10.1 | <1 | -- | | | -- | 11.11 | 0.00 | 18.59 | -- |
| | 09/13/07 | <50 | <250 | <500 | <0.5 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | -- | | | -- | 11.30 | 0.00 | 18.40 | -- |
| | 12/18/07 | 51.30 | <236 | <472 | <1 | <1 | <1.00 | <3 | <1 | <1 | **2.99** | -- | | | -- | 9.83 | 0.00 | 19.87 | -- |
| | 03/18/08 | 92.90 | <236 | <472 | <236 | 1.01 | 0.62 | 1.83 | <3 | <1 | <5 | **5.97** | | | <1 | 10.68 | 0.00 | 19.02 | -- |
| | 06/03/08 | 73.80 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 11.12 | 0.00 | 18.58 | -- |
| | 08/05/08 | 98.4 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.46 | <1 | | | <236 | 11.60 | 0.00 | 18.10 | -- |
| | 11/03/08 | 312 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <236 | 11.11 | 0.00 | 18.59 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-57** | 06/16/05 | 16,900 | 1,800 [f] | <1,200 | 525 | 2,310 | 327 | 2,188 | <20 | -- | -- | -- | | | -- | 10.54 | 0.00 | 18.77 | -- |
| 29.31 | 07/25/05 | 11,400 | 418 [b] | 571 | 614 | 2,680 | 436 | 2,647 | <1 | 98.0 | -- | -- | | | -- | 10.83 | 0.00 | 18.48 | -- |
| | 11/08/05 | 3,980 | <245 | <490 | 328 | 497 | 100 | 525 | <10 | -- | -- | -- | | | -- | 10.62 | 0.00 | 18.69 | -- |
| | 02/23/06 | 10,800 | 877 | <495 | 909 | 1,570 | 381 | 2,230 | <20 | 92.0 | **4.38** | -- | | | -- | 10.59 | 0.00 | 18.72 | -- |
| | 05/08/06 | 12,200 | 426 | <485 | 538 | 960 | 281 | 1,671 | <1 | 94.0 | 2.09 | -- | | | -- | 10.70 | 0.00 | 18.61 | -- |
| | 08/30/06 | 2,620 | <248 | <495 | 249 | 37.9 | 77.4 | 350 | <1 | 28.9 | 1.24 | -- | | | -- | 11.55 | 0.00 | 17.76 | -- |
| | 12/13/06 | 39,400 | 422 | <495 | 1,200 | 5,020 | 1,150 | 6,590 | <5 | 266 | **5.18** | -- | | | -- | 10.55 | 0.00 | 18.76 | -- |
| | 03/08/07 | 21,600 | 267 | <472 | 1,130 | 2,330 | 876 | 4,610 | <40 | 291 | **9.81** | -- | | | -- | 10.44 | 0.00 | 18.87 | -- |
| | 06/15/07 | 19,800 | <245 | <490 [r] | 699 | 1,010 | 660 | 3,350 | <20 | 256 | 1.77 | -- | | | -- | 10.65 | 0.00 | 18.66 | -- |
| | 09/14/07 | 34,900 | 349 | <495 | 1,470 | 2,400 | 1,270 | 6,520 | <1 | <500 | **27.60** | -- | | | -- | 10.82 | 0.00 | 18.49 | -- |
| | 12/18/07 | 221 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | 1.60 | **200** | -- | | | -- | 9.60 | 0.00 | 19.71 | -- |
| | 03/18/08 | 23,100 | 340 | <476 | 4,660 | 942 | 1,610 | 878 | 4,190 | <1 | <200 | **199** | | | 1.92 | 10.18 | 0.00 | 19.13 | -- |
| | 06/03/08 | 173 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **49.8** | <1 | | | <236 | 10.56 | 0.00 | 18.75 | -- |
| | 08/04/08 | 7,580 | <236 | <472 | 433 | 154 | 399 | 1,860 | <1 | 87.2 | **322** | <1 | | | 1,510 | 11.17 | 0.00 | 18.14 | -- |
| | 11/05/08 | 76.2 | <238 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **12.8** | <1.00 | | | 367 | 10.49 | 0.00 | 18.82 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-58** | 06/16/05 | 3,970 | 420 [f] | <250 | 628 | 499 | 143 | 541 | <5 | -- | -- | -- | | | -- | 11.71 | 0.00 | 18.98 | -- |
| 30.69 | 07/25/05 | 7,750 | 673 [b] | <500 | 1,420 | 1,610 | 379 | 1,687 | <1 | 57.0 | -- | -- | | | -- | 11.85 | 0.00 | 18.84 | -- |
| | 11/07/05 | 1,350 | <248 | <495 | 147 | 123 | 37.2 | 177 | <4 | -- | -- | -- | | | -- | 11.84 | 0.00 | 18.85 | -- |
| | 02/22/06 | 28,700 | <258 | <515 | 2,570 | 3,980 | 906 | 4,200 | <50 [q,r] | 166 | 1.21 | -- | | | -- | 11.54 | 0.00 | 19.15 | -- |
| | 05/08/06 | 11,700 | <238 | <476 | 959 | 1,150 | 314 | 1,644 | <1 | 107 | 1.04 | -- | | | -- | 11.81 | 0.00 | 18.88 | -- |
| | 08/30/06 | 9,010 | <245 | <490 | 2,070 | 347 | 736 | 2,950 | <1 | <250 | 2.09 | -- | | | -- | 12.54 | 0.00 | 18.15 | -- |
| | 12/13/06 | 17,000 | 268 | <485 | 1,720 | 241 | 767 | 2,920 | <5 | 178 | <1 | -- | | | -- | 11.37 | 0.00 | 19.32 | -- |
| | 03/08/07 | 3,790 | <245 | <490 | 423 | 367 | 100 | 548 | <20 | <100 | **13.0** | -- | | | -- | 11.84 | 0.00 | 18.85 | -- |
| | 06/15/07 | 2,220 | <243 | <485 [r] | 328 | 175 | 54.0 | 333 | <1 | 12.3 | <1 | -- | | | -- | 11.72 | 0.00 | 18.97 | -- |
| | 09/13/07 | 260 | <238 | <476 | 20.8 | 5.73 | 5.50 | 10 | <1 | <5 | <1 | -- | | | -- | 12.25 | 0.00 | 18.44 | -- |
| | 12/19/07 | 111 | <236 | <472 | 7.9 | <1 | 1.60 | 7 | <1 | 1.2 | **71.50** | -- | | | -- | 10.20 | 0.00 | 20.49 | -- |
| | 03/17/08 | 486 | <236 | <472 | <236 | 116.0 | <0.5 | 22.30 | 8.68 | <1 | <5 | **3.29** | | | <1 | 11.38 | 0.00 | 19.31 | -- |
| | 06/02/08 | 2,350 | <236 | <472 | 328 [x] | 2.45 | 167 [x] | 215 | <1 | 10.60 | **19.30** | <1 | | | 472 | 11.78 | 0.00 | 18.91 | -- |
| | 08/04/08 | 2,680 | <236 | <472 | 533 | 1.94 | 154 | 231 | <1 | 19.20 | **6.82** | <1 | | | 539 | 12.44 | 0.00 | 18.25 | -- |
| | 11/04/08 | 1,310 | <236 | <472 | 130 | 1.46 | 80.9 | 99.7 | <1.00 | 8.62 | **3.47** | <1.00 | | | 355 | 12.12 | 0.00 | 18.57 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-59** | 06/16/05 | 10,100 | 1,700 [f] | <1,200 | 519 | <10 | 176 | 725.2 | <10 | -- | -- | -- | | | -- | 12.00 | 0.00 | 18.73 | -- |
| 30.73 | 07/25/05 | 4,680 | 253 | <500 | 307 | 1.24 | 181 | 201 | <4 | 64.3 | -- | -- | | | -- | 12.30 | 0.00 | 18.43 | -- |
| | 11/08/05 | 919 | <250 | <500 | 10.3 | <0.5 | 28.8 | 41.0 | <1 | -- | -- | -- | | | -- | 12.05 | 0.00 | 18.68 | -- |
| | 02/22/06 | 1,630 | <248 | <495 | 89.8 | <2.5 | 105 | <15 | <5 [q,r] | 9.80 | 1.83 | -- | | | -- | -- | -- | -- | -- |
| | 05/08/06 | 968 | 322 | <500 | 27.9 | 0.510 | 53.2 | 89.44 | <1 | 6.27 | 1.04 | -- | | | -- | 12.15 | 0.00 | 18.58 | -- |
| | 08/30/06 | 830 | <236 | <472 | 27.1 | <0.5 | 61.7 | 82.8 | <1 | <5 | 1.82 | -- | | | -- | 13.01 | 0.00 | 17.72 | -- |
| | 12/13/06 | 1,280 | <243 | <485 | 76.3 | 1.35 | 50.7 | 24.8 | <1 | 13.5 | 2.18 | -- | | | -- | 12.05 | 0.00 | 18.68 | -- |
| | 03/06/07 | 129 | <245 | <490 | 2.22 | <0.5 | 1.12 | <3 | <1 | <5 | <1 | -- | | | -- | 11.90 | 0.00 | 18.83 | -- |
| | 06/15/07 | 87.8 | <245 | <490 [r] | 8.24 | <0.5 | 0.740 | <3 | <1 | <5 | <1 | -- | | | -- | 12.12 | 0.00 | 18.61 | -- |
| | 09/13/07 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.13 | -- | | | -- | 12.29 | 0.00 | 18.44 | -- |
| | 12/18/07 | 80.20 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | **16.60** | -- | | | -- | 10.95 | 0.00 | 19.78 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| | 03/17/08 | 126 | <236 | <472 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **142.00** | | | <1 | 11.68 | 0.00 | 19.05 | -- |
| | 06/02/08 | 184 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **32.10** | <1 | | | <240 | 12.09 | 0.00 | 18.64 | -- |
| | 08/04/08 | 213 | <236 | <472 | 5.64 | <0.5 | 0.51 | <3 | <1 | <5 | **132** | <1 | | | 270 | 12.60 | 0.00 | 18.13 | -- |
| | 11/05/08 | 280 | <238 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | 2.29 | <1.00 | | | <238 | 11.90 | 0.00 | 18.83 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-60** | 06/16/05 | 64,300 | 4,300[f,l] | <5,000[l] | 4,100 | 6,820 | 2,260 | 10,610 | <40 | -- | -- | -- | | | -- | 11.54 | Sheen | 18.77 | -- |
| 30.31 | 07/25/05 | 48,800 | 2,820[b] | 791 | 3,670 | 4,730 | 1,570 | 7,720 | <1 | 299 | -- | -- | | | -- | 11.87 | 0.00 | 18.44 | -- |
| | 11/07/05 | 78,100 | 311[f] | <472 | 5,260 | 6,550 | 2,950 | 16,200 | <200 | -- | -- | -- | | | -- | 11.53 | 0.00 | 18.78 | -- |
| | 11/07/05 | -- | 490[f,l] | <962[l] | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | -- | -- | -- |
| | 02/24/06 | 56,900 | 973 | <510 | 5,020 | 89.6 | 2,750 | 14,600 | <40 | 721 | **5.09** | -- | | | -- | 11.61 | 0.00 | 18.70 | -- |
| | 05/08/06 | 48,800 | 1,150 | <476 | 3,660 | 179 | 1,780 | 8,500 | <1 | 473 | **3.21** | -- | | | -- | 11.72 | 0.00 | 18.59 | -- |
| | 08/30/06 | 40,700 | 406p | <521 | 5,350 | 434 | 2,610 | 10,300 | <1 | 472 | **2.56** | -- | | | -- | 12.59 | 0.00 | 17.72 | -- |
| | 12/12/06 | 56,400 | 417 | <505 | 4,630 | 58.6 | 2,840 | 11,200 | <5 | <500 | 2.14 | -- | | | -- | 11.64 | 0.00 | 18.67 | -- |
| | 03/07/07 | 27,700 | <245 | <490 | 1,780 | 84.8 | 652 | 4,870 | <40 | 350 | 1.09 | -- | | | -- | 11.44 | 0.00 | 18.87 | -- |
| | 06/15/07 | 41,200 | 957 | <476[r] | 2,870 | 119 | 1,200 | 6,970 | <40 | 880 | 1.11 | -- | | | -- | 7.01[v] | 0.00 | 23.30[r] | -- |
| | 09/14/07 | 52,200 | 346 | <500 | 3,260 | 42.2 | 1,680 | 10,100 | <1 | 632 | 1.41 | -- | | | -- | 11.88 | 0.00 | 18.43 | -- |
| | 12/18/07 | 29,300 | 361 | <476 | 2,000 | 14.0 | 1,300 | 3,660 | <1 | 320 | **20.30** | -- | | | -- | 10.59 | 0.00 | 19.72 | -- |
| | 03/18/08 | 24,700 | 464 | <472 | 5,480 | 2,490 | 30.9 | 1,460 | 3,710 | <1 | **210** | 1.67 | | | <1 | 11.36 | 0.00 | 18.95 | -- |
| | 06/03/08 | 24,900 | 432 | <472 | 2,890 | 13.8 | 1,400 | 2,510 | <1 | <200 | **19.30** | <1 | | | 7,830 | 11.51 | 0.00 | 18.80 | -- |
| | 08/04/08 | 29,400 | 680 | <472 | 3,330 | 59.2 | 2,180 | 3,830 | <40.0 | 377 | 1.65 | <1 | | | 5,030 | 12.22 | 0.00 | 18.09 | -- |
| | 11/05/08 | 23,300 | 740 | <476 | 2,220 | 24.6 | 1,760 | 2,440 | <1.00 | 267 | 2.14 | <1.00 | | | <476 | 11.54 | 0.00 | 18.77 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-61** | 11/01/05 | <50 | <236 | <472 | 10.0 | <0.5 | <0.5 | <1 | <2 | -- | -- | -- | | | -- | 11.39 | 0.00 | 18.85 | -- |
| 30.24 | 02/21/06 | <50 | <250 | <500 | 2.80 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 10.90 | 0.00 | 19.34 | -- |
| | 05/09/06 | <50 | <240 | <481 | 3.39 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 11.36 | 0.00 | 18.88 | -- |
| | 08/31/06 | <100 | <250 | <500 | 0.600 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.66 | 0.00 | 18.58 | -- |
| | 12/13/06 | <50 | <238 | <476 | 1.31 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 10.68 | 0.00 | 19.56 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-62** | 11/01/05 | <50 | <243 | <485 | 0.470 | <0.5 | <0.5 | <1 | <2 | -- | -- | -- | | | -- | 10.79 | 0.00 | 18.95 | -- |
| 29.74 | 02/21/06 | <50 | <275 | <549 | <2.50 | <2.5 | <2.5 | <15 | <5 | <5 | <1 | -- | | | -- | 10.52 | 0.00 | 19.22 | -- |
| | 05/09/06 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 10.71 | 0.00 | 19.03 | -- |
| | 08/31/06 | <100 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.13 | -- | | | -- | 11.76 | 0.00 | 17.98 | -- |
| | 12/13/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.89 | 0.00 | 19.85 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-63** | 11/01/05 | <50 | <250 | <500 | 1.00 | <0.5 | <0.5 | <1 | <2 | -- | -- | -- | | | -- | 10.44 | 0.00 | 18.99 | -- |
| 29.43 | 02/21/06 | <50 | <278 | <556 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | **5.98** | -- | | | -- | 10.26 | 0.00 | 19.17 | -- |
| | 05/09/06 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | 1.43 | -- | | | -- | 10.41 | 0.00 | 19.02 | -- |
| | 08/31/06 | <100 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **2.52** | -- | | | -- | 11.90 | 0.00 | 17.53 | -- |
| | 12/13/06 | <50 | <243 | <485 | 0.59 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.99 | 0.00 | 19.44 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-64** | 11/01/05 | <50 | <250 | <500 | 41.9 | <0.5 | <0.5 | <1 | <2 | -- | -- | -- | | | -- | 9.82 | 0.00 | 18.91 | -- |
| 28.73 | 02/21/06 | 84.9 | <272 | <543 | 32.4 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 9.48 | 0.00 | 19.25 | -- |
| | 05/09/06 | 133[t] | <248 | <495 | 55.8 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 9.60 | 0.00 | 19.13 | -- |
| | 08/31/06 | <100 | <243 | <485 | 6.00 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.10 | 0.00 | 17.63 | -- |
| | 12/13/06 | <50 | <240 | <481 | 14.7 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.22 | 0.00 | 19.51 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-65** | 11/04/05 | 857 | <236 | <472 | 0.740 | 0.740 | 12.9 | 7.80 | <1 | -- | -- | -- | | | -- | 9.23 | 0.00 | 18.44 | -- |
| 27.67 | 02/23/06 | 1,000 | 638 | <495 | <0.5 | 1.83 | 15.3 | 8.34 | <1 | 4.32 | <1 | -- | | | -- | 9.13 | 0.00 | 18.54 | -- |
| | 05/09/06 | 1,220[j] | <236 | <472 | <0.5 | 0.680 | 7.72 | 3.04 | <1 | 2.52 | <1 | -- | | | -- | 8.67 | 0.00 | 19.00 | -- |
| | 08/30/06 | 261 | <248 | <495 | <0.5 | <0.5 | 11.2 | 3.42 | <1 | <5 | <1 | -- | | | -- | 9.90 | 0.00 | 17.77 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-66** | 11/07/05 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | -- | -- | -- | | | -- | 10.50 | 0.00 | 18.15 | -- |
| 28.65 | 02/24/06 | <50 | <253 | <505 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1[r] | <1 | -- | | | -- | 10.28 | 0.00 | 18.37 | -- |
| | 05/09/06 | <50 | <272 | <543 | <0.5 | <0.5 | <0.5 | <3 | <1 | 1.85 | <1 | -- | | | -- | 10.20 | 0.00 | 18.45 | -- |
| | 08/30/06 | <80 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.51 | 0.00 | 17.14 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| MW-67 | 11/04/05 | 78.1 | <238 | <476 | <0.5 | <0.5 | 0.77 | 1.44 | <1 | -- | -- | -- | | | -- | 9.33 | 0.00 | 18.31 | -- |
| 27.64 | 02/23/06 | <50 | <255 | <510 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 9.15 | 0.00 | 18.49 | -- |
| | 05/09/06 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.81 | 0.00 | 18.83 | -- |
| | 08/30/06 | <80 | <275 | <549 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.75 | -- | | | -- | 9.55 | 0.00 | 18.09 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-68** | 11/04/05 | 437 | <236 | <472 | 8.11 | 0.790 | <0.5 | <3 | 1.21 | -- | -- | -- | | | -- | 11.30 | 0.00 | 17.93 | -- |
| 29.23 | 02/22/06 | 248 | <255 | <510 | 19.0 | 1.70 | <0.5 | 5.08 | <1 | <1 | <1 | -- | | | -- | 11.15 | 0.00 | 18.08 | -- |
| | 05/09/06 | 184 | <238 | <476 | 2.46 | 0.570 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 11.33 | 0.00 | 17.90 | -- |
| | 08/30/06 | 168 | <258 | <515 | 1.29 | 2.08 | <0.5 | <3 | 1.02 | <5 | **8.45** | -- | | | -- | 11.72 | 0.00 | 17.51 | -- |
| | 12/13/06 | 401 | <245 | <490 | 115 | <1.00 | <1.00 | <6 | <2 | <10 | <1 | -- | | | -- | 11.26 | 0.00 | 17.97 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-69** | 11/07/05 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | -- | -- | -- | | | -- | 9.10 | 0.00 | 18.57 | -- |
| 27.67 | 02/23/06 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | **3.54** | -- | | | -- | 9.02 | 0.00 | 18.65 | -- |
| | 05/09/06 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | 1.01 | -- | | | -- | 8.34 | 0.00 | 19.33 | -- |
| | 08/30/06 | <80 | <255 | <510 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.54 | 0.00 | 18.13 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-70** | 11/02/05 | 24,800 | <236 | <472 | 29.8 | 3.60 | 697 | 1,540 | <1 | -- | -- | -- | | | -- | 12.60 | 0.00 | 18.54 | -- |
| 31.14 | 02/23/06 | 8,290 | <287 | <575 | 33.3 | 2.00 | 428 | 537 | <4 | 91.8 | **3.47** | -- | | | -- | 12.04 | 0.00 | 19.10 | -- |
| | 05/09/06 | 15,500 | <266 | <532 | 108 | <10 | 905 | 1,315.6 | <20 | 233 | 2.18 | -- | | | -- | 12.37 | 0.00 | 18.77 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-71** | 11/03/05 | 18,100 | 5,880[g] | <472 | 240 | 59.3 | 925 | 1,750 | <20 | -- | -- | -- | | | -- | 11.61 | 0.00 | 18.81 | -- |
| 30.42 | 02/23/06 | 21,800 | 1,770[g] | <485 | 190 | 28.0 | 848 | 1,710 | <20 | 341 | **3.25** | -- | | | -- | 11.23 | 0.00 | 19.19 | -- |
| | 05/10/06 | 25,100 | 733[p] | <495 | 195 | <20 | 803 | 1,338 | <40 | 410 | **2.54** | -- | | | -- | 11.71 | 0.00 | 18.71 | -- |
| | 08/29/06 | 15,400 | 664[p] | <476 | 207 | 4.61 | 698 | 834 | <1 | 364 | **8.19** | -- | | | -- | 12.27 | 0.00 | 18.15 | -- |
| | 12/12/06 | 11,300 | 609 | <476 | 127 | 68.2 | 237 | 512 | <1 | 151 | 1.55 | -- | | | -- | 11.25 | 0.00 | 19.17 | -- |
| | 03/07/07 | 22,100 | 567 | <490 | 211 | <20 | 836 | 1220 | <40 | 691 | 2.33 | -- | | | -- | 11.19 | 0.00 | 19.23 | -- |
| | 06/14/07 | 19,200 | 851[g] | <490 | 186 | 2.67 | 647 | 667 | <1 | 326 | **2.89** | -- | | | -- | 11.41 | 0.00 | 19.01 | -- |
| | 09/14/07 | 7,230 | 901 | <485 | 128 | 2.00 | 329 | 122 | <1 | 200 | 1.49 | -- | | | -- | 11.60[w] | 0.00 | 18.82 | -- |
| | 12/17/07 | 16,500 | 823 | <472 | 200 | 17.00 | 600 | 694 | <1 | -- | **4.76** | -- | | | -- | 10.81 | 0.00 | 19.61 | -- |
| | 03/17/08 | 15,900 | 1070 | <472 | 5710 | 124 | 2.70 | 454 | 259 | <1 | **190** | 2.47 | | | <1 | 8.74 | 0.00 | 21.68 | -- |
| | 06/02/08 | 9,480 | 566 | <472 | 94 | 24.5 | 291 | 328 | <1 | 156 | 2.03 | <1 | | | 4,280 | 11.82 | 0.00 | 18.60 | -- |
| | 08/04/08 | 4,140 | 550 | <472 | 31.7 | 1.06 | 103 | 62.3 | <1 | 89.4 | **2.97** | <1 | | | 1,860 | 12.45 | 0.00 | 17.97 | -- |
| | 11/03/08 | 5,820 | 524 | <485 | 49.2 | 1.03 | 69 | 10.4 | <1.00 | 68.7 | 1.56 | <1.00 | | | 2,450 | 11.90 | 0.00 | 18.52 | -- |
| | 02/23/09 | 11,600 | 828 | <481 | 136 | 2.3 | 358 | 213 | -- | 193 | 2.25 | <1.00 | | | 4,340 | 11.70 | 0.00 | 18.72 | -- |
| | 05/17/09 | 13,400 | 1,380 | <481 | 104 | 2.38 | 260 | 201 | <1.00 | 151 | 2.21 | <1.00 | | | 5,820 | 12.46 | 0.00 | 17.96 | -- |
| | 08/16/09 | 2,300 | 660 | <480 | 37 | <0.50 | 56 | 14 | <1.0 | 11 | <5.0 | <5.0 | | | 1,700 | 14.22 | 0.00 | 16.20 | -- |
| | 11/15/09 | 2500 | 940[y] | <470 | 6.2 | 0.6 | 25 | 6.5 | <1.0 | 6.2 | 1.3 | <1 | | | 1100 | 11.65 | 0.00 | 18.77 | -- |
| | 02/21/10 | 6,390 | 3,990 | 4,500 | 97.1 | 1.9 | 403 | 101 | -- | 126 | **9.0** | 0.80 | | | 4,980 | 11.60 | 0.00 | 18.82 | -- |
| | 05/23/10 | 2,550 | 3,860 | 4,440 | 39.7 | 3.8 | 84.0 | 12.7 | -- | 56.4 | **134** | .45 | | | 4,410 | 11.08 | 0.00 | 19.34 | -- |
| | 08/15/10 | 5,130 | 912 | 729 | 99.1 | <1.0 | 148 | 12.1 | -- | 128 | **14.8** | .87 | | | 2,710 | 11.69 | 0.00 | 18.73 | -- |
| | 11/14/10 | 244 | 541 | 2,600 | <1.0 | 1.8 | <1.0 | <3.0 | -- | 3.3 | **14.5** | <10.0 | | | 267 | 10.90 | 0.00 | 19.52 | -- |
| | 02/27/11 | Decommissioned | | | | | | | | | | | | | | | | | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| **MW-72** | 11/03/05 | 71.3 | <236 | <472 | 0.980 | <0.5 | <0.500 | 2.32 | <2 | -- | -- | -- | | | -- | 10.33 | 0.00 | 19.99 | -- |
| 30.32 | 02/23/06 | 1,900 | 408[g] | <500 | 11.0 | 1.22 | 98.2 | 25.3 | <2 | 37.3 | 1.61 | -- | | | -- | 10.84 | 0.00 | 19.48 | -- |
| | 05/10/06 | 1,540[j] | <250 | <500 | 8.20 | 1.12 | 70.4 | <6 | <2 | 48.9 | <1 | -- | | | -- | 11.60 | 0.00 | 18.72 | -- |
| | 08/29/06 | 810 | <253 | <505 | 6.28 | <0.5 | 10.2 | <3 | <1 | 48.4 | <1 | -- | | | -- | 12.08 | 0.00 | 18.24 | -- |
| | 12/12/06 | 970 | <250 | <500 | 3.29 | <0.5 | 1.95 | <3 | <1 | 12.5 | <1 | -- | | | -- | 11.11 | 0.00 | 19.21 | -- |
| | 03/07/07 | 560 | <260 | <521 | 5.45 | 0.59 | 38.5 | <3 | <1 | 6.68 | <1 | -- | | | -- | 11.02 | 0.00 | 19.30 | -- |
| | 06/14/07 | 1,140 | <255 | <510 | 5.29 | <0.5 | 2.72 | <3 | <1 | 10.0 | 1.97 | -- | | | -- | 11.43 | 0.00 | 18.89 | -- |
| | 09/14/07 | 239 | <250 | <500 | 1.76 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | -- | | | -- | 11.47 | 0.00 | 18.85 | -- |
| | 12/17/07 | 489 | <238 | <476 | 1.8 | <1 | <1.00 | <2 | <1 | -- | 1.13 | -- | | | -- | 10.67 | 0.00 | 19.65 | -- |
| | 03/17/08 | 983 | <236 | <472 | 407 | 3.3 | <0.5 | 4.34 | <3 | <1 | <5 | <1 | | | <1 | 11.02 | 0.00 | 19.30 | -- |
| | 06/02/08 | 1,160 | <238 | <476 | 2.89 | <0.5 | 4.77 | <3 | <1 | <5 | <1 | <1 | | | 474 | 11.65 | 0.00 | 18.67 | -- |
| | 08/04/08 | 330 | <236 | <472 | 0.81 | <0.5 | <0.5 | <3 | <1 | 6.4 | <1 | <1 | | | 247 | 12.51 | 0.00 | 17.81 | -- |
| | 11/03/08 | 577 | <243 | <485 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | 278 | 11.80 | 0.00 | 18.52 | -- |
| | 02/23/09 | 780 | <243 | <485 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | 3,130 | 11.80 | 0.00 | 18.52 | -- |
| | 05/17/09 | 786 | 634 | <476 | 3.55 | <0.500 | 24.1 | <3.00 | <1.00 | 8.92 | 2.14 | <1.00 | | | 962 | 12.38 | 0.00 | 17.94 | -- |
| | 08/16/09 | 170 | <240 | <490 | <0.50 | <0.50 | 0.82 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | <240 | 14.21 | 0.00 | 16.11 | -- |
| | 11/15/09 | 110 | 430[y] | 2,500 | <0.50 | 0.77 | <0.50 | <2.0 | <1.0 | <5.0 | **33** | <1 | | | <240 | 11.71 | 0.00 | 18.61 | -- |
| | 02/21/10 | 258 | 1,810 | 1,720 | <1.0 | 1.7 | <1.0 | <3.0 | -- | 2.3 | **5.1** | <0.10 | | | 803 | 11.15 | 0.00 | 19.17 | -- |
| | 05/23/10 | 329 | 6,100 | 2,250 | 2.3 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **10.6** | <0.10 | | | 5,630 | 11.33 | 0.00 | 18.99 | -- |
| | 08/15/10 | 330 | 641 | 3,460 | 1.4 | <1.0 | 3.1 | <3.0 | -- | <1.0 | **14.7** | .12 | | | 236 | 11.63 | 0.00 | 18.69 | -- |
| | 11/14/10 | 261 | 159 | 749 | <1.0 | <1.0 | 1.6 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | 147 | 10.87 | 0.00 | 19.45 | -- |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | -- |
| **MW-73** | 11/03/05 | 1,070 [m] | 249 [g] | <472 | 23.1 | 1.74 | 3.58 | 4.74 | <2 | -- | -- | -- | | | -- | 11.50 | 0.00 | 18.61 | -- |
| 30.11 | 02/23/06 | 2,420 | 731[g] | <500 | 13.2 | 2.13 | 4.52 | <3 | <1 | <1 | 2.27 | -- | | | -- | 11.32 | 0.00 | 18.79 | -- |
| | 04/10/06 | 2,460[j] | <236 | <472 | 9.56 | 2.19 | 4.51 | 2.44 | <1 | 1.06 | 1.97 | -- | | | -- | 11.67 | 0.00 | 18.44 | -- |
| | 08/29/06 | 1,130[j] | <236 | <472 | 12.60 | 2.40 | 1.89 | <3 | <1 | <5 | 1.76 | -- | | | -- | 12.27 | 0.00 | 17.84 | -- |
| | 12/12/06 | 2,360 | <243 | <485 | 14.50 | 2.01 | 4.32 | <3 | <1 | <5 | **3.01** | -- | | | -- | 11.35 | 0.00 | 18.76 | -- |
| | 03/07/07 | 2,260 | <236 | <472 | 17.5 | 1.47 | 2.72 | 3.11 | <1 | <5 | 1.16 | -- | | | -- | 11.31 | 0.00 | 18.80 | -- |
| | 06/14/07 | 2,450 | <260 | <521 | 11.6 | 1.56 | 2.63 | <3 | <1 | <5 | 2.16 | -- | | | -- | 11.59 | 0.00 | 18.52 | -- |
| | 09/14/07 | 1,380 | <236 | <472 | 12.1 | 1.88 | 0.650 | <3 | <1 | <5 | 1.60 | -- | | | -- | 11.77 | 0.00 | 18.34 | -- |
| | 12/17/07 | 2,390 | <236 | <472 | 18.0 | 1.40 | 3.300 | 1.40 | <1 | -- | **4.95** | -- | | | -- | 10.70 | 0.00 | 19.41 | -- |
| | 03/17/08 | 2,670 | <238 | <476 | 707 | 10.1 | 1.35 | 2.16 | <3 | <1 | <5 | 2.15 | | | 1.17 | 11.20 | 0.00 | 18.91 | -- |
| | 06/02/08 | 2,260 | <236 | <472 | 15.8 | 0.76 | 1.14 | <3 | <1 | <5 | **3.81** | 1.00 | | | 767 | 11.61 | 0.00 | 18.50 | -- |
| | 08/04/08 | 1,250 | <236 | <472 | 10.3 | 1.15 | <0.5 | <3 | <1 | <5 | **11.50** | <1 | | | 465 | 12.73 | 0.00 | 17.38 | -- |
| | 11/03/08 | 1,790 | <243 | <485 | 21.3 | 1.38 | <0.500 | <3.00 | <1.00 | <5.00 | **6.74** | <1.00 | | | 466 | 11.80 | 0.00 | 18.31 | -- |
| | 02/23/09 | 2,800 | <240 | <481 | 25.6 | 2.05 | 1.59 | <3.00 | -- | <5.00 | **4.82** | 2.00 | | | 7,510 | 11.56 | 0.00 | 18.55 | -- |
| | 05/17/09 | 1,510 | <243 | <485 | 9.97 | 1.00 | 0.73 | <3.00 | <1.00 | <5.00 | **5.34** | <1.00 | | | 430 | 12.96 | 0.00 | 17.15 | -- |
| | 08/16/09 | 1,200 | 430 | <480 | 5.0 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | 1,100 | 14.65 | 0.00 | 15.46 | -- |
| | 11/15/09 | 2,700 | 1,100[y] | <480 | 26 | 2 | 3.8 | <2.0 | <1.0 | <5.0 | **6.4** | **3.9** | | | 1,500[y] | 11.63 | 0.00 | 18.48 | -- |
| | 02/21/10 | 2,190 | 946 | 624 | 39 | 2.4 | 3.3 | 6.9 | -- | 2.4 | **7.8** | -- | | | 1,110 | 11.27 | 0.00 | 18.84 | -- |
| | 05/23/10 | 2260 | 1030 | 659 | 31.2 | 2.2 | 2.1 | <3.0 | -- | <1.0 | **5.7** | **3.5** | | | 1670 | 6.63 | 0.00 | 23.48 | -- |
| | 08/15/10 | 1960 | 173 | <392 | 37.3 | 1.8 | 1.7 | <3.0 | -- | 3.3 | **6.9** | 2.0 | | | 671 | 11.59 | 0.00 | 18.52 | -- |
| | 11/14/10 | 1,410 | 407 | 1670 | 26.0 | 3.4 | <1.0 | <3.0 | -- | <1.0 | **22.1** | <10.0 | | | 733 | 10.65 | 0.00 | 19.46 | -- |
| | 02/27/11 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-74** | 11/04/05 | 2,160[j] | <245 | <490 | 14.2 | 1.53 | 13.0 | 3.35 | <1 | -- | -- | -- | | | -- | 11.79 | 0.00 | 18.56 | -- |
| 30.35 | 02/23/06 | 3,320 | <245 | <490 | 11.0 | 1.37 | 17.3 | 3.50 | <1 | 27.9 | **5.42** | -- | | | -- | 11.35 | 0.00 | 19.00 | -- |
| | 05/10/06 | 3,320[j] | <240 | <481 | 13.8 | 2.29 | 17.3 | 4.04 | <1 | 27.8 | 1.94 | -- | | | -- | 11.70 | 0.00 | 18.65 | -- |
| | 08/29/06 | 618[j] | <253 | <505 | 33.9 | 4.55 | 8.18 | <3 | <1 | 21.6 | **2.71** | -- | | | -- | 13.12 | 0.00 | 17.23 | -- |
| | 03/06/07 | Not Accessible - Stacy Witback construction | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/14/07 | Not Accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 09/12/07 | Not Accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 12/17/07 | Not Accessible, covered for street car | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/17/08 | Well paved over | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/03/08 | Abandoned well | | | | | | | | | | | | | | | | | -- |
| **MW-75** | 11/08/05 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | -- | -- | -- | | | -- | 10.12 | 0.00 | 17.99 | -- |
| 28.11 | 02/24/06 | <50 | <253 | <505 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 10.30 | 0.00 | 17.81 | -- |
| | 05/11/06 | <50 | <240 | <481 | 1.52 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 9.53 | 0.00 | 18.58 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-76** | 11/08/05 | 84.6 | <245 | <490 | 0.700 | <0.5 | <0.5 | <3 | <1 | -- | -- | -- | | | -- | 9.42 | 0.00 | 17.66 | -- |
| 27.08 | 02/24/06 | <50 | 394 | 752 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | **4.30** | -- | | | -- | 9.57 | 0.00 | 17.51 | -- |
| | 05/11/06 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.50 | 0.00 | 18.58 | -- |
| | 08/30/06 | <80 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.78 | -- | | | -- | 10.02 | 0.00 | 17.06 | -- |
| | 03/06/07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.43 | 0.00 | 17.65 | -- |
| | 06/13/07 | Not Accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 09/12/07 | Not Accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 12/17/07 | Not Accessible, well flooded during attempt to take sample | | | | | | | | | | | | | | 7.49 | -- | -- | -- |
| | 03/18/08 | <50 | <236 | <472 | <236 | <0.5 | 0.55 | <0.5 | <3 | <1 | <5 | **20.80** | | | <1 | 7.46 | 0.00 | 19.62 | -- |
| | 06/02/08 | <50 | <236 | <472 | <0.5 | 0.52 | <0.5 | <3 | <1 | <5 | 1.31 | <1 | | | <236 | 7.10 | 0.00 | 19.98 | -- |
| | 08/05/08 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **4.82** | <1 | | | <240 | 7.60 | 0.00 | 19.48 | -- |
| | | Well abandoned in October 2008. | | | | | | | | | | | | | | | | | -- |
| **MW-77** | 11/04/05 | <50 | <236 | <472 | <0.5 | <0.5 | 0.540 | <3 | <1 | -- | -- | -- | | | -- | 8.65 | 0.00 | 17.88 | -- |
| 26.53 | 02/23/06 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.86 | 0.00 | 17.67 | -- |
| | 05/11/06 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | 1.08 | <1 | -- | | | -- | 8.11 | 0.00 | 18.42 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-78** | 11/04/05 | <50 | <236 | <472 | 0.590 | 0.760 | 0.730 | <3 | <1 | -- | -- | -- | | | -- | 8.30 | 0.00 | 18.15 | -- |
| 26.45 | 02/23/06 | <50 | 1,800[p] | <490 | <0.5 | 0.660 | <0.500 | <3 | <1 | <1 | <1 | -- | | | -- | 8.48 | 0.00 | 17.97 | -- |
| | 05/11/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 7.91 | 0.00 | 18.54 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-79** | 11/04/05 | <50 | <236 | <472 | 0.620 | <0.5 | 0.67 | 1.41 | <1 | -- | -- | -- | | | -- | 8.61 | 0.00 | 18.19 | -- |
| 26.80 | 02/23/06 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.59 | 0.00 | 18.21 | -- |
| | 05/11/06 | <50 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.18 | 0.00 | 18.62 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-80** | 11/03/05 | 69.4 | <243 | <485 | 3.96 | <0.5 | 10 | 7.88 | <2 | -- | -- | -- | | | -- | 8.21 | 0.00 | 18.13 | -- |
| 26.34 | 02/23/06 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.31 | 0.00 | 18.03 | -- |
| | 05/09/06 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 7.42 | 0.00 | 18.92 | -- |
| | 08/30/06 | <80 | <258 | <515 | --[u] | --[u] | --[u] | --[u] | --[u] | --[u] | <1 | -- | | | -- | 7.62 | 0.00 | 18.72 | -- |
| | 12/13/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 8.57 | 0.00 | 17.77 | -- |
| | 03/07/07 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 8.18 | 0.00 | 18.16 | -- |
| | 06/14/07 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **6.15** | -- | | | -- | 5.43 | 0.00 | 20.91 | -- |
| | 09/12/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.60 | -- | | | -- | 6.52 | 0.00 | 19.82 | -- |
| | 12/18/07 | <50 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | **2.70** | -- | | | -- | 8.62 | 0.00 | 17.72 | -- |
| | 03/18/08 | <50 | <236 | <472 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.15 | | | <1 | 8.10 | 0.00 | 18.24 | -- |
| | 06/02/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.64 | <1 | | | <236 | 7.35 | 0.00 | 18.99 | -- |
| | 08/05/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.81 | <1 | | | <236 | 7.97 | 0.00 | 18.37 | -- |
| | 11/04/08 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **3.66** | <1.00 | | | <236 | 8.51 | 0.00 | 17.83 | -- |
| | 02/23/09 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | **2.52** | <1.00 | | | <236 | 7.93 | 0.00 | 18.41 | -- |
| | 05/17/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **2.83** | <1.00 | | | <240 | 8.03 | 0.00 | 18.31 | -- |
| | 08/17/09 | <50 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | <240 | 7.94 | 0.00 | 18.40 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| | 11/16/09 | <50 | <240 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | 2.4 | <1 | | | <240 | 7.57 | 0.00 | 18.77 | -- |
| | 02/22/10 | Well Destroyed | | | | | | | | | | | | | | | | | -- |
| **MW-81** | 11/03/05 | <50 | <236 | <472 | <0.2 | <0.5 | 0.840 | 2.05 | <2 | -- | -- | -- | | | -- | 8.37 | 0.00 | 17.84 | -- |
| 26.21 | 02/23/06 | <50 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | 1.30 | -- | | | -- | 8.41 | 0.00 | 17.80 | -- |
| | 05/09/06 | <50 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 7.28 | 0.00 | 18.93 | -- |
| | 08/30/06 | <80 | <248 | <495 | --[u] | --[u] | --[u] | --[u] | --[u] | --[u] | <1 | -- | | | -- | 8.46 | 0.00 | 17.75 | -- |
| | 12/13/06 | <50 | <258 | <515 | <0.5 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | -- | | | -- | 8.90 | 0.00 | 17.31 | -- |
| | 03/07/07 | <50 | <258 | <515 | <0.5 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | -- | | | -- | 8.30 | 0.00 | 17.91 | -- |
| | 06/14/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | -- | | | -- | 7.46 | 0.00 | 18.75 | -- |
| | 09/12/07 | <50 | <240 | <481 | 1.08 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | -- | | | -- | 8.06 | 0.00 | 18.15 | -- |
| | 12/18/07 | <50 | <236 | <472 | <1 | <1 | <1.00 | <3 | <1 | <5 | 1.82 | -- | | | -- | 8.79 | 0.00 | 17.42 | -- |
| | 03/18/08 | <50 | <236 | <472 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.82 | | | <1 | 8.15 | 0.00 | 18.06 | -- |
| | 06/02/08 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <238 | 7.31 | 0.00 | 18.90 | -- |
| | 08/05/08 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **8.83** | <1 | | | <238 | 7.94 | 0.00 | 18.27 | -- |
| | 11/04/08 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **7.90** | <1.00 | | | <236 | 8.53 | 0.00 | 17.68 | -- |
| | 02/23/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | 2.32 | <1.00 | | | <240 | 8.40 | 0.00 | 17.81 | -- |
| | 05/17/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **3.27** | <1.00 | | | <240 | 7.62 | 0.00 | 18.59 | -- |
| | 08/17/09 | <50 | <240 | <470 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **7.90** | <5.0 | | | <240 | 20.00 | 0.00 | 6.21 | -- |
| | 11/16/09 | <50 | <240 | <470 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **5.3** | <1 | | | <240 | 8.55 | 0.00 | 17.66 | -- |
| | 02/21/10 | <50.0 | 126 | <383 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **4.0** | <0.10 | | | <76.6 | 8.67 | 0.00 | 17.54 | -- |
| | 05/23/10 | Well Destroyed | | | | | | | | | | | | | | | | | -- |
| **MW-82** | 11/03/05 | 16,300 | 1,850 [g] | <472 | 308 | 427 | 696 | 3,370 | <40 | -- | -- | -- | | | -- | 4.92 | 0.00 | 18.78 | -- |
| 23.70 | 02/21/06 | 15,400 | <258[q] | <515 | 483 | 256 | 477 | 2,110 | <1 | 78.7 | **3.90** | -- | | | -- | 5.12 | 0.00 | 18.58 | -- |
| | 05/11/06 | 6,890 | 554[p] | <476 | 221 | 120 | 177 | 1,043 | <10 | 31.0 | <1 | -- | | | -- | 4.88 | 0.00 | 18.82 | -- |
| | 08/29/06 | Not accessible - blocked by field office trailer | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 12/11/06 | 5,590 | <240 | <481 | 244 | 50.7 | 184 | 815 | <1 | 27.4 | 1.28 | -- | | | -- | 5.53 | 0.00 | 18.17 | -- |
| | 03/08/07 | 8,910 | <250 | <500 | 425 | 193 | 328 | 1,450 | <20 | <100 | 1.39 | -- | | | -- | 4.99 | 0.00 | 18.71 | -- |
| | 06/13/07 | 12,100 | <243 | <485 | 630 | 179 | 375 | 1,800 | <1 | 154 | 1.27 | -- | | | -- | 4.93 | 0.00 | 18.77 | -- |
| | 09/12/07 | 10,200 | <240 | <481 | 627 | 30.8 | 354 | 1,610 | <1 | 29 | <1 | -- | | | -- | 5.25 | 0.00 | 18.45 | -- |
| | 12/19/07 | 6,030 | <236 | <472 | 360 | 51 | 230 | 840 | <1 | 42 | **2.65** | -- | | | -- | 4.36 | 0.00 | 19.34 | -- |
| | 03/18/08 | 8,570 | <236 | <472 | 1,940 | 407 | 22.5 | 250 | 751 | <1 | **27.9** | <1 | | | <1 | 4.98 | 0.00 | 18.72 | -- |
| | 06/03/08 | 7,640 | <236 | <472 | 570 | 8.71 | 316 | 1,190 | <1 | 36.0 | 1.69 | <1 | | | 1,950 | 5.00 | 0.00 | 18.70 | -- |
| | 08/06/08 | 12,000 | <236 | <472 | 326 | 18 | 254 | 1,890 | <1 | 79.8 | 1.28 | <1 | | | 868 | 5.47 | 0.00 | 18.23 | -- |
| | 11/040/8 | 20,900 | <238 | <476 | 1,050 | 177 | 549 | 3,760 | <1.00 | 75.2 | <1.00 | <1.00 | | | 3,370 | 4.75 | 0.00 | 18.95 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-83** | 11/03/05 | 2,270 | <236 [j] | <472 [j] | 67.9 | 202 | 50.6 | 230 | <4 | -- | -- | -- | | | -- | 4.71 | 0.00 | 18.92 | -- |
| 23.63 | 02/24/06 | 4,370 | <250 | <500 | 198 | 367 | 93.9 | 393 | <4 | 23.8 | **3.59** | -- | | | -- | 4.84 | 0.00 | 18.79 | -- |
| | 05/11/06 | 2,820 | 550[p] | <500 | 163 | 172 | 66.6 | 259.9 | <4 | 14.3 | **4.96** | -- | | | -- | 5.02 | 0.00 | 18.61 | -- |
| | 08/31/06 | 386 | <236 | <472 | 8.90 | 4.97 | 6.30 | 24.7 | <1 | <5 | 1.11 | -- | | | -- | 5.88 | 0.00 | 17.75 | -- |
| | 03/06/07 | Not accessable- covered by sheet piles | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/13/07 | Not accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 09/12/07 | Not accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 12/19/07 | 1,030 | 358 | 593 | <1 | <1 | 1.6 | 1.2 | <1 | <1 | 1.73 | -- | | | -- | 6.34 | 0.00 | 17.29 | -- |
| | 03/17/08 | Buried with construction material | | | | | | | | | | | | | | -- | | | -- |
| | 06/03/08 | Well under construction debris | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/06/08 | Well under construction debris. | | | | | | | | | | | | | | | | | -- |
| **MW-84** | 11/02/05 | 95.5 | <236 | <472 | 10.2 | <0.5 | <0.500 | <3 | <1 | -- | -- | -- | | | -- | 9.85 | 0.00 | 18.66 | -- |
| 28.51 | 02/22/06 | 189 | <266 | <532 | 53.4 | 0.550 | <0.500 | <3 | <1 | <1 | <1 | -- | | | -- | 9.63 | 0.00 | 18.88 | -- |
| | 05/09/06 | 143 | <250 | <500 | 29.7 | 0.810 | <0.500 | <3 | <1 | <1 | <1 | -- | | | -- | 9.58 | 0.00 | 18.93 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-85** | 11/02/05 | 108 | <236 | <472 | 3.25 | 0.740 | 2.19 | 5.68 | <1 | -- | -- | -- | | | -- | 9.80 | 0.00 | 18.49 | -- |
| 28.29 | 02/22/06 | 69.8 | <248 | <495 | 5.47 | 0.770 | 0.850 | <3 | <1 | <1 | <1 | -- | | | -- | 9.29 | 0.00 | 19.00 | -- |
| | 05/09/06 | 69.5 | <245 | <490 | 4.56 | 0.720 | 0.800 | <3 | <1 | <1 | <1 | -- | | | -- | 9.20 | 0.00 | 19.09 | -- |
| | 08/29/06 | <80 | <248 | <495 | --[u] | --[u] | --[u] | --[u] | --[u] | --[u] | <1 | -- | | | -- | 10.57 | 0.00 | 17.72 | -- |
| | 09/20/06 | Decommissioned during construction activities | | | | | | | | | | | | | | | | | -- |
| **MW-86** | 11/02/05 | 3,010 | <248 | <495 | 508 | 5.09 | 5.26 | 31.5 | <1 | -- | -- | -- | | | -- | 9.28 | 0.00 | 18.27 | -- |
| 27.55 | 02/21/06 | 7,880 | <269[q] | <538 | 2,640 | 5.65 | 10.2 | 31.9 | <5 | <5 | <1 | -- | | | -- | 9.29 | 0.00 | 18.26 | -- |
| | 05/09/06 | 7,980 | <240 | <481 | 2,740 | <25 | 64.0 | 104 | <50 | 287 | <1 | -- | | | -- | 8.85 | 0.00 | 18.70 | -- |
| | 08/29/06 | 2,690[j] | <253 | <505 | 1,640 | 6.58 | 9.78 | 29.2 | 2.62 | <5 | 1.32 | -- | | | -- | 10.12 | 0.00 | 17.43 | -- |
| | 12/11/06 | 4,700 | <250 | <500 | 1,410 | 5.79 | 7.66 | 28.2 | 3.21 | <5 | 1.43 | -- | | | -- | 9.61 | 0.00 | 17.94 | -- |
| | 03/07/07 | 7,370 | <243 | <485 | 2,530 | <10 | 10.8 | <60 | <20 | <100 | <1 | -- | | | -- | 9.23 | 0.00 | 18.32 | -- |
| | 06/13/07 | 7,300 | <243 | <485 | 2,430 | 7.40 | 11.9 | 26.9 | <5 | <25 | <1 | -- | | | -- | 9.01 | 0.00 | 18.54 | -- |
| | 09/12/07 | 5,410 | <240 | <481 | 1,860 | 5.55 | 8.31 | 25.0 | 1.56 | <5 | <1 | -- | | | -- | 9.11 | 0.00 | 18.44 | -- |
| | 12/18/07 | 4,540 | <238 | <476 | 1,400 | 5.60 | 9.90 | 29.7 | <1 | 1.40 | 1.32 | -- | | | -- | 6.52 | 0.00 | 21.03 | -- |
| | 03/18/08 | 6,290 | <236 | <472 | 457 | 1,950 | 7.10 | 9.36 | 27.9 | <1 | <5 | <1 | | | <1 | 8.95 | 0.00 | 18.60 | -- |
| | 06/03/08 | 5,340 | <236 | <472 | 1,380 | 7.19 | 12.60 | 28.40 | <1 | <5 | <1 | <1 | | | 533 | 8.60 | 0.00 | 18.95 | -- |
| | 08/05/08 | 4,090 | <236 | <472 | 612 | 7.18 | 7.23 | 30.70 | <1 | <5 | <1 | <1 | | | 356 | 9.25 | 0.00 | 18.30 | -- |
| | 11/04/08 | 2,430 | <245 | <490 | 232 | <5.00 | 4.90 | 25.60 | <1.00 | <5.00 | <1.00 | <1.00 | | | 545 | 9.28 | 0.00 | 18.27 | -- |
| | 02/24/09 | 4,750 | <240 | <481 | 1,300 | 6.48 | 7.67 | 29.70 | -- | <5.00 | <1.00 | <1.00 | | | 4,760 | 8.90 | 0.00 | 18.65 | -- |
| | 05/17/09 | 10,300 | <243 | <485 | 3,380 | 22.40 | 87.70 | 95.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | 767 | 11.02 | 0.00 | 16.53 | -- |
| | 08/17/09 | 1,800 | 440 | <480 | 1500 | 23 | 45 | 71 | <1.0 | <5.0 | <5.0 | <5.0 | | | 2,100 | 12.62 | 0.00 | 14.93 | -- |
| | 11/16/09 | 2,700 | 1,000[r] | <480 | 2,100[n] | 42 | 76 | 200 | <1.0 | <5.0 | <1 | <1 | | | 1,600[r] | 9.41 | 0.00 | 18.14 | -- |
| | 02/22/10 | 1,550 | 1,940 | 1,640 | 906 | 10.5 | 41.2 | 90.5 | -- | 4 | 0.48 | <0.10 | | | 1,190 | 9.18 | 0.00 | 18.37 | -- |
| | 05/24/10 | 1,440 | 1,970 | 1,710 | 719 | 7.4 | 23.3 | 66.1 | -- | 1.8 | .51 | <0.10 | | | 1,960 | 8.32 | 0.00 | 19.23 | -- |
| | 08/16/10 | 1,270 | 87.6 | <388 | 331 | 6.0 | 10.6 | 48.6 | -- | 1.9 | .63 | .25 | | | 533 | 9.15 | 0.00 | 18.40 | -- |
| | 11/15/10 | 1,460 | <77.7 | <388 | 263 | 6.8 | 6.7 | 46.3 | -- | 2.2 | <10.0 | <10.0 | | | 540 | 8.92 | 0.00 | 18.63 | -- |
| | 02/27/11 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-87** | 11/02/05 | <50 | <245 | <490 | 2.35 | 1.28 | 1.33 | 6.61 | <1 | -- | -- | -- | | | -- | 8.40 | 0.00 | 18.34 | -- |
| 26.74 | 02/21/06 | <50 | <263[q] | <526 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.55 | 0.00 | 18.19 | -- |
| | 05/09/06 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1.0 | <1 | <1 | -- | | | -- | 7.98 | 0.00 | 18.76 | -- |
| | 08/29/06 | <80 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1.0 | <5 | <1 | -- | | | -- | 9.33 | 0.00 | 17.41 | -- |
| | 12/11/06 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1.0 | <5 | <1 | -- | | | -- | 8.96 | 0.00 | 17.78 | -- |
| | 03/07/07 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1.0 | <5 | <1 | -- | | | -- | 8.44 | 0.00 | 18.30 | -- |
