



Transmittal

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2021 Annual Compliance Monitoring Report

**Shell Harbor Island Terminal
2555, 1835, 1711 13th Avenue Southwest
Seattle, Washington**

PlaNNet Site ID MIGUS357032

PlaNNet Project ID 86013

Consent Decree No. 99 2 07176 0SEA

Equilon Enterprises LLC dba Shell Oil Products US

February 15, 2022

→ The Power of Commitment

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1. Introduction

GHD Services, Inc. (GHD) is submitting this *2021 Annual Compliance Monitoring Report* on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) for the Shell Distribution Terminal on Harbor Island in Seattle, Washington (Site, Figure 1). The Site is comprised of three parcels located at 2555, 1835, and 1711 13th Avenue Southwest, designated as the Main Tank Farm, North Tank Farm, and Shoreline Manifold Area, respectively (Figure 2). Three groundwater monitoring and cleanup areas are associated with the parcels:

- The TX-03 Area, encompassing the North Tank Farm and the northern portion of the Main Tank Farm.
- The SH-04 Area overlapping the southeastern portion of the Main Tank Farm.
- The Shoreline Manifold Area.

Compliance monitoring activities described in this report are performed under the October 1998 Equilon Seattle Terminal MTCA Consent Decree No. 99 2-07 176 SEA (Consent Decree) with the Washington State Department of Ecology (Ecology, 1998). The information presented herein is based on data collected during the monitoring period of January through December 2021.

1.1 Summary of Cleanup Actions

Cleanup actions were performed in compliance with the Consent Decree, which provides Site-specific cleanup levels for total petroleum hydrocarbons (TPH), lead, and arsenic in soils, and for TPH, select metals, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) in groundwater. The Site-specific cleanup levels applicable to this report are summarized in Table 1. The Site-specific soil cleanup levels are included in the summary of cleanup actions discussed below.

The primary cleanup action at the Site included excavation of near surface lead and arsenic impacted soil in areas throughout the Main Tank Farm which was conducted from December 2003 through February 2004. Lead- and arsenic-impacted surface soils with concentrations above the soil cleanup levels of 1,000 milligrams per kilogram (mg/kg) and 32 mg/kg, respectively, were removed. In addition, a small area of lead-impacted soil near the oil-water separator (OWS) in the Main Tank Farm was excavated in October 2001; however, some lead impacted soils were left in place due to structural constraints. A 3-inch cap was placed over the lead impacted subsurface soil in the area around the OWS.

Between November 2001 and October 2009, TPH-impacted surface and subsurface hotspots with concentrations greater than 10,000 mg/kg, the shoreline soil cleanup level, were removed from the Shoreline Manifold Area. Additional impacted soils with TPH concentrations greater than 20,000 mg/kg, the inland soil cleanup level, were removed near a former underground storage tank (UST) in October 2001, and in the Main Tank Farm in February 2004 and 2007.

A free product and vapor extraction system was installed in the Shoreline Manifold Area in 1996. The vapor extraction system operated until August 2005 when it was shut down because the hydrocarbon recovery through vapor extraction had declined. Passive free product recovery occurred in the Shoreline Manifold Area at monitoring well MW-211 through 2010 and in monitoring wells MW-210 and MW-212 through 2011. Vacuum purging was conducted on a quarterly basis in monitoring wells MW-210 and MW-212 in 2012.

On September 10, 2013, less than three barrels of diesel product were released in the Shoreline Manifold Area during an "in line" inspection of the dock lines. Approximately 2.4 barrels of free-standing product were recovered immediately by vacuum truck and the use of sorbent pads. Additionally, approximately 8 to 10 cubic yards of soil were removed. Confirmation soil samples collected from the excavated area were below the shoreline soil cleanup level of 10,000 mg/kg. Field observations indicated that surface water and the stormwater system were not impacted by the release (URS, 2014). Pooled diesel product was observed surrounding monitoring well MW-212 following the release. The product was removed using a vacuum truck and subsequent monitoring did not detect product. At the request of

Ecology, sorbent socks were installed in monitoring wells MW-209, MW-210, and MW-212 in January 2014. In addition, monitoring wells MW-208, MW-210, MW-211, and MW-212 are monitored monthly for product.

In September 2016, RECON Environmental, Inc. (RECON) excavated and disposed of approximately 5.28 tons of visibly stained soils at the former Lubes Facility, located near the southwest corner of the Main Tank Farm and directly west of the Pump House. Confirmation soil samples were collected and the open piping at two small petroleum impacted areas were capped. The TPH concentrations in the confirmation soil samples were less than the inland soil cleanup level of 20,000 mg/kg (Ecology, 1998; RECON, 2017). Upon receipt of these results, AECOM authorized RECON to backfill the excavations.

In November 2016, construction of the bio-sparging system commenced within the TX-03A Area (Figure 2). The City of Seattle (the City) halted the completion of the system in December 2016 due to a delay in the issuance of the Utility Major Permit and the Annual Permit. Prior to the work halt, AECOM oversaw the installation of the 37 bio sparging wells in the City Parking Lot and Main Tank Farm, and the installation of the system piping within the Main Tank Farm. System construction was completed in May 2017 and the system was started on May 25, 2017. The bio sparging system construction details were documented in a *Bio Sparging Completion Technical Memorandum*, submitted in the first quarter of 2018. The bio sparging system was shut down in December 2019 to evaluate for rebound and has remained off.

Between March and September of 2018, AECOM completed rehabilitation of the 24-inch mainline of the City's stormwater system located directly north of the Seattle Terminal's Main Tank Farm, per the terms of a Voluntary Compliance Agreement (VCA) between Shell and the City dated April 2016. Per the VCA, annual dry weather stormwater system sampling events were required for a period of 3 years. Sampling events were conducted in January and August of 2019, in August 2020, and in July 2021. All three dry weather sample event results indicated that the rehabilitation was successful. An Acknowledgement of Completion for the requirements in the VCA was issued by the City on October 27, 2021.

On October 1, 2020 a gasoline release occurred from a failed pump inside the Pump House during tanker truck fueling operations. The Pump House is located south of the Main Tank Farm. Areas affected by the release included the Pump House interior, Manifold Pit East, and limited areas outside the Pump House on the ground surface at its northern and southern entryways. Following initial recovery of the release, additional excavation was completed. GHD submitted an *Interim Action Report* in March 2021 (GHD, 2021a) and a *Well Installation Work Plan* in August 2021 (GHD, 2021b). The *Well Installation Work Plan* was approved by Ecology in a January 5, 2022 email. GHD is coordinating the well installation activities and will submit a summary report under separate cover.

1.2 Summary of Compliance Monitoring Program

Compliance monitoring consists of product monitoring, groundwater level monitoring, and groundwater sampling as detailed in the Compliance Monitoring Plan (EMCON and LCI, 1999). The monitoring objectives have been categorized as confirmational, performance, and sentry:

- Performance monitoring is conducted to monitor the effectiveness of the cleanup actions. Performance monitoring consists of three components: product thickness and sheen monitoring, groundwater natural attenuation monitoring, and groundwater quality monitoring.
- Confirmational monitoring is conducted to confirm the long-term effectiveness of the cleanup action once performance and cleanup levels have been met. Confirmation product monitoring consists of monitoring product thickness and sheen.
- Sentry monitoring is conducted to provide early warnings of off-Site contaminant migrations. Semi-annual sentry groundwater quality monitoring is conducted simultaneously with groundwater performance monitoring.

Site-wide quarterly monitoring was conducted until 2006 in accordance with the Compliance Monitoring Plan. In 2006, the monitoring program was modified in accordance to proposed changes by RETEC (RETEC, 2006a; RETEC, 2006b), and additional modifications in the monitoring program occurred in 2008 in accordance with email correspondence with Ecology (URS, 2008). The groundwater monitoring program established in 2008 is presented in

black text in Table 2. Additional modifications to the compliance monitoring program between 2011 and 2015 are presented in red text. The groundwater cleanup levels specified in the 1998 Consent Decree are presented in Table 1.

1.2.1 SH-04 Area

Compliance monitoring wells MW-05, MW-111, MW-112A, MW-104, and SH-04 are located along 13th Avenue and in the southeast corner of the Main Tank Farm, within the SH-04 Area of the Site (Figure 2). The compliance monitoring program for the SH-04 Area was modified between 2011 and 2015 as described below and presented in red text on Table 2.

- In 2001, additional semiannual samples were obtained from the above listed five monitoring wells to assess the dissolved groundwater plume (URS, 2012). Monitoring wells MW-305 and MW-306 were installed in the SH-04 Area in November 2011.
- Beginning in 2012 through 2014, quarterly groundwater samples were collected to assess the dissolved hydrocarbon plume in the SH-04 Area. Additionally, three joint groundwater sampling events were conducted in 2012 with the neighboring Kinder Morgan Terminal in the SH-04 Area.
- In 2014, benzene and gasoline concentrations within sentry well SH-04 were below the cleanup levels. Therefore, due to reductions of concentrations within the sentry well, URS removed groundwater monitoring at monitoring wells MW-305 and MW-306 from the monitoring program (URS, 2014)

The fifth EPA 5-Year review of the Harbor Island Superfund Site (EPA, 2020) noted that elevated contaminant concentrations have been observed in wells A-28R and MW-23, associated with the Kinder Morgan facility. These wells are located along the southwestern edge of the Kinder Morgan facility near 13th Avenue Southwest. Surrounding wells, including Shell well MW-111, do not indicate an expanding plume, but the EPA noted that additional data are needed to determine a trend.

A coordinated gauging event of wells in the SH-04 area with wells at the Kinder Morgan facility was conducted on April 12, 2021. However, GHD has not been able to generate a groundwater flow diagram because the shared well SH-04 is shown in a different location on the map generated for the Kinder Morgan facility from the location on our map. We have requested that Arcadis U.S., Inc. (Arcadis), the consultant for the Kinder Morgan facility, provide input on their well locations to ensure an accurate Site plan prior to generating a groundwater flow diagram. GHD is also coordinating an additional gauge and sample event during 2022.

1.2.2 TX-03A Area

As indicated on Table 2, multiple compliance monitoring wells are in the TX-03A Area of the Site. This area includes the northern boundary of the Main Tank Farm and extends north to the northern boundary of the North Tank Farm (Figure 2). The compliance monitoring program within the TX-03A Area includes historical monitoring wells and additional monitoring wells that were installed within the TX-03A Area between 2011 and 2016 as part of the TX-03A Area investigation. Modifications since 2008 are presented in red text on Table 2.

To assess the dissolved hydrocarbon plume at the TX-03A Area, the following additional monitoring wells were installed within the TX-03A Area between 2011 and 2016:

- MW-301 through MW-304 in November 2011
- MW-307 through MW-310 in November 2012
- MW-311 and MW-312 in October 2014
- MW-313, MW-314, and MW-315 in July 2016

The monitoring wells installed in November 2011 through July 2016 were sampled at least semiannually since 2012.

1.2.3 Rehabilitation of the Stormwater System

Per the terms of a VCA between Shell and the City, AECOM completed rehabilitation of the 24-inch mainline of the City's stormwater system located directly north of the Seattle Terminal's Main Tank Farm. Rehabilitation activities included installing 440 feet of cured in place pipe (CIPP) in a section of the mainline where groundwater infiltration was observed and conducting post installation cleaning of the mainline through the CIPP installation area downstream to the mainline outfall (approximately 1,250 total feet of pipe). A technical memorandum detailing the stormwater system rehabilitation activities was provided to the City on January 29, 2019.

Dry weather stormwater system samples were collected at manholes D050-014 and D050-016 on January 15 and August 14, 2019 after at least 24 hours of dry weather conditions while tidal elevations were below sample points in the mainline. When compared to 2014 results, the 2019 dry weather sampling results indicated that BTEX and petroleum hydrocarbon concentrations within the CIPP installation area have been significantly reduced since the completion of the stormwater system rehabilitation project. The analytical results and summary of the events were provided in Technical Memorandums *January 2019 Dry Weather Stormwater System Sampling Results* (AECOM, 2019a) and *August 2019 Dry Weather Stormwater System Sampling Results* (AECOM, 2019b).

Additional dry weather stormwater system samples were collected at manholes D050-014 and D050-016 on August 27, 2020 and results were consistent with the 2019 results. The analytical results and summary of the event were provided in a September 18, 2020 Technical Memorandum *August 2020 Dry Weather Stormwater System Sampling Results* (AECOM, 2020). The third and final dry weather stormwater system samples were collected at the manholes on July 15, 2021, with a summary and results provided in an August 23, 2021 letter *2021 Dry Weather Stormwater System Sampling Results* (GHD, 2021c). The 2021 results were consistent with 2020 and 2019, indicating the rehabilitation was successful. An Acknowledgement of Completion for the requirements in the VCA was issued by the City of Seattle on October 27, 2021.

1.3 Geology and Hydrogeology

The 405-acre Harbor Island was constructed during the early 1900s in an area consisting of intertidal wetlands at the mouth of the Duwamish River. The island was created using sediments dredged to facilitate navigation in the Lower Duwamish River and West Waterway (KJC, 1990).

Soil underlying the site consists of emplaced grade and dredge fill overlying native estuarine deposits (EMCON and LCI, 1999). The uppermost grade fill unit consists of coarse-grained fill varying in thickness from less than one foot to approximately two feet thick. The underlying dredge fill unit was created when estuarine deposits near the site were dredged and used as fill. The contact between the dredge fill and native estuarine units is poorly defined due to similar properties of the two units. The dredge fill varies from approximately 8 to 20 feet in thickness at the site. It consists of fine- to medium-grained sand with some gravel. Native estuarine deposits underlie the dredge fill at depths of approximately 9 to 21 feet below ground surface (bgs). These deposits are composed of primarily fine- to medium-grained sand with thin silt interbeds.

The shallow, unconfined groundwater aquifer consists of a thin lens of freshwater overlying brackish water. The groundwater table is 4 to 8 feet bgs, within the dredge fill. The water table within the North Tank Farm and Main Tank Farm areas are generally unaffected by tides; groundwater quality and elevations within the Shoreline Manifold Area are affected by tides.

The native estuarine deposits are fully saturated, and groundwater within this unit is unconfined. Groundwater quality and groundwater elevations within this unit are influenced by surrounding surface water bodies and associated tidal fluctuations. This shallow groundwater flows in a radial fashion to the north and to the south from a potentiometric high located within the Main Tank Farm area.

2. Groundwater Elevations and Flow

Monitoring wells at the site are screened in either the shallow or deep depth intervals. The monitoring well screen intervals are presented on Table 2 and discussed below.

- All but two of the monitoring wells in the groundwater monitoring program are screened in the shallow depth interval (approximately 5 to 15 feet bgs)
- Monitoring wells MW-213 and MW-214 are screened in the deeper depth interval (approximately 30 to 40 feet bgs)

Groundwater elevation data for the monitoring period (January 2021 through December 2021) and historical groundwater elevation data are presented in Table 3. The groundwater elevation data are discussed in the following subsections for each area, as identified on Figure 2. Monitoring well gauging field logs, which include depth to groundwater and depth to product, are provided in Appendix A. To coordinate gauging of wells within the SH-04 area with sampling at the Kinder Morgan facility, the first quarter 2021 monitoring event scheduled for March was delayed until April, with approval from Ecology.

2.1 TX-03A Area (including the North Tank Farm)

The TX-03A Area is shown on Figure 2. The North Tank Farm has been incorporated into the TX-03A Area because it provides downgradient and cross gradient data for the TX-03A Area (Figures 3 through 6).

In accordance with the groundwater monitoring program, depth to groundwater was measured in North Tank Farm monitoring wells (MW-201 through MW-204 and MW-206A) and in additional TX-03A Area monitoring wells (MW-101, MW-102, MW-301 through MW-304, MW-307 through MW-315, TES-MW-1, and TX-03A) during the quarterly sampling events. Note that the first quarter 2021 event was conducted in April 2021.

The range in groundwater elevations for each quarterly 2021 event is listed below:

- First Quarter 2021 (April) | 6.36 (MW-314) to 8.70 (MW-206A) feet above mean sea level (AMSL)
- Second Quarter 2021 | 5.86 (MW-201) to 7.16 (MW-101) feet AMSL
- Third Quarter 2021 | 5.50 (MW-201) to 6.42 (MW-313) feet AMSL
- Fourth Quarter 2021 | 6.85 (MW-204) to 8.80 (MW-101) feet AMSL

Localized groundwater elevation contour maps depicting the April, June, September, and December 2021 groundwater elevations for the shallow depth interval beneath the TX-03A Area are presented as Figures 3 through 6, respectively. Groundwater in the TX-03A Area generally flows to the north-northwest.

2.2 SH-04 Area

In accordance with the groundwater monitoring program, depth to groundwater was measured semiannually in MW-05, MW-104, MW-111, MW-112A, and SH-04 in June and December 2021. An additional gauging event was conducted in April 2021 in coordination with gauging of the wells at the Kinder Morgan site by Arcadis.

The range in groundwater elevations for each semiannual 2021 event is listed below:

- April 2021 | 6.41 (MW-112A) to 8.17 (MW-05) feet AMSL
- June 2021 | 6.12 (MW-112A) to 7.30 (MW-05) feet AMSL
- December 2021 | 7.00 (MW-112A) to 8.57 (MW-05) feet AMSL

2.3 Shoreline Manifold Area

In accordance with the groundwater monitoring program, depth to groundwater was measured semiannually in MW-213 and MW-214 (June and December) and monthly from monitoring wells MW-208, MW-210, MW-211, and MW-212.

The range in groundwater elevations for each quarter in 2021 is listed below:

- First Quarter 2021 (April) | 5.64 (MW-212) to 6.88 (MW-208) feet AMSL
- Second Quarter 2021 | 6.33 (MW-212) to 7.19 (MW-208) feet AMSL
- Third Quarter 2021 | 5.85 (MW-212) to 6.70 (MW-208) feet AMSL
- Fourth Quarter 2021 | 6.410 (MW-213) to 8.17 (MW-208) feet AMSL

3. General Compliance Results

This section presents the analytical results of the groundwater monitoring and performance product monitoring (in support of operation and maintenance). Field sampling data sheets, which include field parameter measurements and product measurement field forms, are provided in Appendix A. Laboratory data packages are provided in Appendix B. Laboratory analytical data were assessed to ensure data quality and were deemed acceptable for their intended use with noted qualifiers. Data validation reports are provided in Appendix C.

3.1 Performance Product Monitoring

In accordance with the groundwater monitoring program (Table 2), depth to groundwater and thickness of free product was measured in the monitoring wells listed below:

- Shoreline Manifold Area | MW-208, MW-210, MW-211, and MW-212, monthly
- North Tank Farm | MW-204, quarterly

Performance product monitoring data are presented in Table 4. Absorbent socks are present for product recovery in monitoring wells MW-210 and MW-212 and are replaced monthly or as needed.

No measurable thickness of floating product was detected in monitoring wells MW-204, MW-208, MW-211, or MW-212 during the 2021 events. No product was detected at MW-210 in the months of June, September, October, and December. A sheen was present in August and in the remaining months, measurable thicknesses of product ranged from 0.04 ft (May and July) to 2.06 ft in January at MW-210. Sometime between the December 2020 gauging event and the January 2021 gauging event, the stainless-steel cage holding absorbent socks at the top of the water table in well MW-201 had sunk to the bottom of the well, resulting in an increase in product thickness. Absorbent socks were reinstalled in well MW-210 at the water table during the February 2021 event. Following the reinstallation, product thickness decreased.

3.2 Natural Attenuation Performance Criteria

In accordance with the groundwater monitoring program (Table 2), natural attenuation performance monitoring is conducted annually at ten monitoring wells within the TX-03A Area. The results are presented in Table 5 along with the standard groundwater stabilization parameters, which are collected from monitoring wells quarterly after completion of purging and prior to collection of groundwater samples.

3.3 Analytical Results for the Groundwater Performance and Confirmational Monitoring

This section presents analytical results for the performance and compliance monitoring events conducted in 2021. Groundwater samples were collected during the fourth quarter of 2021 from the following monitoring wells in accordance with Table 2.

- Background well MW-206A
- Point of compliance (POC) wells MW-213 and MW-214
- Sentry wells MW-102, MW-104, MW-201, MW-204, MW-311 through MW-315, MW-05, MW-111, MW-112A, SH-04, MW-105, TX-04, and TX-06A
- General compliance wells MW-101, MW-301, MW-303, MW-309, and TES-MW-1
- Natural attenuation performance wells MW-202, MW-203, MW-302, MW-304, MW-307, MW-208, MW-310, MW-311, MW-312, and TX-03A

Monitoring wells at the Site were monitored in 2021 monthly, quarterly, semiannually, or annually according to Table 2. Monitoring wells MW-311 and MW-312 are identified as both natural attenuation performance wells and sentry wells.