| | 06/13/07 | 162 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1.0 | <5 | <1 | -- | | | -- | 8.17 | 0.00 | 18.57 | -- |
| | 09/12/07 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1.0 | <5 | <1 | -- | | | -- | 8.27 | 0.00 | 18.47 | -- |
| | 12/18/07 | <50 | <240 | <481 | <1 | <1 | <1 | <3 | <1.0 | <1 | **2.95** | -- | | | -- | 7.50 | 0.00 | 19.24 | -- |
| | 03/18/08 | <50 | <236 | <472 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | | | <1 | 8.09 | 0.00 | 18.65 | -- |
| | 06/03/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 7.80 | 0.00 | 18.94 | -- |
| | 08/05/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 8.44 | 0.00 | 18.30 | -- |
| | 11/04/08 | <50.0 | <243 | <485 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | 1.46 | <1.00 | | | <243 | 8.75 | 0.00 | 17.99 | -- |
| | 02/24/09 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | 1.27 | <1.00 | | | <236 | 7.70 | 0.00 | 19.04 | -- |
| | 05/17/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <240 | 10.92 | 0.00 | 15.82 | -- |
| | 08/17/09 | <50 | <240 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | <240 | 11.10 | 0.00 | 15.64 | -- |
| | 11/16/09 | <50 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | 1.3 | <1 | | | <240 | 8.74 | 0.00 | 18.00 | -- |
| | 02/22/10 | <50.0 | 643 | 860 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **3.3** | <0.10 | | | <76.6 | 8.40 | 0.00 | 18.34 | -- |
| | 05/24/10 | <50.0 | 543 | 675 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.86 | <0.10 | | | 263 | 7.50 | 0.00 | 19.24 | -- |
| | 08/16/10 | <50.0 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.4 | <0.10 | | | <78.4 | 8.35 | 0.00 | 18.39 | -- |
| | 11/15/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 8.00 | 0.00 | 18.74 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | -- |
| **MW-88** | 11/07/05 | 14,700 | <240 | <481 | 546 | <50 | 2,230 | 1,400 | <100 | -- | -- | -- | | | -- | 8.75 | 0.00 | 18.53 | -- |
| 27.28 | 02/21/06 | LPH Present | | | | | | | | | | | | | | 8.75 | Sheen | 18.53 | -- |
| | 05/10/06 | 20,500 | 418[p] | <476 | 768 | <50 | 2,590 | 1,121 | <100 | 734 | 1.97 | -- | | | -- | 8.38 | 0.00 | 18.90 | -- |
| | 08/29/06 | LPH Present | | | | | | | | | | | | | | 9.77 | 0.10 | 17.51 | -- |
| | 12/13/06 | 16,600 | 316 | <485 | 208 | <10 | 1,170 | 1,620 | <20 | 255 | 2.2 | -- | | | -- | 9.30 | 0.00 | 17.98 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-89** | 11/03/05 | 1,110 | <236 | <472 | 10.3 | 8.20 | 82.5 | 170 | <2 | -- | -- | -- | | | -- | 3.92 | 0.00 | 19.10 | -- |
| 23.02 | 02/24/06 | 49,900 | 1,180[g] | <515 | 188 | 916 | 2,050 | 7,950 | <20 | 860 | **23.4** | -- | | | -- | 4.36 | 0.00 | 18.66 | -- |
| | 05/11/06 | 24,300 | 3,040[p] | <495 | 96.0 | 352 | 1,200 | 3,452 | <40 | 365 | **37.4** | -- | | | -- | 4.37 | 0.00 | 18.65 | -- |
| | 08/31/06 | 463 | <245 | <490 | 6.85 | 15.4 | 40.9 | 82.2 | <1 | 59.8 | **12.2** | -- | | | -- | 5.41 | 0.00 | 17.61 | -- |
| | 12/11/06 | 1,100 | <248 | <495 | 3.21 | 14.6 | 38.1 | 87.9 | <1 | 50.8 | **6.6** | -- | | | -- | 4.83 | 0.00 | 18.19 | -- |
| | 03/08/07 | 2,640 | <250 | <500 | 13.4 | 14.8 | 206 | 396 | <10 | 122 | **290** | -- | | | -- | 4.10 | 0.00 | 18.92 | -- |
| | 06/13/07 | 2,450 | <236 | <472 | 21.6 | 72.2 | 148 | 816 | <1 | 596 | **12.5** | -- | | | -- | 4.41 | 0.00 | 18.61 | -- |
| | 09/13/07 | 102 | <238 | <476 | <0.5 | 7.65 | 5.87 | <3 | <1 | 63.2 | **35.5** | -- | | | -- | 4.57 | 0.00 | 18.45 | -- |
| | 12/19/07 | 210 | <236 | <472 | 1.4 | <1 | <1 | 3.3 | <1 | 4.7 | **145.0** | -- | | | -- | 3.19 | 0.00 | 19.83 | -- |
| | 03/18/08 | 522 | <236 | <472 | 260 | 0.89 | 1.66 | 13.90 | 7.62 | <1 | **57.0** | **875.0** | | | <1 | 3.93 | 0.00 | 19.09 | -- |
| | 06/03/08 | 818 | <236 | <472 | 4.84 | 0.64 | 16.50 | 23.50 | <1 | 97.8 | **38.5** | <1 | | | 357 | 4.40 | 0.00 | 18.62 | -- |
| | 08/06/08 | 601 | <236 | <472 | 1.79 | 1.22 | 15.70 | 24.50 | <1 | 70.4 | **10.9** | <1 | | | 276 | 4.96 | 0.00 | 18.06 | -- |
| | 11/04/08 | 4,590 | <236 | <472 | 2.27 | 1.55 | 150.00 | 214.00 | <1.00 | 61.2 | **16.4** | <1.00 | | | 1,610 | 4.49 | 0.00 | 18.53 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-90** | 11/02/05 | 3,840 [m] | 444[g] | <490 | 70.8 | 2.94 | 244 | 792 | <4 | -- | -- | -- | | | -- | 4.22 | 0.00 | 18.68 | -- |
| 22.90 | 02/21/06 | 19,800 | 504[g] | <538 | 218 | 10.0 | 805 | 2,400 | <20 | 187 | **5.59** | -- | | | -- | 4.33 | 0.00 | 18.57 | -- |
| | 05/11/06 | 10,200 | 1,170[p] | <495 | 125 | 6.90 | 348 | 1,222 | <10 | 91.3 | **2.87** | -- | | | -- | 4.07 | 0.00 | 18.83 | -- |
| | 08/29/06 | Not accessible - blocked by heavy equipment | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/06/07 | Not accessible - blocked by heavy equipment | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/13/07 | 9,180 | <248 | <495 | 118 | 1.90 | 194 | 1,290 | <1 | 166 | 2.14 | -- | | | -- | 4.14 | 0.00 | 18.76 | -- |
| | 09/12/07 | 3,870 | <240 | <481 | 46.3 | 1.15 | 64.0 | 645 | <1 | 58.0 | **4.64** | -- | | | -- | 4.36 | 0.00 | 18.54 | -- |
| | 12/17/07 | Well compromised, unable to sample | | | | | | | | | | | | | | 3.43 | 0.00 | 19.47 | -- |
| | 03/18/08 | 1,060 | <236 | <472 | 367 | 11.4 | <0.5 | 3.11 | 17.3 | <1 | **14.3** | **8.29** | | | <1 | 3.90 | 0.00 | 19.00 | -- |
| | 06/03/08 | 536 | <236 | <472 | 8.06 | <0.5 | 1.41 | 8.92 | <1 | 5.27 | **3.23** | <1 | | | <236 | 4.10 | 0.00 | 18.80 | -- |
| | 08/06/08 | 422 | <236 | <472 | 7.2 | <0.5 | 0.91 | 5.63 | <1 | 15.1 | **17.6** | <1 | | | <236 | 4.60 | 0.00 | 18.30 | -- |
| | 11/03/08 | 1,460 | <391 | <781 | 9.49 | <0.500 | 6.75 | 8.45 | <1.00 | 15.9 | **2.86** | <1.00 | | | <391 | 4.25 | 0.00 | 18.65 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-91** | 11/03/05 | 9,390 | 2,230[g] | <472 | 56.2 | 6.45 | 319 | 414 | <10 | -- | -- | -- | | | -- | 4.13 | 0.00 | 19.00 | -- |
| 23.13 | 02/24/06 | 6,080 | 487[g] | <515 | 21.0 | 2.67 | 177 | 430 | <1 | 188 | 2.39 | -- | | | -- | 4.51 | 0.00 | 18.62 | -- |
| | 05/11/06 | 5,900 | 931[p] | <485 | 14.9 | 14.5 | 106 | 162.7 | <4 | 171 | 1.49 | -- | | | -- | 4.33 | 0.00 | 18.80 | -- |
| | 08/29/06 | Not accessible - blocked by heavy equipment | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/06/07 | Not accessible - blocked by heavy equipment | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/13/07 | 1,180 | <236 | <472 | <0.5 | 0.770 | 0.580 | <3 | <1 | 91.6 | 1.80 | -- | | | -- | 4.36 | 0.00 | 18.77 | -- |
| | 09/12/07 | 160 | <240 | <481 | <0.5 | <0.5 | <0.500 | <3 | <1 | 13.2 | 1.05 | -- | | | -- | 4.60 | 0.00 | 18.53 | -- |
| | 12/19/07 | 316 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | 4.2 | **4.13** | -- | | | -- | 3.48 | 0.00 | 19.65 | -- |
| | 03/18/08 | 646 | <236 | <472 | 253 | 0.98 | <0.5 | 5.16 | <3 | <1 | **12.0** | **3.32** | | | <1 | 4.00 | 0.00 | 19.13 | -- |
| | 06/03/08 | 359 | <236 | <472 | 2.42 | <0.5 | <0.5 | <3 | <1 | <5 | **3.00** | <1 | | | <236 | 4.33 | 0.00 | 18.80 | -- |
| | 08/06/08 | 163 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | 21.9 | **3.04** | <1 | | | <236 | 4.85 | 0.00 | 18.28 | -- |
| | 11/03/08 | 252 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **101.00** | <1.00 | | | <236 | 4.39 | 0.00 | 18.74 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-92** | 11/02/05 | 12,300 | 338[g] | <472 | 925 | 83.4 | 756 | 940 | <20 | -- | -- | -- | | | -- | 10.28 | 0.00 | 18.70 | -- |
| 28.98 | 02/22/06 | 4,360 | <248 | <495 | 261 | 8.60 | 111 | 127 | <5 | 36.0 | **3.58** | -- | | | -- | 10.13 | 0.00 | 18.85 | -- |
| | 05/10/06 | 5,580 | <240 | <481 | 458 | 11.2 | 122 | 97.6 | <20 | 38.4 | **2.69** | -- | | | -- | 10.22 | 0.00 | 18.76 | -- |
| | 08/31/06 | 3,770 | <243 | <485 | 770 | 25.0 | 197 | 103 | <1 | 55.1 | **3.36** | -- | | | -- | 11.34 | 0.00 | 17.64 | -- |
| | 12/13/06 | 1,190 | <238 | <476 | 23.2 | 0.730 | 23.6 | 14.7 | <1 | 5.05 | <1 | -- | | | -- | 10.12 | 0.00 | 18.86 | -- |
| | 03/08/07 | 525 | <250 | <500 | 7.68 | <0.5 | 8.90 | 4.70 | <1 | <5 | <1 | -- | | | -- | 9.86 | 0.00 | 19.12 | -- |
| | 06/13/07 | 662 | <238 | <476 | 30.2 | <0.5 | 8.98 | <3 | <1 | <5 | <1 | -- | | | -- | 10.20 | 0.00 | 18.78 | -- |
| | 09/13/07 | 1,150 | <238 | <476 | 39.9 | 1.19 | 35.1 | <3 | <1 | 5.18 | <1 | -- | | | -- | 10.30 | 0.00 | 18.68 | -- |
| | 12/18/07 | 1,410 | <238 | <476 | 79.0 | 1.20 | 14.0 | 3.10 | <1 | 4.30 | **3.64** | -- | | | -- | 9.26 | 0.00 | 19.72 | -- |
| | 03/17/08 | 1,490 | <236 | <472 | 355 | 51.6 | 1.14 | 22.6 | 5.67 | <1 | <5 | 2.41 | | | <1 | 10.02 | 0.00 | 18.96 | -- |
| | 06/03/08 | 682 | <236 | <472 | 4.71 | <0.5 | 5.6 | <3 | <1 | <5 | 1.48 | <1 | | | 244 | 10.21 | 0.00 | 18.77 | -- |
| | 08/05/08 | 546 | <238 | <476 | 5.77 | 0.54 | 2.48 | <3 | <1 | <5 | **7.64** | <1 | | | <238 | 10.75 | 0.00 | 18.23 | -- |
| | 11/03/08 | 1,030 | <238 | <476 | 56.50 | 4.87 | 6.400 | 6.06 | <1.00 | 6.8 | **2.59** | <1.00 | | | 375 | 10.47 | 0.00 | 18.51 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-93** | 11/02/05 | 79.3 | <248 | <495 | 0.370 | 0.570 | 0.720 | 2.35 | <2 | -- | -- | -- | | | -- | 7.06 | 0.00 | 18.68 | -- |
| 25.74 | 02/21/06 | 1,200 | 3,580[p] | <526 | 2.38 | 0.780 | 3.25 | 3.18 | <1 | 1.71 | 1.16 | -- | | | -- | 7.25 | 0.00 | 18.49 | -- |
| | 05/10/06 | 1,200[j] | 1,540 | <472 | <0.5 | 0.790 | 2.04 | 1.70 | <1 | 2.04 | <1 | -- | | | -- | 6.90 | 0.00 | 18.84 | -- |
| | 08/31/06 | 204 | <243 | <485 | <0.5 | 0.610 | 1.55 | <3 | <1 | <5 | **2.98** | -- | | | -- | 8.15 | 0.00 | 17.59 | -- |
| | 12/13/06 | 1,120 | <253 | <505 | <0.5 | 0.670 | 2.54 | 3.18 | <1 | <5 | 1.25 | -- | | | -- | 7.54 | 0.00 | 18.20 | -- |
| | 03/07/07 | 1,010 | 3,490 | <500 | 11.60 | 0.760 | 2.91 | 3.59 | <1 | <5 | <1 | -- | | | -- | 6.99 | 0.00 | 18.75 | -- |
| | 06/13/07 | 1,330 | 822 [g, p] | 1,250 | <0.5 | 0.680 | 1.77 | 3.01 | <1 | 5.40 | 1.66 | -- | | | -- | 6.94 | 0.00 | 18.80 | -- |
| | 09/13/07 | 303 | 267 | 616 | <0.5 | <0.5 | 1.37 | <3 | <1 | 5.43 | 1.05 | -- | | | -- | 7.26 | 0.00 | 18.48 | -- |
| | 12/17/07 | Unable to locate on site map | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/17/08 | 1,200 | 541 | 1,660 | 464 | <0.5 | <0.5 | 0.96 | <3 | <1 | <5 | <1 | | | <1 | 6.79 | 0.00 | 18.95 | -- |
| | 06/03/08 | 1,320 | 429 | <472 | 6.56 | <0.5 | 3.62 | 1.44 | <1 | <5 | <1 | <1 | | | 613 | 6.63 | 0.00 | 19.11 | -- |
| | 08/06/08 | 847 | 1,140 | 1,270 | <0.5 | 0.51 | 1.44 | <3 | <1 | <5 | **2.69** | <1 | | | 946 | 7.50 | 0.00 | 18.24 | -- |
| | 11/03/08 | 1,110 | 564 | 842 | <0.500 | <0.500 | 1.43 | <3.00 | <1.00 | <5.00 | **2.95** | <1.00 | | | 535 | 5.87 | 0.00 | 19.87 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-94** | 11/02/05 | 393 | 277[g] | <472 | 1.74 | 0.750 | 30.2 | 4.62 | <2 | -- | -- | -- | | | -- | 3.21 | 0.00 | 18.69 | -- |
| 21.90 | 02/24/06 | 172 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | **4.81** | -- | | | -- | 3.38 | 0.00 | 18.52 | -- |
| | 05/11/06 | 236 | 360 | <500 | <0.5 | <0.5 | <0.5 | <3 | <1 | 1.60 | **10.4** | -- | | | -- | 3.10 | 0.00 | 18.80 | -- |
| | 08/31/06 | <100 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 4.30 | 0.00 | 17.60 | -- |
| | 12/13/06 | 159 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **4.24** | -- | | | -- | 3.76 | 0.00 | 18.14 | -- |
| | 03/07/07 | 1,720 | <248 | <495 | 1.88 | <0.5 | 33.6 | <3 | <1 | 93.8 | <1 | -- | | | -- | 3.16 | 0.00 | 18.74 | -- |
| | 06/13/07 | 2,340 | <250 | <500 | <0.5 | <0.5 | 0.710 | <3 | <1 | 96.7 | 2.13 | -- | | | -- | 3.21 | 0.00 | 18.69 | -- |
| | 09/12/07 | 521 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 3.48 | 0.00 | 18.42 | -- |
| | 12/19/07 | 285 | <236 | <472 | 1,010 | <1.00 | <1 | <1.00 | <3 | <1 | <1 | **12.90** | | | -- | 2.54 | 0.00 | 19.36 | -- |
| | 03/17/08 | 2,490 | 255 | <472 | 1,010 | 1.33 | <0.5 | 31.5 | <3 | <1 | **46.6** | **2.65** | | | <1 | 2.89 | | 19.01 | -- |
| | 06/02/08 | Gauged but not sampled | | | | | | | | | | | | | | 5.15 | 0.00 | 16.75 | -- |
| | 08/06/08 | 637 | <236 | <472 | 0.58 | <0.5 | 0.80 | <3 | <1 | <5 | **3.80** | <1 | | | 294 | 3.68 | 0.00 | 18.22 | -- |
| | 11/03/08 | Well under water, unable to sample. | | | | | | | | | | | | | | 3.23 | 0.00 | 18.67 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-95** | 11/02/05 | 545 | <236 | <472 | 1.06 | 0.910 | 1.18 | 9.87 | <1 | -- | -- | -- | | | -- | 13.50 | 0.00 | 18.49 | -- |
| 31.99 | 02/23/06 | 278 | 240[g] | <481 | 9.67 | 5.57 | 7.88 | 19.20 | <1 | 3.31 | <1 | <1 | | | -- | 13.00 | 0.00 | 18.99 | -- |
| | 05/09/06 | 326 | <255 | <510 | 2.91 | 0.730 | 1.40 | 15.78 | <1 | 5.56 | <1 | <1 | | | -- | 13.35 | 0.00 | 18.64 | -- |
| | 08/30/06 | 94.3 | <248 | <495 | --[u] | --[u] | --[u] | --[u] | --[u] | --[u] | <1 | <1 | | | -- | 13.82 | 0.00 | 18.17 | -- |
| | 12/12/06 | 1,330 | <243 | <485 | 52.9 | 14.5 | 32.9 | 119 | <1 | 10.6 | <1 | <1 | | | -- | 12.98 | 0.00 | 19.01 | -- |
| | 03/07/07 | 60.2 | <250 | <500 | 3.87 | <0.5 | 1.31 | 10.5 | <1 | <5 | <1 | <1 | | | -- | 12.87 | 0.00 | 19.12 | -- |
| | 06/14/07 | 215 | <236 | <472 | 4.12 | <0.5 | 1.60 | 41.7 | <1 | <5 | <1 | <1 | | | -- | 13.10 | 0.00 | 18.89 | -- |
| | 09/13/07 | <50.0 | <238 | <476 | <0.5 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | <1 | | | -- | 13.18 | 0.00 | 18.81 | -- |
| | 12/18/07 | <50 | <238 | <476 | <1 | <1 | <1 | <3 | <1 | <1 | <1 | <1 | | | -- | 12.45 | 0.00 | 19.54 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| | 03/17/08 | <50 | <236 | <472 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | | | <1 | 12.69 | 0.00 | 19.30 | -- |
| | 06/03/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 8.78 | 0.00 | 23.21 | -- |
| | 08/04/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 14.02 | 0.00 | 17.97 | -- |
| | 11/04/08 | <50.0 | <248 | <495 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <248 | 13.75 | 0.00 | 18.24 | -- |
| | 02/24/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <240 | 13.50 | 0.00 | 18.49 | -- |
| | 05/17/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <240 | 14.01 | 0.00 | 17.98 | -- |
| | 08/16/09 | <50 | <240 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | <240 | 15.67 | 0.00 | 16.32 | -- |
| | 11/15/09 | 110 | <240 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <1 | <1 | | | <240 | 13.62 | 0.00 | 18.37 | -- |
| | 02/21/10 | <50.0 | 202 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.58 | <0.10 | | | <77.7 | 13.01 | 0.00 | 18.98 | -- |
| | 05/23/10 | <50.0 | 80.0 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.47 | <0.10 | | | 83.2 | 13.18 | 0.00 | 18.81 | -- |
| | 08/16/10 | 56.5 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | 4.5 | -- | <1.0 | 0.28 | <0.10 | | | <78.4 | 13.45 | 0.00 | 18.54 | -- |
| | 11/15/10 | 85.7 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | 23.7 | -- | <1.0 | <10.0 | <10.0 | | | 97.0 | 12.85 | 0.00 | 19.14 | -- |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | -- |
| **MW-96** | 11/02/05 | 3,230 | 501[g] | <472 | 172 | 75.1 | 65.0 | 714 | <4 | -- | -- | -- | | | -- | 6.28 | 0.00 | 18.70 | -- |
| 24.98 | 02/21/06 | LPH Present | | | | | | | | | | | | | | 6.43 | 0.02 | 18.57 | -- |
| | 05/11/06 | 6,190 | 5,570 | <971 | 392 | 136 | 152 | 1,057 | <10 | 90.8 | 1.20 | 1.20 | | | -- | 6.20 | 0.01 | 18.78 | -- |
| | 08/29/06 | LPH Present | | | | | | | | | | | | | | 7.48 | 0.23 | 17.04 | -- |
| | 12/11/06 | LPH Present | | | | | | | | | | | | | | 6.76 | 0.30 | 18.22 | -- |
| | 03/06/07 | Not accessible - construction materials | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/13/07 | Not accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 09/12/07 | Not accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 12/17/07 | Not accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/17/08 | Buried with construction material | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/03/08 | Well under construction debris | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/06/08 | Well under construction debris. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/04/08 | Well under construction debris. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-97** | 11/02/05 | 17,600 | 441[g] | <490 | 121 | 38.2 | 1,010 | 1,860 | <1 | -- | -- | -- | | | -- | 11.70 | 0.00 | 18.65 | -- |
| 30.35 | 02/22/06 | 39,900 | 811[g] | <500 | 350 | 32.8 | 1,840 | 3,730 | <40 | 735 | **21.6** | -- | | | -- | 11.17 | 0.00 | 19.18 | -- |
| | 05/09/06 | 30,300[j] | 686 | <498 | 264 | 65.5 | 1,740 | 2,660 | <50 | 768 | **12.0** | -- | | | -- | 11.60 | 0.00 | 18.75 | -- |
| | 08/30/06 | 6,580 | 456[g] | <485 | 82.4 | 6.40 | 749 | 401 | <1 | 516 | **7.48** | -- | | | -- | 12.17 | 0.00 | 18.18 | -- |
| | 09/25/06 | Decommissioned during construction activities | | | | | | | | | | | | | | | | | -- |
| **MW-98** | 11/02/05 | 25,800 | <250 | <500 | 1,880 | 4,080 | 680 | 3,760 | <1 | -- | -- | -- | | | -- | 11.85 | 0.00 | 18.62 | -- |
| 30.47 | 02/22/06 | 173,000 | 360[g] | <556 | 14,000 | 30,500 | 4,090 | 22,200 | <400 | 888 | **49.9** | -- | | | -- | 11.24 | 0.00 | 19.23 | -- |
| | 05/09/06 | 186,000 | 651[p] | <472 | 12,700 | 29,000 | 4,800 | 22,560 | <1,000 | 11,800 | **50.0** | -- | | | -- | 11.44 | 0.00 | 19.03 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-99** | 11/02/05 | 910 | <243 | <485 | 1.84 | 0.850 | 11.1 | 73.8 | <1 | -- | -- | -- | | | -- | 10.57 | 0.00 | 18.77 | -- |
| 29.34 | 02/22/06 | 4,910 | <240 | <481 | 28.4 | <2.5 | 203 | 811 | <5 | 80.8 | **14.0** | -- | | | -- | 10.23 | 0.00 | 19.11 | -- |
| | 05/09/06 | 3,370 | <248 | <495 | 14.0 | <5 | 82.5 | 521.3 | <10 | 59.7 | **6.57** | -- | | | -- | 10.43 | 0.00 | 18.91 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-101** | 07/25/05 | 6,960 | 432[b] | <500 | 39.1 | 61.4 | 88.0 | 429 | <5 | 19.7 | -- | -- | | | -- | 9.45 | 0.00 | 18.65 | -- |
| 28.10 | 11/04/05 | 2,960 | <236 | <472 | 53.8 | 44.8 | 72.1 | 464 | <5 | -- | -- | -- | | | -- | 9.65 | 0.00 | 18.45 | -- |
| | 02/23/06 | 4,890 | <250 | <500 | 99.4 | 16.9 | 150 | 768 | <4 | 27.5 | <1 | -- | | | -- | 9.57 | 0.00 | 18.53 | -- |
| | 05/09/06 | 1,120 | <238 | <476 | 14.2 | 1.62 | 27.1 | 136.7 | <2 | 6.06 | <1 | -- | | | -- | 9.13 | 0.00 | 18.97 | -- |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-102** | 07/25/05 | Well could not be located | | | | | | | | | | | | | | -- | -- | -- | -- |
| 23.86 | 11/03/05 | 10,200 | 1,730[g] | <472 | 471 | 12.0 | 492 | 1,490 | <20 | -- | -- | -- | | | -- | 5.10 | 0.00 | 18.76 | -- |
| | 02/24/06 | 11,400 | 294[g] | <532 | 471 | 3.96 | 473 | 1,160 | <4 | 90.4 | **4.54** | -- | | | -- | 5.29 | 0.00 | 18.57 | -- |
| | 05/11/06 | 2,810[j] | 370[p] | <490 | 97.6 | <2 | 35.8 | 177.6 | <4 | 22.9 | 1.71 | -- | | | -- | 5.01 | 0.00 | 18.85 | -- |
| | 08/31/06 | 2,430 | <236 | <472 | 212 | <2.5 | 101 | 208 | <5 | 29.5 | **2.71** | -- | | | -- | 6.29 | 0.00 | 17.57 | -- |
| | 12/11/06 | 13,600 | 243 | <485 | 608 | 30.6 | 609 | 1,190 | <1 | 118 | **6.08** | -- | | | -- | 5.70 | 0.00 | 18.16 | -- |
| | 03/08/07 | 10,000 | 257 | <500 | 366 | 25.8 | 448 | 1,240 | <20 | 183 | **3.58** | -- | | | -- | 5.16 | 0.00 | 18.70 | -- |
| | 06/13/07 | 8,080 | 275[g] | <476 | 320 | 2.26 | 182 | 894 | <1 | 139 | **4.54** | -- | | | -- | 5.12 | 0.00 | 18.74 | -- |
| | 09/12/07 | 8,800 | 246 | <481 | 428 | 2.38 | 426 | 792 | <1 | 90.2 | **30.8** | -- | | | -- | 5.41 | 0.00 | 18.45 | -- |
| **MW-102** | 12/19/07 | 13,500 | 289 | <472 | 400 | 160 | 570 | 1,320 | <1 | 140 | **14.9** | -- | | | -- | 4.56 | 0.00 | 19.30 | -- |
| contd. | 03/18/08 | 9,840 | 347 | <472 | 2770 | 291 | 1.5 | 371 | 746 | <1 | **99.4** | **24.2** | | | 1.75 | 4.92 | 0.00 | 18.94 | -- |
| | 06/03/08 | 660 | 359 | <472 | 208 | <0.5 | 78.5 | 239 | <1 | 85.9 | **29.00** | <1 | | | 2,170 | 5.15 | 0.00 | 18.71 | -- |
| | 08/06/08 | 3,310 | 276 | <472 | 138 | 0.79 | 43.2 | 69 | <1 | 54.2 | **54.10** | 1.14 | | | 1,240 | 5.63 | 0.00 | 18.23 | -- |
| | 11/04/08 | 8,720 | 497 | <472 | 232 | 1.23 | 366 | 248.0 | <1.00 | 108 | **19.20** | 1.36 | | | 2,920 | 4.30 | 0.00 | 19.56 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-103** | 07/26/05 | <50 | <250 | <500 | <0.2 | <0.2 | <0.2 | <0.5 | <1 | <0.5 | -- | -- | | | -- | 8.61 | 0.00 | -- | -- |
| 27.22 | 11/07/05 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | -- | -- | -- | | | -- | 8.82 | 0.00 | 18.40 | -- |
| | 02/24/06 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.66 | 0.00 | 18.56 | -- |
| | 05/09/06 | <50 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 7.84 | 0.00 | 19.38 | -- |
| | 08/30/06 | <80 | <248 | <495 | --[u] | --[u] | --[u] | --[u] | --[u] | --[u] | <1 | -- | | | -- | 6.01 | 0.00 | 21.21 | -- |
| | 12/13/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 9.00 | 0.00 | 18.22 | -- |
| | 03/06/07 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-105** | 07/26/05 | 62,000 | 821[b] | <500 | 1,970 | 7,460 | 2,640 | 12,750 | <1 | 723 | -- | -- | | | -- | 10.88 | 0.00 | -- | -- |
| 29.61 | 11/02/05 | 66,100 | 495[g] | <538 | 1,370 | 6,430 | 2,360 | 12,300 | <1 | -- | -- | -- | | | -- | 10.94 | 0.00 | 18.67 | -- |
| | 02/22/06 | 50,000 | 332[g] | <495 | 1,200 | 2,810 | 1,990 | 8,540 | <50[q,r] | 498 | **5.13** | -- | | | -- | 10.59 | 0.00 | 19.02 | -- |
| | 05/09/06 | 62,300 | 867[p] | <472 | 1,200 | 5,070 | 2,210 | 10,550 | <100 | 440 | **9.54** | -- | | | -- | 10.69 | 0.00 | 18.92 | -- |
| | 06/12/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-200** | 11/07/05 | 533 | <250 | <500 | 4.39 | 1.21 | 8.65 | 22.1 | 5.03 | -- | -- | -- | | | -- | 11.22 | 0.00 | 18.47 | -- |
| 29.69 | 02/22/06 | 2,560 | 270[g] | <490 | 38.4 | 2.38 | 57.3 | 70.9 | 1.84 | 60.7 | 1.60 | -- | | | -- | 11.15 | 0.00 | 18.54 | -- |
| | 05/10/06 | 1,440[j] | <245 | <490 | 25.1 | 0.620 | 35.5 | 12.82 | 1.57 | 45.2 | <1 | -- | | | -- | 11.29 | 0.00 | 18.40 | -- |
| | 08/29/06 | 471[j] | <236 | <472 | 7.10 | 2.00 | 31.3 | 28.2 | 1.11 | 53.0 | <1 | -- | | | -- | 11.95 | 0.00 | 17.74 | -- |
| | 12/12/06 | 1,630 | <245 | <490 | 7.12 | 1.30 | 20.0 | 27.9 | 1.90 | 25.0 | 1.05 | -- | | | -- | 11.29 | 0.00 | 18.40 | -- |
| | 03/06/07 | <50 | <260 | <521 | <5 | <5 | <5.00 | <3 | 1.12 | <5 | 1.73 | -- | | | -- | 11.05 | 0.00 | 18.64 | -- |
| | 06/14/07 | 262 | <243 | <485 | 3.63 | <0.5 | 1.61 | <3 | <1 | <5 | 1.87 | -- | | | -- | 11.08 | 0.00 | 18.61 | -- |
| | 09/14/07 | <50 | <245 | <490 | <0.5 | <0.5 | <0.500 | <3 | <1 | <5 | <1 | -- | | | -- | 11.25 | 0.00 | 18.44 | -- |
| | 12/17/07 | 327 | <240 | <481 | 1.5 | <1 | 18.00 | 10 | <1 | -- | **9.24** | -- | | | -- | 9.60 | 0.00 | 20.09 | -- |
| | 03/17/08 | Well compromised- buried by machinery | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/01/08 | 2,390 | 270 | <481 | 27.5 | 1.07 | 55.20 | 16.6 | <1 | 92.8 | 2.46 | <1 | | | 1,220 | 8.13 | 0.00 | 21.56 | -- |
| | 08/10/08 | 1,140 | <238 | <476 | 10.4 | 0.85 | 21.20 | 6.7 | <1 | 45.3 | **7.41** | <1 | | | 616 | 12.10 | 0.00 | 17.59 | -- |
| | 11/02/08 | North lane of Mercer flooded. Unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 02/22/09 | 4,570 | 5,550 | <481 | 17.1 | 2.12 | 58.0 | 45.4 | -- | 134 | 1.82 | <1.00 | | | 1,820 | 11.45 | 0.00 | 8.25 | -- |
| | 05/17/09 | 7,160 | 396 | <476 | 71.4 | 3.72 | 224.0 | 363 | <1.00 | 273 | **10.4** | <1.00 | | | 1,820 | 9.85 | 0.00 | 19.84 | -- |
| | 08/16/09 | 1,800 | 330 | <480 | <0.50 | <0.50 | 12 | 11 | <1.0 | 22 | **5.8** | <5.0 | | | 810 | 14.22 | 0.00 | 15.47 | -- |
| | 11/15/09 | 2,300 | 890[f] | <490 | 8.3 | <0.50 | 30 | 17 | <1.0 | 59 | **8** | <1 | | | 1,000[f] | 11.35 | 0.00 | 18.34 | -- |
| | 02/21/10 | 8,170 | 3,160 | 1,300 | 116 | 2 | 445 | 151 | -- | 510 | **4.2** | 0.59 | | | 5,000 | 11.02 | 0.00 | 18.67 | -- |
| | 05/23/10 | North lane of Mercer flooded. Unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/15/10 | 4,290 | 608 | <388 | 89.7 | 1.0 | 191 | 1.0 | -- | 388 | **6.2** | 0.70 | | | 1,820 | 11.36 | 0.00 | 18.33 | -- |
| | 11/15/10 | North lane of Mercer flooded. Unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | -- |
| **MW-201** | 11/07/05 | 56.8 | 974[f] | 4,180 | <0.5 | <0.5 | 0.990 | 9.49 | <1 | -- | -- | -- | | | -- | 9.81 | 0.00 | 19.51 | -- |
| 29.32 | 02/22/06 | 199 | 464[h] | 1,460 | 27.6 | 14.2 | <0.500 | <3 | <1 | <1 | **9.78** | -- | | | -- | 10.76 | 0.00 | 18.56 | -- |
| | 05/10/06 | 221 | <250 | <500 | 27.1 | 14.6 | <0.500 | <3 | <1 | <1 | **3.01** | -- | | | -- | 11.12 | 0.00 | 18.20 | -- |
| | 08/29/06 | 114 | <248 | <495 | 19.1 | 10.6 | <0.500 | <3 | <1 | <5 | 2.16 | -- | | | -- | 11.64 | 0.00 | 17.68 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | -- | -- | -- | **22.7** | **18,900** | **6,820** | -- | -- | **4,710** | **2.5** | **2.5** | -- | -- | -- | | | | |
| | 12/12/06 | 223 | <245 | <490 | 16.3 | 1.79 | <0.500 | <3 | <1 | <5 | **3.88** | -- | | | -- | 11.65 | 0.00 | 17.67 | -- |
| | 03/06/07 | 174 | <260 | <521 | 25.6 | 1.46 | <5.00 | <3 | <1 | <5 | **2.54** | -- | | | -- | 11.65 | 0.00 | 17.67 | -- |
| | 06/14/07 | 206 | <245 | <490 | 20.4 | 0.870 | <0.500 | <3 | <1 | <5 | <1 | -- | | | -- | 10.89 | 0.00 | 18.43 | -- |
| | 09/14/07 | 125 | <245 | <490 | 21.4 | 0.750 | <0.500 | <3 | <1 | <5 | 1.87 | -- | | | -- | 11.16 | 0.00 | 18.16 | -- |
| | 12/17/07 | Unable to sample- well under water | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/18/08 | 281 | <236 | <472 | <236 | 11 | 0.58 | <0.5 | <3 | <1 | <5 | **6.72** | | | 1.28 | 10.63 | 0.00 | 18.69 | -- |
| | 06/01/08 | 196 | <238 | <476 | 18.3 | 7.40 | <0.5 | <3 | <1 | <5 | **19.80** | 2.29 | | | <238 | 10.90 | 0.00 | 18.42 | -- |
| | 08/10/08 | 125 | <243 | <485 | 17.7 | 1.14 | <0.5 | <3 | <1 | <5 | **13.30** | **3.73** | | | <243 | 11.90 | 0.00 | 17.42 | -- |
| | 11/02/08 | North lane of Mercer flooded. Unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 02/22/09 | 157 | <238 | 6,530 | 11.5 | <0.500 | <0.500 | <3.00 | -- | <5.00 | **8.43** | <1.00 | | | <238 | 10.90 | 0.00 | 4.20 | -- |
| | 05/17/09 | 173 | <248 | <495 | 12.4 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **11.8** | 1.28 | | | <248 | 12.10 | 0.00 | 17.22 | -- |
| | 08/16/09 | 230 | 570 | 3,300 | 2.7 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **95** | <5.0 | | | <240 | 13.87 | 0.00 | 15.45 | -- |
| | 11/15/09 | 73 | <240 | <480 | 12[H] | <0.50[H] | <0.50[H] | <2.0[H] | <1.0[H] | <5.0[H] | **14** | 2.30 | | | <240 | 10.88 | 0.00 | 18.44 | -- |
| | 02/21/10 | <50.0 | 655 | 1,970 | 3.8 | <1.0 | <1.0 | 5.3 | -- | <1.0 | **9.1** | <0.10 | | | <79.2 | 10.56 | 0.00 | 18.76 | -- |
| | 05/23/10 | 56.8 | 639 | 1670 | 9.7 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **5.9** | <0.10 | | | 353 | 10.64 | 0.00 | 18.68 | -- |
| | 08/15/10 | <50.0 | 113 | 451 | 8.7 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **4.4** | <0.10 | | | <79.2 | 10.98 | 0.00 | 18.34 | -- |
| | 11/15/10 | North lane of Mercer flooded. Unable to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | -- |
| **MW-202** | 11/04/05 | 247 | <240 | <481 | 0.630 | 0.880 | <0.5 | 1.80 | <1 | -- | -- | -- | | | -- | 12.77 | 0.00 | 17.78 | -- |
| 30.55 | 02/22/06 | <50 | <253 | <505 | <0.5 | <0.5 | <0.5 | <3 | <1[q,r] | <1 | 1.71 | -- | | | -- | 12.35 | 0.00 | 18.20 | -- |
| | 05/10/06 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 12.43 | 0.00 | 18.12 | -- |
| | 08/29/06 | <80 | <253 | <505 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **9.54** | -- | | | -- | 12.76 | 0.00 | 17.79 | -- |
| | 12/12/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 12.24 | 0.00 | 18.31 | -- |
| | 03/08/07 | <50 | <253 | <505 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.04 | -- | | | -- | 12.23 | 0.00 | 18.32 | -- |
| | 06/14/07 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 12.44 | 0.00 | 18.11 | -- |
| | 09/14/07 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.43 | -- | | | -- | 12.54 | 0.00 | 18.01 | -- |
| | 12/19/07 | <50 | <240 | <481 | <1 | <1 | <1.00 | <3 | <1 | <1 | <1 | -- | | | -- | 12.12 | 0.00 | 18.43 | -- |
| | 03/18/08 | <50 | <236 | <472 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | | | <1 | 12.42 | 0.00 | 18.13 | -- |
| | 06/02/08 | <50 | <240 | <481 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <240 | 12.47 | 0.00 | 18.08 | -- |
| | 08/05/08 | <50 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <248 | 12.65 | 0.00 | 17.90 | -- |
| | 11/05/08 | <50.0 | <243 | <485 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <243 | 12.52 | 0.00 | 18.03 | -- |
| | 02/25/09 | <50.0 | <243 | <485 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <243 | 12.80 | 0.00 | 17.75 | -- |
| | 05/17/09 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **12.90** | <1.00 | | | <236 | 13.63 | 0.00 | 16.92 | -- |
| | 08/16/09 | <50 | <240 | <470 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **7.50** | <5.0 | | | <240 | 15.32 | 0.00 | 15.23 | -- |
| | 11/15/09 | <50 | <240 | <470 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | 2.3 | <1 | | | <240 | 12.54 | 0.00 | 18.01 | -- |
| | 02/21/10 | <50.0 | 82.8 | <381 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.1 | <0.10 | | | <76.2 | 12.23 | 0.00 | 18.32 | -- |
| | 05/23/10 | <50.0 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | .91 | <0.10 | | | <78.4 | 12.33 | 0.00 | 18.22 | -- |
| | 08/18/10 | <50.0 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.8 | <0.10 | | | <78.4 | 12.60 | 0.00 | 17.95 | -- |
| | 11/16/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 11.68 | 0.00 | 18.87 | -- |
| | | Abandoned or Damaged - To be decomissioned at a later date. | | | | | | | | | | | | | | | | | -- |
| **MW-203** | 11/08/05 | <50 | <238 | <476 | 1.14 | <0.5 | 0.780 | <3 | <1 | -- | -- | -- | | | -- | 8.24 | 0.00 | 18.39 | -- |
| 26.63 | 02/24/06 | <50 | <260 | <521 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 8.05 | 0.00 | 18.58 | -- |
| | 05/09/06 | <50 | <248 | <495 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 6.99 | 0.00 | 19.64 | -- |
| | 08/30/06 | <80 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 8.30 | 0.00 | 18.33 | -- |
| | 12/13/06 | <50 | <258 | <515 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 8.46 | 0.00 | 18.17 | -- |
| | 03/07/07 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 7.67 | 0.00 | 18.96 | -- |
| | 06/13/07 | Not accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 09/12/07 | Not accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 12/19/07 | <50 | <236 | <472 | <1 | <1 | <1.00 | <3 | <1 | <1 | 1.69 | -- | | | -- | 7.49 | 0.00 | 19.14 | -- |
| | 03/18/08 | <50 | <236 | <472 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | | | <1 | 6.95 | 0.00 | 19.68 | -- |
| | 06/02/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 6.24 | 0.00 | 20.39 | -- |
| | 08/05/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.66 | <1 | | | <236 | 6.94 | 0.00 | 19.69 | -- |
| 25.94 | 11/04/08 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **272.00** | <1.00 | | | <236 | 7.05 | 0.00 | 18.89 | -- |
| | 02/25/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | **3.21** | <1.00 | | | <240 | 5.54 | 0.00 | 20.40 | -- |
| | 05/17/09 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **4.03** | <1.00 | | | <236 | 7.00 | 0.00 | 19.63 | -- |
| | 08/17/09 | <50 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | <240 | 7.95 | 0.00 | 17.99 | -- |
| | 11/16/09 | <50 | <240 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **4.3** | <1 | | | <240 | 7.92 | 0.00 | 18.02 | -- |
| | 02/22/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.16 | <0.10 | | | <77.7 | 7.44 | 0.00 | 18.50 | -- |
| | 05/24/10 | <50.0 | <76.9 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.9 | <0.10 | | | <76.9 | 6.34 | 0.00 | 19.60 | -- |
| | 08/18/10 | <50.0 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | .84 | <0.10 | | | <78.4 | 7.12 | 0.00 | 18.82 | -- |
| | 11/15/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 7.84 | 0.00 | 18.10 | -- |
| | 02/27/11 | Well compromised, unable to sample | | | | | | | | | | | | | -- | -- | -- | -- | -- |
| | 06/14/11 | Not sampled | | | | | | | | | | | | | | | | | -- |
| **MW-204** | 11/03/05 | 725 | <236 | <472 | 34.5 | 0.550 | 23.3 | 13.6 | <2 | -- | -- | -- | | | -- | 10.05 | 0.00 | 18.08 | -- |
| 28.13 | 02/21/06 | 3,120 | <287[q] | <575 | 388 | <2.5 | 221 | 87.0 | <5 | 42.2 | 1.63 | -- | | | -- | 10.09 | 0.00 | 18.04 | -- |
| | 05/09/06 | 2,990[j] | <236[p] | <472 | 343 | 9.05 | 144 | 84.7 | <5 | 50.6 | <1 | -- | | | -- | 9.40 | 0.00 | 18.73 | -- |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-205** | 11/02/05 | 735 | <236 | <472 | 0.750 | <0.5 | 23.2 | 20.6 | <1 | -- | -- | -- | | | -- | 9.34 | 0.00 | 18.74 | -- |
| 28.08 | 02/22/06 | 3,950 | <245 | <490 | 7.60 | <2.50 | 307 | 116 | <5[q,r] | 82.0 | **3.64** | -- | | | -- | 9.22 | 0.00 | 18.86 | -- |
| | 05/10/06 | 1,530 | <236 | <472 | 2.68 | <1.00 | 86.8 | 30.04 | <2 | 38.5 | 1.31 | -- | | | -- | 9.19 | 0.00 | 18.89 | -- |
| | 06/13/06 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-206** | 11/03/05 | 93.4 | <236 | <472 | 2.23 | <0.5 | 2.86 | 2.84 | <2 | -- | -- | -- | | | -- | 12.60 | 0.00 | 18.94 | -- |
| 31.54 | 02/23/06 | <50 | 279[p] | <490 | 7.57 | 0.560 | <0.5 | <3 | <1 | <1 | 1.24 | -- | | | -- | 12.40 | 0.00 | 19.14 | -- |
| | 05/10/06 | <50 | <263 | <526 | 8.54 | <0.5 | <0.5 | <3 | <1 | <1 | 1.04 | -- | | | -- | 12.75 | 0.00 | 18.79 | -- |
| | 08/29/06 | <80 | <266 | <532 | 1.63 | <0.5 | <0.5 | <3 | <1 | <5 | 1.84 | -- | | | -- | 13.25 | 0.00 | 18.29 | -- |
| | 06/13/07 | Lack of water to sample | | | | | | | | | | | | | | 10.36 | 0.00 | 21.18 | -- |
| | 09/14/07 | Lack of water to sample | | | | | | | | | | | | | | 10.67 | 0.00 | 20.87 | -- |
| | 12/17/07 | <50 | 293 | 1,020 | | <1 | <1 | <1 | <2 | <1 | -- | **6.16** | | | | 9.50 | 0.00 | 22.04 | -- |
| | 03/17/08 | <50 | 331 | 1,080 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **852.00** | | | <1 | 9.76 | 0.00 | 21.78 | -- |
| | 06/02/08 | Insufficient water to sample | | | | | | | | | | | | | | 10.91 | 0.00 | 20.63 | -- |
| | 08/04/08 | Insufficient water to sample. | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/03/08 | <50 | <243 | 564 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **14.80** | 1.65 | | | <243 | 9.03 | 0.00 | 22.51 | -- |
| | 02/23/09 | Well dry | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 05/17/09 | Well dry | | | | | | | | | | | | | | 10.80 | 0.00 | 19.74 | -- |
| | 08/16/09 | Well dry | | | | | | | | | | | | | | 11.48 | 0.00 | 20.06 | -- |
| | 11/15/09 | <50 | 1,400[y] | 10,000 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | **330** | <1 | | | 330 | 9.60 | 0.00 | 21.94 | -- |
| | 02/21/10 | <50.0 | -- | -- | <1.0 | <1.0 | <1.0 | <1.0 | -- | <1.0 | -- | <0.10 | | | -- | 9.32 | 0.00 | 22.22 | -- |
| | 05/23/10 | <50.0 | -- | -- | <1.0 | <1.0 | <1.0 | <1.0 | -- | <1.0 | **7810** | <0.10 | | | -- | 9.48 | 0.00 | 22.06 | -- |
| | 08/15/10 | Well dry | | | | | | | | | | | | | | 10.88 | 0.00 | 20.66 | -- |
| | 11/14/10 | <50.0 | 5,990 | 49,100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 1.0 | **58.1** | <10.0 | | | 546 | 6.85 | 0.00 | 24.69 | -- |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | -- |
| **MW-207** | 11/04/05 | <50 | <281 | <562 | 2.82 | <0.5 | <0.5 | <3 | <1 | -- | -- | -- | | | -- | 13.79 | 0.00 | 16.86 | -- |
| 30.65 | 02/23/06 | <50 | <248 | <495 | 3.52 | 2.05 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 13.64 | 0.00 | 17.01 | -- |
| | 05/10/06 | <50 | <250 | <500 | 1.85 | 1.86 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 13.81 | 0.00 | 16.84 | -- |
| | 08/29/06 | <80 | <253 | <505 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.22 | -- | | | -- | 14.40 | 0.00 | 16.25 | -- |
| | 12/12/06 | <50 | <248 | <495 | 1.21 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 14.07 | 0.00 | 16.58 | -- |
| | 03/07/07 | <50 | <263 | <526 | 0.960 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 13.88 | 0.00 | 16.77 | -- |
| | 06/15/07 | <50 | <238 | <476[r] | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 13.84 | 0.00 | 16.81 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 09/14/07 | <50 | <245 | <490 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 13.88 | 0.00 | 16.77 | -- |
| | 12/19/07 | <50 | <236 | <472 | <1 | <1 | <1 | <3 | <1 | <1 | <1 | -- | | | -- | 13.70 | 0.00 | 16.95 | -- |
| | 03/18/08 | <50 | <236 | <472 | <236 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | | | <1 | 14.28 | 0.00 | 16.37 | -- |
| | 06/02/08 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <238 | 14.52 | 0.00 | 16.13 | -- |
| | 08/05/08 | <50 | <238 | <476 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | 1.58 | <1 | | | <238 | 14.66 | 0.00 | 15.99 | -- |
| | 11/05/08 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | 1.02 | <1.00 | | | <240 | 13.85 | 0.00 | 16.80 | -- |
| | 02/23/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 05/17/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/17/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/15/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 02/21/10 | <50.0 | 681 | 536 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.20 | <0.10 | | | <92.0 | 13.81 | 0.00 | 16.84 | -- |
| | 05/24/10 | Inaccessible | | | | | | | | | | | | | | | | | -- |
| | 08/15/10 | Well Decommissioned | | | | | | | | | | | | | | | | | -- |
| **MW-208** | 11/07/05 | 1,980 | <250 | <500 | 20.2 | 4.40 | 35.2 | 143 | <1 | -- | -- | -- | | | -- | 11.44 | 0.00 | 18.84 | -- |
| 30.28 | 02/22/06 | 11,900 | <243 | <485 | 131 | 35.4 | 450 | 1,610 | <20 | 96.8 | 2.17 | -- | | | -- | 11.11 | 0.00 | 19.17 | -- |
| | 05/10/06 | 13,400 | <236 | <472 | 185 | 29.2 | 785 | 2,358 | <20 | 184 | 1.80 | -- | | | -- | 11.52 | 0.00 | 18.76 | -- |
| | 08/30/06 | 21,800 | 276[g] | <495 | 213 | 93.9 | 1,590 | 5,960 | <1 | 521 | **2.88** | -- | | | -- | 12.10 | 0.00 | 18.18 | -- |
| | 12/12/06 | 21,800 | 542 | <490 | 78.6 | 18.2 | 949 | 3,780 | <20 | 315 | 1.28 | -- | | | -- | 11.09 | 0.00 | 19.19 | -- |
| | 03/08/07 | 34,000 | 454 | <500 | 212 | 25.2 | 1,660 | 5,360 | 40.0 | 838 | <1 | -- | | | -- | 11.02 | 0.00 | 19.26 | -- |
| | 06/14/07 | 57,400 | 591 [g] | <472 | 241 | 52.6 | 3,520 | 12,900 | <20 | 2,110 | 1.74 | -- | | | -- | 11.22 | 0.00 | 19.06 | -- |
| | 09/14/07 | 63,000 | 1,120 | <490 | 93.7 | 44.2 | 2,360 | 8,480 | <1 | 1,080 | <1 | -- | | | -- | 11.40 | 0.00 | 18.88 | -- |
| | 12/17/07 | 8,770 | <238 | <476 | 30.0 | 1.4 | 470 | 1,310 | <1 | -- | 2.97 | -- | | | -- | 10.63 | 0.00 | 19.65 | -- |
| | 03/18/08 | 23,200 | 512 | <472 | 6,180 | 35.2 | 5.58 | 756 | 2,280 | <1 | **210** | **217.00** | | | <1 | 10.91 | 0.00 | 19.37 | -- |
| | 06/01/08 | 17,200 | 310 | <472 | 29.2 | 10.3 | 856 [x] | 2200 [x] | <1 | 256 [x] | **7.91** | <1 | | | 7,460 | 12.22 | 0.00 | 18.06 | -- |
| | 08/10/08 | 40,600 | 115 | <485 | 52.1 | 31 | 1,490 | 4,920 | <10 | 414 | **6.23** | 1.56 | | | 12,600 | 12.30 | 0.00 | 17.98 | -- |