The 2021 and historic groundwater sample results are included on Tables 6 and 7 and are summarized in the following subsections. The gasoline and diesel results for 2021 are included on Figure 7, and the benzene results are included on Figure 8. Cleanup level exceedances are highlighted in red on Figures 7 and 8.

3.3.1 Background Monitoring Well Results

A groundwater sample was collected from background monitoring well MW-206A in December 2021. The background sample was analyzed for BTEX, gasoline range hydrocarbons (gasoline), diesel range hydrocarbons (diesel), and motor oil range hydrocarbons (oil). The results are presented on Table 6.

TPHd and TPHo were detected at estimated concentrations (J-flagged) of 0.150 milligrams per liter (mg/L) and 0.215 mg/L, respectively. Other analytes were not detected. Estimated detections and reporting limits are below the applicable clean up levels.

3.3.2 POC Well Results

Groundwater samples were collected from POC wells MW-213 and MW-214 in June and December 2021. The groundwater samples from the POC wells were analyzed for BTEX, gasoline, diesel, oil, and cPAHs. The results for the two monitoring wells are presented within Tables 6 and 7.

No analytes were detected in POC wells MW-213 and MW-214 with the exception of TPHd and TPHo at estimated concentrations (J-flagged). In MW-213, TPHd and TPHo were reported at 0.158 mg/L (J) and 0.199 mg/L (J) during the December 2021 event and were not detected during the June 2021 event. TPHd was detected at 0.122 mg/L (J) in MW-214 during the June 2021 event and 0.172 mg/L (J) during the December 2021 event. TPHo was only detected in MW-214 at an estimated concentration of 0.129 mg/L (J) during the December 2021 event. All reporting limits and estimated concentrations detected were below the applicable cleanup levels.

3.3.3 Sentry Monitoring Results

Sentry wells include MW-05, MW-102, MW-104, MW-105, MW-111, MW-112A, MW-201, MW-204, MW-311 through MW-315, SH-04, TX-04, and TX-06A. The following subsections summarize the results in the sentry wells characterizing groundwater flowing from beneath the North and Main Tank Farms.

3.3.3.1 North Tank Farm (included in the TX-03A Area)

Monitoring wells MW-201 and MW-204 are representative sampling points for assessing the quality of groundwater flowing across the northern boundary of the North Tank Farm. MW-201 was found to be dry during the December 2021 sampling event; therefore, only a sample was collected from sentry well MW-204. The groundwater sample was analyzed for BTEX, gasoline, diesel, and oil. The result for MW-204 is presented in Table 6.

No analytes were detected in sentry well MW-204 at concentrations above the cleanup levels.

3.3.3.2 Main Tank Farm – Northern Boundary (included in the TX-03A Area)

Historically, monitoring well TX-03A was the representative sampling point for assessing the quality of groundwater flowing across the northern boundary of the Main Tank Farm. However, the investigation within the TX-03A has expanded with the installation of additional monitoring wells as discussed in Section 1.2.2.

Monitoring wells MW-102 and MW-311 through MW-315 are additional sentry wells used for the characterization of the northern boundary of the Main Tank Farm. Groundwater samples were collected from MW-102 in December 2021, MW-314 in April, MW-311 in April, September, and December, and from MW-312, MW-313, and MW-314 in April, June, September, and December 2021. MW-311 was not accessible during the second quarter event and MW-314 during the second and third quarter events due to cars parked on top of the wells.

The groundwater samples from the six sentry wells were all analyzed for BTEX and gasoline, and the groundwater samples from MW-102 and MW-313 through MW-315 were also analyzed for diesel and oil. Results are summarized in Table 6.

No analytes were detected above the cleanup levels at MW-102, MW-313, and MW-314.

Concentrations of gasoline exceeded the cleanup level of 1 milligram per liter (mg/L) in well MW-311 during the second, third, and fourth quarters of 2021. The maximum detected concentration in monitoring well MW-311 was during the December event at 1.63 mg/L with a J flag indicating results may have been biased high. Gasoline concentrations exceeded the cleanup level of 1 mg/L in monitoring well MW-312 during three quarters of 2021 (not reported in the April first quarter event due to lack of sample volume), and the benzene concentrations exceeded the cleanup level of 0.071 mg/L during the first quarter only. The benzene detection occurred during the April monitoring event at 0.121 mg/L. The gasoline maximum was reported as 2.99 mg/L during the December event. Gasoline concentrations exceeded the cleanup level of 1 mg/L in monitoring well MW-315 during all four quarters of 2021. The maximum detected concentration of gasoline in monitoring well MW-315 during 2021 was detected during the April monitoring event at 2.90 mg/L with a J flag indicating results may have been biased high. These exceedances are highlighted in red on Figures 7 and 8.

3.3.3.3 Main Tank Farm – Eastern and Western Boundaries

Monitoring wells TX-04 and TX-06A were designated as the sentry wells for the eastern and western boundaries of the Main Tank Farm. Groundwater samples were collected from these two monitoring wells in December 2021 and analyzed for BTEX, gasoline, diesel, and oil.

No analytes were detected above the cleanup levels at TX-04 and TX-06A (Table 6).

3.3.3.4 Main Tank Farm – Southern Boundary (includes the SH-04 Area)

SH-04 Area monitoring wells MW-05, MW-104, MW-111, MW-112A, and SH-04 as well as monitoring well MW-105, located to the west of the SH-04 Area, were designated as the sentry wells for the southern boundary of the Main Tank Farm.

- MW-05, MW-111, MW-112A, and SH-04 were sampled in June and December 2021 for BTEX, gasoline, diesel, and oil.
- MW-104 was sampled in June and December 2021 for total lead, gasoline, diesel, and oil.
- MW-105 was sampled in December 2021 for total lead, BTEX, gasoline, diesel, and oil.

The results are presented in Table 6, and the cleanup level exceedances for these five sentry wells are as follows:

- Gasoline concentrations exceeded the cleanup level of 1 mg/L in December at both MW-112A in and SH-04 (Figure 7). The maximum detected concentration was 2.34 mg/L (MW-112A).

4. TX-03A Area Investigation

The TX-03A Area is shown on Figure 2. The TX-03A Area, which includes the North Tank Farm, was identified for additional evaluation in the third EPA 5-Year review of the Harbor Island Superfund Site (EPA, 2010), and active remediation was recommended in the fourth EPA 5-year review (EPA, 2015). This section summarizes the other activities conducted in the TX-03A Area during 2021 in addition to the compliance monitoring.

4.1 TX-03A Area Groundwater Flow

Localized groundwater elevation contour maps for the shallow depth interval beneath the TX-03A Area using the April, June, September, and December 2021 groundwater elevations are presented as Figures 3 through 6, respectively. Groundwater in the TX-03A Area flows to the north-northwest across the north end of the Main Tank Farm across SW Florida Street.

4.2 Bio Sparging System

Construction of the bio sparging system was completed in May 2017, and the system was started on May 25, 2017. Details of the system installation and the operation and maintenance plan are provided in AECOM's *Bio Sparging Completion Technical Memorandum*, dated March 28, 2018. The location of the bio sparging system, including the air-lines and a total of six main trunk lines, is shown on Figure 2.

The bio sparge system operated until December 6, 2019, when it was shutdown to support the fourth quarter sampling event, and the system has remained off for rebound testing.

4.3 TX-03A Area Groundwater Analytical Results

The TX-03A Area is evaluated by North Tank Farm monitoring wells (MW-201 through MW-204 and MW-206A) and TX-03A Area monitoring wells (MW-101, MW-102, MW-301 through MW-304, MW-307 through MW-315, TES-MW-1, and TX-03A). Groundwater samples from these monitoring wells were analyzed for one or more of the following: gasoline, diesel, oil, BTEX, natural attenuation parameters, and lead (Table 2). The results are included in Tables 5 and 6. The BTEX and petroleum hydrocarbon concentrations detected in groundwater in the TX-03A Area in 2021 are summarized below. The gasoline, diesel, and benzene concentration are shown on Figures 7 and 8. The BTEX and gasoline concentration trends for monitoring well TX-03A are shown on Figure 9.

Note: To support effectiveness monitoring of the bio sparging program, the monitoring program within the TX-03A Area was modified in 2017 to include the quarterly sampling of monitoring wells MW-302, MW-303, and MW-304. Quarterly groundwater sampling began in June 2017 for MW-302 and MW-304 and began in December 2017 for MW-303.

4.3.1 Petroleum Hydrocarbon Results

Gasoline was analyzed in 21 monitoring wells located in the TX-03A Area during the monitoring period (Table 2). Diesel and oil were analyzed in 16 monitoring wells located in the TX-03A Area during the monitoring period (Table 2). Well MW-314 was parked over during each quarterly event and thus inaccessible for sampling. Well MW-201 was dry during the fourth quarter event.

Gasoline exceeded the cleanup level of 1 mg/L during one or more sampling events in monitoring wells MW-202, MW-301, MW-302, MW-303, MW-307, MW-308, MW-310, MW-311, MW-312, and MW-315 at concentrations ranging from 1.19 mg/L (MW-302 in December 2021) to 4.07 mg/L (MW-303 in April 2021).

Mann-Kendall trend analysis was completed by the EPA and summarized in their fifth 5-year review (EPA, 2020). Their review noted that wells MW-312 and MW-315 showed increasing trends for TPHg and benzene above cleanup levels, but that concentrations will likely decline as the remediated groundwater migrates downgradient.

Reported diesel and oil concentrations exceeded the clean-up standards of 10 mg/L only in monitoring well MW-202 during the December 2021 event with a concentration of 17.0 mg/L TPHd.

4.3.2 BTEX Results

BTEX constituents were analyzed in 20 monitoring wells located in the TX-03A Area. Benzene concentrations exceeded the cleanup level of 0.071 mg/L in monitoring wells MW-303, MW-307, MW-308, and MW-312 at concentrations ranging from 0.121 mg/L (MW-312 in April 2021) to 0.252-mg/L (MW-303 in September 2021). Benzene concentrations are shown on Figure 8 with the cleanup level exceedances highlighted in red.