| | 11/02/08 | 32,700 | 988 | <490 | 10.9 | 23.5 | 947 | 3,150 | <1.00 | 21.4 | 1.80 | 1.41 | | | 12,500 | 11.80 | 0.00 | 18.48 | -- |
| | 02/23/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 05/17/09 | 18,000 | 652 | <476 | 4.72 | 6.26 | 700 | 2,100 | <1.00 | 274 | **3.84** | <1.00 | | | 7,330 | 12.15 | 0.00 | 18.13 | -- |
| | 08/16/09 | 22,000 | <240 | <480 | Not analyzed due to analyst error. | | | | | | <5.0 | <5.0 | | | 11,000 | 13.92 | 0.00 | 18.13 | -- |
| | 11/15/09 | 28,000 | 5,600[Y] | <470 | 8.9 | 5.6 | 630[H] | 2,400[H] | <1.0 | 280[H] | **4** | <1 | | | 10,000[Y] | 11.70 | 0.00 | 18.58 | -- |
| | 02/21/10 | 23,700 | 1,250 | 472 | 6.4 | <5.0 | 679 | 1,980 | -- | 222 | **6.1** | 0.16 | | | 8,870 | 11.05 | 0.00 | 19.23 | -- |
| | 05/23/10 | 18,500 | 1,200 | <385 | 7.0 | 2.1 | 341 | 1750 | -- | 173 | **42.7** | .29 | | | 6,550 | 11.20 | 0.00 | 19.08 | -- |
| | 08/15/10 | 14,800 | 699 | <392 | 3.4 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **3.90** | 0.50 | | | 5,760 | 11.44 | 0.00 | 18.84 | -- |
| | 11/14/10 | 7,440 | 515 | <388 | 2.4 | <1.0 | 122 | 32.1 | -- | 53.6 | <10.0 | <10.0 | | | 3,870 | 10.75 | 0.00 | 19.53 | -- |
| | 02/27/11 | Decomissioned | | | | | | | | | | | | | | | | | -- |
| | 11/20/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 6.89 | 0.00 | 21.11 | -- |
| | 11/06/13 | 281 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 10.43 | 0.00 | Note Z | -- |
| 28.05 | 07/29/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 14.81 | 0.00 | 13.24 | -- |
| 27.88 | 12/08/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 11.40 | 0.00 | 16.48 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.91 | 0.00 | 17.97 | -- |
| | 06/22/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.43 | 0.00 | 17.45 | -- |
| | 09/10/15 | <100 | -- | -- | 2.1 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.59 | 0.00 | 17.29 | -- |
| | 12/07/15 | <100 | -- | -- | 2.9 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.60 | 0.00 | 18.28 | -- |
| | 06/28/16 | Not Gauged or Sampled. | | | | | | | | | | | | | | | | | -- |
| | 12/15/16 | <100 | -- | -- | 1.9 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.80 | 0.00 | 18.08 | -- |
| **MW-209** | 11/05/08 | <50.0 | <238 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <238 | 9.22 | 0.00 | 18.66 | -- |
| 27.00 | 02/23/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 05/17/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 08/17/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 11/17/09 | Inaccessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 02/22/10 | <50.0 | 251 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.3 | <0.10 | | | <77.7 | 9.30 | 0.00 | 17.70 | -- |
| | 05/24/10 | <50.0 | 192 | <396 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.1 | <0.10 | | | 137 | 8.04 | 0.00 | 18.96 | -- |
| | 08/18/10 | <50.0 | 86.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 1.3 | <0.10 | | | <77.7 | 8.86 | 0.00 | 18.14 | -- |
| | 11/16/10 | <50.0 | 85.1 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 9.45 | 0.00 | 17.55 | -- |
| | 03/01/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | <77.7 | 9.26 | 0.00 | 17.74 | -- |
| | 06/15/11 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 0.19 | <0.10 | | | -- | 8.10 | 0.00 | 18.90 | -- |
| | 08/30/11 | <50.0 | <80.0 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.35 | 0.17 | | | -- | 9.09 | 0.00 | 17.91 | -- |
| | 12/06/11 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | 0.12 | 0.18 | | | <82.5 | 9.50 | 0.00 | 17.50 | -- |
| | 02/15/12 | <50.0 | 103 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.1 | <10.0 | <10.0 | | | <82.5 | 9.70 | 0.00 | 17.30 | -- |
| | 05/16/12 | <50.0 | <79.2 | <396 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <79.2 | 8.08 | 0.00 | 18.92 | -- |
| | 08/15/12 | <50.0 | 117 | <426 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | 85.6 | 8.80 | 0.00 | 18.20 | |
| | 11/21/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 9.00 | 0.00 | 18.00 | |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 9.66 | 0.00 | 17.34 | -- |
| | 07/29/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 10.36 | 0.00 | 16.64 | -- |
| 26.88 | 12/09/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 9.61 | 0.00 | 17.27 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.90 | 0.00 | 17.98 | -- |
| | 06/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.98 | 0.00 | 17.90 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.75 | 0.00 | 17.13 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.77 | 0.00 | 18.11 | -- |
| | 06/28/16 | Not Gauged or Sampled. | | | | | | | | | | | | | | | | | -- |
| | 12/15/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.60 | 0.00 | 17.28 | -- |
| **MW-210** | 11/05/08 | <50.0 | <243 | <485 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <243 | 8.60 | 0.00 | 18.10 | -- |
| 26.70 | 02/25/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <240 | 5.90 | 0.00 | 20.80 | -- |
| | 05/17/09 | <50.0 | <245 | <490 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <245 | 8.61 | 0.00 | 18.09 | -- |
| | 08/17/09 | <50 | <240 | <280 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | <240 | 9.60 | 0.00 | 17.10 | -- |
| | 11/17/09 | <50 | <240 | <490 | <0.50 | <0.50 | <0.50[H] | <2.0 | <1.0 | <5.0 | 1.3 | <1 | | | <240 | 8.15 | 0.00 | 18.55 | -- |
| | 02/22/10 | <50.0 | 154 | <381 | <1.0 | <1.0 | <1.0 | 5.5 | -- | <1.0 | 0.31 | 0.21 | | | <76.2 | 8.73 | 0.00 | 17.97 | -- |
| | 05/24/10 | <50.0 | 190 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | .45 | <0.10 | | | 150 | 7.65 | 0.00 | 19.05 | -- |
| | 08/18/10 | <50.0 | <78.4 | <392 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | .36 | <0.10 | | | <78.4 | 8.54 | 0.00 | 18.16 | -- |
| | 11/16/10 | <50.0 | 85.1 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 8.81 | 0.00 | 17.89 | -- |
| | 03/01/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | <77.7 | 8.77 | 0.00 | 17.93 | -- |
| | 06/15/11 | <50.0 | <86.0 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 0.27 | <0.10 | | | -- | 7.73 | 0.00 | 18.97 | -- |
| | 08/30/11 | <50.0 | <87.0 | <435 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <0.10 | <0.10 | | | <87.0 | 8.67 | 0.00 | 18.03 | -- |
| | 12/06/11 | <50.0 | <86.2 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <0.10 | 0.22 | | | <82.5 | 8.95 | 0.00 | 17.75 | -- |
| | 02/15/12 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.1 | <10.0 | <10.0 | | | <82.5 | 9.20 | 0.00 | 17.50 | -- |
| | 05/16/12 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <83.3 | 7.64 | 0.00 | 19.06 | -- |
| | 08/15/12 | <50.0 | <85.1 | <426 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <85.1 | 8.43 | 0.00 | 18.27 | -- |
| | 11/21/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 6.42 | 0.00 | 20.28 | -- |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 9.42 | 0.00 | 17.28 | -- |
| | 07/29/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.010 | <1.0 | -- | 10.72 | 0.00 | 15.98 | -- |
| 26.56 | 12/09/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0099 | <1.0 | -- | 9.39 | 0.00 | 17.17 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.54 | 0.00 | 18.02 | -- |
| | 06/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.76 | 0.00 | 17.80 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.45 | 0.00 | 17.11 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.50 | 0.00 | 18.06 | -- |
| | 06/28/16 | Not Gauged or Sampled. | | | | | | | | | | | | | | | | | -- |
| | 12/15/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.90 | 0.00 | 17.66 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| **MW-211** | 11/05/08 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | <1.00 | <1.00 | | | <240 | 7.23 | 0.00 | 19.32 | -- |
| 26.55 | 02/25/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <240 | 8.19 | 0.00 | 18.39 | -- |
| | 05/17/09 | <50.0 | <236 | <472 | <0.500 | <0.500 | <0.500 | <3.00 | <1.00 | <5.00 | **4.72** | <1.00 | | | <236 | 9.10 | 0.00 | 17.45 | -- |
| | 08/17/09 | <50 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | <240 | 9.74 | 0.00 | 16.81 | -- |
| | 11/17/09 | <50 | <240 | <480 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <1 | <1 | | | <240 | 8.24 | 0.00 | 18.31 | -- |
| | 02/22/10 | <50.0 | 146 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.42 | <0.10 | | | <76.9 | 7.91 | 0.00 | 18.64 | -- |
| | 05/24/10 | <50.0 | 115 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | .46 | .29 | | | 85.1 | 7.56 | 0.00 | 18.99 | -- |
| | 08/18/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | .34 | .13 | | | <77.7 | 8.42 | 0.00 | 18.13 | -- |
| | 11/15/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 8.37 | 0.00 | 18.18 | -- |
| | 03/01/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | <77.7 | 8.54 | 0.00 | 18.01 | -- |
| | 06/15/11 | <50.0 | <84.2 | <421 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 0.12 | <0.10 | | | -- | 5.61 | 0.00 | 20.94 | -- |
| | 08/30/11 | <50.0 | <84.2 | <421 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <0.10 | <0.10 | | | <84.2 | 8.48 | 0.00 | 18.07 | -- |
| | 12/06/11 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <0.10 | 0.15 | | | <83.3 | 8.83 | 0.00 | 17.72 | -- |
| | 02/15/12 | <50.0 | <75.5 | <377 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.1 | <10.0 | <10.0 | | | <75.5 | 9.10 | 0.00 | 17.45 | -- |
| | 05/16/12 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 4.0 | <10.0 | <10.0 | | | <83.3 | 7.65 | 0.00 | 18.90 | -- |
| | 08/15/12 | <50.0 | <88.9 | <444 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <88.9 | 8.42 | 0.00 | 18.13 | -- |
| | 12/13/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | | | -- | 12.51 | 0.00 | 14.04 | -- |
| | 01/04/19 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | -- | <2.0 | <2.0 | | | -- | 8.48 | 0.00 | 18.07 | |
| **MW-806** | 11/02/05 | 61.8 | <245 | <490 | 1.57 | <0.5 | 2.94 | 10.3 | <2 | -- | -- | -- | | | -- | 7.58 | 0.00 | -- | -- |
| 26.28 | 02/24/06 | 117 | <238 | <476 | <0.5 | 0.910 | 1.49 | 4.24 | <1 | <1 | 2.16 | -- | | | -- | 7.71 | 0.00 | 18.57 | -- |
| | 12/11/06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.21 | 0.00 | 18.07 | -- |
| | | Abandoned or Damaged - To be decomissioned at a later date. | | | | | | | | | | | | | | | | | -- |
| **MW-X** | 11/02/05 | 760 | 252[f] | <472 | **114** | 0.730 | 14.0 | 7.16 | <1 | -- | -- | -- | | | -- | 9.65 | 0.00 | 18.72 | -- |
| 28.37 | 02/21/06 | Casing damaged - unable to collect sample | | | | | | | | | | | | | | | | | -- |
| **SMW-2S** | 07/25/05 | Casing damaged - unable to collect sample | | | | | | | | | | | | | | 8.28 | -- | -- | -- |
| | 11/02/05 | Not monitored | | | | | | | | | | | | | | | | | -- |
| | 11/21/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 6.70 | 0.00 | 19.85 | -- |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 9.45 | 0.00 | 17.10 | -- |
| | 07/29/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0097 | <1.0 | -- | 12.24 | 0.00 | 14.31 | -- |
| 26.48 | 12/09/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | **28.9** | <10.0 | <0.0098 | <1.0 | -- | 9.67 | 0.00 | 16.81 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.77 | 0.00 | 17.71 | -- |
| | 06/22/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.91 | 0.00 | 17.57 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.51 | 0.00 | 16.97 | -- |
| | 12/07/15 | Well Was Submerged Under Surface Water | | | | | | | | | | | | | | | | | |
| | 06/28/16 | Unable to access well, not gauged or sampled. | | | | | | | | | | | | | | | | | -- |
| | 12/15/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.80 | 0.00 | 17.68 | -- |
| **MW-212** | 09/30/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.021 | <1.0 | -- | 14.23 | 0.00 | -- | -- |
| 29.09 | 12/09/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0097 | <1.0 | -- | 12.83 | 0.00 | 16.26 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.53 | 0.00 | 17.56 | -- |
| | 06/22/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.15 | 0.00 | 16.94 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.87 | 0.00 | 17.22 | -- |
| | 12/07/15 | Well Was Inaccessible Due to Parked Vehicle Over Monument | | | | | | | | | | | | | | | | | |
| | 06/28/16 | Not Gauged or Sampled | | | | | | | | | | | | | | | | | |
| | 12/13/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.60 | 0.00 | 18.49 | -- |
| **MW-213** | 10/06/14 | 105 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | **11.0** | <10.0 | <0.020 | <1.0 | -- | 11.63 | 0.00 | -- | -- |
| 27.35 | 12/08/14 | <100 | -- | -- | 4.9 | <1.0 | <1.0 | <3.0 | <1.0 | -- | **12.8** | <10.0 | <0.0098 | <1.0 | -- | 10.40 | 0.00 | 16.95 | -- |
| | 03/23/15 | 364 | -- | -- | **70.6** | <1.0 | 18.7 | 18.5 | -- | -- | -- | -- | -- | -- | -- | 9.39 | 0.00 | 17.96 | -- |
| | 6/23/2015[aa] | 453 | -- | -- | **43.1** | 1.3 | 16.8 | 27.8 | -- | -- | -- | -- | -- | -- | -- | 9.24 | 0.00 | 18.11 | -- |
| | 6/23/2015[bb] | 150 | -- | -- | **9.4** | <1.0 | 6.1 | 3.1 | -- | -- | -- | -- | -- | -- | -- | 9.24 | 0.00 | 18.11 | -- |
| | 9/11/2015[cc] | 638 | -- | -- | 2.2 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.98 | 0.00 | 17.37 | |
| | 9/11/2015[dd] | <100 | -- | -- | 3.4 | <1.0 | 1.4 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.98 | 0.00 | 17.37 | |
| | 12/07/15 | <100 | -- | -- | 1.2 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 6.67 | 0.00 | 20.68 | |
| | 06/28/16 | <250 | -- | -- | 2.3 | <0.50 | 5.5 | 3.2 | -- | -- | -- | -- | -- | -- | -- | 9.41 | 0.00 | 17.94 | |
| | 12/15/16 | 408 | -- | -- | **41.8** | <1.0 | 8.7 | 3.2 | -- | -- | -- | -- | -- | -- | -- | 9.00 | 0.00 | 18.35 | |
| | 06/29/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 17.81 | 0.00 | 9.54 | |
| | 12/13/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | -- | -- | -- | 15.13 | 0.00 | 12.22 | |
| | 06/13/18 | **152** | -- | -- | 1.4 | 0.13J | 2.5 | <0.13 | -- | -- | **2.8J** | **2.6J** | | | -- | 8.82 | 0.00 | 18.53 | |
| | 01/04/19 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.13 | -- | -- | <2.0 | <2.0 | | | -- | 8.50 | 0.00 | 18.85 | |
| **MW-214** | 10/06/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.021 | <1.0 | -- | 12.14 | 0.00 | -- | -- |
| 27.33 | 12/08/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.010 | <1.0 | -- | 10.84 | 0.00 | 16.49 | -- |
| | 03/23/15 | <100 | -- | | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.45 | 0.00 | 17.88 | -- |
| | 06/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.92 | 0.00 | 17.41 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.00 | 0.00 | 17.33 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 6.86 | 0.00 | 20.47 | -- |
| | 06/28/16 | Not Gauged or Sampled | | | | | | | | | | | | | | | | | -- |
| | 12/15/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.50 | 0.00 | 18.83 | -- |
| **MW-215** | 10/06/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.020 | <1.0 | -- | 12.25 | 0.00 | -- | -- |
| 27.21 | 12/08/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0099 | <1.0 | -- | 11.14 | 0.00 | 16.07 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.82 | 0.00 | 17.39 | -- |
| | 06/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.98 | 0.00 | 17.23 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.26 | 0.00 | 16.95 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 6.24 | 0.00 | 20.97 | -- |
| | 06/28/16 | Not Gauged or Sampled | | | | | | | | | | | | | | | | | -- |
| | 12/15/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.30 | 0.00 | 17.91 | -- |
| | 06/29/17 | Well dewatered. | | | | | | | | | | | | | | | | | -- |
| | 12/13/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | -- | -- | -- | 15.75 | 0.00 | 11.46 | -- |
| | 06/13/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.72 | -- | 18.49 | -- |
| | 01/04/19 | <19.6 | -- | -- | <0.10 | <0.083 | <0.14 | <0.31 | -- | -- | <2.0 | <2.0 | | | -- | 8.95 | -- | 18.26 | -- |
| **MW-216** | 10/03/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.020 | <1.0 | -- | 21.94 | 0.00 | -- | -- |
| 29.68 | 12/09/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0096 | <1.0 | -- | 13.97 | 0.00 | 15.71 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.43 | 0.00 | 17.25 | -- |
| | 06/22/15 | <100 | -- | -- | 2.3 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.85 | 0.00 | 16.83 | -- |
| | 09/12/15 | <100 | -- | -- | 1.4 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.68 | 0.00 | 17.00 | -- |
| | 12/07/15 | <100 | -- | -- | **10.3** | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.57 | 0.00 | 18.11 | -- |
| | 06/28/16 | <250 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | 13.01 | 0.00 | 16.67 | -- |
| | 12/13/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.70 | 0.00 | 18.98 | -- |
| | 12/12/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | -- | -- | -- | 21.15 | 0.00 | 8.53 | -- |
| | 01/03/19 | <19.6 | -- | -- | <0.10 | 0.20J | <0.14 | <0.31 | -- | -- | <2.0 | <2.0 | | | -- | 11.00 | | 18.68 | -- |
| **MW-217** | 10/03/14 | <100 | -- | -- | 1.8 | 9.1 | 1.0 | 5.3 | <1.0 | -- | <10.0 | <10.0 | <0.020 | <1.0 | -- | 23.64 | 0.00 | -- | -- |
| 30.08 | 12/09/14 | <100 | -- | -- | **6.1** | <1.0 | <1.0 | <3.0 | <1.0 | -- | **14.7** | <10.0 | <0.0096 | <1.0 | -- | 13.42 | 0.00 | 16.66 | -- |
| | 03/23/15 | <100 | -- | -- | 4.5 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.87 | 0.00 | 17.21 | -- |
| | 06/22/15 | 105 | -- | -- | 4.8 | <1.0 | 1 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 13.13 | 0.00 | 16.95 | -- |
| | 9/12/2015[ee] | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.42 | 0.00 | 17.66 | -- |
| | 9/12/2015[ff] | 197 | -- | -- | 4.4 | <1.0 | 2.3 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.42 | 0.00 | 17.66 | -- |
| | 12/07/15 | 182 | -- | -- | 1.6 | <1.0 | 3.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.37 | 0.00 | 18.71 | -- |
| | 06/28/16 | <250 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | 12.95 | 0.00 | 17.13 | -- |
| | 12/13/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.35 | 0.00 | 18.73 | -- |
| | 12/12/17 | 226 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | -- | -- | -- | 19.67 | 0.00 | 10.41 | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 01/03/19 | **229** | -- | -- | 0.20J | 19.3 | 1.1 | 3.1 | -- | -- | <2.0 | <2.0 | | | -- | 11.38 | | 18.70 | -- |
| **MW-218** | 10/03/14 | 492 | -- | -- | <1.0 | 3.0 | <1.0 | 8.4 | <1.0 | -- | <10.0 | <10.0 | <0.021 | <1.0 | -- | 20.62 | 0.00 | -- | -- |
| 29.64 | 12/09/14 | 616 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.010 | <1.0 | -- | 13.05 | 0.00 | 16.59 | -- |
| | 03/23/15 | 353 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.71 | 0.00 | 17.93 | -- |
| | 06/22/15 | 560 | -- | -- | <1.0 | <1.0 | <1.0 | 5.6 | -- | -- | -- | -- | -- | -- | -- | 12.29 | 0.00 | 17.35 | -- |
| | 9/12/2015[gg] | 614 | -- | -- | <1.0 | <1.0 | 1.1 | 11.2 | -- | -- | -- | -- | -- | -- | -- | 11.94 | 0.00 | 17.70 | -- |
| | 9/13/2015[hh] | 258 | -- | -- | <1.0 | <1.0 | 1.2 | 11.4 | -- | -- | -- | -- | -- | -- | -- | 11.94 | 0.00 | 17.70 | -- |
| | 12/07/15 | 180 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.96 | 0.00 | 18.68 | -- |
| | 06/28/16 | Not Gauged or Sampled | | | | | | | | | | | | | | | | | -- |
| | 12/13/16 | 515 | -- | -- | <1.0 | <1.0 | <1.0 | 5.5 | -- | -- | -- | -- | -- | -- | -- | 10.95 | 0.00 | 18.69 | -- |
| | 12/12/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | -- | -- | -- | 15.72 | 0.00 | 13.92 | -- |
| | 01/03/19 | 104 | -- | -- | <0.10 | 0.78J | <0.14 | <0.31 | -- | -- | <2.0 | <2.0 | | | | 11.00 | 0.00 | 18.64 | -- |
| **MW-219** | 10/06/14 | 147 | -- | -- | <1.0 | 1.2 | 2.0 | 4.4 | <1.0 | -- | <10.0 | <10.0 | <0.020 | <1.0 | -- | 14.18 | 0.00 | -- | -- |
| 27.41 | 12/09/14 | 197 | -- | -- | 1.0 | <1.0 | 2.4 | 5.8 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 10.98 | 0.00 | 16.43 | -- |
| | 03/23/15 | <100 | -- | -- | 1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.91 | 0.00 | 17.50 | -- |
| | 06/22/15 | <100 | -- | -- | 1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.75 | 0.00 | 17.66 | -- |
| | 09/10/15 | <100 | -- | -- | <1.0 | <1.0 | 1.1 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.52 | 0.00 | 16.89 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.78 | 0.00 | 17.63 | -- |
| | 06/28/16 | Not Gauged or Sampled | | | | | | | | | | | | | | | | | -- |
| | 12/13/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.90 | 0.00 | 17.51 | -- |
| | 12/13/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | -- | -- | -- | 14.99 | 0.00 | 12.42 | -- |
| | 01/03/19 | Well could not be located-Construction area | | | | | | | | | | | | | | | | | |
| **SMW-3** | 03/08/95 | <50 | 400 | **2,500** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.25 | 0.00 | -- | -- |
| 29.03 | 06/06/95 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.23 | 0.00 | -- | -- |
| | 09/07/95 | <50 | 300 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.89 | 0.00 | -- | -- |
| | 12/08/95 | <50 | 300 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.36 | 0.00 | -- | -- |
| | 04/01/96 | **34,000** | **4,000** | **2,300** | **6,400** | 42 | **2,100** | **3,000** | -- | -- | -- | -- | | | -- | 10.07 | 0.00 | -- | -- |
| | 06/25/96 | <50 | 320 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.19 | 0.00 | -- | -- |
| | 09/27/96 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 11.12 | 0.00 | -- | -- |
| | 03/28/97 | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.19 | 0.00 | -- | -- |
| | 06/30/97[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.14 | 0.00 | -- | -- |
| | 09/08/97[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.85 | 0.00 | -- | -- |
| | 12/19/97[b] | <50 | 521 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 9.67 | 0.00 | -- | -- |
| | 03/16/98[b] | 50.1 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 9.28 | 0.00 | -- | -- |
| | 06/26/98[b] | <50 | 500 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 8.87 | 0.00 | -- | -- |
| | 09/23/98[b] | <50 | <250 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 9.88 | 0.00 | -- | -- |
| | 12/17/98[b] | <50 | 293 | **<750** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 9.22 | 0.00 | -- | -- |
| | 03/31/99[b] | <50 | 360 | **<750** | <0.5 | <0.5 | 0.53 | 4.97 | -- | -- | -- | -- | | | -- | 9.01 | 0.00 | -- | -- |
| | 06/30/99[b] | <50 | 639 | **<750** | <0.5 | 0.609 | <0.5 | 1.32 | -- | -- | -- | -- | | | -- | 9.55 | 0.00 | -- | -- |
| | 12/08/99[b] | <50 | <484 | **<1,450** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 8.75 | 0.00 | -- | -- |
| | 06/20/00[b] | <50 | <250 | **<750** | <0.5 | 0.585 | <0.5 | 1.86 | -- | -- | -- | -- | | | -- | 8.89 | 0.00 | -- | -- |
| | 12/19/00 | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/15/01[b] | <50 | 368 | **<866** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 7.23 | 0.00 | -- | -- |
| | 06/26/01 | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01[b] | <50 | 385 | **<571** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 9.19 | 0.00 | -- | -- |
| | 10/10/01 | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | <50 | **1,160** | <500 | <0.5 | 0.902 | <0.5 | 2.78 | -- | -- | -- | -- | | | -- | 8.89 | 0.00 | -- | -- |
| | 03/08/02 | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02 | <100 | <250 | <500 | 1.83 | <2 | <1.00 | <1.5 | -- | -- | -- | -- | | | -- | 10.32 | 0.00 | -- | -- |
| | 12/12/02 | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 10.99 | 0.00 | -- | -- |
| | 06/12/03 | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | <50 | <287 | **<575** | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 11.00 | 0.00 | -- | -- |
| | 01/14/04 | -- | -- | **--** | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/30/04 | <100 | <119 | <238 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 10.42 | 0.00 | -- | 2.10 |
| | 06/22/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/29/04 | 56 | <242 | <483 | <0.5 | <0.5 | <0.5 | <1.0 | -- | -- | -- | -- | | | -- | 11.67 | 0.00 | -- | 0.10 |
| | 12/29/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/17/05 | <100 | <248 | <495 | <1 | <1 | <1 | <2 | -- | -- | -- | -- | | | -- | 11.68 | 0.00 | -- | 1.20 |
| | 06/01/05 | <100 | <249 | <498 | <1 | <1 | <1 | <2 | <1 | -- | -- | -- | | | -- | 10.62 | 0.00 | -- | 1.30 |
| | 07/25/05 | <50 | <250 | <500 | <0.2 | <0.2 | <0.2 | <0.5 | <1 | <0.5 | -- | -- | | | -- | 11.19 | 0.00 | -- | 1.20 |
| 29.03 | 11/08/05 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | -- | -- | -- | | | -- | 11.77 | 0.00 | 17.26 | NM [o] |
| | 02/24/06 | <50 | <278 | **<556** | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <1 | <1 | -- | | | -- | 11.84 | 0.00 | 17.19 | -- |
| | 08/30/06 | <80 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | | | | |
| | 10/11/06 | <50 | <243 | <485 | <0.5 | <0.5 | <0.5 | <3 | <1 | <1 | <1 | -- | | | -- | 10.70 | 0.00 | 18.33 | 0.17 |
| | 12/13/06 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 12.14 | 0.00 | 16.89 | 1.05 |
| **SMW-3** | 03/08/07 | <50 | <250 | <500 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | -- | | | -- | 11.68 | 0.00 | 17.35 | 1.44 |
| contd. | 06/13/07 | Not Accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 09/12/07 | Not Accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 12/17/07 | Not Accessible | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 03/17/08 | Unable to locate | | | | | | | | | | | | | | -- | -- | -- | -- |
| | 06/02/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | <1 | <1 | | | <236 | 9.05 | 0.00 | 19.98 | -- |
| | 08/05/08 | <50 | <236 | <472 | <0.5 | <0.5 | <0.5 | <3 | <1 | <5 | **4.54** | <1 | | | <236 | 7.64 | 0.00 | 21.39 | -- |
| 27.40 | 11/04/08 | <50.0 | <238 | <476 | <0.500 | <0.500 | <0.500 | <3.00 | | <5.00 | **5.88** | <1.00 | | | <238 | 9.70 | 0.00 | 17.70 | -- |
| | 02/25/09 | <50.0 | <240 | <481 | <0.500 | <0.500 | <0.500 | <3.00 | -- | <5.00 | <1.00 | <1.00 | | | <240 | 9.90 | 0.00 | 17.50 | -- |
| | 05/17/09 | Not Accessible | | | | | | | | | | | | | | | | | -- |
| | 08/17/09 | <50 | <250 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | <5.0 | <5.0 | | | <250 | 10.10 | 0.00 | 17.30 | -- |
| | 11/17/09 | <50 | <240 | <490 | <0.50 | <0.50 | <0.50 | <2.0 | <1.0 | <5.0 | 1.2 | <1 | | | <240 | 9.53 | 0.00 | 17.87 | -- |
| | 02/22/10 | <50.0 | 107 | **605** | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.26 | <0.10 | | | <76.2 | 9.90 | 0.00 | 17.50 | -- |
| | 05/24/10 | <50.0 | 255 | **510** | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | .42 | <0.10 | | | 100 | 8.50 | 0.00 | 18.90 | -- |
| | 08/18/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | .39 | <0.10 | | | <77.7 | 9.29 | 0.00 | 18.11 | -- |
| | 11/16/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 10.11 | 0.00 | 17.29 | -- |
| | 03/01/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | <77.7 | 9.85 | 0.00 | 17.55 | -- |
| | 06/15/11 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 0.21 | <0.10 | | | -- | 8.55 | 0.00 | 18.85 | -- |
| | 08/30/11 | <50.0 | <86.0 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.13 | 0.14 | | | <86.0 | 9.63 | 0.00 | 17.77 | -- |
| | 12/06/11 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | 0.13 | 0.38 | | | <82.5 | 10.13 | 0.00 | 17.27 | -- |
| | 02/15/12 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.1 | <10.0 | <10.0 | | | <82.5 | 10.22 | 0.00 | 17.18 | -- |
| | 05/16/12 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.9 | <10.0 | <10.0 | | | <83.3 | 8.64 | 0.00 | 18.76 | -- |
| | 08/15/12 | <50.0 | <85.1 | <426 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <85.1 | 9.30 | 0.00 | 18.10 | -- |
| | 12/13/17 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | <10.0 | <10.0 | | | -- | 10.82 | 0.00 | 16.58 | -- |
| | 01/03/19 | Well could not be located | | | | | | | | | | | | | | | | | |
| **SMW-4** | 03/08/95 | 39,000 | 4,100 | 5,100 | 13,000 | <250 | 2,400 | 8,200 | -- | -- | -- | -- | | | -- | 8.14 | 0.00 | -- | -- |
| | 06/06/95 | 41,000 | 5,500 | <750 | 9,400 | 44 | 2,700 | 4,900 | -- | -- | -- | -- | | | -- | 8.90 | 0.00 | -- | -- |
| | 09/07/95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.99 | 0.00 | -- | -- |
| | 12/08/95 | 40,000 | 1,500 | 920 | 8,100 | 57.0 | 2,600 | 3,600 | -- | -- | -- | -- | | | -- | 7.56 | 0.00 | -- | -- |
| | 04/01/96 | <50 | <250 | <750 | <0.5 | <0.5 | <0.5 | <1 | -- | -- | -- | -- | | | -- | 8.13 | 0.00 | -- | -- |
| | 06/25/96 | 28,100 | 2,680 | 630 | 3,900 | 81.4 | 1,710 | 1,710 | -- | -- | -- | -- | | | -- | 8.20 | 0.00 | -- | -- |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| | 09/27/96 | 28,600 | 2,460 | <750 | 6,090 | <0.5 | 2,060 | 1,730 | -- | -- | -- | -- | | | -- | 8.62 | 0.00 | -- | -- |
| | 03/28/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.20 | 0.00 | -- | -- |
| | 06/30/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 8.06 | 0.00 | -- | -- |
| | 09/08/97 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.00 | 0.00 | -- | -- |
| | 12/19/97 | LPH Present | | | | | | | | | | | | | | 9.41 | 0.04 | -- | -- |
| | 03/16/98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.09 | 0.00 | -- | -- |
| | 06/26/98 | LPH Present | | | | | | | | | | | | | | 8.76 | Trace | -- | -- |
| | 09/23/98 | LPH Present | | | | | | | | | | | | | | 9.96 | 0.05 | -- | -- |
| | 12/17/98 | LPH Present | | | | | | | | | | | | | | 10.22 | Trace | -- | -- |
| | 03/31/99 | LPH Present | | | | | | | | | | | | | | 8.70 | Trace | -- | -- |
| | 06/30/99 | LPH Present | | | | | | | | | | | | | | 8.20 | Trace | -- | -- |
| | 12/08/99 | Inaccessible | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/20/00 | Inaccessible | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 12/19/00 | Inaccessible | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/15/01 | Inaccessible | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 06/26/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/07/01 | Inaccessible | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 10/10/01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/28/01 | Inaccessible | | | | | | | | | | | | | | NM | NM | -- | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 06/24/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/26/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 12/12/02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 03/13/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 9.55 | 0.00 | -- | -- |
| | 06/12/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 09/19/03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | 10.58 | 0.00 | -- | -- |
| | 01/14/04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | NM | NM | -- | -- |
| | 07/25/05 | 14,500 | 6,490 | 1,110 | 2,120 | <20 | 908 | <50 | <1 | 312 | -- | -- | | | -- | 9.04 | Sheen | -- | 1.10 |
| 28.33 | 11/02/05 | 17,200 | 3,210 | <472 | 2,440 | <50 | 1,390 | <300 | <100 | -- | -- | -- | | | -- | 10.10 | 0.00 | 18.23 | NM [o] |
| | 02/24/06 | 17,800 | 3,160[g] | <472 | 2,730 | 13.4 | 1,330 | <60 | <20 | 442 | **15.8** | -- | | | -- | 5.07 | 0.00 | 23.26 | -- |
| | 05/11/06 | 18,700 | 1,520 | <490 | 2,130 | <25 | 1,120 | <150 | <50 | 531 | **29.4** | -- | | | -- | 9.29 | 0.00 | 19.04 | 0.46 |
| | 08/31/06 | 8,190 | 651g | <495 | 1,800 | 11.9 | 1,000 | 1,350 | <10 | 366 | **20.0** | -- | | | -- | 10.56 | 0.00 | 17.77 | 1.15 |
| | 12/13/06 | 16,800 | 682 | <472 | 1,880 | <20 | 1,240 | 1,550 | <40 | 465 | **9.5** | -- | | | -- | 9.27 | 0.00 | 19.06 | 0.09 |
| | 03/08/07 | 16,500 | 1,010 | <490 | 2,000 | <20 | 1,480 | 1,820 | 40.0 | 991 | **7.42** | -- | | | -- | 9.19 | 0.00 | 19.14 | 0.27 |
| | 06/13/07 | 13,000 | 963 [g] | <495 | 2,070 | 14.4 [J] | 1,720 | 42.6 [J] | <1 | 1,160 | **7.74** | -- | | | -- | 9.21 | 0.00 | 19.12 | 0.75 |
| | 09/13/07 | 15,000 | 834 | <476 | 2,170 | 16.3 | 1,800 | 2,410 | <1 | 598 | **7.57** | -- | | | -- | 9.45 | 0.00 | 18.88 | 0.23 |
| | 12/19/07 | 12,400 | 904 | <472 | 1,400 | 4.8 | 640 | 13.70 | <1 | 310 | **8.66** | -- | | | -- | 8.51 | 0.00 | 19.82 | -- |
| | 03/17/08 | 1,630 | <236 | <472 | 78.1 | 1.23 | 1.34 | 8.17 | <1 | 5.71 | **3.82** | **3.82** | | | <1 | 8.92 | 0.00 | 19.41 | -- |
| | 06/03/08 | 14,600 | 753 | <472 | 1,330 | 6.02 | 866 | 15.40 | <1 | 292 | **10.40** | <1 | | | 3,840 | 8.98 | 0.00 | 19.35 | -- |
| | 08/06/08 | 10,300 | 959 | <472 | 1,210 | 5.29 | 782 | <3 | <1 | 454 | **9.96** | **7.91** | | | 3,280 | 9.47 | 0.00 | 18.86 | -- |
| | 11/03/08 | 15,800 | 1,400 | <472 | 1,290 | 6.95 | 1,620 | 24.40 | <1.00 | <500 | **12.30** | **8.88** | | | 5,450 | 9.41 | 0.00 | 18.92 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| **SMW-5** | 07/25/05 | 3,110 | 835[b] | <500 | 40.2 | 0.790 | 41.8 | 21.48 | <1 | 24.6 | -- | -- | | | -- | 10.40 | 0.00 | -- | 0.60 |
| 29.17 | 11/02/05 | 1,950[m] | 1,930[f,g] | <490 | 52.9 | 3.43 | 58.0 | 64.8 | <2 | -- | -- | -- | | | -- | 10.51 | 0.00 | 18.66 | NM [o] |
| | 02/22/06 | 3,530 | <248 | <495 | 176 | <2.5 | 31.8 | 18.5 | <5 | 50.0 | **4.21** | -- | | | -- | 10.42 | 0.00 | 18.75 | -- |
| | 05/11/06 | 3,140 | 1,110 | <500 | 140 | 2.95 | 53.6 | 31.1 | <5 | 49.2 | <1 | -- | | | -- | 10.59 | 0.00 | 18.58 | 0.63 |
| | 08/31/06 | 942 | 248p | <472 | 51.8 | 1.73 | 9.01 | 11.3 | <1 | 30.3 | 2.12 | -- | | | -- | 11.45 | 0.00 | 17.72 | 0.29 |
| | 12/13/06 | 3,780 | 318 | <472 | 177.0 | 6.62 | 93.9 | 53.4 | <2 | 60.8 | <1 | -- | | | -- | 10.42 | 0.00 | 18.75 | 0.07 |
| | 03/08/07 | 2,560 | <236 | <472 | 80.4 | 0.840 | 8.81 | 6.35 | <1 | 51.3 | 2.12 | -- | | | -- | 10.27 | 0.00 | 18.90 | 0.94 |
| | 06/13/07 | 2,850 [J] | 301 [g] | <485 | 61.2 | 0.880 | 8.21 | 5.43 | <1 | 17.2 | <1 | -- | | | -- | 10.15 | 0.00 | 19.02 | 0.72 |
| | 09/13/07 | 1,350 | 258 | <476 | 35.0 | 1.43 | 19.5 | <3 | <1 | 18.2 | <1 | -- | | | -- | 10.29 | 0.00 | 18.88 | 0.05 |
| | 12/18/07 | 3,610 | 264 | <472 | 150.0 | 8.10 | 140.0 | 41.20 | <1 | 66.0 | 1.83 | -- | | | -- | 8.45 | 0.00 | 20.72 | -- |
| | 03/17/08 | 3,450 | 288 | <472 | 1,110 | 93.9 | 1.03 | 20.4 | 4.28 | <1 | **15.7** | <1 | | | <1 | 9.75 | 0.00 | 19.42 | -- |
| | 06/03/08 | 1,580 | <236 | <472 | 24.4 | 0.89 | 12.9 | 5.15 | <1 | 9.06 | **2.72** | <1 | | | 682 | 10.11 | 0.00 | 19.06 | -- |
| | 08/05/08 | 2,050 | 259 | <472 | 18.2 | 1.28 | 17.1 | 4.78 | <1 | 6.2 | 1.54 | <1 | | | 941 | 10.70 | 0.00 | 18.47 | -- |
| | 11/03/08 | 2,890 | 280 | <476 | 6 | 1.03 | 21.5 | 5.59 | <1.00 | 8.59 | 1.14 | <1.00 | | | 1190 | 10 | 0.00 | 19.17 | -- |
| | 11/18/08 | Decommissioned | | | | | | | | | | | | | | | | | -- |
| | 11/21/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 9.16 | 0.00 | 18.24 | -- |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 10.10 | 0.00 | 17.30 | -- |
| | 07/29/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0099 | <1.0 | -- | 10.85 | 0.00 | 16.55 | -- |
| 27.32 | 12/09/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | **119** | <10.0 | <0.0098 | <1.0 | -- | 9.94 | 0.00 | 17.38 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.39 | 0.00 | 17.93 | -- |
| | 06/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.39 | 0.00 | 17.93 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.25 | 0.00 | 17.07 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 8.78 | 0.00 | 18.54 | -- |
| | 06/28/16 | Not Sampled | | | | | | | | | | | | | | 9.09 | 0.00 | 18.23 | -- |
| | 12/15/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.20 | 0.00 | 17.12 | -- |
| **MWR-1** | 11/17/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 9.75 | 0.00 | 20.16 | -- |
| 29.91 | 03/03/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | <77.7 | 10.23 | 0.00 | 19.68 | -- |
| | 06/15/11 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 1.5 | <0.10 | | | -- | 10.28 | 0.00 | 19.63 | -- |
| | 08/30/11 | <50.0 | <86.0 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.51 | <0.10 | | | -- | 10.97 | 0.00 | 18.94 | -- |
| | 12/06/11 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | 0.68 | 0.62 | | | <83.3 | 10.80 | 0.00 | 19.11 | -- |
| | 02/16/12 | <50.0 | <81.6 | <408 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <81.6 | 10.51 | 0.00 | 19.40 | -- |
| | 05/15/12 | <50.0 | <81.6 | <408 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 3.8 | <10.0 | <10.0 | | | <81.6 | 10.20 | 0.00 | 19.71 | -- |
| | 08/15/12 | <50.0 | <85.1 | <426 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <85.1 | 10.65 | 0.00 | 19.26 | -- |
| | 11/20/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 8.82 | 0.00 | 21.09 | -- |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 12.04 | 0.00 | 17.87 | -- |
| | 07/29/14 | Well was dry | | | | | | | | | | | | | | | | | |
| 29.86 | 12/08/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0099 | <1.0 | -- | 12.51 | 0.00 | 17.35 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.13 | 0.00 | 18.73 | -- |
| | 06/22/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.43 | 0.00 | 17.43 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.01 | 0.00 | 17.85 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.58 | 0.00 | 19.28 | -- |
| | 06/28/16 | Not Sampled | | | | | | | | | | | | | | 12.21 | 0.00 | 17.65 | -- |
| | 12/14/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.35 | 0.00 | 19.51 | -- |
| | 06/29/17 | Not accessible | | | | | | | | | | | | | | | | | -- |
| | 06/13/18 | Not accessible | | | | | | | | | | | | | | | | | |
| **MWR-2** | 11/17/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **11.7** | <10.0 | | | <77.7 | 8.08 | 0.00 | 20.17 | -- |
| 28.25 | 03/01/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | **16.0** | -- | | | <77.7 | 8.61 | 0.00 | 19.64 | -- |
| | 06/14/11 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | **3.1** | <0.10 | | | -- | 8.67 | 0.00 | 19.58 | -- |
| | 08/29/11 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.35 | 0 | | | <87.0 | 9.32 | 0.00 | 18.93 | -- |
| | 12/06/11 | <50.0 | <86.0 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | 1.3 | <0.10 | | | <86.0 | 9.09 | 0.00 | 19.16 | -- |
| | 02/16/12 | <50.0 | <81.6 | <408 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.0 | <10.0 | <10.0 | | | <81.6 | 8.97 | 0.00 | 19.28 | -- |
| | 05/15/12 | <50.0 | <75.8 | <379 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 3.8 | <10.0 | <10.0 | | | <75.8 | 8.62 | 0.00 | 19.63 | -- |
| | 08/15/12 | <50.0 | <84.2 | <421 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <84.2 | 9.05 | 0.00 | 19.20 | -- |
| | 11/20/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 7.32 | 0.00 | 20.93 | -- |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 10.33 | 0.00 | 17.92 | -- |
| | 07/29/14 | Well contained 0.65 foot of water in well cap; well was not sampled. | | | | | | | | | | | | | | | | | |

**Table 1**
**Summary of Historical Groundwater Gauging and Laboratory Analytical Data**
Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue North
Seattle, Washington

| Sample I.D. TOC a | Sample Date | TPH-Gasoline (µg/L) | TPH- Diesel (µg/L) | TPH-Oil (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphtha-lene (µg/L) | Total Lead (µg/L) | Dissolved Lead (µg/L) | EDB (µg/L) | EDC (µg/L) | Kerosone (µg/L) | DTW (feet) | SPH (feet) | GWE (feet) | DO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MTCA Method A Cleanup Level for Groundwater** | | **1000/800[k]** | **500** | **500** | **5** | **1,000** | **700** | **1,000** | **20** | **160** | **15** | **15** | **0.01** | **5** | **500** | | | | |
| **MTCA Method B Cleanup Level for Surface Water** | | **--** | **--** | **--** | **22.7** | **18,900** | **6,820** | **--** | **--** | **4,710** | **2.5** | **2.5** | **--** | **--** | **--** | | | | |
| 28.16 | 12/08/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0099 | <1.0 | -- | 12.51 | 0.00 | 15.65 | -- |
| | 03/23/15 | Could Not Locate Well | | | | | | | | | | | | | | | | | |
| | 06/22/15 | Could Not Locate Well | | | | | | | | | | | | | | | | | |
| | 09/10/15 | Could Not Locate Well | | | | | | | | | | | | | | | | | |
| | 12/07/15 | Could Not Locate Well | | | | | | | | | | | | | | | | | |
| | 06/28/16 | Not Gauged or Sampled | | | | | | | | | | | | | | | | | |
| | 12/14/16 | Could Not Locate Well | | | | | | | | | | | | | | | | | |
| **MWR-3** | 11/17/10 | <50.0 | 83.6 | <385 | <1.0 | 1.4 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | **1,140** | 9.82 | 0.00 | 19.94 | -- |
| 29.76 | 03/01/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | <77.7 | 10.17 | 0.00 | 19.59 | -- |
| | 06/15/11 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 0.74 | <0.10 | | | -- | 10.18 | 0.00 | 19.58 | -- |
| | 08/30/11 | <50.0 | <88.9 | <444 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.38 | <0.10 | | | <88.9 | 10.87 | 0.00 | 18.89 | -- |
| | 12/06/11 | <50.0 | <86.0 | <430 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <0.10 | <0.10 | | | <86.0 | 10.63 | 0.00 | 19.13 | -- |
| | 02/16/12 | <50.0 | <81.6 | <408 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.0 | <10.0 | <10.0 | | | <81.6 | 10.51 | 0.00 | 19.25 | -- |
| | 05/15/12 | <50.0 | <81.6 | <408 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <81.6 | 10.22 | 0.00 | 19.54 | -- |
| | 08/15/12 | <50.0 | <87.0 | <435 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <87.0 | 10.56 | 0.00 | 19.20 | -- |
| | 11/20/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 9.86 | 0.00 | 19.90 | |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 11.52 | 0.00 | 18.24 | -- |
| | 07/29/14 | Well was dry | | | | | | | | | | | | | | | | | |
| 29.67 | 12/08/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 12.52 | 0.00 | 17.15 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.98 | 0.00 | 18.69 | -- |
| | 06/22/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.37 | 0.00 | 17.30 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.99 | 0.00 | 17.68 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.34 | 0.00 | 19.33 | -- |
| | 06/28/16 | Not Gauged or Sampled | | | | | | | | | | | | | | | | | |
| | 12/14/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.35 | 0.00 | 19.32 | -- |
| **MWR-4** | 11/17/10 | 141 | <76.9 | <385 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | 140 | 8.98 | 0.00 | 19.90 | -- |
| 28.88 | 03/01/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | 132 | 9.44 | 0.00 | 19.44 | -- |
| | 06/14/11 | <50.0 | <85.1 | <426 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 0.63 | <0.10 | | | -- | 9.32 | 0.00 | 19.56 | -- |
| | 08/29/11 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.18 | 0 | | | <82.5 | 10.02 | 0.00 | 18.86 | -- |
| | 12/06/11 | <50.0 | <83.3 | <417 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | <0.10 | 0.29 | | | <83.3 | 9.78 | 0.00 | 19.10 | -- |
| | 02/16/12 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.0 | <10.0 | <10.0 | | | <82.5 | 10.72 | 0.00 | 18.16 | -- |
| | 05/15/12 | <50.0 | <81.6 | <408 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 3.8 | <10.0 | <10.0 | | | <81.6 | 9.32 | 0.00 | 19.56 | -- |
| | 08/15/12 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <82.5 | 9.82 | 0.00 | 19.06 | -- |
| | 11/20/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 9.31 | 0.00 | 19.57 | -- |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 11.02 | 0.00 | 17.86 | -- |
| | 07/29/14 | Well was dry | | | | | | | | | | | | | | | | | |
| 28.80 | 12/08/14 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 12.06 | 0.00 | 16.74 | -- |
| | 03/23/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.53 | 0.00 | 18.27 | -- |
| | 06/22/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.55 | 0.00 | 17.25 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.30 | 0.00 | 17.50 | -- |
| | 12/07/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.07 | 0.00 | 18.73 | -- |
| | 06/28/16 | Not Gauged or Sampled | | | | | | | | | | | | | | | | | |
| | 12/14/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 9.50 | 0.00 | 19.30 | -- |
| **MWR-5** | 11/17/10 | **15,900** | 423 | <388 | **199** | 371 | 592 | **3,710** | -- | 157 | <10.0 | <10.0 | | | **5,080** | 7.91 | 0.00 | 19.36 | -- |
| 27.27 | 02/28/11 | **21,800** | 368 | <388 | **195** | 444 | 642 | **3,430** | -- | 143 | <10.0 | -- | | | **4,650** | 8.60 | 0.00 | 18.67 | -- |
| | 06/14/11 | **22,700** | 323 | <400 | **192** | 383 | **719** | **4,340** | -- | -- | **4.1** | 0 | | | **--** | 7.82 | 0.00 | 19.45 | -- |
| | 08/29/11 | **35,400** | 478 | <408 | **244** | 271 | **861** | **4,500** | -- | **338** | 0.95 | 0.62 | | | **7,060** | 8.50 | 0.00 | 18.77 | -- |
| | 12/05/11 | **30,500** | 235 | <412 | **211** | 450 | **1,140** | **5,960** | -- | **193** | 1.3 | 0.52 | | | **9,580** | 7.75 | 0.00 | 19.52 | -- |
| | 02/16/12 | **9,490** | 160 | <396 | **68.7** | 9.1 | 218 | **1,090** | -- | 88.2 | <10.0 | <10.0 | | | **2,330** | 8.93 | 0.00 | 18.34 | -- |
| | 05/15/12 | **27,900** | 298 | <404 | **181** | 160 | **813** | **4,830** | -- | **226** | <10.0 | <10.0 | | | **4,650** | 8.01 | 0.00 | 19.26 | -- |
| | 08/14/12 | **7,720** | 329 | <440 | **60.5** | 3.80 | 244 | **1,280** | -- | 81.3 | <10.0 | <10.0 | | | **2,560** | 8.62 | 0.00 | 18.65 | -- |
| | 11/20/12 | **35,500** | **15,500** | <100 | **306** | 471 | **1,520** | **10,700** | -- | **342** | **5.8** | <3.0 | | | **20,500** | 5.11 | 0.00 | 22.16 | -- |
| | 11/06/13 | **3,820** | <400 | <400 | **23.0** | <1.0 | 150 | 286 | <1.0 | -- | <10.0 | <10.0 | | | **1,100** | 9.45 | 0.00 | 17.82 | -- |
| | 07/29/14 | Well dewatered. | | | | | | | | | | | | | | | | | |
| 27.12 | 12/08/14 | **20,400** | -- | -- | <1.0 | 2.1 | 430 | **1,400** | <1.0 | -- | <10.0 | <10.0 | <0.010 | <1.0 | -- | 10.54 | 0.00 | 16.58 | -- |
| | 03/23/15 | **11,900** | -- | -- | **31.0** | 1.4 | 459 | **1,030** | <1.0 | -- | <10.0 | <10.0 | <0.010 | <1.0 | -- | 8.98 | 0.00 | 18.14 | -- |
| | 06/22/15 | **14,700** | -- | -- | **22.9** | <10.0 | 455 | 843 | -- | -- | -- | -- | -- | -- | -- | 9.98 | 0.00 | 17.14 | -- |
| | 09/10/15 | **10,700** | -- | -- | **35.0** | 1.1 | 223 | 644 | -- | -- | -- | -- | -- | -- | -- | 9.51 | 0.00 | 17.61 | -- |
| | 12/07/15 | Well Submerged Under Surface Water | | | | | | | | | | | | | | | | | |
| | 06/28/16 | **10,800** | -- | -- | **14.9** | <1.2 | 232 | 519 | -- | -- | -- | -- | -- | -- | -- | 9.54 | 0.00 | 17.58 | -- |
| | 12/14/16 | **51,900** | -- | -- | **45.6** | 7.4 | **1,920** | **6,350** | -- | -- | -- | -- | -- | -- | -- | 8.45 | 0.00 | 18.67 | -- |
| | 06/29/17 | Well dewatered. | | | | | | | | | | | | | | | | | |
| | 12/13/17 | 713 | -- | -- | <1.0 | <1.0 | 2.4 | 20.3 | -- | -- | <10.0 | <10.0 | -- | -- | -- | 13.94 | 0.00 | 13.18 | -- |
| | 06/13/18 | **11,000** | -- | -- | **5.9** | **1.4** | **72.8** | **511** | -- | -- | 2.4J | <2.0 | **--** | 8.66 | -- | 8.66 | 0.00 | 18.46 | -- |
| | 01/03/19 | **43,000** | -- | -- | **20.9** | 7.9 | **1,180** | **4,282** | -- | -- | <2.0 | <2.0 | | 7.72 | -- | 7.72 | 0.00 | 19.40 | |
| **MWR-6** | 11/16/10 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <77.7 | 10.10 | 0.00 | 19.15 | -- |
| 29.25 | 02/28/11 | <50.0 | <77.7 | <388 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | -- | | | <77.7 | 10.89 | 0.00 | 18.36 | -- |
| | 06/14/11 | <50.0 | <80.8 | <404 | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | 1.3 | <0.10 | | | -- | 10.11 | 0.00 | 19.14 | -- |
| | 08/29/11 | <50.0 | <87.0 | <435 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | 0.3 | <0.10 | | | -- | 10.75 | 0.00 | 18.50 | -- |
| | 12/05/11 | <50.0 | <82.5 | <412 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <10.0 | 0.54 | 0.11 | | | <82.5 | 9.48 | 0.00 | 19.77 | -- |
| | 02/16/12 | <50.0 | <75.5 | <377 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 2.8 | <10.0 | <10.0 | | | <75.5 | 11.90 | 0.00 | 17.35 | -- |
| | 05/15/12 | <50.0 | <81.6 | <408 | <1.0 | <1.0 | <1.0 | <3.0 | -- | 3.8 | <10.0 | <10.0 | | | <81.6 | 10.26 | 0.00 | 18.99 | -- |
| | 08/14/12 | <50.0 | <85.1 | <426 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <1.0 | <10.0 | <10.0 | | | <85.1 | 10.45 | 0.00 | 18.80 | -- |
| | 11/20/12 | <100 | <100 | <100 | <1.0 | <1.0 | <1.0 | <3.0 | -- | <4.0 | <3.0 | <3.0 | | | <100 | 9.59 | 0.00 | 19.66 | |
| | 11/06/13 | <400 | <400 | <400 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | | | <400 | 11.77 | 0.00 | 17.48 | -- |
| | 07/29/14 | Well dewatered. | | | | | | | | | | | | | | | | | |
| 29.12 | 12/08/14 | <100 | -- | -- | **5.1** | <1.0 | <1.0 | <3.0 | <1.0 | -- | <10.0 | <10.0 | <0.0098 | <1.0 | -- | 12.51 | 0.00 | 16.61 | -- |
| | 03/23/15 | <100 | -- | -- | 1.7 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.66 | 0.00 | 17.46 | -- |
| | 06/22/15 | <100 | -- | -- | 1.6 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 12.38 | 0.00 | 16.74 | -- |
| | 09/11/15 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 11.98 | 0.00 | 17.14 | -- |
| | 12/07/15 | <100 | -- | -- | 1.9 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.89 | 0.00 | 18.23 | -- |
| | 06/28/16 | <250 | -- | -- | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- | -- | -- | -- | -- | -- | 11.75 | 0.00 | 17.37 | -- |
| | 12/14/16 | <100 | -- | -- | <1.0 | <1.0 | <1.0 | <3.0 | -- | -- | -- | -- | -- | -- | -- | 10.85 | 0.00 | 18.27 | -- |
| | 06/29/17 | Well dewatered. | | | | | | | | | | | | | | | | | -- |
| | 06/13/18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10.94 | -- | 18.18 | -- |