Toluene and ethylbenzene detections were all below the cleanup levels of 200 mg/L and 29 mg/L, respectively. A cleanup level for xylenes has not been established for the site.

4.4 Bio Sparging System Rebound Evaluation

The bio sparging system operated from May 2017 through December 2019. Nine monitoring events (one event in 2019, four in 2020, and four in 2021) have been completed since the system was shutdown. Wells MW-301, MW-302, MW-303, MW-304, MW-307, MW-308, MW-310, and TX-03A are closest to the bio sparge lines (Figure 2).

Since the system was shutdown, gasoline, diesel, and BTEX concentrations have remained consistently below respective cleanup levels in two wells (MW-304 and TX-03A). Well MW-301 has had only one exceedance of the gasoline cleanup level in the nine events, and wells MW-308 and MW-310 have only had exceedances of the gasoline and or benzene cleanup levels in two of the nine events.

In well MW-302, BTEX concentrations have remained below respective cleanup levels, and gasoline concentrations have exceeded cleanup levels in five of the nine events since the system was shutdown. In wells MW-303 and MW-307, gasoline concentrations have exceeded cleanup objectives in eight of the nine events each, and benzene in one of the nine events for MW-303 and seven of the nine for MW-307. Gasoline concentrations in the three wells remain significantly lower than concentrations reported between 2012 and 2016, prior to system operation. Maximum gasoline concentrations in wells MW-302, MW-303, and MW-307 in the nine events since shutdown were 1.85 mg/L (MW-302, April 2021), 4.07 mg/L (MW-303, April 2021), and 4.06J mg/L (MW-307, April 2021), compared to maximum historical concentrations of 5.86 mg/L (MW-302, April 2014), 12.8 mg/L (MW-303, February 2013), and 10.9 mg/L (MW-307, November 2012).

Based on these results, GHD does not recommend restarting the bio sparge system, and we request removal of the system. Rebound monitoring will continue pending approval of system removal.

5. Summary

Based on the analytical results of the January through December 2021 monitoring period, GHD concludes the following:

- Groundwater elevations at the Site generally appear to be consistent with historical levels. Elevation data will be collected in association with all monitoring events in 2021. GHD proposes no changes to the monitoring schedule, which is summarized in Table 2.

- Measurable product from an older release is still present in the Shoreline Manifold Area. During the past year, measurable product was observed in monitoring well MW-210. Absorbent socks are present for product recovery in monitoring wells MW-210 and MW-212. Given the presence of product, absorbent socks will remain in monitoring wells MW-210 and MW-212, and performance product monitoring will continue until discussed further with Ecology. The performance product monitoring schedule is included in Table 2.
- Natural attenuation parameters were collected annually from eight monitoring wells (MW-302, MW-304, MW-307, MW-308, MW-310, MW-311, MW-312, and TX-03A) on the northern boundary of the Main Tank Farm and two monitoring wells (MW-202 and MW-203) in the North Tank Farm. In support of evaluating natural attenuation and the bio sparging system, no changes to the natural attenuation monitoring program are proposed in this report. The groundwater monitoring program is summarized in Table 2.
- Of the sentry wells, cleanup level exceedances included gasoline detections in MW-112A, MW-311, MW-315, and SH-04; and benzene and gasoline detections in MW-312.
- SH-04 Area: Concentrations of benzene and gasoline in monitoring well MW-104 remain below the cleanup levels in 2021. Concentrations of gasoline exceeded their respective screening levels in SH-04 and MW-112A. Concentrations are generally consistent with historical results.
- TX-03A Area: Concentrations of benzene and gasoline have decreased from pre-bio sparge system operation levels in source area wells, but still exceed cleanup levels in wells MW-302, MW-303, and MW-307. GHD does not recommend restarting the bio sparge system and requests system removal. Rebound monitoring will continue pending approval of the system removal.
- Three years of dry weather stormwater system sampling at manholes D050-014 and D050-016 were completed in 2019, 2021, and 2022. The analytical results and summary of the sampling events were provided in Technical Memorandums. The City has issued an Acknowledgement of Completion for the stormwater system rehabilitation.
- A report detailing cleanup activities associated with the October 2021 gasoline release from the Pump House during tanker truck fueling operations was submitted in 2021 followed by a work plan for additional investigation. GHD is coordinating the investigation and results will be submitted under separate cover.

6. Other Recommendations

Following release of the fifth EPA 5-year review (EPA, 2020), Ecology has requested coordinated monitoring with the Kinder Morgan Terminal in the SH-04 Area. A coordinated gauging event of wells in the SH-04 area with wells at the Kinder Morgan facility was conducted on April 12, 2021. However, GHD has not been able to generate a groundwater flow diagram because the shared well SH-04 is shown in a different location on the map generated for the Kinder Morgan facility from the location on our map. We have requested that Arcadis, the consultant for the Kinder Morgan facility, provide input on their well locations to ensure an accurate Site plan prior to generating a groundwater flow diagram. GHD is also coordinating an additional gauge and sample event during 2022.

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Tables

Table 1
Groundwater Cleanup Levels
Shell Harbor Island Terminal
Seattle, Washington

Constituent	Cleanup Level ^a (mg/L)
Arsenic	0.036 ^b
Benzene	0.071
Benzo(a)anthracene	0.000031
Benzo(a)pyrene	0.000031
Benzo(b)fluoranthene	0.000031
Benzo(k)fluoranthene	0.000031
Chrysene	0.000031
Dibenzo(a,h)anthracene	0.000031
Ethylbenzene	29.0
Indeno(1,2,3-cd)pyrene	0.000031
Lead	0.0058
TPH-G	1.0
TPH-D	10
TPH-O	10
Toluene	200.0

Notes:

^a Cleanup levels per the Consent Decree (Ecology, 1998), except where noted.

^b Cleanup level based on ambient water quality criteria (chronic criteria for the protection of aquatic organisms) per WAC 173-201A-040.

mg/L = milligrams per liter

TPH-D = total petroleum hydrocarbons as diesel

TPH-G = total petroleum hydrocarbons as gasoline

TPH-O = total petroleum hydrocarbons as oil

**Table 2
Groundwater Monitoring Program
Shell Harbor Island Terminal
Seattle, Washington**

Well	Schedule								Analysis						Compliance Monitoring Well				Well Construction		Comments and Deviations from Monitoring Program
	1Q		2Q		3Q		4Q (2nd Semi-Annual & Annual)		Total Lead	BTEX	TPH-Gx	TPH-Dx	PAHs	NA Parameters	Performance Product	NA Performance	Groundwater Quality Confirmation	Sentry	Total Depth (ft bgs)	Screened Interval (ft bgs)	
	Gauge	Sample	Gauge	Sample	Gauge	Sample	Gauge	Sample													
TX-03A Area - North Tank Farm																					
MW-201	G		G		G		G	S			X	X	X					X	15	5.0 - 14.5	
MW-202	G		G	S	G		G	S		x ^A	X	X		x ^A		X			15	5.0 - 14.5	
MW-203	G		G	S	G		G	S			X	X		x ^A		X			15	5.0 - 14.5	
MW-204	G		G		G		G	S		X	X	X			X			X	15	5.0 - 14.5	
MW-206A	G		G		G		G	S		X	X	X				X-BGD			15	5.0 - 14.5	
TX-03A Area - Excluding the North Tank Farm																					
MW-101	G		G		G		G	S		X	X	X							15	5.0 - 14.5	
MW-102	G		G		G		G	S		X	X	X						X	15	5.0 - 14.5	
MW-301	G	S	G	S	G	S	G	S		X	X								15	5.0 - 15.0	
MW-302	G	S	G	S	G	S	G	S		X	X	x ^A		x ^A		X			15	5.0 - 15.0	
MW-303	G	S	G	S	G	S	G	S		X	X	x ^A							15	5.0 - 15.0	
MW-304	G	S	G	S	G	S	G	S		X	X	x ^A		x ^A		X			15	5.0 - 15.0	
MW-307	G	S	G	S	G	S	G	S		X	X	x ^S		x ^A		X			15	5.0 - 15.0	
MW-308	G	S	G	S	G	S	G	S		X	X			x ^A		X			15	5.0 - 15.0	
MW-309	G		G	S	G		G	S		X	X	x ^A							15	5.0 - 15.0	
MW-310	G	S	G	S	G	S	G	S		X	X	x ^A		x ^A		X			15	5.0 - 15.0	
MW-311	G	S	G	S	G	S	G	S		X	X			x ^A		X		X	15	5.0 - 15.0	
MW-312	G	S	G	S	G	S	G	S		X	X			x ^A		X		X	15	5.0 - 15.0	
MW-313	G	S	G	S	G	S	G	S		X	X	X						X	15	5.0 - 15.0	
MW-314	G	S	G	S	G	S	G	S		X	X	X						X	15	5.0 - 15.0	
MW-315	G	S	G	S	G	S	G	S		X	X	X						X	15	5.0 - 15.0	
TES-MW-1	G		G		G		G	S		X	X	X							18	3.0 - 18.0	
TX-03A	G	S	G	S	G	S	G	S		X	X	x ^A		x ^A		X			16	6.0 - 16.0	
SH-04 Area																					
MW-05			G	S			G	S		X	X	X						X	15	5.0 - 15.0	
MW-111			G	S			G	S		X	X	X						X	15	5.0 - 14.5	
MW-112A			G	S			G	S		X	X	X						X	15	5.5 - 15.0	
SH-04			G	S			G	S		X	X	X						X	16	6.0 - 16.0	
MW-104			G	S			G	S	X		X	X						X	15	5.0 - 14.5	
Additional Compliance Monitoring Wells																					
MW-105							G	S	X	X	X	X						X	15	5.0 - 14.5	
TX-04							G	S		X	X	X						X	16	6.0 - 16.0	
TX-06A							G	S		X	X	X						X	15.8	5.5 - 15.5	
Shoreline Manifold Area																					
MW-208	MG		MG		MG									X					16.5	5.0 - 14.5	
MW-210	MG		MG		MG									X					15	unknown	
MW-211	MG		MG		MG									X					13	5.0 - 13.0	
MW-212	MG		MG		MG									X					12	unknown	
MW-213			G	S			G	S		X	X	X	X				X-POC		30	30 - 40	
MW-214			G	S			G	S		X	X	X	X				X-POC		30	30 - 40	
Additional Wells (Included in Annual Inspection only)																					
ASW-1																			14	13 - 14	Air sparge well
PSV-1																			4	3 - 4	Soil gas well
PSV-2																			4	3 - 4	Soil gas well
SVE-1																			4	3 - 4	Soil vapor extraction well
TW-01																			14	4 - 14	Pumping test well
DP-06																					
MW-06																					
MW-103																					
MW-106																					
MW-107																					
MW-108																					
MW-109																					
MW-110																					
MW-205																					
MW-209																					
MW-305																					
MW-306																					

Wells were discovered during consultant transition. Groundwater monitoring of these wells is required. Checking for well logs for future well abandonment

**Table 2
Groundwater Monitoring Program
Shell Harbor Island Terminal
Seattle, Washington**

Well	Schedule								Analysis	Compliance Monitoring Well Network Well Class				Well Construction		Comments and Deviations from Monitoring Program
	1Q		2Q		3Q		4Q (2nd Semi-Annual & Annual)			Performance Product	NA Performance	Groundwater Quality Confirmation	Sentry	Total Depth (ft bgs)	Screened Interval (ft bgs)	
	Gauge	Sample	Gauge	Sample	Gauge	Sample	Gauge	Sample								
AMW-8															Wells were discovered during TSO Terminal Audit and are no longer used by operations for leak detection.	
AMW-X															Groundwater monitoring of these wells is not required. Checking for well logs for future well abandonment.	