# Table 1
## Summary of Historical Groundwater Gauging and Laboratory Analytical Data

Phillips 66 Site No. 255353 (AOC 1396)
600 Westlake Avenue N.
Seattle, Washington

**NOTES:**

µg/L = micrograms per liter
mg/L = milligrams per liter
TOC = Relative top of casing elevation
DTW = Depth to water
SPH = Separate-phase hydrocarbon thickness
GWE = Groundwater table elevation relative to DTW data; corrected for SPH where applicable using a specific gravity of 0.80
<n = Below the detection limit
"--" = Not analyzed, sampled, or reported
NM = Not Measured
TPH as Gasoline - Analysis by Northwest Method NWTPH-Gx
TPH as Diesel and Oil - Analysis by Northwest Method NWTPH-Dx
BTEX Compounds - Analysis by EPA Method 8020A, 8021B or 8260B
Total Lead Analysis via EPA Method 6020.
Values in **BOLD** are detectable concentrations exceeding the MTCA Method A groundwater cleanup level and/or the MTCA Method B surface water cleanup level

[a] Top of casing elevations shown prior to November 2005 based on information provided by a previous consultant. All TOC elevations were re-surveyed between November 1 and November 15, 2005 relative to N.A.V.D. 1988 using a City of Seattle benchmark by Delta Environmental Consultants. All wells were again surveyed on December 8, 2015 by Cardno WRG.

[b] Well was not purged prior to sample collection.

[c] TPH-Diesel and TPH-Oil did not resemble chromatogram used for quantitation.

[d] Well casing was trimmed down during monument replacement in December 2004. New TOC elevation surveyed on January 27, 2005.

[e] Quality control failed due to laboratory error. Quantitative analytical results not reported.

[f] Contaminant does not appear to be "typical" product.

[g] Chromatogram suggests that this may be overlap from the gasoline range.

[h] Chromatogram suggests that this may be overlap from the motor oil range.

[H] Anlaysis was performed outside of the method specified holding time

[j] Surrogate recovery outside advisory QC limits due to matrix interference.

[k] MTCA Method A Cleanup Level for TPH-Gasoline is 1,000 ug/L if benzene is not detectable in the groundwater sample. Otherwise, the action level is 800 ug/L.

[l] Samples analyzed using Northwest Method NWTPH-Dx without acid/silica gel cleanup.

[m] Surogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present.

[n] Detected hydrocarbons due mainly to cleanup artifact. There is no diesel present.

[o] DO meter was unavailable.

[p] The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

[q] Analyte had a high bias in the associated calibration verification standard.

[r] Laboratory Control Sample and/or Sample Duplicate recovery was above the laboratory control limits. Analyte not detected, data not impacted.

[s] Dilluted due to matrix effect.

[t] The total hydrocarbon result in this sample is primarily due to an individual compound eluting in the volatile hydrocarbon range.

[u] Due to laboratory error, the samples were not analyzed for EPA 8260B compounds.

[v] Possible field error.

[w] DTW not recorded prior to sampling. Approximate value based on last quarter's initial DTW and when sampling began

[x] The benzene and ethyl benzene concentrations were outside the calibration range of the instrument. A new concentration was measured during a second run, but this run was outside of the holding time for the sample. The laboratory still considers this value to be more accurate than the original estimated value listed in the lab report.

[Y] The Chromatogram response resembles a typical fuel pattern

[Z] Well casings for MW-45 and MW-54 were compromised and repaired during installation of remediation conveyance piping. Wells were re-surveyed in July 2014. 2014.

[aa] Sample collected prior to High Intensity Targeted Extraction Event on June 23, 2015.

[bb] Sample collected immediately after High Intensity Targeted Extraction Event on June 23, 2015.

[cc] Sample collected prior to High Intensity Targeted Extraction Event on September 11, 2015.

[dd] Sample collected immediately after High Intensity Targeted Extraction Event on September 11, 2015.

[ee] Sample collected prior to High Intensity Targeted Extraction Event on September 12, 2015.

[ff] Sample collected immediately after High Intensity Targeted Extraction Event on September 12 , 2015.

[gg] Sample collected prior to High Intensity Targeted Extraction Event on September 13, 2015.

[hh] Sample collected immediately after High Intensity Targeted Extraction Event on September 13 , 2015.

"--[u]" = Due to laboratory error, the samples were not analyzed for EPA 8260B compounds.

# P66 Westlake
## WELL STATUS INVENTORY

| OWNERSHIP | Well ID | Alternate ID | Date Installed | Location Area | Total Depth | Screened Interval | Confirmed Abandonment Date (from log or other Docs) | EXCAVATION AREA DEPTH | Status | Abandonment Method | Abandonment Overseen By: | Have Boring Log? (Y/N) | Have Abandonment Log? (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PROPERLY ABANDONED / ABANDONMENT LOG AVAILABLE** | | | | | | | | | | | | | |
| P66 | MW-19 | NA | ??? | Mercer Corridor | ??? | ??? | 1/24-28/11 | NA | Abandoned | UNKNOWN | City | N | Y |
| P66 | MW-37 | NA | 10/24/1991 | Mercer Corridor | 25 | 5-25 | 1/24-28/12 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-40 | NA | 10/25/1991 | Mercer Corridor | 22.5 | 7.5-22.5 | 1/24-28/13 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-71 | NA | 10/12/2005 | Mercer Corridor | 20 | 5-20 | 1/24-28/14 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-72 | NA | 10/12/2005 | Mercer Corridor | 20 | 5-20 | 1/24-28/15 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-73 | NA | 10/12/2005 | Mercer Corridor | 20 | 5-20 | 1/24-28/16 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-200 | NA | 10/20/2005 | Mercer Corridor | 20 | 5-20 | 1/24-28/17 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-201 | NA | 10/20/2005 | Mercer Corridor | 15.5 | 5.5-15.5 | 1/24-28/18 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-202 | NA | 10/20/2005 | Mercer Corridor | 20 | 5-20 | 1/24-28/19 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-206 | NA | 10/24/2005 | Mercer Corridor | 20 | 5-20 | 1/24-28/20 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-208 | NA | 10/25/2005 | Mercer Corridor | 20 | 5-20 | 1/24-28/21 | NA | Abandoned | UNKNOWN | City | Y | Y |
| P66 | MW-44 | NA | 10/29/1991 | Westlake Ave | 20 | 5-20 | 1/24-28/11 | NA | Abandoned | Bentonite Backfill/Concrete Cap | City | Y | Y |
| P66 | MW-86 | NA | 10/17/2005 | Valley St | 20 | 5-20 | 1/24-28/12 | NA | Abandoned | Unknown | City | Y | Y |
| P66 | MW-87 | NA | 10/17/2005 | Valley St | 20 | 5-20 | 1/24-28/13 | NA | Abandoned | Unknown | City | Y | Y |
| P66 | MW-36 | NA | 10/23/1991 | Terry Ave | 20 | 4-20 | 6-Jun | NA | Abandoned | Bentonite Backfill/Concrete Cap | City | Y | Y* |
| P66 | MW-47 | NA | 10/30/1991 | Terry Ave | 20 | 5-20 | ??? | NA | Abandoned | Bentonite Backfill/Concrete Cap | City | Y | Y* |
| City of Seattle | MW-101 | NA | ??? | Terry Ave | 13 | 8-13 | ??? | 6/12-13/2006 | Abandoned | Bentonite Backfill/Concrete Cap | City | Y | Y* |
| P66 | MW-203 | NA | 10/21/2005 | Valley | 20 | 5-20 | 1/24-28/12 | NA | Abandoned | Unknown | SDOT | Y | Y |
| P66 | DAS-8 | NA | 6/9/2005 | SW 1/4 of SW 1/4 of site | 20 | 18-20 | 11/18-19/2008 | 26.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | STANTEC | Y | Y |
| P66 | DAS-9 | NA | 6/9/2005 | NW 1/4 of SW 1/4 of site | 20 | 18-20 | 11/18-19/2008 | 27.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | STANTEC | Y | Y |
| P66 | DAS-10 | NA | 6/10/2005 | NW 1/4 of SW 1/4 of site | 20 | 18-20 | 11/18-19/2008 | 26.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | STANTEC | Y | Y |
| P66 | DAS-12 | NA | 6/13/2005 | SW 1/4 of SW 1/4 of site | 20 | 18-20 | 11/18-19/2008 | 26.5 | ABANDONED | PER CODE ACCORDING TO REF RPT | STANTEC | Y | Y |
| P66 | MW-60 | NA | 6/14/2005 | Center-north of S 1/2 of site | 20 | 5-20 | 11/18-19/2008 | 25.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-90 | NA | 10/18/2005 | Center of NE 1/4 of site | 18 | 3-18 | 11/18-19/2008 | 24.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-91 | NA | 10/18/2005 | SW 1/4 of NE 1/4 of site | 18 | 3-18 | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-92 | NA | 10/18/2005 | NW 1/4 of NW 1/4 of site | 20 | 5-20 | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-93 | NA | 10/18/2005 | Center N end of site | 18 | 3-18 | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-94 | NA | 10/18/2005 | NW 1/4 of NE 1/4 of site | 18 | 3-18 | 11/18-19/2008 | 24.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| City of Seattle | SMW-5 | MW-5 | 1/31/1991 | SW 1/4 OF NW 1/4 OF SITE | 17 | 7-17 | 11/18-19/2008 | 24.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| City of Seattle | SMW-4 | MW-4 | 1/29/1991 | NW CORNER OF SITE | 15 | 5-15 | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| City of Seattle | MW-8 | NA | ??? | Westlake Ave | 16 | 14-Sep | 6/12-13/2006 | 15.0 | Abandoned | Bentonite Backfill/Concrete Cap | City | Y | Y* |
| P66 | MW-42 | NA | 10/28/1991 | Westlake Ave | 27 | 5-27 | 6/12-13/2006 | 15.0 | Abandoned | Bentonite Backfill/Concrete Cap | DELTA | Y | Y* |
| P66 | MW-70 | NA | 10/11/2005 | S end intersection Mercer/Westlake | 20 | 5-20 | 6/12-13/2006 | | Abandoned | Bentonite Backfill/Concrete Cap | DELTA | Y | Y* |
| P66 | MW-84 | NA | 10/17/2005 | Westlake Ave | 20 | 5-20 | 6/12-13/2007 | 15.0 | Abandoned | Bentonite Backfill/Concrete Cap | DELTA | Y | Y* |
| P66 | MW-98 | NA | 10/19/2005 | Westlake Ave | 20 | 5-20 | 6/12-13/2008 | 15.0 | Abandoned | Bentonite Backfill/Concrete Cap | DELTA | Y | Y* |
| P66 | MW-99 | NA | 10/20/2005 | Westlake Ave | 20 | 5-20 | 6/12-13/2009 | 15.0 | Abandoned | Bentonite Backfill/Concrete Cap | DELTA | Y | Y* |
| P66 | MW-205 | NA | 10/24/2005 | Westlake Ave (on site boundary N end site) | 20 | 5-20 | 6/12-13/2009 | -- | Abandoned | Bentonite Backfill/Concrete Cap | DELTA | Y | Y* |
| P66 | MW-75 | NA | 10/13/2005 | Valley | 20 | 5-20 | 6/12-13/2006 | -- | Abandoned | Unknown | DELTA | Y | Y* |
| P66 | MW-77 | NA | 10/13/2005 | Valley | 20 | 5-20 | 6/12-13/2007 | -- | Abandoned | Unknown | DELTA | Y | Y* |
| P66 | MW-78 | NA | 10/13/2005 | ??? | 20 | 5-20 | NA | -- | Abandoned | Unknown | DELTA | Y | Y* |
| P66 | MW-79 | NA | 10/14/2005 | NW of Valley/Terry | 20 | 5-20 | NA | -- | Abandoned | Unknown | DELTA | Y | Y* |
| P66 | MW-32A | NA | 10/21/1991 | NW 1/4 of SW 1/4 of site | 25 | 8.5-25 | NA | 24.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-49 | NA | 1/27/1992 | Center of N 1/2 of site | 26 | 2-26 | NA | 22.0 | ABANDONED | Bentonite Backfill/Concrete Cap | UNKNOWN | Y | Y |
| P66 | DAS-6 | NA | 6/7/2005 | Center-north end of S 1/2 of site | 20 | 18-20 | 11/18-19/2008 | 15.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | STANTEC | Y | Y |
| P66 | DAS-7 | NA | 6/8/2005 | SW 1/4 of SE 1/4 of site | 20 | 18-20 | 11/18-19/2008 | 15.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | STANTEC | Y | Y |
| P66 | VE-6 | NA | 6/8/2005 | NE 1/4 of SE 1/4 | 13 | 8-13 | 11/18-19/2008 | | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |

# P66 Westlake
## WELL STATUS INVENTORY

| OWNERSHIP | Well ID | Alternate ID | Date Installed | Location Area | Total Depth | Screened Interval | Confirmed Abandonment Date (from log or other Docs) | EXCAVATION AREA DEPTH | Status | Abandonment Method | Abandonment Overseen By: | Have Boring Log? (Y/N) | Have Abandonment Log? (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P66 | MW-56 | NA | 6/9/2005 | SW 1/4 of SE 1/4 of site | 20 | 5-20 | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-57 | NA | 6/10/2005 | NW 1/4 of SW 1/4 of site | 20 | 5-20 | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-58 | NA | 6/13/2005 | SW 1/4 of SW 1/4 of site | 20 | 5-20 | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-59 | NA | 6/14/2005 | NW 1/4 of SW 1/4 of site | 20 | 5-20 | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-82 | NA | 10/14/2005 | NE 1/4 of NE 1/4 of site | 18 | 3-18 | 11/18-19/2008 | -- | ABANDONED | PER CODE ACCORDING TO REF RPT | UNKNOWN | Y | Y |
| P66 | MW-89 | NA | 10/18/2005 | SW 1/4 of NE 1/4 of site | 18 | 3-18 | 11/18-19/2008 | 15.0 | ABANDONED BASED ON 2010 STANTEC FIG / IN PHS II EXC | BEntonite Backfill/Concrete Cap | STANTEC | Y | Y |
| P66 | MW-53 | NA | | Center of south end of site | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| UNKNOWN | MW-806 | NA | ??? | NE CORNER OF SITE | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| City of Seattle | MW-X | MW-1S | ??? | NW CORNER OF SITE | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | DAS-1 | NA | ??? | S END SITE | ??? | ??? | 11/18-19/2008 | WITHIN GRAV WALL | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | DAS-2 | NA | ??? | S END SITE | ??? | ??? | 11/18-19/2008 | WITHIN GRAV WALL | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | DAS-3 | NA | ??? | SW SITE CORNER | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | DAS-4 | NA | ??? | CENTER OF S 1/2 SITE | ??? | ??? | 11/18-19/2008 | 26.5 | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | DAS-5 | NA | ??? | NW 1/4 OF SW 1/4 OF SITE | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | DAS-11 | NA | ??? | NW 1/4 OF SW 1/4 OF SITE | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | MW-3A | NA | ??? | NE 1/4 OF SW 1/4 SITE | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | MW-50 | NA | ??? | NEAR CENTER OF S 1/2 SITE | ??? | ??? | 11/18-19/2008 | NA | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | MW-52 | NA | ??? | NW 1/4 OF SW 1/4 OF SITE | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | N | Y |
| City of Seattle | MW-102 | NA | ??? | NE 1/4 OF NE 1/4 OF SITE | ??? | ??? | 11/18-19/2008 | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | N | Y |
| City of Seattle | SMW-2S | NA | ??? | NW 1/4 OF NW 1/4 OF SITE | ??? | ??? | 11/18-19/2008 | 19.0 | ABANDONED | Bentonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | VE-7 | NA | ??? | SW 1/4 OF SE 1/4 OF SITE | 18 | 3-18 | 11/18-19/2008 | 15.0 | ABANDONED | BEntonite Backfill/Concrete Cap | UNKNOWN | N | Y |
| UNKNOWN | MP-1 | NA | ??? | N end of S 1/2 of site | ??? | ??? | 11/18-19/2008 | ??? | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| UNKNOWN | MP-2 | NA | ??? | N end of S 1/2 of site | ??? | ??? | 11/18-19/2008 | ??? | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| UNKNOWN | MP-3 | NA | ??? | N end of S 1/2 of site | ??? | ??? | 11/18-19/2008 | ??? | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| UNKNOWN | MP-4 | NA | ??? | N end of S 1/2 of site | ??? | ??? | 11/18-19/2008 | ??? | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| UNKNOWN | MP-5 | NA | ??? | N end of S 1/2 of site | ??? | ??? | 11/18-19/2008 | ??? | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| UNKNOWN | MP-6 | NA | ??? | N end of S 1/2 of site | ??? | ??? | 11/18-19/2008 | ??? | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| UNKNOWN | MP-7 | NA | ??? | N end of S 1/2 of site | ??? | ??? | 11/18-19/2008 | ??? | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| UNKNOWN | MP-8 | NA | ??? | N end of S 1/2 of site | ??? | ??? | 11/18-19/2008 | ??? | ABANDONED | BEntonite Backfill/Concrete Cap | STANTEC | N | Y |
| P66 | MW-204 | NA | 10/21/2005 | Valley St | 20 | 5-20 | 6/12-13/2006 | NA | ABANDONED | Bentonite Backfill/Concrete Cap | City | Y | Y* |
| P66 | MW-41 | NA | 10/28/1991 | In Westlake, S of Mercer | 20 | 5-20 | 1/24-28/2011 | NA | ABANDONED | PER 2010 STANTEC FIGURE | City | Y | Y |
| **EXCAVATED COMPLETELY** | | | | | | | | | | | | | |
| P66 | MW-4 | RW-4 | 1/29/1991 | Center of S end of site | 15 | 5-15 | NA | 15.0 | ABANDONED | UNKNOWN | UNKNOWN | Y | N |
| P66 | VE-7 | NA | 6/13/2005 | SW 1/4 of SE 1/4 of site | 15 | 5-15 | NA | 15.0 | ABANDONED | ASSUME EXC | UNKNOWN | Y | N |

# P66 Westlake
## WELL STATUS INVENTORY

| OWNERSHIP | Well ID | Alternate ID | Date Installed | Location Area | Total Depth | Screened Interval | Confirmed Abandonment Date (from log or other Docs) | EXCAVATION AREA DEPTH | Status | Abandonment Method | Abandonment Overseen By: | Have Boring Log? (Y/N) | Have Abandonment Log? (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P66 | MW-83 | NA | 10/14/2005 | SW 1/4 of NW 1/4 of site | 18 | 3-18 | NA | 24.0 | ABANDONED | ASSUME EXC | UNKNOWN | Y | N |
| P66 | EFR-3 | NA | 12/5/2006 | Terry (NE site corner) | 15 | 13-15 | NA | 15.0 | ABANDONED | ASSUME EXC | | Y | |
| P66 | MW-33 | NA | 6/13/1905 | NE 1/4 of SW 1/4 or site (per 2010 Stantec Fig) | 25 | 5-25 | NA | 26.5 | IN PHS II EXC | ASSUME EXC | UNKNOWN | Y | N |
| **ASSUMED ABANDONED / NO ABANDONEMENT LOG** | | | | | | | | | | | | | |
| P66 | MW-2 | NA | 1980 (PER GEOENGINEERS FIG) | N END SW 1/4 OF SITE | ??? | ??? | UNKNOWN | 26.0 | ABANDONED | ASSUME EXC | UNKNOWN | Y | N |
| P66 | MW-18 | NA | ??? | Mercer Corridor | ??? | ??? | NA | -- | Assumed Abandoned (See Notes) | UNKNOWN | City | N | N |
| P66 | MW-24 | NA | ??? | Mercer Corridor | ??? | ??? | Prior to 2/2006 per 2006 Delta Figures | -- | ABANDONED | UNKNOWN | City | N | N |
| P66 | MW-13 | NA | ??? | Westlake Ave | ??? | ??? | NA | -- | ABANDONED | UNKNOWN | City | N | N |
| P66 | MW-14 | NA | ??? | Westlake Ave | ??? | ??? | NA | -- | ABANDONED | UNKNOWN | City | N | N |
| P66 | MW-15 | NA | ??? | Westlake Ave | ??? | ??? | NA | -- | ABANDONED | UNKNOWN | City | N | N |
| P66 | MW-16 | NA | ??? | Westlake Ave | ??? | ??? | NA | -- | ABANDONED | UNKNOWN | City | N | N |
| P66 | MW-17 | NA | ??? | Westlake Ave | ??? | ??? | Prior to 2/2006 per 2006 Delta Figures | -- | ABANDONED | Bentonite Backfill/Concrete Cap | City | N | N |
| P66 | MW-27 | NA | ??? | Westlake Ave | ??? | ??? | Prior to 2/2006 per 2006 Delta Figures | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | City | N | N |
| City of Seattle | MW-105 | NA | ??? | Westlake Ave | ??? | ??? | NA | 15.0 | ABANDONED | Bentonite Backfill/Concrete Cap | City | N | N |
| P66 | MW-88 | NA | 10/172005 | Valley St | 20 | 5-20 | NA | 15.0? | ABANDONED | Unknown | City | Y | N |
| P66 | MW-69 | NA | 10/11/2005 | Terry Ave | 20 | 5-20 | NA | -- | ABANDONED | Unknown | City | Y | N |
| City of Seattle | MW-103 | NA | ??? | Terry Ave | ??? | ??? | NA | -- | ABANDONED | Unknown | City | N | N |
| UNKNOWN | MW-900 | NA | ??? | N of Valley St. | ??? | ??? | NA | -- | ABANDONED | Unknown | ? | N | N |
| P66 | MW-38 | NA | 10/24/1991 | N of Valley/Terry Intersection | 20 | 5-20 | NA | -- | Abandoned based on 2010 Stantec Fig | UNKNOWN | UNKNOWN | Y | N |
| P66 | MW-34 | | 10/22/1991 | SW 1/4 of SW 1/4 of site | 27.5 | 3-27.5 | NA | 15.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | UNKNOWN | Y | N |
| P66 | MW-35 | | 10/23/1991 | N END OF SW 1/4 SITE | 27.5 | 5-27.5 | NA | 26.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | UNKNOWN | Y | N |
| P66 | MW-1 | NA | 1980 (PER GEOENGINEERS FIG) | NW 1/4 of SW 1/4 of site | ??? | ??? | NA | 15.0 | ABANDONED | ASSUME EXC | UNKNOWN | Y | N |
| P66 | MW-3 | MW-3A | 1981 (PER GEOENGINEERS FIG) | Center of site | ??? | ??? | NA | 15.0 | ABANDONED | UNKNOWN (SEE NOTE) | UNKNOWN | Y | N |
| P66 | MW-5 | RW-5 | 1/31/1991 | SW corner of site | 17.5 | 7-17 | NA | 15.0 | ABANDONED | UNKNOWN | UNKNOWN | Y | N |
| P66 | MW-43 | NA | 10/29/1991 | NW corner of Mercer/Westlake | 22 | 7-22 | NA | -- | ABANDONED (BASED ON FIGURE) | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-46 | NA | 10/30/1991 | NW corner of Valley/Terry | 22.5 | 5-22.5 | Prior to 2/2006 per 2006 Delta figures | -- | ABANDONED (BASED ON FIGURE) | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-55 | NA | 6/8/2005 | Center of SE 1/4 of site | 20 | 5-20 | NA | | ABANDONED (PER FIGURE) | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-61 | NA | 10/10/2005 | Westlake, W side | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-62 | NA | 10/10/2005 | Westlake, W side | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-63 | NA | 10/11/2005 | Westlake, W side | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-64 | NA | 10/11/2005 | Westlake, W side | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-74 | NA | 10/12/2005 | SW corner Mercer/Terry | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |

# P66 Westlake
## WELL STATUS INVENTORY

| OWNERSHIP | Well ID | Alternate ID | Date Installed | Location Area | Total Depth | Screened Interval | Confirmed Abandonment Date (from log or other Docs) | EXCAVATION AREA DEPTH | Status | Abandonment Method | Abandonment Overseen By: | Have Boring Log? (Y/N) | Have Abandonment Log? (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P66 | MW-76 | NA | 10/13/2005 | Valley | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-80 | NA | 10/14/2005 | N of intersetion Valley/Terry | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-81 | NA | 10/14/2005 | N of intersetion Valley/Terry | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-85 | NA | 10/17/2005 | Westlake | 20 | 5-20 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-95 | NA | 10/19/2005 | S of Mercer/Westlake | 18 | 3-18 | NA | -- | ABANDONED PER FIGURE | PER 2010 STANTEC FIGURE | UNKNOWN | Y | N |
| P66 | MW-96 | NA | 10/19/2005 | NE 1/4 of NW 1/4 of site | 20 | 5-20 | NA | 17.0 | ABANDONED | ASSUME EXC | UNKNOWN | Y | N |
| P66 | MW-30 | NA | ??? | SE 1/4 of NE 1/4 (per SCS Fig) | ??? | ??? | NA | 15.0 | ABANDONED | ASSUME EXC | SDOT | N | N |
| P66 | MW-7 | RW -7 | ??? | NW 1/4 of SW 1/4 fo site (per SCS Fig) | ??? | ??? | NA | 15.0 | ABANDONED | ASSUME EXC | SDOT | N | N |
| P66 | MW-29 | MW- (NO I.D.) | ??? | NE Site Corner (Shown as "NO ID" on Hist Figs | ??? | ??? | NA | 15.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | MW-97 | NA | 10/19/2005 | Westlake N of Mercer/Westlake | 20 | 5-20 | NA | 15.0 | ABANDONED BASED ON 2010 STANTEC FIGURE | UNKNOWN | UNKNOWN | Y | N |
| P66 | MW-51 | NA | ??? | SE Site corner | ??? | ??? | NA | -- | ABANDONED BASED ON 2010 STANTEC FIGURE | UNKNOWN | UNKNOWN | N | N |
| P66 | MW-32 | RW-32 | ??? | Central portion of N 1/2 site | ??? | ??? | NA | 22.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | DW-1 | NA | ??? | NE 1/4 OF SW 1/4 SITE | ??? | ??? | NA | 15.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | UNKNOWN | N | N |
| P66 | VE-1 | NA | ??? | NW 1/4 OF SW 1/4 OF SITE | ??? | ??? | NA | 15.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | VE-2 | NA | ??? | NW 1/4 OF SW 1/4 OF SITE | ??? | ??? | NA | 15.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | VE-3 | NA | ??? | SW SITE CORNER | ??? | ??? | NA | 26.5 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | VE-4 | NA | ??? | CENTER OF S END SITE | ??? | ??? | NA | 15.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | UNKNOWN | N | N |
| P66 | VE-5 | NA | ??? | SE 1/4 OF SW 1/4 OF SITE | ??? | ??? | NA | 15.0 | ABANDONED | PER CODE ACCORDING TO REF RPT | UNKNOWN | N | N |
| P66 | VE-6 | NA | ??? | NE 1/4 OF SE 1/4 | ??? | ??? | NA | NA | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | MW-6 | NA | ??? | SW 1/4 OF NW 1/4 OF SITE | ??? | ??? | NA | 24.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | RW-8 | MW-8 | ??? | NW 1/4 OF SW 1/4 OF SITE | ??? | ??? | NA | 24.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | MW-9 | RW-9 | ??? | N END OF SW 1/4 SITE | ??? | ??? | NA | 26.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | MW-10 | RW-10 | ??? | CENTER OF N END OF S 1/2 SITE | ??? | ??? | NA | 26.5 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | MW-28 | RW-28 | ??? | CENTER OF S 1/2 SITE | ??? | ??? | NA | 15.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| P66 | MW-26 | RW-26 | ??? | NW 1/4 OF SW 1/4 OF SITE | ??? | ??? | NA | 15.0 | ABANDONED | ASSUME EXC | UNKNOWN | N | N |
| **ACTIVE WELL / ASSUMED ACTIVE** | | | | | | | | | | | | | |
| P66 | MW-48 | NA | 1/27/1992 | Terry Ave | 21.5 | 5-21.5 | NA | NA | ACTIVE | NA | NA | Y | |
| P66 | MW-54 | NA | 6/7/2005 | NE 1/4 of SE 1/4 | 20 | 5-20 | NA | NA | ACTIVE | NA | NA | Y | NA |
| P66 | MW-66 | NA | 10/11/2005 | Terry Ave. | 22 | 7-22 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | EFR-1 | NA | 12/5/2006 | Terry | 15 | 13-15 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | EFR-2 | NA | 12/5/2006 | Terry | 15 | 13-15 | NA | NA | ACTIVE WELL | NA | NA | Y | N |

# P66 Westlake
## WELL STATUS INVENTORY

| OWNERSHIP | Well ID | Alternate ID | Date Installed | Location Area | Total Depth | Screened Interval | Confirmed Abandonment Date (from log or other Docs) | EXCAVATION AREA DEPTH | Status | Abandonment Method | Abandonment Overseen By: | Have Boring Log? (Y/N) | Have Abandonment Log? (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P66 | MW-209 | NA | 10/14/2008 | N edge of Valley | 20 | 5-20 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-210 | NA | 10/14/2008 | N edge of Valley | 20 | 5-20 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-211 | NA | 10/14/2008 | N edge of Valley | 20 | 5-20 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MWR-1 | NA | 11/2/2010 | SW 1/4 OF SITE | 18 | 8-18 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MWR-2 | NA | 11/2/2010 | NE 1/4 OF SW 1/4 OF SITE | 17 | 8-17 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MWR-3 | NA | 11/2/2010 | N END OF SW 1/4 OF SITE | 17 | 8-17 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MWR-4 | NA | 11/2/2010 | N END OF SW 1/4 OF SITE | 17 | 8-17 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MWR-5 | NA | 11/3/2010 | N END OF SE 1/4 OF SITE | 17 | 8-17 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MWR-6 | NA | 11/3/2010 | E SIDE OF SE 1/4 OF SITE | 8 | 8-18 | NA | NA | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-212 | NA | 9/30/2014 | Mercer | 25 | 10-25 | NA | ??? | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-213 | NA | 10/1/2014 | Valley | 20 | 5-20 | NA | ??? | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-214 | NA | 10/1/2014 | Valley | 17 | 7-17 | NA | ??? | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-215 | NA | 10/1/2014 | Valley | 17 | 7-17 | NA | ??? | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-216 | NA | 10/2/2014 | Mercer | 25 | 10-25 | NA | ??? | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-217 | NA | 10/3/2014 | Mercer | 25 | 10-25 | NA | ??? | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-218 | NA | 10/3/2014 | Mercer | 25 | 10-25 | NA | ??? | ACTIVE WELL | NA | NA | Y | N |
| P66 | MW-219 | NA | 10/3/2014 | Terry | 20 | 5-20 | NA | ??? | UNKNOWN (ASSUMED ACTIVE) | NA | NA | Y | N |
| P66 | MW-45 | NA | 10/29/1991 | NE 1/4 of SE 1/4 of site | 19 | 3-19 | NA | -- | ABANDONED | NA | NA | Y | NA |
| P66 | MW-67 | NA | 10/12/2005 | Terry Ave | 20 | 5-20 | NA | NA | ACTIVE | NA | NA | Y | N |
| City of Seattle | SMW-3 | MW-3 | 1/29/1991 | N of Valley, N of NW site corner | 17 | 16-16.5 | NA | NA | ACTIVE | NA | NA | Y | N |
| P66 | MW-68 | NA | 10/11/2005 | Terry Ave | 20.5 | 5.5-20.5 | NA | NA | ACTIVE | NA | NA | Y | N |
| P66 | MW-65 | NA | ??? | Terry Ave | 20 | 5-20 | NA | NA | ACTIVE | NA | NA | Y | N |
| P66 | MW-11 | NA | ??? | Westlake (W of N 1/2 of site) | ??? | ??? | NA | NA | ACTIVE? | NA | NA | N | NA |
| UNKNOWN | MW-4 | NA | ??? | Westlake between Mercer and Valley | ??? | ??? | NA | NA | ACTIVE? | NA | NA | N | NA |
| UNKNOWN | MW-5 | NA | ??? | Westlake between Mercer and Valley | ??? | ??? | NA | NA | ACTIVE? | NA | NA | N | NA |
| **WELL STATUS UNKNOWN** | | | | | | | | | | | | | |
| P66 | SVER-1 | NA | 11/4/2010 | NE 1/4 of S 1/2 of site | 7 | 3-7 | NA | NA | UNKNOWN | ??? | ??? | Y | N |
| P66 | SVER-2 | NA | 11/4/2010 | NE 1/4 of S 1/2 of site | 7 | 3-7 | NA | NA | UNKNOWN | ??? | ??? | Y | N |
| P66 | SVER-3 | NA | 11/4/2010 | NE 1/4 of S 1/2 of site | 7 | 3-7 | NA | NA | UNKNOWN | ??? | ??? | Y | N |
| P66 | SVER-4 | NA | 11/4/2010 | NE 1/4 of S 1/2 of site | 7 | 3-7 | NA | NA | UNKNOWN | ??? | ??? | Y | N |
| P66 | MW-207 | NA | 10/24/2005 | Terry, S of Mercer | 20 | 5-20 | NA | -- | Paved Over | NA | NA - Paved Over | Y | N |
| P66 | MW-39 | NA | 10/25/1991 | ~ 150' W of SW site corner (based on Hist 1992 GeoEngineers Fig 1) | 24 | 7-24 | NA | -- | UNKNOWN | UNKNOWN | | Y | N |
| P66 | MW-23 | NA | ??? | S Side Valley (out of traffic lane) | ??? | ??? | NA | NA | UNKNOWN | ??? | ??? | N | N |
| P66 | MW-22 | NA | ??? | S Side Valley (out of traffic lane) | ??? | ??? | NA | NA | UNKNOWN | ??? | ??? | N | N |
| City of Seattle | SMW-2 | MW-2 | 1/30/1991 | NW corner Westlake/Valley | 14 | 4-14 | NA | NA | UNKNOWN | ??? | ??? | Y | N |
| City of Seattle | SMW-1 | MW-1 | 1/28/1991 | SW corner Mercer/Westlake | 20 | 10-20 | NA | NA | UNKNOWN | ??? | ??? | Y | N |
| P66 | MW-25 | NA | ??? | Mercer W of Terry | ??? | ??? | NA | NA | UNKNOWN | ??? | ??? | N | N |
| P66 | MW-31 | NA | ??? | TERRY @ SE CORNER OF SITE | ??? | ??? | NA | NA | UNKNOWN | ??? | ??? | N | N |
| **ASSUMED ABANDONED / CAN'T LOCATE** | | | | | | | | | | | | | |
| UNKNOWN | MW-10 | NA | ??? | Terry Ave | ??? | ??? | NA | -- | ABANDONED | Unknown | City | N | N |

# P66 Westlake
## WELL STATUS INVENTORY

| OWNERSHIP | Well ID | Alternate ID | Date Installed | Location Area | Total Depth | Screened Interval | Confirmed Abandonment Date (from log or other Docs) | EXCAVATION AREA DEPTH | Status | Abandonment Method | Abandonment Overseen By: | Have Boring Log? (Y/N) | Have Abandonment Log? (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ADDITIONAL WELLS** | | | | | | | | | | | | | |
| CITY INVESTORS | CI-1 | | | | | | | | | | | | |
| CITY INVESTORS | CI-2 | | | | | | | | | | | | |
| CITY INVESTORS | CI-3 | | | | | | | | | | | | |

* = ABANDONMENT LOG IS THE ORIGINAL WELL INSTALLATION LOG WITH FIELD MARKUP

= ABANDONED PER CODE AND ABANDONMENT LOG IS AVAILABLE

= WELL ABANDONED BY COMPLETELY EXCAVATING ALL WELL MATERIALS

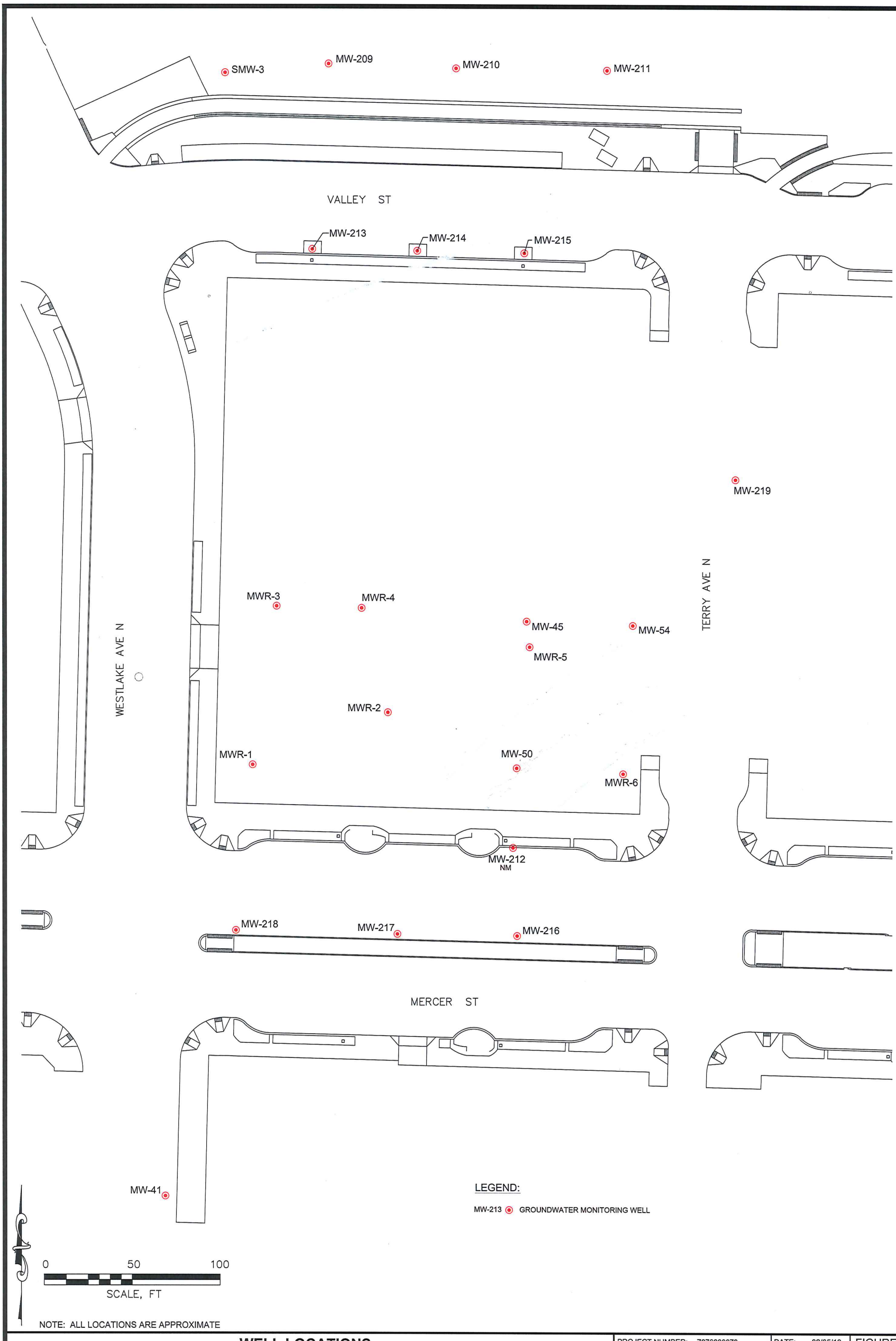
= WELL ASSUMED ABANDONED BASED ON HISTORICAL REPORT, FIGURE, OR CORRESPONDENCE. NO ABANDONMENT LOG AVAILABLE.

= WELL STATUS IS CURRENTLY ACTIVE / ASSUMED ACTIVE

= WELL STATUS IS UNKNOWN

= WELL COULD NOT BE LOCATED ON HISTORICAL FIGURES. REFERENCE TO WELL LOCATION IN HISTORICAL REPORT MAY HAVE BEEN TYPO. WELL REPORTEDLY ABANDONED.

**Figures**




NOTE: ALL LOCATIONS ARE APPROXIMATE

# WELL LOCATIONS

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE NORTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000073 | | DATE: 02/05/19 | FIGURE 1 |
| APPROVED BY: ES | | DRAWN BY: BK | |

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Seattle, Washington 98107
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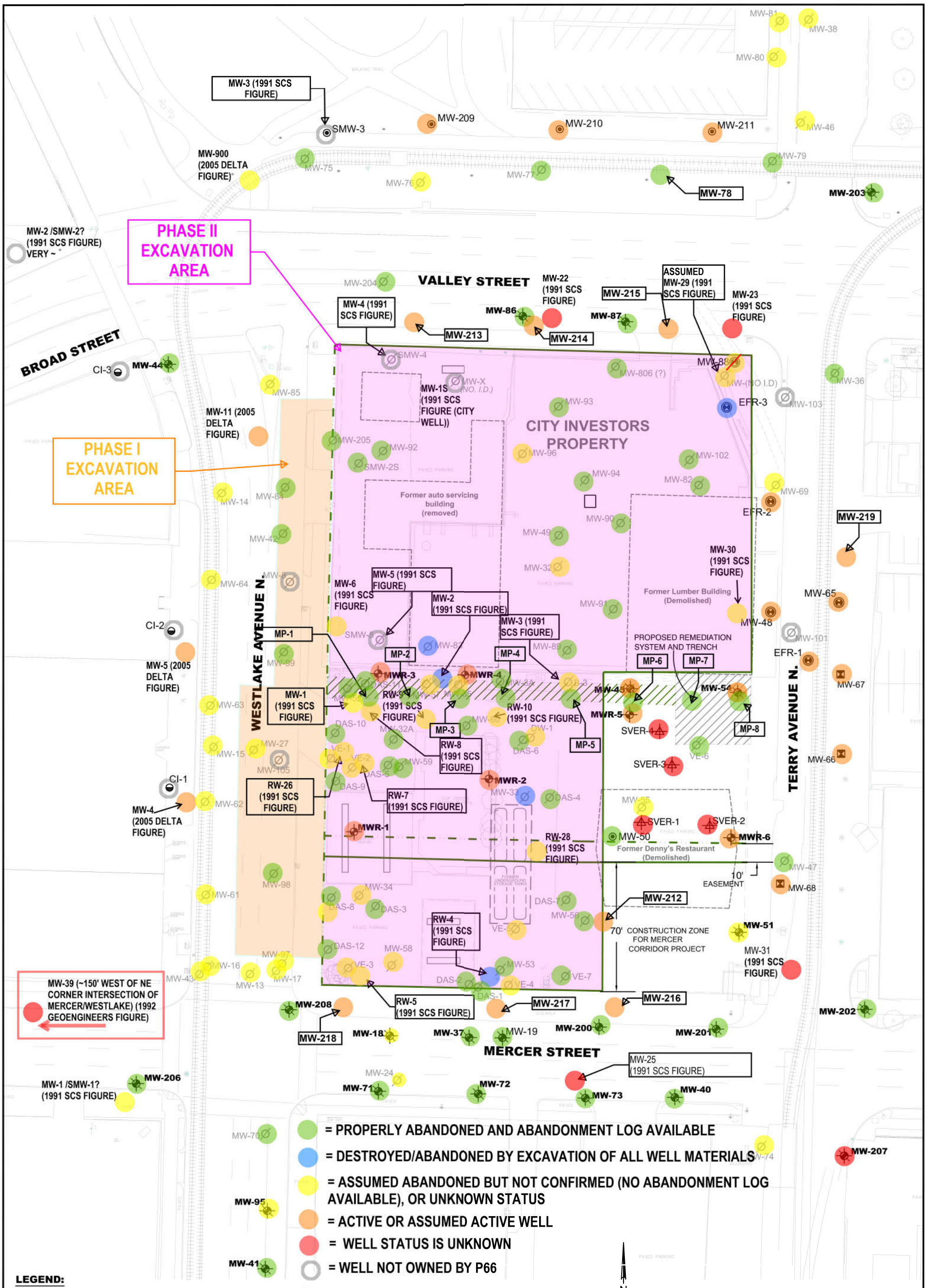


ATC
—AN ATLAS COMPANY—
6347 SEAVIEW AVE NW
SEATTLE, WA 98107
PH: (206) 781-1449 FAX: (206) 781-1543

**PHILLIPS 66**
FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE NORTH
SEATTLE, WA

**SITE WIDE ENVIRONMENTAL WELL CONDITIONS MAP**

FIGURE: **2**

| PROJECT NUMBER: | | DRAWN BY: | APPROVED BY: | DATE: |
|---|---|---|---|---|
| ZO76000073 | | LB | ES | 06/03/2019 |


NOTE: ALL LOCATIONS ARE APPROXIMATE

# FORMER SITE FEATURES

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE NORTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000073 | | DATE: 06/11/19 | FIGURE 3 |
| APPROVED BY: ES | | DRAWN BY: LB | |


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Seattle, Washington 98107
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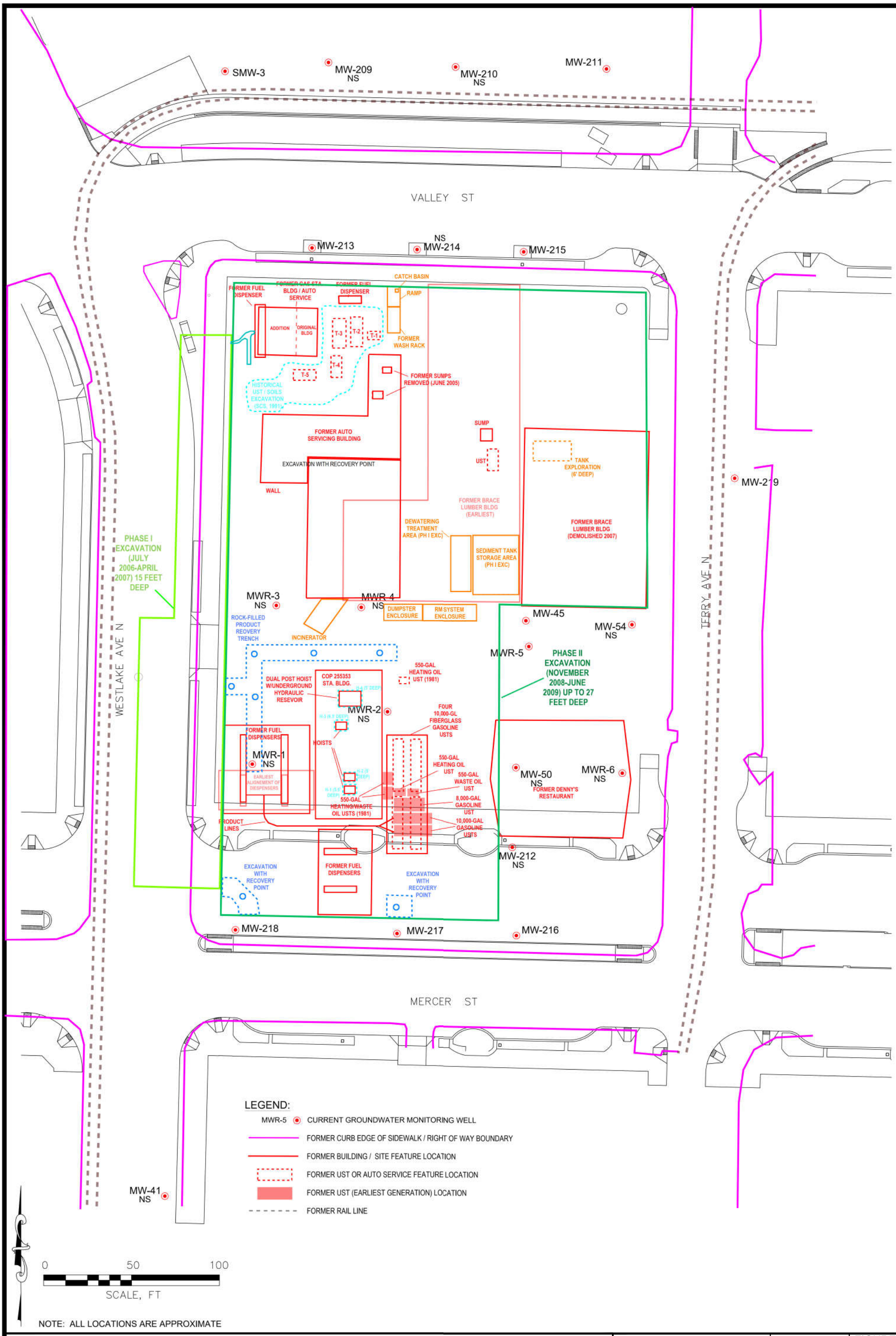


# HISTORICAL EXCAVATIONS

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE NORTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000073 | | DATE: 06/11/19 | FIGURE 4 |
| APPROVED BY: ES | | DRAWN BY: LB | |

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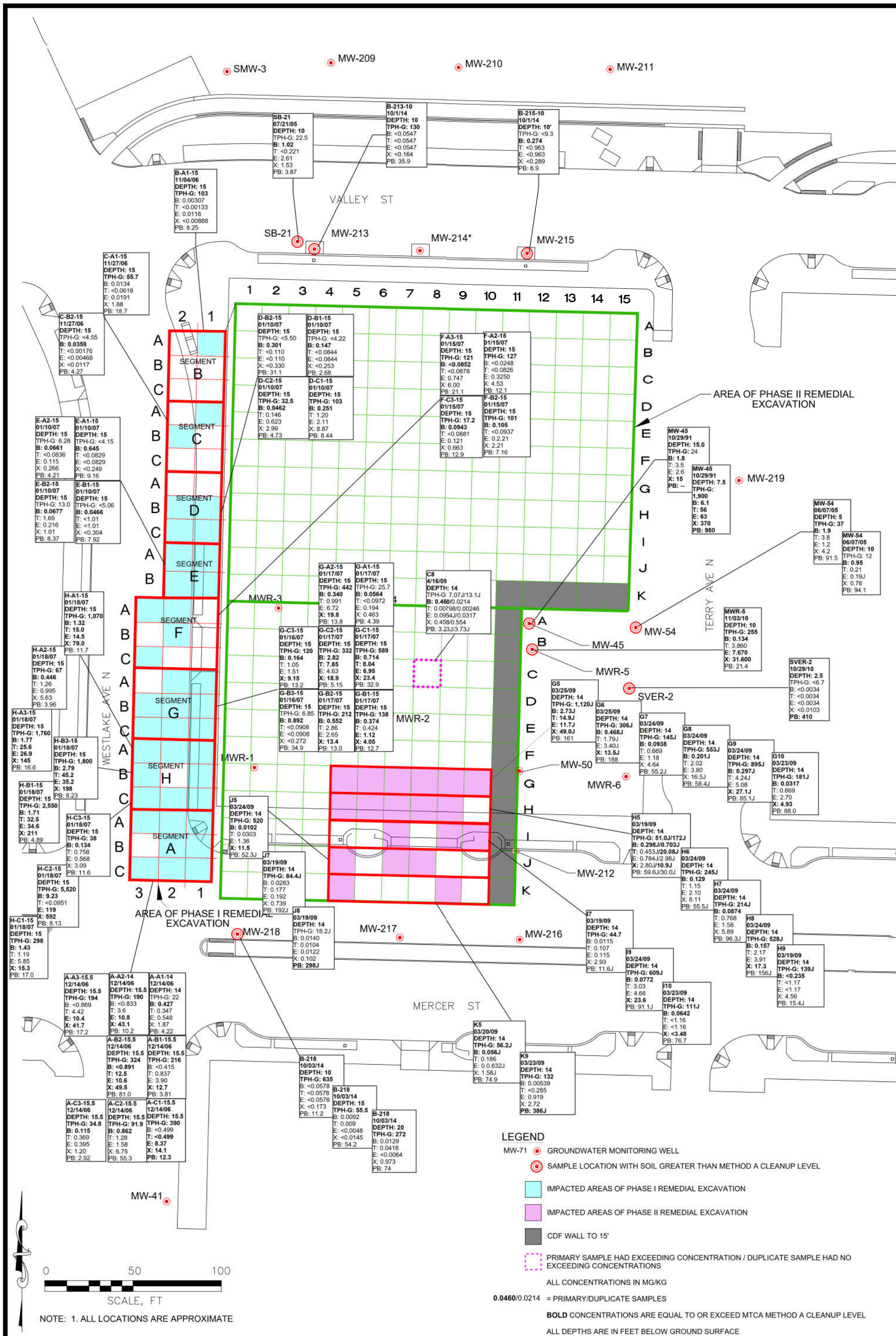


# POST EXCAVATION SOIL CONDITIONS MAP

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE N
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000073 | | DATE: 2/16/18 | FIGURE 5 |
| APPROVED BY: ES | | DRAWN BY: BK | |

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6347 Seaview Avenue NW
Seattle, Washington 98107
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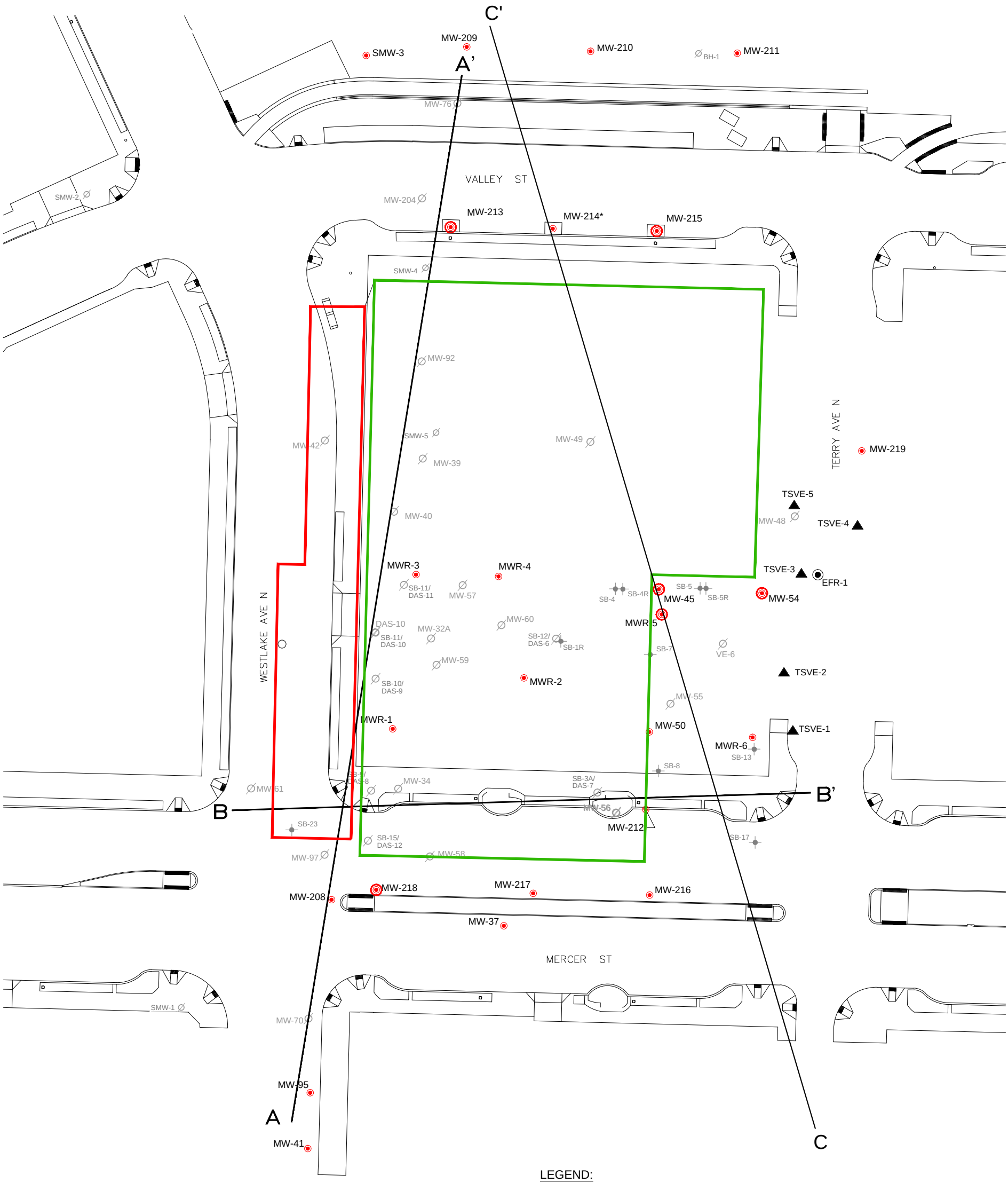


LEGEND:

- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL WITH IMPACTED READINGS
- SOIL BORING - DELTA 2005
- SVE WELL ON TERRY AVENUE - 2007
- SB-1/DAS-6 — AS WELL - DELTA 2005 (DESTROYED)
- SB-6/VE-6 — SVE WELL - DELTA 2005 (DESTROYED)
- MW-48 — MONITOR WELL - 1991 OR 1992 (DESTROYED)
- EFR-1 — ENHANCED FLUID RECOVERY WELL - 2007
- SMW-2 — MONITOR WELL - SCS 1991 (DESTROYED)
- A—A' — CROSS SECTION TRANSECT
- IMPACTED AREAS OF PHASE I REMEDIAL EXCAVATION
- IMPACTED AREAS OF PHASE II REMEDIAL EXCAVATION

0 60 120

SCALE, FT

NOTE: 1. ALL LOCATIONS ARE APPROXIMATE

# CROSS-SECTION TRANSECT LOCATIONS

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE N
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000073 | | DATE: 7/23/2019 | 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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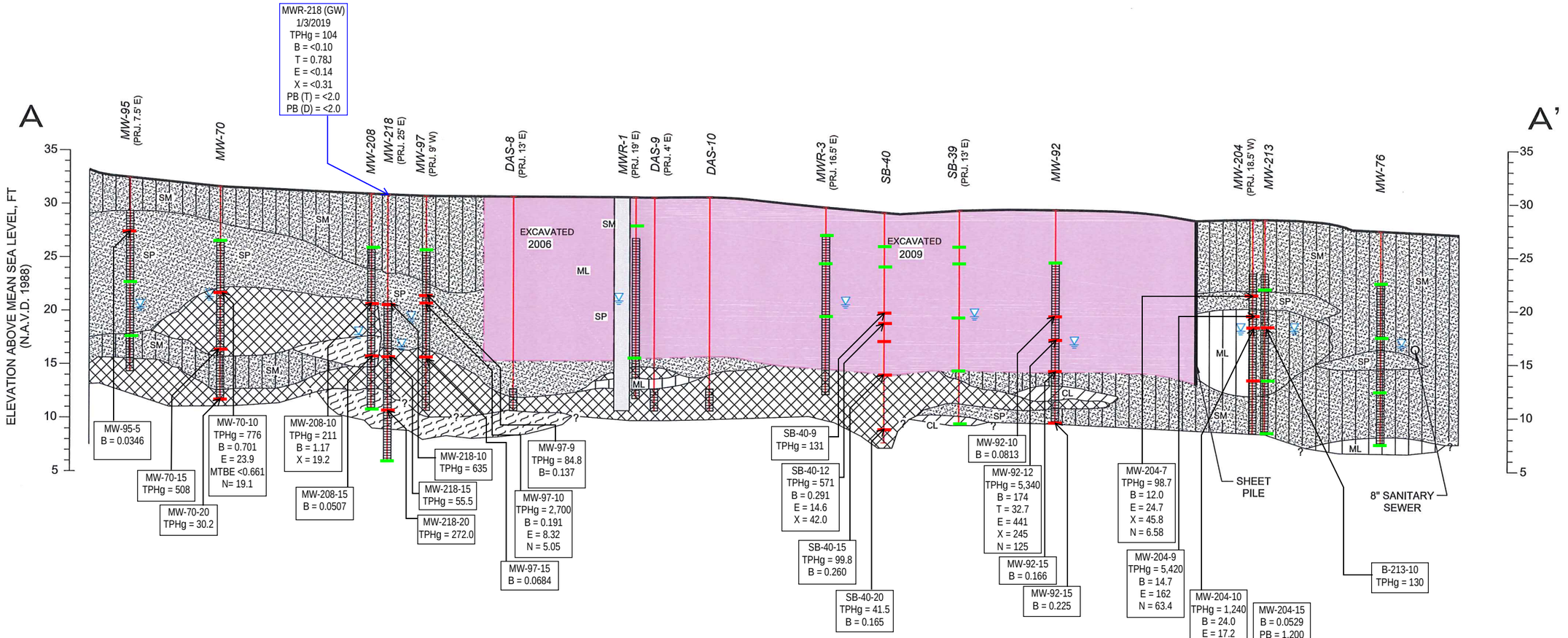


## LEGEND

- = SOIL SAMPLE WITH ONE OR MORE ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- = SOIL SAMPLE WITH NO ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL

BLUE DATA BOXES = GROUNDWATER DATA (CONCENTRATIONS IN MICROGRAMS PER LITER)

BLACK DATA BOXES = SOIL DATA (CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM. ALL CONCENTRATIONS SHOWN EXCEED MTCA METHOD A CLEANUP LEVELS

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TPHo = TOTAL PETROLEUM HYDROCARBONS AS OIL
B = BENZENEE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
MTBE = METHYL TERT-BUTYL ETHER
N = NAPTHALENE
PB = LEAD (FOR GROUNDWATER DATA (T) = TOTAL LEAD, (D) = DISSOLVED LEAD)

**BOLDED** CONCENTRATIONS EXCEED MTCA METHOD A CLEANUP LEVELS

- SP - POORLY GRADED SAND, WITH OR WITHOUT GRAVEL
- ML - SANDY SILT OR CLAYEY SILT, WITH OR WITHOUT GRAVEL
- FILL
- PT - PEAT
- CL - CLAY WITH OR WITHOUT SILT
- SM - SILTY SAND, WITH OR WITHOUT GRAVEL
- SLURRY WALL
- APPROXIMATE FIRST ENCOUNTERED WATER LEVEL
- BORING
- WELL SCREEN

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.

0 10 20
APPROX. VERTICAL SCALE, FT

0 50 100
APPROX. HORIZONTAL SCALE, FT

# CROSS SECTION A - A'

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE NORTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000073 | | DATE: 1/29/18 | FIGURE 7 |
| 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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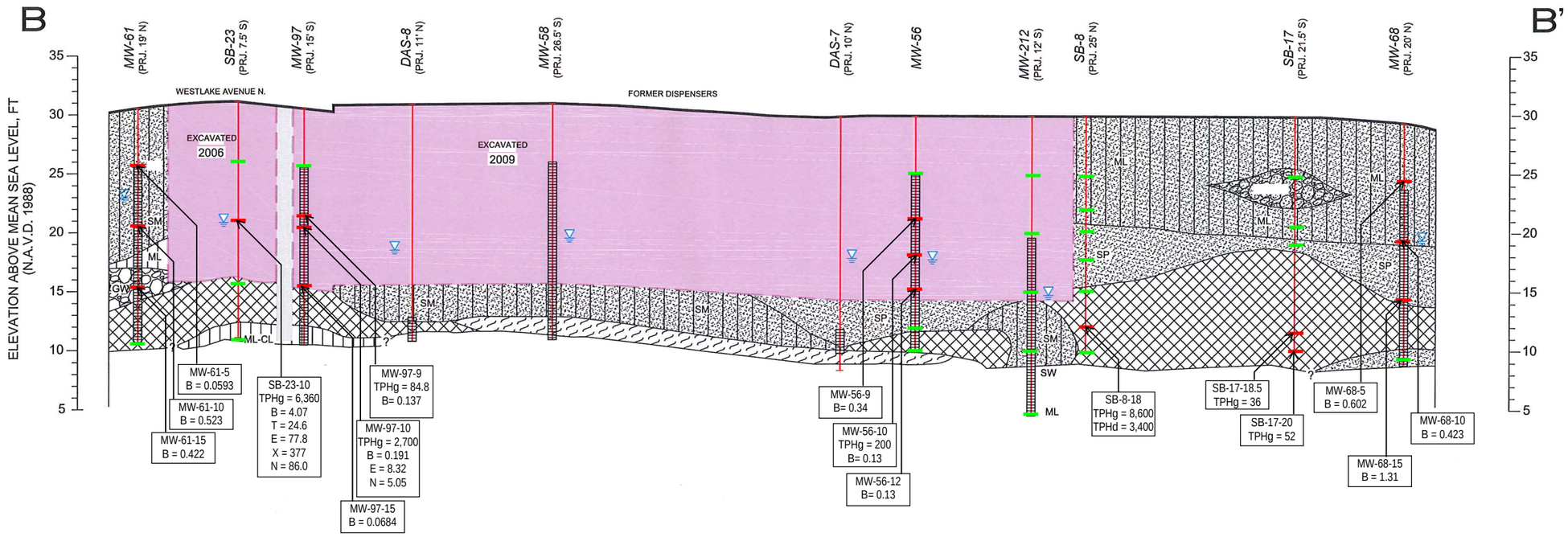


## LEGEND

- = SOIL SAMPLE WITH ONE OR MORE ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- = SOIL SAMPLE WITH NO ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL

BLACK DATA BOXES = SOIL DATA (CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM. ALL CONCENTRATIONS SHOWN EXCEED MTCA METHOD A CLEANUP LEVELS

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TPHo = TOTAL PETROLEUM HYDROCARBONS AS OIL
B = BENZENEE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
N = NAPTHALENE

**BOLDED** CONCENTRATIONS EXCEED MTCA METHOD A CLEANUP LEVELS

- SP - POORLY GRADED SAND, WITH OR WITHOUT GRAVEL
- ML - SANDY SILT OR CLAYEY SILT, WITH OR WITHOUT GRAVEL
- FILL
- PT - PEAT
- CL - CLAY WITH OR WITHOUT SILT
- SM - SILTY SAND, WITH OR WITHOUT GRAVEL
- GW, GM - WELL GRADED GRAVEL, WITH OR WITHOUT SILT
- SLURRY WALL
- BORING
- WELL SCREEN
- APPROXIMATE FIRST ENCOUNTERED WATER LEVEL

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.

0 10 20
APPROX. VERTICAL SCALE, FT

0 30 60
APPROX. HORIZONTAL SCALE, FT

# CROSS SECTION B - B'

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE NORTH
SEATTLE, WA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: Z076000073 | | DATE: 1/29/18 | FIGURE 8 |
| APPROVED BY: ES | | DRAWN BY: BK | |

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Seattle, Washington 98107
Ph: (206) 781-1449 *** Fax: (206) 781-1543

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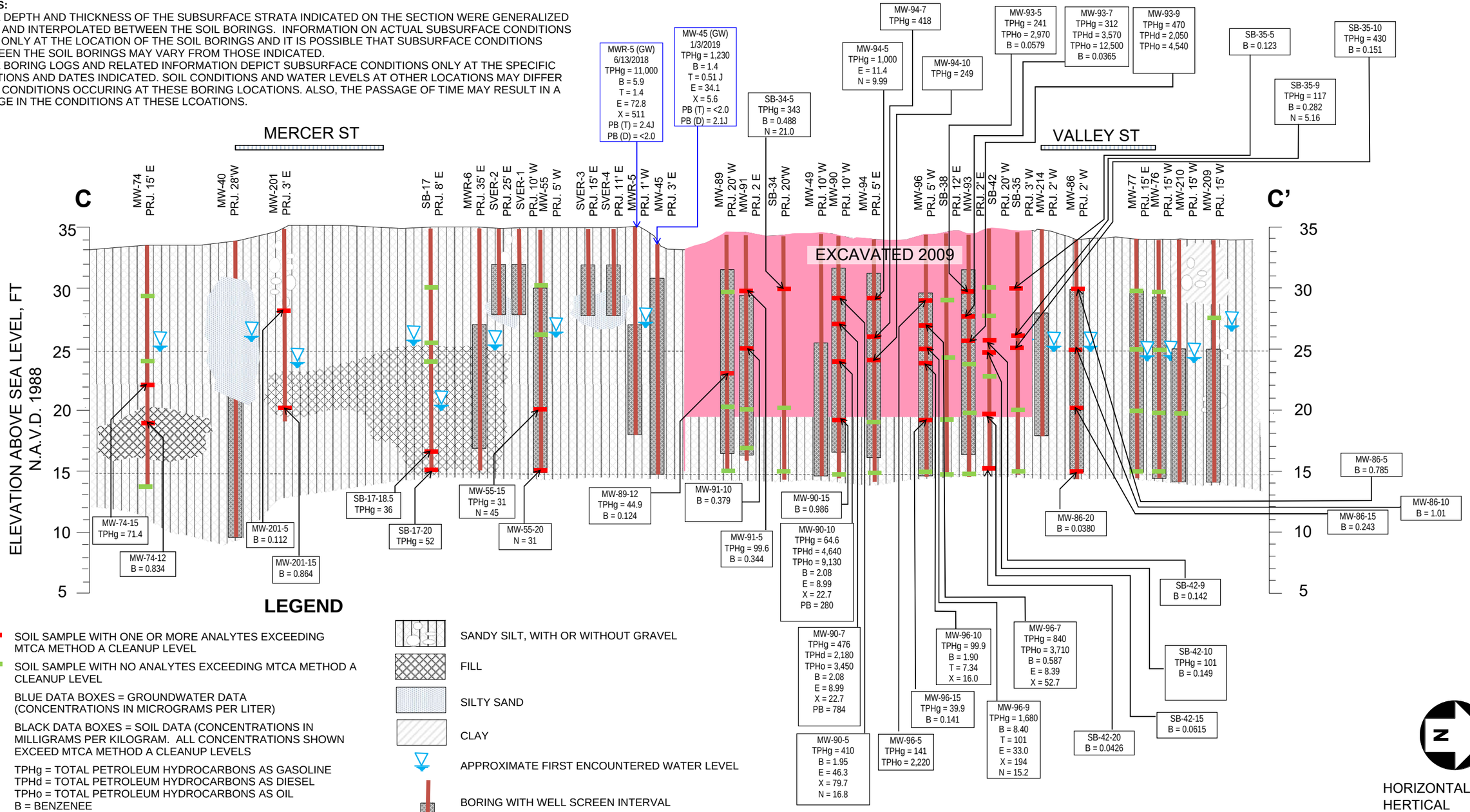
**NOTES:**
1. THE DEPTH AND THICKNESS OF THE SUBSURFACE STRATA INDICATED ON THE SECTION WERE GENERALIZED FROM AND INTERPOLATED BETWEEN THE SOIL BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXIST ONLY AT THE LOCATION OF THE SOIL BORINGS AND IT IS POSSIBLE THAT SUBSURFACE CONDITIONS BETWEEN THE 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 LCOATIONS.