Notes:

Red = Modifications to the program since the November 2008 proposed changes which were established in correspondence between URS and Ecology. 1Q = March*
 2Q = June 3Q = August
 4Q = December Addtl = Additional
 BGD = Background well with respect to confirmational sampling
 BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B Dec = December
 DTP = Depth to product
 ft bgs = below ground surface
 G = indicates a well to be gauged during that event MG = monthly gauge
 NA = natural attenuation
 Natural Attenuation Parameters: Nitrate and Nitrite by EPA Method 353.2, Sulfate by EPA Method 300.0, Dissolved Iron and Manganese by EPA Method 6010B/6020A (Lab Filtered), and Ferrous Iron collected in the field.
 PAHs = polycyclic aromatic hydrocarbons by EPA Method 8270C-SIM POC = Conditional Point of Compliance Well
 Q = quarter
 S = indicates a well to be sampled during that event Sept = September
 Total Lead by EPA Method 6020
 TPH-Dx = total petroleum hydrocarbons as diesel by NWTPH-Dx TPH-Gx = total petroleum hydrocarbons as gasoline by NWTPH-Gx WLM = Water level measurement
 X = indicates a well to be analyzed for that analyte
 X^A = indicates a well to be analyzed for that analyte during the annual sampling event only
 X^S = indicates a well to be analyzed for that analyte during both semi-annual sampling events only
 * First quarter 2020 sampling was conducted in April 2020.

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-05	04/06/93	10.39	6.12	4.27
MW-05	05/13/93	10.39	5.92	4.47
MW-05	06/10/93	10.39	5.98	4.41
MW-05	07/08/93	10.39	6.23	4.16
MW-05	08/03/93	10.39	6.50	3.89
MW-05	10/08/93	10.39	7.22	3.17
MW-05	11/05/93	10.39	7.42	2.97
MW-05	12/03/93	10.39	7.38	3.01
MW-05	01/05/94	10.39	6.64	3.75
MW-05	02/04/94	10.39	6.54	3.85
MW-05	08/28/95	10.39	Not Measured	Not Measured
MW-05	09/27/95	10.39	8.35	2.04
MW-05	04/27/99	10.39	8.07	2.32
MW-05	07/14/99	10.39	5.88	4.51
MW-05	10/18/99	10.39	7.00	3.39
MW-05	04/05/00	10.39	5.05	5.34
MW-05	07/18/00	10.39	6.30	4.09
MW-05	10/02/00	10.39	7.15	3.24
MW-05	01/22/01	10.39	6.50	3.89
MW-05	07/23/01	10.39	7.43	2.96
MW-05	07/18/02	10.39	7.10	3.29
MW-05	01/30/03	10.39	5.84	4.55
MW-05	04/15/03	10.39	5.80	4.59
MW-05	07/17/03	10.39	7.12	3.27
MW-05	10/15/03	10.39	7.78	2.61
MW-05	10/23/03	10.39	7.80	2.59
MW-05	01/13/04	10.39	5.65	4.74
MW-05	04/19/04	13.57	6.35	7.22
MW-05	07/27/04	13.57	7.32	6.25
MW-05	10/18/04	13.57	7.36	6.21
MW-05	01/24/05	13.57	6.26	7.31
MW-05	04/18/05	13.57	6.27	7.30
MW-05	07/12/05	13.57	6.85	6.72
MW-05	10/18/05	13.57	7.60	5.97
MW-05	01/25/06	13.57	4.78	8.79
MW-05	04/25/06	13.57	5.90	7.67
MW-05	10/11/06	13.57	7.62	5.95
MW-05	11/19/08	13.57	8.23	5.34
MW-05	11/16/09	13.57	6.44	7.13
MW-05	10/29/10	13.57	6.57	7.00
MW-05	10/25/11	13.57	7.25	6.32
MW-05	05/30/12	13.57	5.86	7.71
MW-05	08/23/12	13.57	6.63	6.94
MW-05	11/27/12	13.57	5.30	8.27

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-05	05/16/13	13.57	5.72	7.85
MW-05	11/07/13	13.57	6.49	7.08
MW-05	04/22/14	13.57	5.25	8.32
MW-05	12/08/15	13.57	5.42	8.15
MW-05	05/04/16	13.57	5.22	8.35
MW-05	12/14/16	13.57	4.78	8.79
MW-05	06/13/17	13.57	5.45	8.12
MW-05	12/04/17	13.57	5.64	7.93
MW-05	06/12/18	13.57	6.43	7.14
MW-05	12/17/18	13.57	6.27	7.30
MW-05	05/15/19	13.57	6.69	6.88
MW-05	12/09/19	13.57	7.09	6.48
MW-05	06/29/20	13.57	6.30	7.27
MW-05	12/14/20	13.57	6.31	7.26
MW-05	04/12/21	13.57	5.40	8.17
MW-05	06/14/21	13.57	6.27	7.30
MW-05	12/15/21	13.57	5.00	8.57
MW-101	04/06/93	15.14	10.48	4.66
MW-101	05/13/93	15.14	10.32	4.82
MW-101	06/10/93	15.14	10.45	4.69
MW-101	07/08/93	15.14	10.75	4.39
MW-101	08/03/93	15.14	11.09	4.05
MW-101	09/08/93	15.14	11.52	3.62
MW-101	10/08/93	15.14	11.89	3.25
MW-101	11/05/93	15.14	12.13	3.01
MW-101	12/03/93	15.14	12.14	3.00
MW-101	01/05/94	15.14	11.16	3.98
MW-101	02/04/94	15.14	11.02	4.12
MW-101	08/28/95	15.14	11.25	3.89
MW-101	09/27/95	15.14	11.49	3.65
MW-101	04/27/99	15.14	9.22	5.92
MW-101	07/14/99	15.14	10.73	4.41
MW-101	10/18/99	15.14	11.78	3.36
MW-101	01/11/00	15.14	9.73	5.41
MW-101	04/05/00	15.14	9.85	5.29
MW-101	07/18/00	15.14	11.01	4.13
MW-101	10/02/00	15.14	11.85	3.29
MW-101	01/22/01	15.14	11.67	3.47
MW-101	07/23/01	15.14	12.33	2.81
MW-101	10/16/01	15.14	13.15	1.99
MW-101	04/23/02	15.14	10.81	4.33
MW-101	07/18/02	15.14	11.88	3.26
MW-101	10/23/02	15.14	12.73	2.41

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-101	01/30/03	15.14	10.09	5.05
MW-101	04/15/03	15.14	10.36	4.78
MW-101	07/17/03	15.14	11.94	3.20
MW-101	10/15/03	15.14	12.68	2.46
MW-101	01/13/04	15.14	10.06	5.08
MW-101	04/19/04	18.21	11.13	7.08
MW-101	07/27/04	18.21	12.07	6.14
MW-101	10/18/04	18.21	12.19	6.02
MW-101	01/24/05	18.21	10.61	7.60
MW-101	04/18/05	18.21	10.86	7.35
MW-101	07/12/05	18.21	11.61	6.60
MW-101	10/18/05	18.21	12.45	5.76
MW-101	01/25/06	18.21	9.21	9.00
MW-101	04/25/06	18.21	10.75	7.46
MW-101	10/11/06	18.21	12.39	5.82
MW-101	11/18/08	18.21	11.45	6.76
MW-101	11/16/09	18.21	10.95	7.26
MW-101	10/26/10	18.21	11.36	6.85
MW-101	10/25/11	18.21	12.15	6.06
MW-101	05/30/12	18.21	10.79	7.42
MW-101	06/13/12	18.21	10.90	7.31
MW-101	09/26/12	18.21	12.04	6.17
MW-101	11/27/12	18.21	9.90	8.31
MW-101	02/22/13	18.21	10.24	7.97
MW-101	05/16/13	18.21	10.89	7.32
MW-101	09/06/13	18.21	11.99	6.22
MW-101	11/07/13	18.21	11.78	6.43
MW-101	04/22/14	18.21	10.16	8.05
MW-101	11/04/14	18.21	10.70	7.51
MW-101	03/10/15	18.21	10.31	7.90
MW-101	05/15/15	18.21	10.03	8.18
MW-101	07/29/15	18.21	11.86	6.35
MW-101	12/10/15	18.21	9.12	9.09
MW-101	02/23/16	18.21	8.81	9.40
MW-101	05/03/16	18.21	10.29	7.92
MW-101	08/30/16	18.21	11.29	6.92
MW-101	12/14/16	18.21	9.62	8.59
MW-101	03/13/17	18.21	8.87	9.34
MW-101	06/13/17	18.21	10.53	7.68
MW-101	08/22/17	18.21	11.63	6.58
MW-101	12/04/17	18.21	10.18	8.03
MW-101	03/06/18	18.21	10.05	8.16
MW-101	06/12/18	18.21	11.03	7.18
MW-101	09/05/18	18.21	11.97	6.24