## LEGEND

- SOIL SAMPLE WITH ONE OR MORE ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- SOIL SAMPLE WITH NO ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- BLUE DATA BOXES = GROUNDWATER DATA (CONCENTRATIONS IN MICROGRAMS PER LITER)
- BLACK DATA BOXES = SOIL DATA (CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM. ALL CONCENTRATIONS SHOWN EXCEED MTCA METHOD A CLEANUP LEVELS

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TPHo = TOTAL PETROLEUM HYDROCARBONS AS OIL
B = BENZENEE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
N = NAPTHALENE
PB = LEAD (FOR GROUNDWATER DATA (T) = TOTAL LEAD, (D) = DISSOLVED LEAD)

**BOLDED** CONCENTRATIONS EXCEED MTCA METHOD A CLEANUP LEVELS

- SANDY SILT, WITH OR WITHOUT GRAVEL
- FILL
- SILTY SAND
- CLAY
- APPROXIMATE FIRST ENCOUNTERED WATER LEVEL
- BORING WITH WELL SCREEN INTERVAL

N

HORIZONTAL 1:50
HERTICAL 1:10

**CROSS SECTION C-C'**

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE NORTH
SEATTLE, WA

| PROJECT NO. Z076000073 | DATE: 04/2919 | **FIGURE** |
|---|---|---|
| APPROVED BY: ES | DRAWN BY: AD | **9** |


ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

**6347 Seaview Avenue NW**
**Seattle, Washington 98107**
**(206) 781-1449**

## Attachments

**Attachment A**

Laboratory Report

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 18, 2019

Elisabeth Silver
ATC Group Services LLC
6347 Seaview Ave NW
Seattle, WA 98107

RE: Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

Dear Elisabeth Silver:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

# CERTIFICATIONS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Minnesota Certification IDs**

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
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
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
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 #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 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 #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
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

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## SAMPLE SUMMARY

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **10477997001** | **MW-50** | Water | 06/04/19 16:05 | 06/06/19 07:40 |
| **10477997002** | **MW-209** | Water | 06/04/19 13:00 | 06/06/19 07:40 |
| **10477997003** | **MW-210** | Water | 06/04/19 13:40 | 06/06/19 07:40 |
| **10477997004** | **MW-213** | Water | 06/04/19 14:25 | 06/06/19 07:40 |
| **10477997005** | **MW-214** | Water | 06/04/19 15:20 | 06/06/19 07:40 |
| **10477997006** | **Trip Blank** | Water | 06/04/19 17:00 | 06/06/19 07:40 |

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## SAMPLE ANALYTE COUNT

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **10477997001** | **MW-50** | NWTPH-Gx | AJR | 2 | PASI-M |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | EPA 6010D | IP | 1 | PASI-M |
| | | EPA 8260B | AEZ | 69 | PASI-M |
| **10477997002** | **MW-209** | NWTPH-Gx | AJR | 2 | PASI-M |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | EPA 6010D | IP | 1 | PASI-M |
| | | EPA 8260B | AEZ | 69 | PASI-M |
| **10477997003** | **MW-210** | NWTPH-Gx | AJR | 2 | PASI-M |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | EPA 6010D | IP | 1 | PASI-M |
| | | EPA 8260B | AEZ | 69 | PASI-M |
| **10477997004** | **MW-213** | NWTPH-Gx | AJR | 2 | PASI-M |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | EPA 6010D | IP | 1 | PASI-M |
| | | EPA 8260B | AEZ | 69 | PASI-M |
| **10477997005** | **MW-214** | NWTPH-Gx | AJR | 2 | PASI-M |
| | | EPA 6010D | DM | 1 | PASI-M |
| | | EPA 6010D | IP | 1 | PASI-M |
| | | EPA 8260B | AEZ | 69 | PASI-M |
| **10477997006** | **Trip Blank** | EPA 8260B | AEZ | 4 | PASI-M |

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-50** **Lab ID: 10477997001** Collected: 06/04/19 16:05 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| TPH as Gas | **<38.3** | ug/L | 100 | 38.3 | 1 | | 06/13/19 23:03 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 90 | %. | 50-150 | | 1 | | 06/13/19 23:03 | 98-08-8 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead | **<2.0** | ug/L | 10.0 | 2.0 | 1 | 06/10/19 14:10 | 06/12/19 11:30 | 7439-92-1 | |
| **6010D MET ICP, Dissolved** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead, Dissolved | **<2.0** | ug/L | 10.0 | 2.0 | 1 | 06/12/19 15:57 | 06/13/19 14:31 | 7439-92-1 | |
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:21 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:21 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:21 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 18:21 | 79-00-5 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.47** | ug/L | 1.0 | 0.47 | 1 | | 06/15/19 18:21 | 76-13-1 | |
| 1,1-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:21 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:21 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:21 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 18:21 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 06/15/19 18:21 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:21 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:21 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<1.7** | ug/L | 4.0 | 1.7 | 1 | | 06/15/19 18:21 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:21 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:21 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 18:21 | 107-06-2 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 18:21 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 06/15/19 18:21 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:21 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:21 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:21 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.17** | ug/L | 4.0 | 0.17 | 1 | | 06/15/19 18:21 | 594-20-7 | |
| 2-Butanone (MEK) | **<0.99** | ug/L | 5.0 | 0.99 | 1 | | 06/15/19 18:21 | 78-93-3 | |
| 2-Chlorotoluene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:21 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 06/15/19 18:21 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.42** | ug/L | 5.0 | 0.42 | 1 | | 06/15/19 18:21 | 108-10-1 | |
| Acetone | **<9.2** | ug/L | 20.0 | 9.2 | 1 | | 06/15/19 18:21 | 67-64-1 | |
| Allyl chloride | **<0.29** | ug/L | 4.0 | 0.29 | 1 | | 06/15/19 18:21 | 107-05-1 | |
| Benzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 18:21 | 71-43-2 | |
| Bromobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 18:21 | 108-86-1 | |
| Bromochloromethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 06/15/19 18:21 | 74-97-5 | |
| Bromodichloromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 18:21 | 75-27-4 | |
| Bromoform | **<0.80** | ug/L | 4.0 | 0.80 | 1 | | 06/15/19 18:21 | 75-25-2 | |
| Bromomethane | **<1.8** | ug/L | 4.0 | 1.8 | 1 | | 06/15/19 18:21 | 74-83-9 | |
| Carbon tetrachloride | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 18:21 | 56-23-5 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-50** **Lab ID: 10477997001** Collected: 06/04/19 16:05 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| Chlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:21 | 108-90-7 | |
| Chloroethane | **<0.49** | ug/L | 1.0 | 0.49 | 1 | | 06/15/19 18:21 | 75-00-3 | |
| Chloroform | **<0.45** | ug/L | 1.0 | 0.45 | 1 | | 06/15/19 18:21 | 67-66-3 | |
| Chloromethane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 18:21 | 74-87-3 | |
| Dibromochloromethane | **<0.46** | ug/L | 1.0 | 0.46 | 1 | | 06/15/19 18:21 | 124-48-1 | |
| Dibromomethane | **<0.39** | ug/L | 4.0 | 0.39 | 1 | | 06/15/19 18:21 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 18:21 | 75-71-8 | |
| Diethyl ether (Ethyl ether) | **<0.095** | ug/L | 4.0 | 0.095 | 1 | | 06/15/19 18:21 | 60-29-7 | |
| Ethylbenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:21 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.31** | ug/L | 1.0 | 0.31 | 1 | | 06/15/19 18:21 | 87-68-3 | M1 |
| Isopropylbenzene (Cumene) | **0.65J** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 18:21 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:21 | 1634-04-4 | |
| Methylene Chloride | **<0.98** | ug/L | 4.0 | 0.98 | 1 | | 06/15/19 18:21 | 75-09-2 | |
| Naphthalene | **1.1J** | ug/L | 4.0 | 0.48 | 1 | | 06/15/19 18:21 | 91-20-3 | |
| Styrene | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 18:21 | 100-42-5 | |
| Tetrachloroethene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:21 | 127-18-4 | |
| Tetrahydrofuran | **<2.2** | ug/L | 10.0 | 2.2 | 1 | | 06/15/19 18:21 | 109-99-9 | |
| Toluene | **<0.083** | ug/L | 1.0 | 0.083 | 1 | | 06/15/19 18:21 | 108-88-3 | |
| Trichloroethene | **<0.15** | ug/L | 0.40 | 0.15 | 1 | | 06/15/19 18:21 | 79-01-6 | |
| Trichlorofluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 18:21 | 75-69-4 | |
| Vinyl chloride | **<0.092** | ug/L | 0.20 | 0.092 | 1 | | 06/15/19 18:21 | 75-01-4 | |
| Xylene (Total) | **<0.31** | ug/L | 3.0 | 0.31 | 1 | | 06/15/19 18:21 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:21 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.20** | ug/L | 4.0 | 0.20 | 1 | | 06/15/19 18:21 | 10061-01-5 | |
| n-Butylbenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:21 | 104-51-8 | |
| n-Propylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 18:21 | 103-65-1 | |
| p-Isopropyltoluene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:21 | 99-87-6 | |
| sec-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:21 | 135-98-8 | |
| tert-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:21 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:21 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.18** | ug/L | 4.0 | 0.18 | 1 | | 06/15/19 18:21 | 10061-02-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 99 | %. | 75-125 | | 1 | | 06/15/19 18:21 | 17060-07-0 | |
| Toluene-d8 (S) | 95 | %. | 75-125 | | 1 | | 06/15/19 18:21 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 | %. | 75-125 | | 1 | | 06/15/19 18:21 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-209** **Lab ID: 10477997002** Collected: 06/04/19 13:00 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| TPH as Gas | **<38.3** | ug/L | 100 | 38.3 | 1 | | 06/13/19 23:37 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 95 | %. | 50-150 | | 1 | | 06/13/19 23:37 | 98-08-8 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead | **2.4J** | ug/L | 10.0 | 2.0 | 1 | 06/10/19 14:10 | 06/12/19 11:32 | 7439-92-1 | |
| **6010D MET ICP, Dissolved** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead, Dissolved | **<2.0** | ug/L | 10.0 | 2.0 | 1 | 06/12/19 15:57 | 06/13/19 14:34 | 7439-92-1 | |
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:37 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:37 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:37 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 18:37 | 79-00-5 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.47** | ug/L | 1.0 | 0.47 | 1 | | 06/15/19 18:37 | 76-13-1 | |
| 1,1-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:37 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:37 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:37 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 18:37 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 06/15/19 18:37 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:37 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:37 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<1.7** | ug/L | 4.0 | 1.7 | 1 | | 06/15/19 18:37 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:37 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:37 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 18:37 | 107-06-2 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 18:37 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 06/15/19 18:37 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:37 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:37 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:37 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.17** | ug/L | 4.0 | 0.17 | 1 | | 06/15/19 18:37 | 594-20-7 | |
| 2-Butanone (MEK) | **<0.99** | ug/L | 5.0 | 0.99 | 1 | | 06/15/19 18:37 | 78-93-3 | |
| 2-Chlorotoluene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:37 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 06/15/19 18:37 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.42** | ug/L | 5.0 | 0.42 | 1 | | 06/15/19 18:37 | 108-10-1 | |
| Acetone | **<9.2** | ug/L | 20.0 | 9.2 | 1 | | 06/15/19 18:37 | 67-64-1 | |
| Allyl chloride | **<0.29** | ug/L | 4.0 | 0.29 | 1 | | 06/15/19 18:37 | 107-05-1 | |
| Benzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 18:37 | 71-43-2 | |
| Bromobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 18:37 | 108-86-1 | |
| Bromochloromethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 06/15/19 18:37 | 74-97-5 | |
| Bromodichloromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 18:37 | 75-27-4 | |
| Bromoform | **<0.80** | ug/L | 4.0 | 0.80 | 1 | | 06/15/19 18:37 | 75-25-2 | |
| Bromomethane | **<1.8** | ug/L | 4.0 | 1.8 | 1 | | 06/15/19 18:37 | 74-83-9 | |
| Carbon tetrachloride | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 18:37 | 56-23-5 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
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## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-209** **Lab ID: 10477997002** Collected: 06/04/19 13:00 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| Chlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:37 | 108-90-7 | |
| Chloroethane | **<0.49** | ug/L | 1.0 | 0.49 | 1 | | 06/15/19 18:37 | 75-00-3 | |
| Chloroform | **<0.45** | ug/L | 1.0 | 0.45 | 1 | | 06/15/19 18:37 | 67-66-3 | |
| Chloromethane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 18:37 | 74-87-3 | |
| Dibromochloromethane | **<0.46** | ug/L | 1.0 | 0.46 | 1 | | 06/15/19 18:37 | 124-48-1 | |
| Dibromomethane | **<0.39** | ug/L | 4.0 | 0.39 | 1 | | 06/15/19 18:37 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 18:37 | 75-71-8 | |
| Diethyl ether (Ethyl ether) | **<0.095** | ug/L | 4.0 | 0.095 | 1 | | 06/15/19 18:37 | 60-29-7 | |
| Ethylbenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:37 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.31** | ug/L | 1.0 | 0.31 | 1 | | 06/15/19 18:37 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 18:37 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:37 | 1634-04-4 | |
| Methylene Chloride | **<0.98** | ug/L | 4.0 | 0.98 | 1 | | 06/15/19 18:37 | 75-09-2 | |
| Naphthalene | **<0.48** | ug/L | 4.0 | 0.48 | 1 | | 06/15/19 18:37 | 91-20-3 | |
| Styrene | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 18:37 | 100-42-5 | |
| Tetrachloroethene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:37 | 127-18-4 | |
| Tetrahydrofuran | **<2.2** | ug/L | 10.0 | 2.2 | 1 | | 06/15/19 18:37 | 109-99-9 | |
| Toluene | **<0.083** | ug/L | 1.0 | 0.083 | 1 | | 06/15/19 18:37 | 108-88-3 | |
| Trichloroethene | **<0.15** | ug/L | 0.40 | 0.15 | 1 | | 06/15/19 18:37 | 79-01-6 | |
| Trichlorofluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 18:37 | 75-69-4 | |
| Vinyl chloride | **<0.092** | ug/L | 0.20 | 0.092 | 1 | | 06/15/19 18:37 | 75-01-4 | |
| Xylene (Total) | **<0.31** | ug/L | 3.0 | 0.31 | 1 | | 06/15/19 18:37 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:37 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.20** | ug/L | 4.0 | 0.20 | 1 | | 06/15/19 18:37 | 10061-01-5 | |
| n-Butylbenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:37 | 104-51-8 | |
| n-Propylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 18:37 | 103-65-1 | |
| p-Isopropyltoluene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:37 | 99-87-6 | |
| sec-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:37 | 135-98-8 | |
| tert-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:37 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:37 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.18** | ug/L | 4.0 | 0.18 | 1 | | 06/15/19 18:37 | 10061-02-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 101 | %. | 75-125 | | 1 | | 06/15/19 18:37 | 17060-07-0 | |
| Toluene-d8 (S) | 96 | %. | 75-125 | | 1 | | 06/15/19 18:37 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | %. | 75-125 | | 1 | | 06/15/19 18:37 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-210** **Lab ID: 10477997003** Collected: 06/04/19 13:40 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| TPH as Gas | **<38.3** | ug/L | 100 | 38.3 | 1 | | 06/13/19 23:54 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 93 | %. | 50-150 | | 1 | | 06/13/19 23:54 | 98-08-8 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead | **<2.0** | ug/L | 10.0 | 2.0 | 1 | 06/10/19 14:10 | 06/12/19 11:34 | 7439-92-1 | |
| **6010D MET ICP, Dissolved** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead, Dissolved | **<2.0** | ug/L | 10.0 | 2.0 | 1 | 06/12/19 15:57 | 06/13/19 14:37 | 7439-92-1 | |
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:54 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:54 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:54 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 18:54 | 79-00-5 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.47** | ug/L | 1.0 | 0.47 | 1 | | 06/15/19 18:54 | 76-13-1 | |
| 1,1-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:54 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:54 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:54 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 18:54 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 06/15/19 18:54 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:54 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 18:54 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<1.7** | ug/L | 4.0 | 1.7 | 1 | | 06/15/19 18:54 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:54 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:54 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 18:54 | 107-06-2 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 18:54 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 06/15/19 18:54 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:54 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:54 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:54 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.17** | ug/L | 4.0 | 0.17 | 1 | | 06/15/19 18:54 | 594-20-7 | |
| 2-Butanone (MEK) | **<0.99** | ug/L | 5.0 | 0.99 | 1 | | 06/15/19 18:54 | 78-93-3 | |
| 2-Chlorotoluene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:54 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 06/15/19 18:54 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.42** | ug/L | 5.0 | 0.42 | 1 | | 06/15/19 18:54 | 108-10-1 | |
| Acetone | **<9.2** | ug/L | 20.0 | 9.2 | 1 | | 06/15/19 18:54 | 67-64-1 | |
| Allyl chloride | **<0.29** | ug/L | 4.0 | 0.29 | 1 | | 06/15/19 18:54 | 107-05-1 | |
| Benzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 18:54 | 71-43-2 | |
| Bromobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 18:54 | 108-86-1 | |
| Bromochloromethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 06/15/19 18:54 | 74-97-5 | |
| Bromodichloromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 18:54 | 75-27-4 | |
| Bromoform | **<0.80** | ug/L | 4.0 | 0.80 | 1 | | 06/15/19 18:54 | 75-25-2 | |
| Bromomethane | **<1.8** | ug/L | 4.0 | 1.8 | 1 | | 06/15/19 18:54 | 74-83-9 | |
| Carbon tetrachloride | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 18:54 | 56-23-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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# ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-210** **Lab ID: 10477997003** Collected: 06/04/19 13:40 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| Chlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:54 | 108-90-7 | |
| Chloroethane | **<0.49** | ug/L | 1.0 | 0.49 | 1 | | 06/15/19 18:54 | 75-00-3 | |
| Chloroform | **<0.45** | ug/L | 1.0 | 0.45 | 1 | | 06/15/19 18:54 | 67-66-3 | |
| Chloromethane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 18:54 | 74-87-3 | |
| Dibromochloromethane | **<0.46** | ug/L | 1.0 | 0.46 | 1 | | 06/15/19 18:54 | 124-48-1 | |
| Dibromomethane | **<0.39** | ug/L | 4.0 | 0.39 | 1 | | 06/15/19 18:54 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 18:54 | 75-71-8 | |
| Diethyl ether (Ethyl ether) | **<0.095** | ug/L | 4.0 | 0.095 | 1 | | 06/15/19 18:54 | 60-29-7 | |
| Ethylbenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 18:54 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.31** | ug/L | 1.0 | 0.31 | 1 | | 06/15/19 18:54 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 18:54 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 18:54 | 1634-04-4 | |
| Methylene Chloride | **<0.98** | ug/L | 4.0 | 0.98 | 1 | | 06/15/19 18:54 | 75-09-2 | |
| Naphthalene | **<0.48** | ug/L | 4.0 | 0.48 | 1 | | 06/15/19 18:54 | 91-20-3 | |
| Styrene | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 18:54 | 100-42-5 | |
| Tetrachloroethene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 18:54 | 127-18-4 | |
| Tetrahydrofuran | **<2.2** | ug/L | 10.0 | 2.2 | 1 | | 06/15/19 18:54 | 109-99-9 | |
| Toluene | **<0.083** | ug/L | 1.0 | 0.083 | 1 | | 06/15/19 18:54 | 108-88-3 | |
| Trichloroethene | **<0.15** | ug/L | 0.40 | 0.15 | 1 | | 06/15/19 18:54 | 79-01-6 | |
| Trichlorofluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 18:54 | 75-69-4 | |
| Vinyl chloride | **<0.092** | ug/L | 0.20 | 0.092 | 1 | | 06/15/19 18:54 | 75-01-4 | |
| Xylene (Total) | **<0.31** | ug/L | 3.0 | 0.31 | 1 | | 06/15/19 18:54 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:54 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.20** | ug/L | 4.0 | 0.20 | 1 | | 06/15/19 18:54 | 10061-01-5 | |
| n-Butylbenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:54 | 104-51-8 | |
| n-Propylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 18:54 | 103-65-1 | |
| p-Isopropyltoluene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:54 | 99-87-6 | |
| sec-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:54 | 135-98-8 | |
| tert-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 18:54 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 18:54 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.18** | ug/L | 4.0 | 0.18 | 1 | | 06/15/19 18:54 | 10061-02-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 101 | %. | 75-125 | | 1 | | 06/15/19 18:54 | 17060-07-0 | |
| Toluene-d8 (S) | 95 | %. | 75-125 | | 1 | | 06/15/19 18:54 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 | %. | 75-125 | | 1 | | 06/15/19 18:54 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-213** **Lab ID: 10477997004** Collected: 06/04/19 14:25 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| TPH as Gas | **<38.3** | ug/L | 100 | 38.3 | 1 | | 06/14/19 00:11 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 91 | %. | 50-150 | | 1 | | 06/14/19 00:11 | 98-08-8 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead | **2.8J** | ug/L | 10.0 | 2.0 | 1 | 06/10/19 14:10 | 06/12/19 11:35 | 7439-92-1 | |
| **6010D MET ICP, Dissolved** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead, Dissolved | **<2.0** | ug/L | 10.0 | 2.0 | 1 | 06/12/19 15:57 | 06/13/19 14:40 | 7439-92-1 | |
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 19:11 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 19:11 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:11 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 19:11 | 79-00-5 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.47** | ug/L | 1.0 | 0.47 | 1 | | 06/15/19 19:11 | 76-13-1 | |
| 1,1-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:11 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 19:11 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 19:11 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 19:11 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 06/15/19 19:11 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 19:11 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 19:11 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<1.7** | ug/L | 4.0 | 1.7 | 1 | | 06/15/19 19:11 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 19:11 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 19:11 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 19:11 | 107-06-2 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 19:11 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 06/15/19 19:11 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 19:11 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:11 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:11 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.17** | ug/L | 4.0 | 0.17 | 1 | | 06/15/19 19:11 | 594-20-7 | |
| 2-Butanone (MEK) | **<0.99** | ug/L | 5.0 | 0.99 | 1 | | 06/15/19 19:11 | 78-93-3 | |
| 2-Chlorotoluene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 19:11 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 06/15/19 19:11 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.42** | ug/L | 5.0 | 0.42 | 1 | | 06/15/19 19:11 | 108-10-1 | |
| Acetone | **<9.2** | ug/L | 20.0 | 9.2 | 1 | | 06/15/19 19:11 | 67-64-1 | |
| Allyl chloride | **<0.29** | ug/L | 4.0 | 0.29 | 1 | | 06/15/19 19:11 | 107-05-1 | |
| Benzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 19:11 | 71-43-2 | |
| Bromobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 19:11 | 108-86-1 | |
| Bromochloromethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 06/15/19 19:11 | 74-97-5 | |
| Bromodichloromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 19:11 | 75-27-4 | |
| Bromoform | **<0.80** | ug/L | 4.0 | 0.80 | 1 | | 06/15/19 19:11 | 75-25-2 | |
| Bromomethane | **<1.8** | ug/L | 4.0 | 1.8 | 1 | | 06/15/19 19:11 | 74-83-9 | |
| Carbon tetrachloride | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 19:11 | 56-23-5 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
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## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-213** **Lab ID: 10477997004** Collected: 06/04/19 14:25 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| Chlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:11 | 108-90-7 | |
| Chloroethane | **<0.49** | ug/L | 1.0 | 0.49 | 1 | | 06/15/19 19:11 | 75-00-3 | |
| Chloroform | **<0.45** | ug/L | 1.0 | 0.45 | 1 | | 06/15/19 19:11 | 67-66-3 | |
| Chloromethane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 19:11 | 74-87-3 | |
| Dibromochloromethane | **<0.46** | ug/L | 1.0 | 0.46 | 1 | | 06/15/19 19:11 | 124-48-1 | |
| Dibromomethane | **<0.39** | ug/L | 4.0 | 0.39 | 1 | | 06/15/19 19:11 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 19:11 | 75-71-8 | |
| Diethyl ether (Ethyl ether) | **<0.095** | ug/L | 4.0 | 0.095 | 1 | | 06/15/19 19:11 | 60-29-7 | |
| Ethylbenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 19:11 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.31** | ug/L | 1.0 | 0.31 | 1 | | 06/15/19 19:11 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 19:11 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 19:11 | 1634-04-4 | |
| Methylene Chloride | **<0.98** | ug/L | 4.0 | 0.98 | 1 | | 06/15/19 19:11 | 75-09-2 | |
| Naphthalene | **<0.48** | ug/L | 4.0 | 0.48 | 1 | | 06/15/19 19:11 | 91-20-3 | |
| Styrene | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 19:11 | 100-42-5 | |
| Tetrachloroethene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:11 | 127-18-4 | |
| Tetrahydrofuran | **<2.2** | ug/L | 10.0 | 2.2 | 1 | | 06/15/19 19:11 | 109-99-9 | |
| Toluene | **<0.083** | ug/L | 1.0 | 0.083 | 1 | | 06/15/19 19:11 | 108-88-3 | |
| Trichloroethene | **<0.15** | ug/L | 0.40 | 0.15 | 1 | | 06/15/19 19:11 | 79-01-6 | |
| Trichlorofluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 19:11 | 75-69-4 | |
| Vinyl chloride | **<0.092** | ug/L | 0.20 | 0.092 | 1 | | 06/15/19 19:11 | 75-01-4 | |
| Xylene (Total) | **<0.31** | ug/L | 3.0 | 0.31 | 1 | | 06/15/19 19:11 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 19:11 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.20** | ug/L | 4.0 | 0.20 | 1 | | 06/15/19 19:11 | 10061-01-5 | |
| n-Butylbenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 19:11 | 104-51-8 | |
| n-Propylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 19:11 | 103-65-1 | |
| p-Isopropyltoluene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 19:11 | 99-87-6 | |
| sec-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 19:11 | 135-98-8 | |
| tert-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 19:11 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 19:11 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.18** | ug/L | 4.0 | 0.18 | 1 | | 06/15/19 19:11 | 10061-02-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 99 | %. | 75-125 | | 1 | | 06/15/19 19:11 | 17060-07-0 | |
| Toluene-d8 (S) | 95 | %. | 75-125 | | 1 | | 06/15/19 19:11 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 | %. | 75-125 | | 1 | | 06/15/19 19:11 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-214** **Lab ID: 10477997005** Collected: 06/04/19 15:20 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| TPH as Gas | **<38.3** | ug/L | 100 | 38.3 | 1 | | 06/14/19 00:27 | | |
| ***Surrogates*** | | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 89 | %. | 50-150 | | 1 | | 06/14/19 00:27 | 98-08-8 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead | **2.3J** | ug/L | 10.0 | 2.0 | 1 | 06/10/19 14:10 | 06/12/19 11:37 | 7439-92-1 | |
| **6010D MET ICP, Dissolved** | Analytical Method: EPA 6010D Preparation Method: EPA 3010 | | | | | | | | |
| Lead, Dissolved | **2.3J** | ug/L | 10.0 | 2.0 | 1 | 06/12/19 15:57 | 06/13/19 14:43 | 7439-92-1 | |
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 19:27 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 19:27 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:27 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 19:27 | 79-00-5 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.47** | ug/L | 1.0 | 0.47 | 1 | | 06/15/19 19:27 | 76-13-1 | |
| 1,1-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:27 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 19:27 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 19:27 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 19:27 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 06/15/19 19:27 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 19:27 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 06/15/19 19:27 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<1.7** | ug/L | 4.0 | 1.7 | 1 | | 06/15/19 19:27 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 19:27 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 19:27 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 19:27 | 107-06-2 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 19:27 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 06/15/19 19:27 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 19:27 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:27 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:27 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.17** | ug/L | 4.0 | 0.17 | 1 | | 06/15/19 19:27 | 594-20-7 | |
| 2-Butanone (MEK) | **<0.99** | ug/L | 5.0 | 0.99 | 1 | | 06/15/19 19:27 | 78-93-3 | |
| 2-Chlorotoluene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 19:27 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 06/15/19 19:27 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.42** | ug/L | 5.0 | 0.42 | 1 | | 06/15/19 19:27 | 108-10-1 | |
| Acetone | **<9.2** | ug/L | 20.0 | 9.2 | 1 | | 06/15/19 19:27 | 67-64-1 | |
| Allyl chloride | **<0.29** | ug/L | 4.0 | 0.29 | 1 | | 06/15/19 19:27 | 107-05-1 | |
| Benzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 19:27 | 71-43-2 | |
| Bromobenzene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 06/15/19 19:27 | 108-86-1 | |
| Bromochloromethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 06/15/19 19:27 | 74-97-5 | |
| Bromodichloromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 06/15/19 19:27 | 75-27-4 | |
| Bromoform | **<0.80** | ug/L | 4.0 | 0.80 | 1 | | 06/15/19 19:27 | 75-25-2 | |
| Bromomethane | **<1.8** | ug/L | 4.0 | 1.8 | 1 | | 06/15/19 19:27 | 74-83-9 | |
| Carbon tetrachloride | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 19:27 | 56-23-5 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
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(612)607-1700

## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: MW-214** **Lab ID: 10477997005** Collected: 06/04/19 15:20 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| Chlorobenzene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:27 | 108-90-7 | |
| Chloroethane | **<0.49** | ug/L | 1.0 | 0.49 | 1 | | 06/15/19 19:27 | 75-00-3 | |
| Chloroform | **<0.45** | ug/L | 1.0 | 0.45 | 1 | | 06/15/19 19:27 | 67-66-3 | |
| Chloromethane | **<0.16** | ug/L | 4.0 | 0.16 | 1 | | 06/15/19 19:27 | 74-87-3 | |
| Dibromochloromethane | **<0.46** | ug/L | 1.0 | 0.46 | 1 | | 06/15/19 19:27 | 124-48-1 | |
| Dibromomethane | **<0.39** | ug/L | 4.0 | 0.39 | 1 | | 06/15/19 19:27 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 19:27 | 75-71-8 | |
| Diethyl ether (Ethyl ether) | **<0.095** | ug/L | 4.0 | 0.095 | 1 | | 06/15/19 19:27 | 60-29-7 | |
| Ethylbenzene | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 06/15/19 19:27 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.31** | ug/L | 1.0 | 0.31 | 1 | | 06/15/19 19:27 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 06/15/19 19:27 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 06/15/19 19:27 | 1634-04-4 | |
| Methylene Chloride | **<0.98** | ug/L | 4.0 | 0.98 | 1 | | 06/15/19 19:27 | 75-09-2 | |
| Naphthalene | **<0.48** | ug/L | 4.0 | 0.48 | 1 | | 06/15/19 19:27 | 91-20-3 | |
| Styrene | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 06/15/19 19:27 | 100-42-5 | |
| Tetrachloroethene | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 06/15/19 19:27 | 127-18-4 | |
| Tetrahydrofuran | **<2.2** | ug/L | 10.0 | 2.2 | 1 | | 06/15/19 19:27 | 109-99-9 | |
| Toluene | **<0.083** | ug/L | 1.0 | 0.083 | 1 | | 06/15/19 19:27 | 108-88-3 | |
| Trichloroethene | **<0.15** | ug/L | 0.40 | 0.15 | 1 | | 06/15/19 19:27 | 79-01-6 | |
| Trichlorofluoromethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 06/15/19 19:27 | 75-69-4 | |
| Vinyl chloride | **<0.092** | ug/L | 0.20 | 0.092 | 1 | | 06/15/19 19:27 | 75-01-4 | |
| Xylene (Total) | **<0.31** | ug/L | 3.0 | 0.31 | 1 | | 06/15/19 19:27 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 19:27 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.20** | ug/L | 4.0 | 0.20 | 1 | | 06/15/19 19:27 | 10061-01-5 | |
| n-Butylbenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 19:27 | 104-51-8 | |
| n-Propylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 19:27 | 103-65-1 | |
| p-Isopropyltoluene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 19:27 | 99-87-6 | |
| sec-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 19:27 | 135-98-8 | |
| tert-Butylbenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 06/15/19 19:27 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 06/15/19 19:27 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.18** | ug/L | 4.0 | 0.18 | 1 | | 06/15/19 19:27 | 10061-02-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 99 | %. | 75-125 | | 1 | | 06/15/19 19:27 | 17060-07-0 | |
| Toluene-d8 (S) | 95 | %. | 75-125 | | 1 | | 06/15/19 19:27 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | %. | 75-125 | | 1 | | 06/15/19 19:27 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
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## ANALYTICAL RESULTS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

**Sample: Trip Blank** **Lab ID: 10477997006** Collected: 06/04/19 17:00 Received: 06/06/19 07:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260B VOC** | Analytical Method: EPA 8260B | | | | | | | | |
| Benzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 06/15/19 16:06 | 71-43-2 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 99 | %. | 75-125 | | 1 | | 06/15/19 16:06 | 17060-07-0 | |
| Toluene-d8 (S) | 96 | %. | 75-125 | | 1 | | 06/15/19 16:06 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 103 | %. | 75-125 | | 1 | | 06/15/19 16:06 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
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## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

QC Batch: 612820 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005

METHOD BLANK: 3311177 Matrix: Water
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| TPH as Gas | ug/L | <38.3 | 100 | 38.3 | 06/13/19 19:58 | |
| a,a,a-Trifluorotoluene (S) | %. | 95 | 50-150 | | 06/13/19 19:58 | |

METHOD BLANK: 3311178 Matrix: Water
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| TPH as Gas | ug/L | <38.3 | 100 | 38.3 | 06/13/19 20:15 | |
| a,a,a-Trifluorotoluene (S) | %. | 98 | 50-150 | | 06/13/19 20:15 | |

LABORATORY CONTROL SAMPLE & LCSD: 3311179 3311180

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gas | ug/L | 1000 | 1040 | 1020 | 104 | 102 | 75-125 | 2 | 20 | |
| a,a,a-Trifluorotoluene (S) | %. | | | | 110 | 104 | 50-150 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3314127 3314128

| Parameter | Units | 10478684002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gas | ug/L | ND | 1000 | 1000 | 1040 | 1090 | 104 | 109 | 75-125 | 5 | 30 | |
| a,a,a-Trifluorotoluene (S) | %. | | | | | | 103 | 105 | 50-150 | | | |

SAMPLE DUPLICATE: 3314126

| Parameter | Units | 10478576006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| TPH as Gas | ug/L | <38.3 | <38.3 | | 30 | |
| a,a,a-Trifluorotoluene (S) | %. | 88 | 98 | | | |

SAMPLE DUPLICATE: 3314129

| Parameter | Units | 10477997001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| TPH as Gas | ug/L | <38.3 | <38.3 | | 30 | |

**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 - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

SAMPLE DUPLICATE: 3314129

| Parameter | Units | 10477997001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene (S) | %. | 90 | 93 | | | |

**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**
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(612)607-1700

## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

QC Batch: 611569 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010 Analysis Description: 6010D Water
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005

METHOD BLANK: 3304540 Matrix: Water
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Lead | ug/L | <2.0 | 10.0 | 2.0 | 06/12/19 11:03 | |

LABORATORY CONTROL SAMPLE: 3304541

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Lead | ug/L | 1000 | 1030 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3304542 3304543

| Parameter | Units | 10478098001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | ug/L | 98.7 | 1000 | 1000 | 1070 | 1060 | 97 | 96 | 75-125 | 1 | 20 | |

**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 - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

QC Batch: 612401 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010 Analysis Description: 6010D Water Dissolved
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005

METHOD BLANK: 3308865 Matrix: Water
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Lead, Dissolved | ug/L | <2.0 | 10.0 | 2.0 | 06/13/19 13:59 | |

LABORATORY CONTROL SAMPLE: 3308866

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Lead, Dissolved | ug/L | 1000 | 949 | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3308867 3308868

| Parameter | Units | 10478338001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Dissolved | ug/L | <2.0 | 1000 | 1000 | 950 | 960 | 95 | 96 | 75-125 | 1 | 20 | |

**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

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(612)607-1700

## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

QC Batch: 613151 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005, 10477997006

METHOD BLANK: 3313524 Matrix: Water
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005, 10477997006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.20 | 1.0 | 0.20 | 06/15/19 14:43 | |
| 1,1,1-Trichloroethane | ug/L | <0.14 | 1.0 | 0.14 | 06/15/19 14:43 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.17 | 1.0 | 0.17 | 06/15/19 14:43 | |
| 1,1,2-Trichloroethane | ug/L | <0.18 | 1.0 | 0.18 | 06/15/19 14:43 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | <0.47 | 1.0 | 0.47 | 06/15/19 14:43 | |
| 1,1-Dichloroethane | ug/L | <0.17 | 1.0 | 0.17 | 06/15/19 14:43 | |
| 1,1-Dichloroethene | ug/L | <0.16 | 1.0 | 0.16 | 06/15/19 14:43 | |
| 1,1-Dichloropropene | ug/L | <0.20 | 1.0 | 0.20 | 06/15/19 14:43 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.21 | 1.0 | 0.21 | 06/15/19 14:43 | |
| 1,2,3-Trichloropropane | ug/L | <0.26 | 4.0 | 0.26 | 06/15/19 14:43 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.20 | 1.0 | 0.20 | 06/15/19 14:43 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.20 | 1.0 | 0.20 | 06/15/19 14:43 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.7 | 4.0 | 1.7 | 06/15/19 14:43 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.24 | 1.0 | 0.24 | 06/15/19 14:43 | |
| 1,2-Dichlorobenzene | ug/L | <0.14 | 1.0 | 0.14 | 06/15/19 14:43 | |
| 1,2-Dichloroethane | ug/L | <0.22 | 1.0 | 0.22 | 06/15/19 14:43 | |
| 1,2-Dichloropropane | ug/L | <0.16 | 4.0 | 0.16 | 06/15/19 14:43 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.12 | 1.0 | 0.12 | 06/15/19 14:43 | |
| 1,3-Dichlorobenzene | ug/L | <0.16 | 1.0 | 0.16 | 06/15/19 14:43 | |
| 1,3-Dichloropropane | ug/L | <0.17 | 1.0 | 0.17 | 06/15/19 14:43 | |
| 1,4-Dichlorobenzene | ug/L | <0.17 | 1.0 | 0.17 | 06/15/19 14:43 | |
| 2,2-Dichloropropane | ug/L | <0.17 | 4.0 | 0.17 | 06/15/19 14:43 | |
| 2-Butanone (MEK) | ug/L | <0.99 | 5.0 | 0.99 | 06/15/19 14:43 | |
| 2-Chlorotoluene | ug/L | <0.16 | 1.0 | 0.16 | 06/15/19 14:43 | |
| 4-Chlorotoluene | ug/L | <0.13 | 1.0 | 0.13 | 06/15/19 14:43 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <0.42 | 5.0 | 0.42 | 06/15/19 14:43 | |
| Acetone | ug/L | <9.2 | 20.0 | 9.2 | 06/15/19 14:43 | |
| Allyl chloride | ug/L | <0.29 | 4.0 | 0.29 | 06/15/19 14:43 | |
| Benzene | ug/L | <0.10 | 1.0 | 0.10 | 06/15/19 14:43 | |
| Bromobenzene | ug/L | <0.21 | 1.0 | 0.21 | 06/15/19 14:43 | |
| Bromochloromethane | ug/L | <0.27 | 1.0 | 0.27 | 06/15/19 14:43 | |
| Bromodichloromethane | ug/L | <0.22 | 1.0 | 0.22 | 06/15/19 14:43 | |
| Bromoform | ug/L | <0.80 | 4.0 | 0.80 | 06/15/19 14:43 | |
| Bromomethane | ug/L | <1.8 | 4.0 | 1.8 | 06/15/19 14:43 | |
| Carbon tetrachloride | ug/L | <0.19 | 1.0 | 0.19 | 06/15/19 14:43 | |
| Chlorobenzene | ug/L | <0.17 | 1.0 | 0.17 | 06/15/19 14:43 | |
| Chloroethane | ug/L | <0.49 | 1.0 | 0.49 | 06/15/19 14:43 | |
| Chloroform | ug/L | <0.45 | 1.0 | 0.45 | 06/15/19 14:43 | |
| Chloromethane | ug/L | <0.16 | 4.0 | 0.16 | 06/15/19 14:43 | |
| cis-1,2-Dichloroethene | ug/L | <0.15 | 1.0 | 0.15 | 06/15/19 14:43 | |
| cis-1,3-Dichloropropene | ug/L | <0.20 | 4.0 | 0.20 | 06/15/19 14:43 | |

**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 - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

METHOD BLANK: 3313524 Matrix: Water
Associated Lab Samples: 10477997001, 10477997002, 10477997003, 10477997004, 10477997005, 10477997006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Dibromochloromethane | ug/L | <0.46 | 1.0 | 0.46 | 06/15/19 14:43 | |
| Dibromomethane | ug/L | <0.39 | 4.0 | 0.39 | 06/15/19 14:43 | |
| Dichlorodifluoromethane | ug/L | <0.23 | 1.0 | 0.23 | 06/15/19 14:43 | |
| Diethyl ether (Ethyl ether) | ug/L | <0.095 | 4.0 | 0.095 | 06/15/19 14:43 | |
| Ethylbenzene | ug/L | <0.14 | 1.0 | 0.14 | 06/15/19 14:43 | |
| Hexachloro-1,3-butadiene | ug/L | 0.77J | 1.0 | 0.31 | 06/15/19 14:43 | |
| Isopropylbenzene (Cumene) | ug/L | <0.18 | 1.0 | 0.18 | 06/15/19 14:43 | |
| Methyl-tert-butyl ether | ug/L | <0.16 | 1.0 | 0.16 | 06/15/19 14:43 | |
| Methylene Chloride | ug/L | <0.98 | 4.0 | 0.98 | 06/15/19 14:43 | |
| n-Butylbenzene | ug/L | <0.24 | 1.0 | 0.24 | 06/15/19 14:43 | |
| n-Propylbenzene | ug/L | <0.10 | 1.0 | 0.10 | 06/15/19 14:43 | |
| Naphthalene | ug/L | <0.48 | 4.0 | 0.48 | 06/15/19 14:43 | |
| p-Isopropyltoluene | ug/L | <0.15 | 1.0 | 0.15 | 06/15/19 14:43 | |
| sec-Butylbenzene | ug/L | <0.15 | 1.0 | 0.15 | 06/15/19 14:43 | |
| Styrene | ug/L | <0.19 | 1.0 | 0.19 | 06/15/19 14:43 | |
| tert-Butylbenzene | ug/L | <0.15 | 1.0 | 0.15 | 06/15/19 14:43 | |
| Tetrachloroethene | ug/L | <0.17 | 1.0 | 0.17 | 06/15/19 14:43 | |
| Tetrahydrofuran | ug/L | <2.2 | 10.0 | 2.2 | 06/15/19 14:43 | |
| Toluene | ug/L | <0.083 | 1.0 | 0.083 | 06/15/19 14:43 | |
| trans-1,2-Dichloroethene | ug/L | <0.24 | 1.0 | 0.24 | 06/15/19 14:43 | |
| trans-1,3-Dichloropropene | ug/L | <0.18 | 4.0 | 0.18 | 06/15/19 14:43 | |
| Trichloroethene | ug/L | <0.15 | 0.40 | 0.15 | 06/15/19 14:43 | |
| Trichlorofluoromethane | ug/L | <0.23 | 1.0 | 0.23 | 06/15/19 14:43 | |
| Vinyl chloride | ug/L | <0.092 | 0.20 | 0.092 | 06/15/19 14:43 | |
| Xylene (Total) | ug/L | <0.31 | 3.0 | 0.31 | 06/15/19 14:43 | |
| 1,2-Dichloroethane-d4 (S) | %. | 101 | 75-125 | | 06/15/19 14:43 | |
| 4-Bromofluorobenzene (S) | %. | 102 | 75-125 | | 06/15/19 14:43 | |
| Toluene-d8 (S) | %. | 95 | 75-125 | | 06/15/19 14:43 | |

LABORATORY CONTROL SAMPLE: 3313525

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 20.9 | 105 | 75-125 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 22.1 | 111 | 75-125 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 20.7 | 104 | 71-128 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 22.9 | 115 | 75-125 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | 20 | 22.2 | 111 | 73-125 | |
| 1,1-Dichloroethane | ug/L | 20 | 22.3 | 111 | 75-125 | |
| 1,1-Dichloroethene | ug/L | 20 | 23.4 | 117 | 69-125 | |
| 1,1-Dichloropropene | ug/L | 20 | 23.0 | 115 | 73-125 | |
| 1,2,3-Trichlorobenzene | ug/L | 20 | 21.8 | 109 | 70-129 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 21.3 | 106 | 75-125 | |
| 1,2,4-Trichlorobenzene | ug/L | 20 | 21.9 | 109 | 71-126 | |
| 1,2,4-Trimethylbenzene | ug/L | 20 | 21.9 | 109 | 73-127 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