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-101	12/17/18	18.21	10.98	7.23
MW-101	03/18/19	18.21	10.17	8.04
MW-101	05/15/19	18.21	10.58	7.63
MW-101	09/17/19	18.21	12.03	6.18
MW-101	12/09/19	18.21	11.82	6.39
MW-101	04/27/20	18.21	10.53	7.68
MW-101	06/29/20	18.21	11.15	7.06
MW-101	09/21/20	18.21	12.00	6.21
MW-101	12/14/20	18.21	11.10	7.11
MW-101	04/12/21	18.21	10.20	8.01
MW-101	06/14/21	18.21	11.05	7.16
MW-101	09/22/21	18.21	12.00	6.21
MW-101	12/14/21	18.21	9.41	8.80
MW-102	04/06/93	12.51	7.99	4.52
MW-102	05/13/93	12.51	7.82	4.69
MW-102	06/10/93	12.51	7.80	4.71
MW-102	07/08/93	12.51	8.32	4.19
MW-102	08/03/93	12.51	8.68	3.83
MW-102	09/08/93	12.51	9.03	3.48
MW-102	10/08/93	12.51	9.44	3.07
MW-102	11/05/93	12.51	9.62	2.89
MW-102	12/03/93	12.51	9.42	3.09
MW-102	01/05/94	12.51	8.50	4.01
MW-102	02/04/94	12.51	8.52	3.99
MW-102	08/28/95	12.51	8.86	3.65
MW-102	09/27/95	12.51	9.17	3.34
MW-102	04/27/99	12.51	6.68	5.83
MW-102	07/14/99	12.51	8.40	4.11
MW-102	10/18/99	12.51	9.38	3.13
MW-102	01/11/00	12.51	7.43	5.08
MW-102	04/05/00	12.51	7.55	4.96
MW-102	07/18/00	12.51	8.37	4.14
MW-102	10/02/00	12.51	9.45	3.06
MW-102	01/22/01	12.51	9.12	3.39
MW-102	07/23/01	12.51	9.91	2.60
MW-102	04/23/02	12.51	8.17	4.34
MW-102	07/18/02	12.51	9.44	3.07
MW-102	07/18/02	12.51	9.44	3.07
MW-102	10/23/02	12.51	10.05	2.46
MW-102	01/28/03	12.51	7.20	5.31
MW-102	04/15/03	12.51	7.75	4.76
MW-102	07/17/03	12.51	9.51	3.00
MW-102	10/15/03	12.51	10.11	2.40

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-102	01/13/04	12.51	7.49	5.02
MW-102	04/19/04	15.60	8.72	6.88
MW-102	07/27/04	15.60	9.62	5.98
MW-102	10/18/04	15.60	9.54	6.06
MW-102	01/24/05	15.60	7.92	7.68
MW-102	04/18/05	15.60	8.20	7.40
MW-102	07/12/05	15.60	9.10	6.50
MW-102	10/18/05	15.60	9.87	5.73
MW-102	01/25/06	15.60	3.94	11.66
MW-102	04/25/06	15.60	8.24	7.36
MW-102	10/11/06	15.60	9.84	5.76
MW-102	11/19/08	15.60	8.79	6.81
MW-102	11/16/09	15.60	8.10	7.50
MW-102	10/28/10	15.60	8.64	6.96
MW-102	10/25/11	15.60	9.59	6.01
MW-102	05/30/12	15.60	8.27	7.33
MW-102	06/13/12	15.60	8.32	7.28
MW-102	09/26/12	15.60	9.53	6.07
MW-102	11/27/12	15.60	7.03	8.57
MW-102	02/22/13	15.60	7.88	7.72
MW-102	05/16/13	15.60	8.40	7.20
MW-102	09/06/13	15.60	9.36	6.24
MW-102	11/07/13	15.60	9.18	6.42
MW-102	04/22/14	15.60	7.69	7.91
MW-102	11/04/14	15.60	7.91	7.69
MW-102	03/10/15	15.60	7.90	7.70
MW-102	05/15/15	15.60	8.47	7.13
MW-102	07/29/15	15.60	9.39	6.21
MW-102	12/10/15	15.60	6.53	9.07
MW-102	02/23/16	15.60	6.78	8.82
MW-102	05/03/16	15.60	7.92	7.68
MW-102	08/30/16	15.60	8.98	6.62
MW-102	12/14/16	15.60	7.27	8.33
MW-102	03/13/17	15.60	6.75	8.85
MW-102	06/13/17	15.60	8.10	7.50
MW-102	08/22/17	15.60	9.20	6.40
MW-102	12/04/17	15.60	7.32	8.28
MW-102	03/06/18	15.60	8.61	6.99
MW-102	06/12/18	15.60	9.02	6.58
MW-102	09/05/18	15.60	9.47	6.13
MW-102	12/17/18	15.60	8.20	7.40
MW-102	03/18/19	15.60	7.69	7.91
MW-102	05/15/19	15.60	7.83	7.77
MW-102	09/17/19	15.60	9.36	6.24

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-102	12/09/19	15.60	9.23	6.37
MW-102	04/27/20	15.60	7.97	7.63
MW-102	06/29/20	15.60	8.53	7.07
MW-102	09/21/20	15.60	9.48	6.12
MW-102	12/14/20	15.60	8.31	7.29
MW-102	04/12/21	15.60	7.77	7.83
MW-102	06/14/21	15.60	8.47	7.13
MW-102	09/22/21	15.60	9.39	6.21
MW-102	12/16/21	15.60	6.81	8.79
MW-104	04/06/93	10.22	5.98	4.24
MW-104	05/13/93	10.22	6.79	3.43
MW-104	06/10/93	10.22	5.85	4.37
MW-104	07/08/93	10.22	6.13	4.09
MW-104	08/03/93	10.22	6.38	3.84
MW-104	09/08/93	10.22	6.72	3.50
MW-104	10/08/93	10.22	7.05	3.17
MW-104	11/05/93	10.22	7.26	2.96
MW-104	12/03/93	10.22	7.26	2.96
MW-104	01/05/94	10.22	6.64	3.58
MW-104	02/04/94	10.22	6.46	3.76
MW-104	08/28/95	10.22	6.43	3.79
MW-104	09/27/95	10.22	6.70	3.52
MW-104	04/27/99	10.22	2.41	7.81
MW-104	07/14/99	10.22	5.62	4.60
MW-104	10/18/99	10.22	6.80	3.42
MW-104	01/11/00	10.22	5.04	5.18
MW-104	04/05/00	10.22	4.80	5.42
MW-104	07/18/00	10.22	6.15	4.07
MW-104	10/02/00	10.22	7.02	3.20
MW-104	01/22/01	10.22	6.45	3.77
MW-104	07/23/01	10.22	7.39	2.83
MW-104	10/16/01	10.22	8.59	1.63
MW-104	04/23/02	10.22	5.91	4.31
MW-104	07/18/02	10.22	7.07	3.15
MW-104	10/23/02	10.22	7.74	2.48
MW-104	01/28/03	10.22	6.03	4.19
MW-104	04/15/03	10.22	5.75	4.47
MW-104	07/17/03	10.22	7.08	3.14
MW-104	10/15/03	10.22	7.76	2.46
MW-104	01/13/04	10.22	5.58	4.64
MW-104	04/19/04	13.46	6.30	7.16
MW-104	07/27/04	13.46	7.25	6.21
MW-104	10/18/04	13.46	7.34	6.12

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-104	01/24/05	13.46	6.27	7.19
MW-104	04/18/05	13.46	6.22	7.24
MW-104	07/12/05	13.46	6.81	6.65
MW-104	10/18/05	13.46	7.55	5.91
MW-104	01/25/06	13.46	4.78	8.68
MW-104	04/25/06	13.46	5.82	7.64
MW-104	10/11/06	13.46	7.54	5.92
MW-104	11/18/08	13.46	6.74	6.72
MW-104	04/08/09	13.46	6.27	7.19
MW-104	11/16/09	13.46	6.39	7.07
MW-104	04/27/10	13.46	5.45	8.01
MW-104	10/26/10	13.46	6.53	6.93
MW-104	10/25/11	13.46	7.15	6.31
MW-104	03/01/12	13.46	5.82	7.64
MW-104	05/30/12	13.46	5.74	7.72
MW-104	06/13/12	13.46	5.86	7.60
MW-104	08/23/12	13.46	6.50	6.96
MW-104	09/26/12	13.46	6.90	6.56
MW-104	11/27/12	13.46	5.24	8.22
MW-104	05/16/13	13.46	5.65	7.81
MW-104	11/07/13	13.46	6.44	7.02
MW-104	04/22/14	13.46	5.20	8.26
MW-104	11/05/14	13.46	6.02	7.44
MW-104	05/20/15	13.46	5.86	7.60
MW-104	12/09/15	13.46	5.32	8.14
MW-104	12/14/16	13.46	4.78	8.68
MW-104	06/13/17	13.46	5.41	8.05
MW-104	12/04/17	13.46	5.75	7.71
MW-104	06/12/18	13.46	5.96	7.50
MW-104	12/17/18	13.46	6.23	7.23
MW-104	05/15/19	13.46	5.97	7.49
MW-104	12/09/19	13.46	6.99	6.47
MW-104	06/29/20	13.46	6.22	7.24
MW-104	12/14/20	13.46	6.18	7.28
MW-104	04/12/21	13.46	5.30	8.16
MW-104	06/14/21	13.46	6.17	7.29
MW-104	12/15/21	13.46	4.99	8.47
MW-105	04/06/93	9.05	4.97	4.08
MW-105	05/13/93	9.05	4.88	4.17
MW-105	06/10/93	9.05	4.83	4.22
MW-105	07/08/93	9.05	5.20	3.85
MW-105	08/03/93	9.05	5.43	3.62
MW-105	09/08/93	9.05	6.76	2.29