LABORATORY CONTROL SAMPLE: 3313525

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 47.8 | 96 | 66-127 | |
| 1,2-Dibromoethane (EDB) | ug/L | 20 | 22.8 | 114 | 75-125 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 21.8 | 109 | 75-125 | |
| 1,2-Dichloroethane | ug/L | 20 | 21.7 | 109 | 71-125 | |
| 1,2-Dichloropropane | ug/L | 20 | 23.8 | 119 | 72-125 | |
| 1,3,5-Trimethylbenzene | ug/L | 20 | 21.7 | 109 | 75-125 | |
| 1,3-Dichlorobenzene | ug/L | 20 | 21.7 | 109 | 75-125 | |
| 1,3-Dichloropropane | ug/L | 20 | 22.5 | 112 | 75-125 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 21.6 | 108 | 75-125 | |
| 2,2-Dichloropropane | ug/L | 20 | 23.3 | 116 | 65-127 | |
| 2-Butanone (MEK) | ug/L | 100 | 95.4 | 95 | 74-125 | |
| 2-Chlorotoluene | ug/L | 20 | 21.6 | 108 | 74-125 | |
| 4-Chlorotoluene | ug/L | 20 | 22.5 | 113 | 75-125 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 101 | 101 | 75-132 | |
| Acetone | ug/L | 100 | 75.0 | 75 | 30-150 | |
| Allyl chloride | ug/L | 20 | 22.0 | 110 | 75-125 | |
| Benzene | ug/L | 20 | 22.3 | 111 | 75-125 | |
| Bromobenzene | ug/L | 20 | 23.3 | 116 | 75-125 | |
| Bromochloromethane | ug/L | 20 | 22.5 | 112 | 74-126 | |
| Bromodichloromethane | ug/L | 20 | 21.9 | 110 | 75-125 | |
| Bromoform | ug/L | 20 | 21.8 | 109 | 74-125 | |
| Bromomethane | ug/L | 20 | 19.0 | 95 | 30-150 | |
| Carbon tetrachloride | ug/L | 20 | 22.5 | 112 | 70-125 | |
| Chlorobenzene | ug/L | 20 | 21.6 | 108 | 75-125 | |
| Chloroethane | ug/L | 20 | 19.0 | 95 | 64-129 | |
| Chloroform | ug/L | 20 | 21.2 | 106 | 75-125 | |
| Chloromethane | ug/L | 20 | 23.3 | 116 | 67-125 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 22.1 | 110 | 73-125 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 22.3 | 111 | 75-125 | |
| Dibromochloromethane | ug/L | 20 | 21.5 | 107 | 75-125 | |
| Dibromomethane | ug/L | 20 | 23.7 | 118 | 75-125 | |
| Dichlorodifluoromethane | ug/L | 20 | 20.6 | 103 | 65-129 | |
| Diethyl ether (Ethyl ether) | ug/L | 20 | 21.9 | 109 | 74-125 | |
| Ethylbenzene | ug/L | 20 | 23.1 | 115 | 75-125 | |
| Hexachloro-1,3-butadiene | ug/L | 20 | 25.0 | 125 | 66-137 | |
| Isopropylbenzene (Cumene) | ug/L | 20 | 22.1 | 110 | 75-125 | |
| Methyl-tert-butyl ether | ug/L | 20 | 21.7 | 108 | 75-125 | |
| Methylene Chloride | ug/L | 20 | 21.3 | 107 | 72-125 | |
| n-Butylbenzene | ug/L | 20 | 21.8 | 109 | 69-132 | |
| n-Propylbenzene | ug/L | 20 | 22.5 | 112 | 74-125 | |
| Naphthalene | ug/L | 20 | 20.5 | 103 | 63-125 | |
| p-Isopropyltoluene | ug/L | 20 | 22.2 | 111 | 75-125 | |
| sec-Butylbenzene | ug/L | 20 | 21.8 | 109 | 75-125 | |
| Styrene | ug/L | 20 | 23.2 | 116 | 75-125 | |
| tert-Butylbenzene | ug/L | 20 | 21.9 | 109 | 75-125 | |
| Tetrachloroethene | ug/L | 20 | 23.1 | 116 | 75-125 | |
| Tetrahydrofuran | ug/L | 200 | 177 | 88 | 30-150 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

LABORATORY CONTROL SAMPLE: 3313525

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Toluene | ug/L | 20 | 21.5 | 107 | 75-125 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 22.0 | 110 | 70-125 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 21.5 | 107 | 75-125 | |
| Trichloroethene | ug/L | 20 | 23.1 | 115 | 74-125 | |
| Trichlorofluoromethane | ug/L | 20 | 19.7 | 99 | 74-125 | |
| Vinyl chloride | ug/L | 20 | 20.9 | 105 | 71-125 | |
| Xylene (Total) | ug/L | 60 | 70.3 | 117 | 75-125 | |
| 1,2-Dichloroethane-d4 (S) | %. | | | 101 | 75-125 | |
| 4-Bromofluorobenzene (S) | %. | | | 103 | 75-125 | |
| Toluene-d8 (S) | %. | | | 100 | 75-125 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3313534 3313535

| Parameter | Units | 10477997001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.20 | 20 | 20 | 19.3 | 20.4 | 97 | 102 | 30-150 | 5 | 30 | |
| 1,1,1-Trichloroethane | ug/L | <0.14 | 20 | 20 | 23.8 | 24.6 | 119 | 123 | 30-150 | 3 | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.17 | 20 | 20 | 19.7 | 21.6 | 98 | 108 | 30-150 | 9 | 30 | |
| 1,1,2-Trichloroethane | ug/L | <0.18 | 20 | 20 | 20.8 | 22.3 | 104 | 111 | 30-150 | 7 | 30 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | <0.47 | 20 | 20 | 25.1 | 25.3 | 125 | 126 | 30-150 | 1 | 30 | |
| 1,1-Dichloroethane | ug/L | <0.17 | 20 | 20 | 23.4 | 23.9 | 117 | 120 | 30-150 | 2 | 30 | |
| 1,1-Dichloroethene | ug/L | <0.16 | 20 | 20 | 26.4 | 26.6 | 132 | 133 | 30-150 | 1 | 30 | |
| 1,1-Dichloropropene | ug/L | <0.20 | 20 | 20 | 24.4 | 25.7 | 122 | 129 | 30-150 | 5 | 30 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.21 | 20 | 20 | 22.1 | 25.5 | 110 | 127 | 30-150 | 14 | 30 | |
| 1,2,3-Trichloropropane | ug/L | <0.26 | 20 | 20 | 20.4 | 21.9 | 102 | 109 | 30-150 | 7 | 30 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.20 | 20 | 20 | 21.7 | 25.8 | 109 | 129 | 30-150 | 17 | 30 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.20 | 20 | 20 | 21.3 | 24.3 | 107 | 122 | 30-150 | 13 | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.7 | 50 | 50 | 47.0 | 49.5 | 94 | 99 | 30-150 | 5 | 30 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.24 | 20 | 20 | 21.1 | 22.0 | 105 | 110 | 30-150 | 4 | 30 | |
| 1,2-Dichlorobenzene | ug/L | <0.14 | 20 | 20 | 20.3 | 23.4 | 102 | 117 | 30-150 | 14 | 30 | |
| 1,2-Dichloroethane | ug/L | <0.22 | 20 | 20 | 21.4 | 22.6 | 107 | 113 | 30-150 | 5 | 30 | |
| 1,2-Dichloropropane | ug/L | <0.16 | 20 | 20 | 23.5 | 25.0 | 118 | 125 | 30-150 | 6 | 30 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.12 | 20 | 20 | 21.9 | 25.4 | 109 | 127 | 30-150 | 15 | 30 | |
| 1,3-Dichlorobenzene | ug/L | <0.16 | 20 | 20 | 20.7 | 23.7 | 103 | 118 | 30-150 | 13 | 30 | |
| 1,3-Dichloropropane | ug/L | <0.17 | 20 | 20 | 20.5 | 22.0 | 103 | 110 | 30-150 | 7 | 30 | |
| 1,4-Dichlorobenzene | ug/L | <0.17 | 20 | 20 | 20.6 | 22.9 | 103 | 115 | 30-150 | 11 | 30 | |
| 2,2-Dichloropropane | ug/L | <0.17 | 20 | 20 | 27.4 | 27.9 | 137 | 140 | 30-150 | 2 | 30 | |
| 2-Butanone (MEK) | ug/L | <0.99 | 100 | 100 | 75.1 | 81.8 | 75 | 82 | 30-150 | 9 | 30 | |
| 2-Chlorotoluene | ug/L | <0.16 | 20 | 20 | 21.6 | 24.6 | 108 | 123 | 30-150 | 13 | 30 | |
| 4-Chlorotoluene | ug/L | <0.13 | 20 | 20 | 21.6 | 23.8 | 108 | 119 | 30-150 | 10 | 30 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <0.42 | 100 | 100 | 96.4 | 102 | 96 | 102 | 30-150 | 6 | 30 | |
| Acetone | ug/L | <9.2 | 100 | 100 | 59.6 | 64.0 | 60 | 64 | 30-150 | 7 | 30 | |
| Allyl chloride | ug/L | <0.29 | 20 | 20 | 22.9 | 23.7 | 114 | 118 | 30-147 | 3 | 30 | |

**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 - Suite 200
Minneapolis, MN 55414
(612)607-1700

## QUALITY CONTROL DATA

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3313534 3313535

| Parameter | Units | 10477997001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/L | <0.10 | 20 | 20 | 23.4 | 23.9 | 117 | 120 | 30-150 | 2 | 30 | |
| Bromobenzene | ug/L | <0.21 | 20 | 20 | 22.7 | 24.8 | 113 | 124 | 30-150 | 9 | 30 | |
| Bromochloromethane | ug/L | <0.27 | 20 | 20 | 20.2 | 22.0 | 101 | 110 | 30-150 | 9 | 30 | |
| Bromodichloromethane | ug/L | <0.22 | 20 | 20 | 21.5 | 22.6 | 108 | 113 | 30-150 | 5 | 30 | |
| Bromoform | ug/L | <0.80 | 20 | 20 | 20.0 | 21.0 | 100 | 105 | 30-150 | 5 | 30 | |
| Bromomethane | ug/L | <1.8 | 20 | 20 | 19.9 | 18.5 | 99 | 93 | 30-150 | 7 | 30 | |
| Carbon tetrachloride | ug/L | <0.19 | 20 | 20 | 24.0 | 25.8 | 120 | 129 | 30-150 | 7 | 30 | |
| Chlorobenzene | ug/L | <0.17 | 20 | 20 | 21.1 | 22.3 | 106 | 111 | 30-150 | 5 | 30 | |
| Chloroethane | ug/L | <0.49 | 20 | 20 | 22.4 | 21.5 | 112 | 108 | 30-150 | 4 | 30 | |
| Chloroform | ug/L | <0.45 | 20 | 20 | 21.1 | 21.8 | 106 | 109 | 30-150 | 3 | 30 | |
| Chloromethane | ug/L | <0.16 | 20 | 20 | 26.0 | 25.0 | 130 | 125 | 30-150 | 4 | 30 | |
| cis-1,2-Dichloroethene | ug/L | <0.15 | 20 | 20 | 23.3 | 24.2 | 116 | 121 | 30-150 | 4 | 30 | |
| cis-1,3-Dichloropropene | ug/L | <0.20 | 20 | 20 | 21.5 | 23.3 | 107 | 117 | 30-145 | 8 | 30 | |
| Dibromochloromethane | ug/L | <0.46 | 20 | 20 | 20.3 | 21.2 | 102 | 106 | 30-150 | 4 | 30 | |
| Dibromomethane | ug/L | <0.39 | 20 | 20 | 23.1 | 24.6 | 116 | 123 | 30-150 | 6 | 30 | |
| Dichlorodifluoromethane | ug/L | <0.23 | 20 | 20 | 26.0 | 24.7 | 130 | 123 | 30-150 | 5 | 30 | |
| Diethyl ether (Ethyl ether) | ug/L | <0.095 | 20 | 20 | 22.0 | 23.0 | 110 | 115 | 30-150 | 5 | 30 | |
| Ethylbenzene | ug/L | <0.14 | 20 | 20 | 23.6 | 24.9 | 118 | 124 | 30-150 | 5 | 30 | |
| Hexachloro-1,3-butadiene | ug/L | <0.31 | 20 | 20 | 30.3 | 29.8 | 151 | 149 | 30-150 | 2 | 30 | M1 |
| Isopropylbenzene (Cumene) | ug/L | 0.65J | 20 | 20 | 23.6 | 25.6 | 115 | 125 | 30-150 | 8 | 30 | |
| Methyl-tert-butyl ether | ug/L | <0.16 | 20 | 20 | 21.1 | 22.2 | 106 | 111 | 30-150 | 5 | 30 | |
| Methylene Chloride | ug/L | <0.98 | 20 | 20 | 20.7 | 22.0 | 103 | 110 | 30-146 | 6 | 30 | |
| n-Butylbenzene | ug/L | <0.24 | 20 | 20 | 23.7 | 26.9 | 118 | 134 | 30-150 | 13 | 30 | |
| n-Propylbenzene | ug/L | <0.10 | 20 | 20 | 22.8 | 25.9 | 114 | 129 | 30-150 | 13 | 30 | |
| Naphthalene | ug/L | 1.1J | 20 | 20 | 23.2 | 25.7 | 110 | 123 | 30-150 | 10 | 30 | |
| p-Isopropyltoluene | ug/L | <0.15 | 20 | 20 | 22.4 | 25.7 | 112 | 128 | 30-150 | 13 | 30 | |
| sec-Butylbenzene | ug/L | <0.15 | 20 | 20 | 23.0 | 26.6 | 115 | 133 | 30-150 | 15 | 30 | |
| Styrene | ug/L | <0.19 | 20 | 20 | 22.1 | 23.7 | 111 | 118 | 30-150 | 7 | 30 | |
| tert-Butylbenzene | ug/L | <0.15 | 20 | 20 | 22.8 | 25.5 | 114 | 128 | 30-150 | 11 | 30 | |
| Tetrachloroethene | ug/L | <0.17 | 20 | 20 | 23.4 | 24.6 | 117 | 123 | 30-150 | 5 | 30 | |
| Tetrahydrofuran | ug/L | <2.2 | 200 | 200 | 167 | 175 | 84 | 88 | 30-150 | 4 | 30 | |
| Toluene | ug/L | <0.083 | 20 | 20 | 21.6 | 22.3 | 108 | 111 | 30-150 | 3 | 30 | |
| trans-1,2-Dichloroethene | ug/L | <0.24 | 20 | 20 | 24.5 | 24.8 | 123 | 124 | 30-150 | 1 | 30 | |
| trans-1,3-Dichloropropene | ug/L | <0.18 | 20 | 20 | 20.2 | 21.3 | 101 | 107 | 30-150 | 5 | 30 | |
| Trichloroethene | ug/L | <0.15 | 20 | 20 | 24.8 | 25.9 | 124 | 129 | 30-150 | 4 | 30 | |
| Trichlorofluoromethane | ug/L | <0.23 | 20 | 20 | 25.3 | 24.1 | 126 | 120 | 30-150 | 5 | 30 | |
| Vinyl chloride | ug/L | <0.092 | 20 | 20 | 25.2 | 24.5 | 126 | 123 | 30-150 | 3 | 30 | |
| Xylene (Total) | ug/L | <0.31 | 60 | 60 | 70.2 | 74.8 | 117 | 125 | 30-150 | 6 | 30 | |
| 1,2-Dichloroethane-d4 (S) | %. | | | | | | 105 | 104 | 75-125 | | | |
| 4-Bromofluorobenzene (S) | %. | | | | | | 102 | 102 | 75-125 | | | |
| Toluene-d8 (S) | %. | | | | | | 98 | 96 | 75-125 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

# QUALIFIERS

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

## 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.

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

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-M | Pace Analytical Services - Minneapolis |

## ANALYTE QUALIFIERS

| | |
|---|---|
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |

**Pace Analytical Services, LLC**
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

## METHOD CROSS REFERENCE TABLE

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

| Parameter | Matrix | Analytical Method | Preparation Method |
|---|---|---|---|
| 8260B VOC | Water | SW-846 8260B/5030B | N/A |

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000073 P66-Westlake
Pace Project No.: 10477997

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **10477997001** | **MW-50** | NWTPH-Gx | 612820 | | |
| **10477997002** | **MW-209** | NWTPH-Gx | 612820 | | |
| **10477997003** | **MW-210** | NWTPH-Gx | 612820 | | |
| **10477997004** | **MW-213** | NWTPH-Gx | 612820 | | |
| **10477997005** | **MW-214** | NWTPH-Gx | 612820 | | |
| **10477997001** | **MW-50** | EPA 3010 | 611569 | EPA 6010D | 611981 |
| **10477997002** | **MW-209** | EPA 3010 | 611569 | EPA 6010D | 611981 |
| **10477997003** | **MW-210** | EPA 3010 | 611569 | EPA 6010D | 611981 |
| **10477997004** | **MW-213** | EPA 3010 | 611569 | EPA 6010D | 611981 |
| **10477997005** | **MW-214** | EPA 3010 | 611569 | EPA 6010D | 611981 |
| **10477997001** | **MW-50** | EPA 3010 | 612401 | EPA 6010D | 612561 |
| **10477997002** | **MW-209** | EPA 3010 | 612401 | EPA 6010D | 612561 |
| **10477997003** | **MW-210** | EPA 3010 | 612401 | EPA 6010D | 612561 |
| **10477997004** | **MW-213** | EPA 3010 | 612401 | EPA 6010D | 612561 |
| **10477997005** | **MW-214** | EPA 3010 | 612401 | EPA 6010D | 612561 |
| **10477997001** | **MW-50** | EPA 8260B | 613151 | | |
| **10477997002** | **MW-209** | EPA 8260B | 613151 | | |
| **10477997003** | **MW-210** | EPA 8260B | 613151 | | |
| **10477997004** | **MW-213** | EPA 8260B | 613151 | | |
| **10477997005** | **MW-214** | EPA 8260B | 613151 | | |
| **10477997006** | **Trip Blank** | EPA 8260B | 613151 | | |

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.

**WO# : 10477997**

10477997

1 of 1

2285852

**Section A** — Required Client Information:

| | |
|---|---|
| Company: | ATC Group Services LLC |
| Address: | 6347 Seaview Ave. NW |
| | Seattle, WA 98107 |
| Email To: | Elisabeth.Silver@atcgs.com |
| Phone: (206) 781-1499 | Fax: |
| Requested Due Date/TAT: | Standard |

**Section B** — Required Project Information:

| | |
|---|---|
| Report To: | Elisabeth Silver |
| Copy To: | |
| | |
| Purchase Order No.: | |
| Project Name: | P66 – Westlake – AOC 1396 |
| Project Number: | Z076000073 |

**Section C** — Invoice Information:

| | |
|---|---|
| Attention: | |
| Company Name: | |
| Address: | |
| Pace Quote Reference: | |
| Pace Project Manager: | |
| Pace Profile #: | 39525 12 |

☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ____

Site Location STATE: ____

**Section D** — Required Client Information

**SAMPLE ID** (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE | SAMPLE TYPE | COLLECTED COMPOSITE START DATE | COMPOSITE START TIME | COMPOSITE END/GRAB DATE | COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N: Gx | BTEX | Total Lead | Dissolved lead (field filt.) | VOCs | Benzene | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-50 | | | 06-04-19 | 1605 | | | | 8 | | | 2 | 6 | | | | | X | X | X | X | X | | | |
| 2 | MW-209 | | | 06-04-19 | 1300 | | | | 8 | | | 2 | 6 | | | | | X | X | X | X | X | | | |
| 3 | MW-210 | | | 06-04-19 | 1340 | | | | 8 | | | 2 | 6 | | | | | X | X | X | X | X | | | |
| 4 | MW-213 | | | 06-04-19 | 1425 | | | | 8 | | | 2 | 6 | | | | | X | X | X | X | X | | | |
| 5 | MW-214 | | | 06-04-19 | 1520 | | | | 8 | | | 2 | 6 | | | | | X | X | X | X | X | | | |
| 6 | TRIP BLANK | | | 06-04-19 | 17:00 | | | | 48 | | | 2 | 6 | | | | | | | | | | X | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| | B. Gault ATC | 06-05-19 | 09:35 | | 6-5-19 | 1435 | — | Y | N | Y |
| | | 6-5 | 1700 | IS-PACE | 6/6/19 | 9:40 | -0.7 | Y | Y | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aynalem Degefa

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 06-04-19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

| Pace Analytical | Document Name: Sample Condition Upon Receipt Form | Document Revised: 09May2019 Page 1 of 1 |
|---|---|---|
| | Document No.: F-MN-L-213-rev.28 | Issuing Authority: Pace Minnesota Quality Office |

**Sample Condition Upon Receipt**

**Client Name:** ATC

**Project #:** WO#: 10477997

PM: JMG **Due Date:** 06/19/19

CLIENT: ATC_WA

**Courier:** ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

**Tracking Number:** 7477 0630 3418

**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:_____ **Temp Blank?** ☒ Yes ☐ No

**Thermometer:** ☐ T1(0461) ☒ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

**Note: Each West Virginia Sample must have temp taken (no temp blanks)**

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 0.6 °C **Average Corrected Temp (no temp blank only):** °C **See Exceptions** ☐

**Correction Factor:** +0.1 **Cooler Temp Corrected w/temp blank** 0.7 °C

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

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

**Date/Initials of Person Examining Contents:** 6/6/19 IJ

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 (F-MN-Q-338) and include with SCUR/COC paperwork.**

| | | | | 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. |
| **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? | ☒ Yes | ☐ No | | 11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ |
| Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other_____ | | | | |
| All containers needing acid/base preservation have been checked? | ☒ Yes | ☐ No | ☐ N/A | 12. Sample # 1-8:7/2 |
| All containers needing preservation are found to be in compliance with EPA recommendation? ($HNO_3$, $H_2SO_4$, <2pH, NaOH >9 Sulfide, NaOH>12 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#** 203619 **See Exception** ☐ |
| | | | | Res. Chlorine \| 0-6 Roll \| 0-6 Strip \| 0-14 Strip |
| Headspace in VOA Vials (greater than 6mm)? | ☐ Yes | ☒ No | ☐ N/A | 13. **See Exception** ☐ |
| Trip Blank Present? | ☒ Yes | ☐ No | ☐ N/A | 14. Pace Trip Blank Lot # (if purchased): 211058 |
| Trip Blank Custody Seals Present? | ☒ Yes | ☐ No | ☐ N/A | |

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

Person Contacted:_____ Date/Time:_____

Comments/Resolution:_____

**Project Manager Review:** Jenni Gross **Date:** 06/06/19

Note: Whenever there is a discrepancy affecting North Carolina 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 cor...).

Labeled by: IJ

**Attachment B**

Delta Cross-Sections and Transect Map

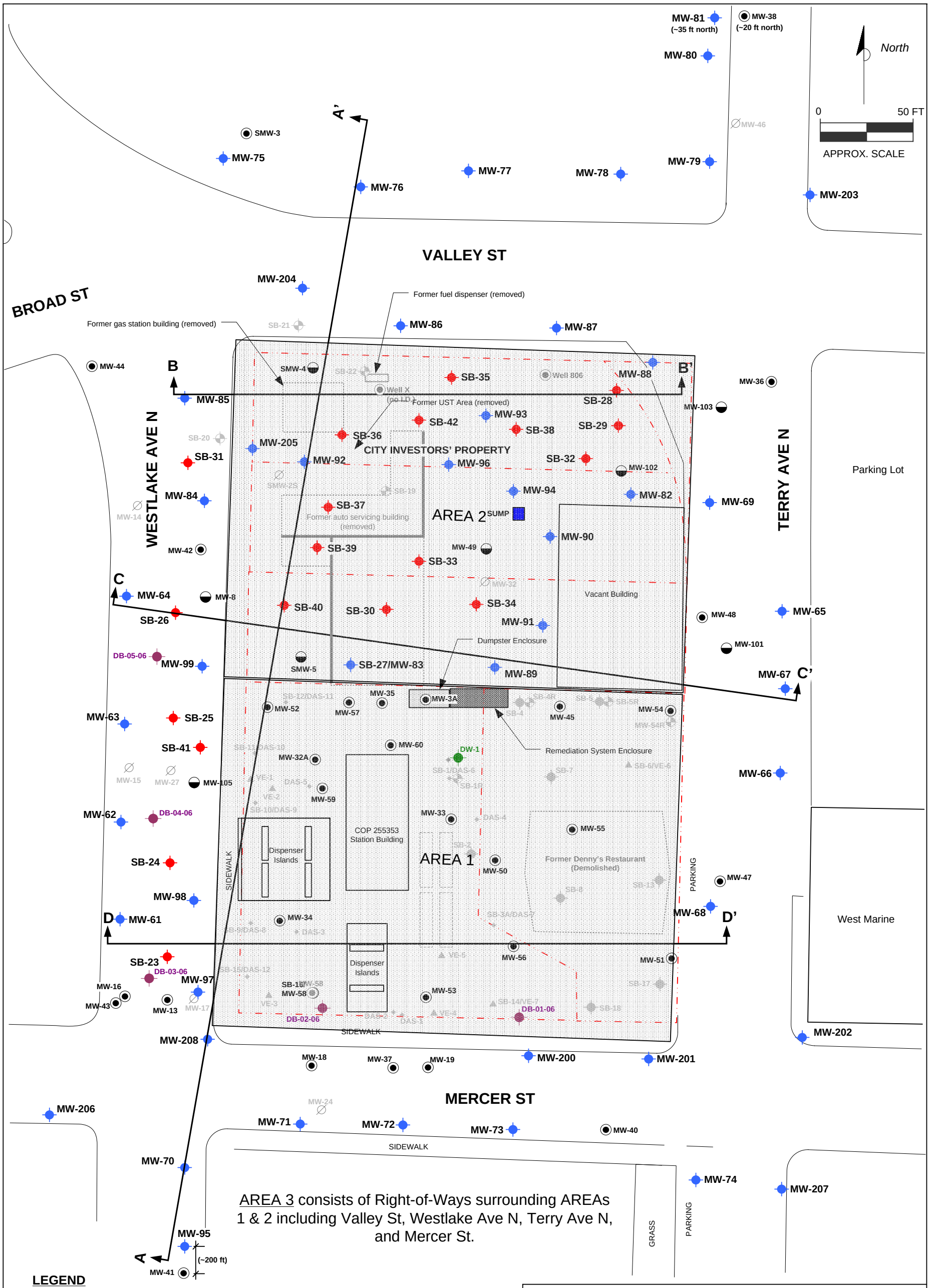



**FIGURE 2**

**SITE MAP**

**CONOCOPHILLIPS SITE NO. 255353**
**600 WESTLAKE AVENUE NORTH**
**SEATTLE, WASHINGTON**

| | |
|---|---|
| PROJECT NO. WA255-3515-1 | DRAWN BY GM 1/17/07 |
| FILE NO. WA255-3515-1 | PREPARED BY TS 10/26/05 |
| REVISION NO. 0 | REVIEWED BY EL |

Delta Environmental Consultants, Inc.

APPROXIMATE SCALE

0 50 100 FT

HORIZONTAL

VERTICAL 0 10 20 FT

ELEVATION ABOVE MEAN SEA LEVEL (feet) (N.A.V.D. 1988)

A

A'

MW-95 (offset 7.5' east)

MW-70

MW-208

SB-97 (offset 9' west)

DAS-8 (offset 13' east)

DAS-9 (offset 4' east)

DAS-10

Property Boundary

SB-40

SB-39 (offset 13' east)

MW-92

MW-204 (offset 18.5' west)

MW-76

(Valley Street)

8-inch sanitary sewer

## LEGEND

CL Clay, with or without Silt

ML Sandy Silt or Clayey Silt, with or without Gravel

SC Sand with Clay

SM Silty Sand, with or without Gravel

SW Well Graded Sand, with or without Gravel

SP Poorly Graded Sand, with or without Gravel

Interpolated extent of soil with TPH-G concentrations that exceed MTCA Method A cleanup levels

Approximate First Encountered Groundwater Level

Well Screen

Boring Depth

Monitoring Well

Soil Boring

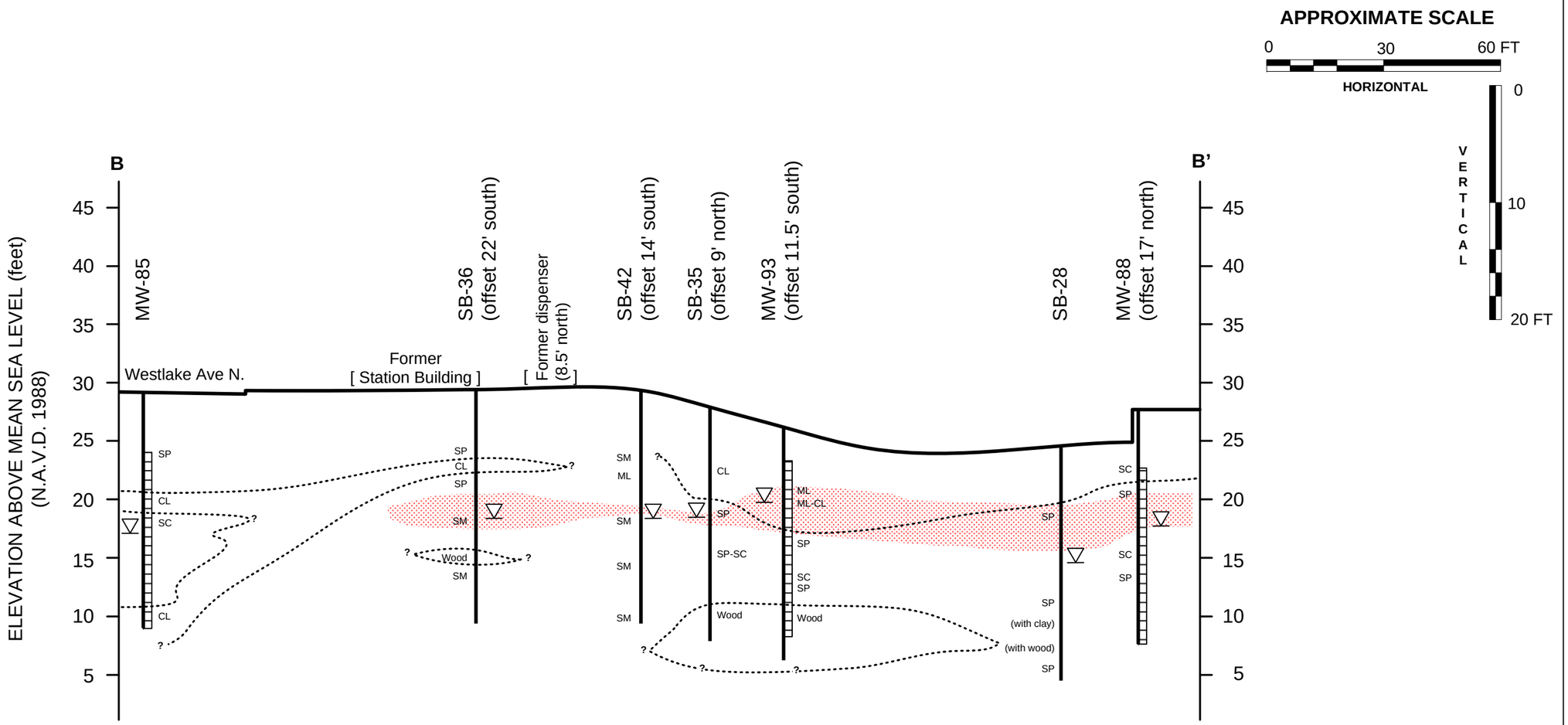
**FIGURE 3**

**GENERALIZED GEOLOGIC CROSS-SECTION A-A'**

**CONOCOPHILLIPS SITE NO. 255353**
**600 WESTLAKE AVENUE NORTH**
**SEATTLE, WASHINGTON**

| | |
|---|---|
| PROJECT NO. WA255-3515-1 | DRAWN BY TS 11/21/05 |
| FILE NO. WA255-3515-1 | PREPARED BY TS 11/30/05 |
| REVISION NO. 0 | REVIEWED BY EL |

Delta Environmental Consultants, Inc.




## LEGEND

| | |
|---|---|
| CL | Clay, with or without Silt |
| ML | Sandy Silt or Clayey Silt, with or without Gravel |
| SC | Sand with Clay |
| SM | Silty Sand, with or without Gravel |
| SW | Well Graded Sand, with or without Gravel |
| SP | Poorly Graded Sand, with or without Gravel |

Interpolated extent of soil with TPH-G concentrations that exceed MTCA Method A cleanup levels

Approximate First Encountered Groundwater Level

Well Screen
Boring Depth

Monitoring Well

Soil Boring

**FIGURE 4**

**GENERALIZED GEOLOGIC CROSS-SECTION B-B'**

**CONOCOPHILLIPS SITE NO. 255353**
**600 WESTLAKE AVENUE NORTH**
**SEATTLE, WASHINGTON**

| | |
|---|---|
| PROJECT NO. WA255-3515-1 | DRAWN BY TS 11/21/05 |
| FILE NO. WA255-3515-1 | PREPARED BY TS 11/30/05 |
| REVISION NO. 0 | REVIEWED BY EL |

Delta Environmental Consultants, Inc.

APPROXIMATE SCALE

0 30 60 FT

HORIZONTAL

VERTICAL 0 10 20 FT

C C'

ELEVATION ABOVE MEAN SEA LEVEL (feet) (N.A.V.D. 1988)

45 40 35 30 25 20 15 10 5

MW-64 (offset 5.5' north)
SB-26
SB-40 (offset 12.5' north)
SB-27/MW-83 (offset 14.5' south)
SB-30 (offset 18' north)
MW-89 (offset 5' south)
MW-91 (offset 21.5' north)
MW-54 (offset 15' south)
MW-67 (offset 5' north)

(Westlake Avenue N.)

(Offset line, south)

Vacant Warehouse Bldg

SC
SP (with wood)
(with wood)
SM (with wood)
ML
(ML-CL)
SM
ML (with wood)
SW
(with wood)
SP
CL
Wood (with sand)
Wood
Wood
SM
SW-SM
Wood (with sand)
ML (with wood)
ML
SM
ML (with wood)
SM (with wood)
Wood
Wood
Wood
SM (some wood)
Wood
Wood
CL
SM
SP
SP (with wood)
ML (with wood)
SM
SP (with wood)
Wood
SM
SP
CL
SP
GP
Wood
SP

12-inch sewer line

8-inch concrete sewer pipe

## LEGEND

| | |
|---|---|
| CL | Clay, with or without Silt |
| ML | Sandy Silt or Clayey Silt, with or without Gravel |
| SC | Sand with Clay |
| SM | Silty Sand, with or without Gravel |
| SW | Well Graded Sand, with or without Gravel |
| SP | Poorly Graded Sand, with or without Gravel |

Interpolated extent of soil with TPH-G concentrations that exceed MTCA Method A cleanup levels

Approximate First Encountered Groundwater Level

Well Screen
Boring Depth
Monitoring Well

Soil Boring

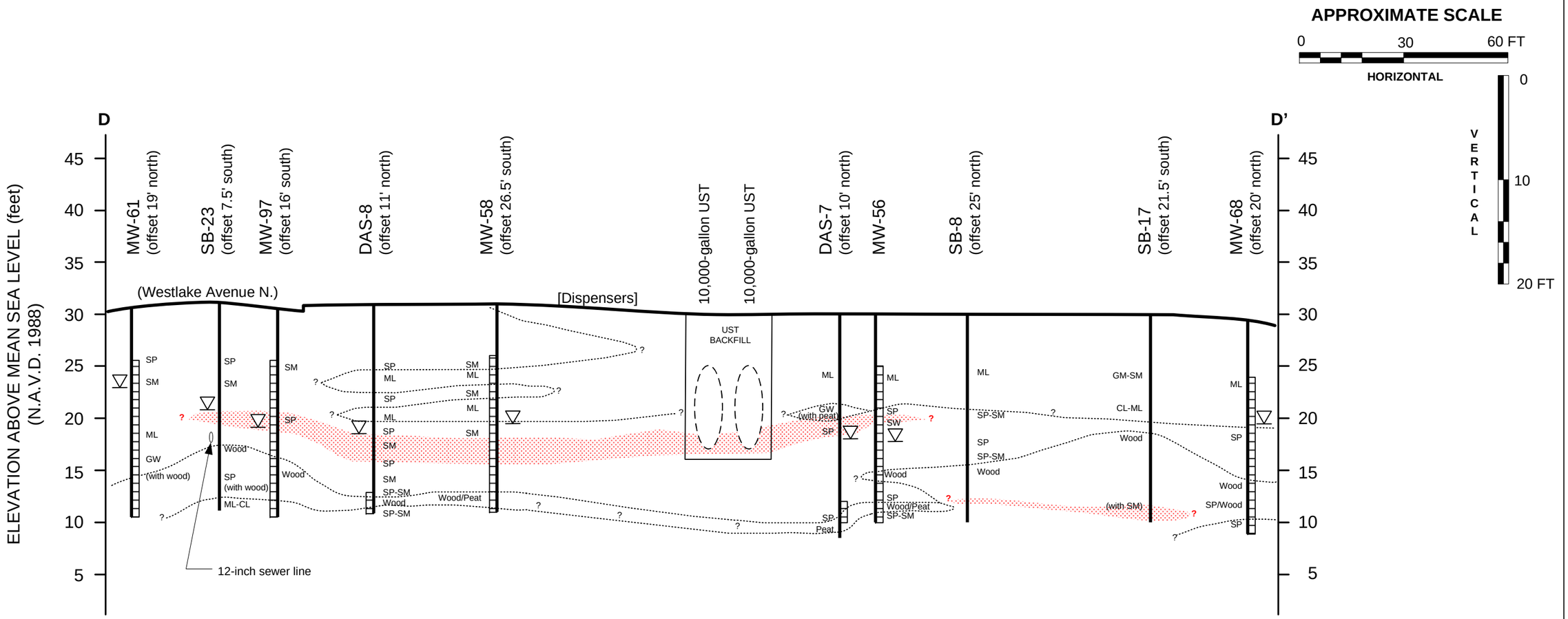
**FIGURE 5**

**GENERALIZED GEOLOGIC CROSS-SECTION C-C'**

**CONOCOPHILLIPS SITE NO. 255353**
**600 WESTLAKE AVENUE NORTH**
**SEATTLE, WASHINGTON**

| | |
|---|---|
| PROJECT NO. WA255-3515-1 | DRAWN BY TS 11/21/05 |
| FILE NO. WA255-3515-1 | PREPARED BY TS 11/30/05 |
| REVISION NO. 0 | REVIEWED BY EL |

Delta Environmental Consultants, Inc.




## LEGEND

| | |
|---|---|
| CL | Clay, with or without Silt |
| ML | Sandy Silt or Clayey Silt, with or without Gravel |
| SC | Sand with Clay |
| SM | Silty Sand, with or without Gravel |
| SW | Well Graded Sand, with or without Gravel |
| SP | Poorly Graded Sand, with or without Gravel |

Interpolated extent of soil with TPH-G concentrations that exceed MTCA Method A cleanup levels

Approximate First Encountered Groundwater Level

Well Screen
Boring Depth
Monitoring Well

Soil Boring

**FIGURE 6**

**GENERALIZED GEOLOGIC CROSS-SECTION D-D'**

**CONOCOPHILLIPS SITE NO. 255353**
**600 WESTLAKE AVENUE NORTH**
**SEATTLE, WASHINGTON**

| | |
|---|---|
| PROJECT NO. WA255-3515-1 | DRAWN BY TS 11/22/05 |
| FILE NO. WA255-3515-1 | PREPARED BY TS 11/30/05 |
| REVISION NO. 0 | REVIEWED BY EL |

Delta Environmental Consultants, Inc.