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-105	10/08/93	9.05	6.06	2.99
MW-105	11/05/93	9.05	6.28	2.77
MW-105	12/03/93	9.05	6.18	2.87
MW-105	01/05/94	9.05	5.65	3.40
MW-105	02/04/94	9.05	5.63	3.42
MW-105	08/28/95	9.05	5.39	3.66
MW-105	09/27/95	9.05	5.70	3.35
MW-105	04/27/99	9.05	3.39	5.66
MW-105	07/14/99	9.05	4.58	4.47
MW-105	10/18/99	9.05	5.79	3.26
MW-105	01/11/00	9.05	3.97	5.08
MW-105	04/05/00	9.05	3.84	5.21
MW-105	07/18/00	9.05	4.90	4.15
MW-105	10/02/00	9.05	6.22	2.83
MW-105	01/22/01	9.05	5.56	3.49
MW-105	07/23/01	9.05	6.48	2.57
MW-105	04/23/02	9.05	5.25	3.80
MW-105	07/18/02	9.05	6.17	2.88
MW-105	10/23/02	9.05	6.78	2.27
MW-105	01/28/03	9.05	5.02	4.03
MW-105	04/15/03	9.05	4.97	4.08
MW-105	07/17/03	9.05	6.2	2.85
MW-105	10/15/03	9.05	6.66	2.39
MW-105	01/13/04	9.05	5.01	4.04
MW-105	04/19/04	12.18	5.51	6.67
MW-105	07/27/04	12.18	6.28	5.90
MW-105	10/18/04	12.18	6.15	6.03
MW-105	01/24/05	12.18	5.02	7.16
MW-105	04/18/05	12.18	5.19	6.99
MW-105	07/12/05	12.18	5.82	6.36
MW-105	10/18/05	12.18	6.44	5.74
MW-105	01/25/06	12.18	4.05	8.13
MW-105	04/25/06	12.18	5.00	7.18
MW-105	10/11/06	12.18	6.51	5.67
MW-105	11/19/08	12.18	5.52	6.66
MW-105	11/16/09	12.18	5.03	7.15
MW-105	10/26/10	12.18	5.33	6.85
MW-105	10/25/11	12.18	6.06	6.12
MW-105	11/26/12	12.18	3.82	8.36
MW-105	11/07/13	12.18	5.42	6.76
MW-105	11/05/14	12.18	4.62	7.56
MW-105	12/08/15	12.18	4.00	8.18
MW-105	12/14/16	12.18	4.15	8.03
MW-105	12/04/17	12.18	4.55	7.63

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-105	12/17/18	12.18	5.04	7.14
MW-105	12/09/19	12.18	5.83	6.35
MW-105	12/14/20	12.18	5.18	7.00
MW-105	04/12/21	12.18	4.55	7.63
MW-105	12/15/21	12.18	3.99	8.19
MW-111	04/06/93	8.61	4.95	3.66
MW-111	05/13/93	8.61	4.87	3.74
MW-111	06/10/93	8.61	4.84	3.77
MW-111	07/08/93	8.61	5.11	3.50
MW-111	08/03/93	8.61	5.29	3.32
MW-111	09/08/93	8.61	5.56	3.05
MW-111	10/08/93	8.61	5.81	2.80
MW-111	11/05/93	8.61	5.97	2.64
MW-111	12/03/93	8.61	5.93	2.68
MW-111	01/05/94	8.61	5.45	3.16
MW-111	02/04/94	8.61	5.28	3.33
MW-111	08/28/95	8.61	5.28	3.33
MW-111	09/27/95	8.61	5.45	3.16
MW-111	04/27/99	8.61	3.55	5.06
MW-111	07/14/99	8.61	4.65	3.96
MW-111	10/18/99	8.61	5.59	3.02
MW-111	01/11/00	8.61	4.18	4.43
MW-111	04/05/00	8.61	3.94	4.67
MW-111	07/13/00	8.61	5.30	3.31
MW-111	10/02/00	8.61	5.68	2.93
MW-111	01/22/01	8.61	5.37	3.24
MW-111	07/23/01	8.61	6.22	2.39
MW-111	10/16/01	8.61	7.37	1.24
MW-111	04/23/02	8.61	5.28	3.33
MW-111	07/18/02	8.61	5.94	2.67
MW-111	10/23/02	8.61	6.50	2.11
MW-111	01/28/03	8.61	5.05	3.56
MW-111	04/15/03	8.61	5.03	3.58
MW-111	07/17/03	8.61	6.05	2.56
MW-111	10/15/03	8.61	6.45	2.16
MW-111	01/13/04	8.61	4.84	3.77
MW-111	04/19/04	11.88	5.46	6.42
MW-111	07/27/04	11.88	6.16	5.72
MW-111	10/18/04	11.88	6.11	5.77
MW-111	01/24/05	11.88	5.33	6.55
MW-111	04/18/05	11.88	5.27	6.61
MW-111	07/12/05	11.88	5.75	6.13
MW-111	10/18/05	11.88	6.26	5.62

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-111	01/25/06	11.88	4.42	7.46
MW-111	04/25/06	11.88	4.88	7.00
MW-111	10/11/06	11.88	6.30	5.58
MW-111	11/19/08	11.88	8.62	3.26
MW-111	11/16/09	11.88	5.30	6.58
MW-111	10/26/10	11.88	5.35	6.53
MW-111	10/25/11	11.88	5.89	5.99
MW-111	05/30/12	11.88	4.81	7.07
MW-111	08/23/12	11.88	Not Measured	Not Measured
MW-111	11/29/12	11.88	4.14	7.74
MW-111	05/16/13	11.88	4.63	7.25
MW-111	11/07/13	11.88	5.10	6.78
MW-111	04/22/14	11.88	4.32	7.56
MW-111	11/05/14	11.88	4.58	7.30
MW-111	12/08/15	11.88	4.36	7.52
MW-111	12/14/16	11.88	4.04	7.84
MW-111	06/13/17	11.88	4.51	7.37
MW-111	12/04/17	11.88	4.59	7.29
MW-111	06/12/18	11.88	5.25	6.63
MW-111	12/17/18	11.88	4.98	6.90
MW-111	05/15/19	11.88	4.97	6.91
MW-111	12/09/19	11.88	5.66	6.22
MW-111	06/29/20	11.88	5.12	6.76
MW-111	12/14/20	11.88	5.10	6.78
MW-111	04/12/21	11.88	4.46	7.42
MW-111	06/14/21	11.88	5.10	6.78
MW-111	12/15/21	11.88	4.14	7.74
MW-112	04/06/93	9.98	6.69	3.29
MW-112	05/13/93	9.98	6.61	3.37
MW-112	06/10/93	9.98	6.51	3.47
MW-112	07/08/93	9.98	6.83	3.15
MW-112	08/03/93	9.98	7.00	2.98
MW-112	09/08/93	9.98	7.24	2.74
MW-112	10/08/93	9.98	7.50	2.48
MW-112	11/05/93	9.98	7.56	2.42
MW-112	12/03/93	9.98	7.41	2.57
MW-112	01/05/94	9.98	6.93	3.05
MW-112	02/04/94	9.98	6.83	3.15
MW-112	08/28/95	9.98	6.98	3.00
MW-112	09/27/95	9.98	7.13	2.85
MW-112	04/27/99	9.98	5.66	4.32
MW-112	07/14/99	9.98	6.57	3.41

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-112	10/18/99	9.98	7.36	2.62
MW-112	01/11/00	9.98	5.89	4.09
MW-112	04/05/00	9.98	5.81	4.17
MW-112	07/18/00	9.98	7.11	2.87
MW-112	10/02/00	9.98	7.57	2.41
MW-112	04/25/06	9.98	6.44	3.54
MW-112A	04/24/02	9.98	6.85	3.13
MW-112A	07/18/02	9.98	7.22	2.76
MW-112A	10/23/02	9.98	7.52	2.46
MW-112A	01/28/03	9.98	6.25	3.73
MW-112A	04/15/03	9.98	6.47	3.51
MW-112A	07/17/03	9.98	7.3	2.68
MW-112A	10/15/03	9.98	7.49	2.49
MW-112A	01/13/04	9.98	6.2	3.78
MW-112A	04/19/04	12.52	6.93	5.59
MW-112A	07/27/04	12.52	7.41	5.11
MW-112A	10/18/04	12.52	7.15	5.37
MW-112A	01/24/05	12.52	6.52	6.00
MW-112A	04/18/05	12.52	6.6	5.92
MW-112A	07/12/05	12.52	7.1	5.42
MW-112A	10/18/05	12.52	7.34	5.18
MW-112A	01/25/06	12.52	5.95	6.57
MW-112A	10/11/06	12.52	7.43	5.09
MW-112A	11/19/08	12.52	6.73	5.79
MW-112A	11/16/09	12.52	6.35	6.17
MW-112A	10/29/10	12.52	6.51	6.01
MW-112A	10/25/11	12.52	7.03	5.49
MW-112A	05/30/12	12.52	6.28	6.24
MW-112A	08/23/12	12.52	6.56	5.96
MW-112A	11/25/12	12.52	5.23	7.29
MW-112A	05/16/13	12.52	6.24	6.28
MW-112A	11/04/13	12.52	-	-
MW-112A	04/22/14	12.52	5.90	6.62
MW-112A	11/06/14	12.52	5.68	6.84
MW-112A	12/08/15	12.52	5.42	7.10
MW-112A	12/14/16	12.52	5.69	6.83
MW-112A	06/13/17	12.52	6.25	6.27
MW-112A	12/04/17	12.52	5.93	6.59
MW-112A	06/12/18	12.52	6.51	6.01
MW-112A	12/17/18	12.52	5.97	6.55
MW-112A	05/16/19	12.52	6.39	6.13
MW-112A	12/09/19	12.52	6.73	5.79
MW-112A	06/29/20	12.52	6.31	6.21

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-112A	12/14/20	12.52	6.45	6.07
MW-112A	04/12/21	12.52	6.11	6.41
MW-112A	06/14/21	12.52	6.40	6.12
MW-112A	12/15/21	12.52	5.52	7.00
MW-201	04/06/93	17.07	14.03	3.04
MW-201	05/13/93	17.07	14.02	3.05
MW-201	06/10/93	17.07	13.97	3.10
MW-201	07/08/93	17.07	14.25	2.82
MW-201	08/03/93	17.07	14.48	2.59
MW-201	09/08/93	17.07	14.68	2.39
MW-201	10/08/93	17.07	14.90	2.17
MW-201	11/05/93	17.07	15.03	2.04
MW-201	12/03/93	17.07	14.96	2.11
MW-201	01/05/94	17.07	14.10	2.97
MW-201	02/04/94	17.07	14.32	2.75
MW-201	08/28/95	17.07	14.49	2.58
MW-201	09/27/95	17.07	14.56	2.51
MW-201	04/27/99	17.07	13.04	4.03
MW-201	07/14/99	17.07	14.26	2.81
MW-201	10/18/99	17.07	14.93	2.14
MW-201	01/11/00	17.07	13.03	4.04
MW-201	04/05/00	17.07	13.90	3.17
MW-201	07/18/00	17.07	14.09	2.98
MW-201	10/02/00	17.07	14.82	2.25
MW-201	01/22/01	17.07	14.43	2.64
MW-201	07/23/01	17.07	14.95	2.12
MW-201	10/16/01	17.07	16.11	0.96
MW-201	04/24/02	17.07	14.23	2.84
MW-201	07/18/02	17.07	14.73	2.34
MW-201	10/23/02	17.07	15.13	1.94
MW-201	01/28/03	17.07	13.13	3.94
MW-201	04/15/03	17.07	13.58	3.49
MW-201	07/17/03	17.07	14.70	2.37
MW-201	10/15/03	17.07	14.99	2.08
MW-201	01/13/04	17.07	12.71	4.36
MW-201	04/19/04	20.18	14.07	6.11
MW-201	07/27/04	20.18	14.70	5.48
MW-201	10/18/04	20.18	14.70	5.48
MW-201	01/24/05	20.18	13.44	6.74
MW-201	04/18/05	20.18	13.73	6.45
MW-201	07/12/05	20.18	14.47	5.71
MW-201	10/18/05	20.18	14.99	5.19
MW-201	01/25/06	20.18	12.61	7.57

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-201	04/25/06	20.18	13.94	6.24
MW-201	10/11/06	20.18	15.00	5.18
MW-201	11/20/08	20.18	13.77	6.41
MW-201	11/16/09	20.18	13.74	6.44
MW-201	10/27/10	20.18	14.42	5.76
MW-201	10/26/11	20.18	14.94	5.24
MW-201	11/27/12	20.18	13.10	7.08
MW-201	02/22/13	20.18	13.74	6.44
MW-201	05/16/13	20.18	14.45	5.73
MW-201	09/06/13	20.18	14.78	5.40
MW-201	11/07/13	20.18	14.70	5.48
MW-201	04/22/14	20.18	13.42	6.76
MW-201	11/04/14	20.18	13.65	6.53
MW-201	03/10/15	20.18	13.64	6.54
MW-201	05/15/15	20.18	14.34	5.84
MW-201	07/29/15	20.18	14.65	5.53
MW-201	12/10/15	20.18	12.23	7.95
MW-201	02/23/16	20.18	12.33	7.85
MW-201	05/03/16	20.18	13.74	6.44
MW-201	08/30/16	20.18	14.04	6.14
MW-201	12/14/16	20.18	12.86	7.32
MW-201	03/13/17	20.18	12.18	8.00
MW-201	06/13/17	20.18	13.85	6.33
MW-201	08/22/17	20.18	14.43	5.75
MW-201	12/04/17	20.18	12.87	7.31
MW-201	03/06/18	20.18	13.28	6.90
MW-201	06/12/18	20.18	13.58	6.60
MW-201	09/05/18	20.18	8.22	11.96
MW-201	12/17/18	20.18	13.66	6.52
MW-201	03/18/19	20.18	13.14	7.04
MW-201	05/15/19	20.18	14.06	6.12
MW-201	09/17/19	20.18	14.64	5.54
MW-201	12/09/19	20.18	14.52	5.66
MW-201	04/27/20	20.18	14.05	6.13
MW-201	06/29/20	20.18	14.32	5.86
MW-201	09/21/20	20.18	14.59	5.59
MW-201	12/14/20	20.18	14.28	5.90
MW-201	04/12/21	20.18	13.74	6.44
MW-201	06/14/21	20.18	14.32	5.86
MW-201	09/22/21	20.18	14.68	5.50
MW-201	12/16/21	20.18	--	--
MW-202	04/06/93	16.77	13.23	3.54
MW-202	05/13/93	16.77	13.17	3.60

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-202	06/10/93	16.77	13.26	3.51
MW-202	07/08/93	16.77	13.54	3.23
MW-202	08/03/93	16.77	13.76	3.01
MW-202	09/08/93	16.77	14.04	2.73
MW-202	10/08/93	16.77	14.30	2.47
MW-202	11/05/93	16.77	14.48	2.29
MW-202	12/03/93	16.77	14.34	2.43
MW-202	01/05/94	16.77	13.73	3.04
MW-202	02/04/94	16.77	13.63	3.14
MW-202	08/28/95	16.77	13.78	2.99
MW-202	09/27/95	16.77	13.95	2.82
MW-202	04/27/99	16.77	12.38	4.39
MW-202	07/14/99	16.77	13.57	3.20
MW-202	10/18/99	16.77	14.31	2.46
MW-202	01/11/00	16.77	12.95	3.82
MW-202	04/05/00	16.77	12.96	3.81
MW-202	07/18/00	16.77	13.21	3.56
MW-202	10/02/00	16.77	14.25	2.52
MW-202	01/22/01	16.77	14.46	2.31
MW-202	07/23/01	16.77	14.64	2.13
MW-202	10/16/01	16.77	15.81	0.96
MW-202	04/24/02	16.77	13.80	2.97
MW-202	07/18/02	16.77	14.28	2.49
MW-202	10/23/02	16.77	14.73	2.04
MW-202	01/28/03	16.77	12.95	3.82
MW-202	04/15/03	16.77	13.13	3.64
MW-202	07/17/03	16.77	14.30	2.47
MW-202	10/15/03	16.77	14.62	2.15
MW-202	01/13/04	16.77	12.81	3.96
MW-202	04/19/04	19.86	13.61	6.25
MW-202	07/27/04	19.86	14.29	5.57
MW-202	10/18/04	19.86	14.30	5.56
MW-202	01/24/05	19.86	13.29	6.57
MW-202	04/18/05	19.86	13.51	6.35
MW-202	07/12/05	19.86	14.02	5.84
MW-202	10/18/05	19.86	14.59	5.27
MW-202	01/25/06	19.86	12.38	7.48
MW-202	04/25/06	19.86	13.43	6.43
MW-202	10/11/06	19.86	14.58	5.28
MW-202	11/20/08	19.86	13.92	5.94
MW-202	04/07/09	19.86	13.71	6.15
MW-202	11/16/09	19.86	13.70	6.16
MW-202	04/27/10	19.86	13.24	6.62
MW-202	10/27/10	19.86	14.04	5.82

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-202	10/26/11	19.86	14.45	5.41
MW-202	03/02/12	19.86	13.70	6.16
MW-202	05/30/12	19.86	13.65	6.21
MW-202	06/13/12	19.86	13.76	6.10
MW-202	09/26/12	19.86	14.42	5.44
MW-202	11/27/12	19.86	13.09	6.77
MW-202	02/22/13	19.86	13.27	6.59
MW-202	05/16/13	19.86	13.80	6.06
MW-202	09/06/13	19.86	14.38	5.48
MW-202	11/07/13	19.86	14.25	5.61
MW-202	04/22/14	19.86	13.23	6.63
MW-202	11/04/14	19.86	13.44	6.42
MW-202	03/10/15	19.86	13.23	6.63
MW-202	05/15/15	19.86	13.76	6.10
MW-202	07/29/15	19.86	14.18	5.68
MW-202	12/10/15	19.86	12.76	7.10
MW-202	02/23/16	19.86	12.15	7.71
MW-202	05/03/16	19.86	13.11	6.75
MW-202	08/30/16	19.86	14.00	5.86
MW-202	12/14/16	19.86	12.81	7.05
MW-202	03/13/17	19.86	12.25	7.61
MW-202	06/13/17	19.86	13.23	6.63
MW-202	08/22/17	19.86	13.98	5.88
MW-202	12/04/17	19.86	13.15	6.71
MW-202	03/06/18	19.86	13.03	6.83
MW-202	06/12/18	19.86	13.53	6.33
MW-202	09/05/18	19.86	8.20	11.66
MW-202	12/17/18	19.86	13.45	6.41
MW-202	03/18/19	19.86	12.95	6.91
MW-202	05/15/19	19.86	13.42	6.44
MW-202	09/17/19	19.86	14.16	5.70
MW-202	12/09/19	19.86	14.10	5.76
MW-202	04/27/20	19.86	13.49	6.37
MW-202	06/29/20	19.86	13.75	6.11
MW-202	09/21/20	19.86	14.20	5.66
MW-202	12/14/20	19.86	13.65	6.21
MW-202	04/12/21	19.86	13.15	6.71
MW-202	06/14/21	19.86	13.75	6.11
MW-202	09/22/21	19.86	14.20	5.66
MW-202	12/16/21	19.86	12.70	7.16
MW-203	04/06/93	11.04	7.39	3.65
MW-203	05/13/93	11.04	7.31	3.73
MW-203	06/10/93	11.04	7.40	3.64

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-203	07/08/93	11.04	7.66	3.38
MW-203	08/03/93	11.04	7.93	3.11
MW-203	09/08/93	11.04	8.20	2.84
MW-203	10/08/93	11.04	8.46	2.58
MW-203	11/05/93	11.04	8.65	2.39
MW-203	12/03/93	11.04	8.64	2.40
MW-203	01/05/94	11.04	7.99	3.05
MW-203	02/04/94	11.04	7.88	3.16
MW-203	08/28/95	11.04	7.86	3.18
MW-203	09/27/95	11.04	8.02	3.02
MW-203	04/27/99	11.04	6.32	4.72
MW-203	07/14/99	11.04	7.58	3.46
MW-203	10/18/99	11.04	8.42	2.62
MW-203	01/11/00	11.04	6.98	4.06
MW-203	04/05/00	11.04	6.92	4.12
MW-203	07/18/00	11.04	8.00	3.04
MW-203	10/02/00	11.04	8.40	2.64
MW-203	01/22/01	11.04	8.47	2.57
MW-203	07/23/01	11.04	8.69	2.35
MW-203	10/16/01	11.04	9.73	1.31
MW-203	04/24/02	11.04	7.45	3.59
MW-203	10/23/02	11.04	8.80	2.24
MW-203	01/28/03	11.04	6.76	4.28
MW-203	04/15/03	11.04	7.05	3.99
MW-203	07/17/03	11.04	8.25	2.79
MW-203	01/13/04	11.04	6.71	4.33
MW-203	04/19/04	13.99	7.58	6.41
MW-203	07/27/04	13.99	8.25	5.74
MW-203	10/18/04	13.99	8.34	5.65
MW-203	01/24/05	13.99	7.31	6.68
MW-203	04/18/05	13.99	7.43	6.56
MW-203	07/12/05	13.99	7.96	6.03
MW-203	10/18/05	13.99	8.64	5.35
MW-203	01/25/06	13.99	6.41	7.58
MW-203	04/25/06	13.99	7.18	6.81
MW-203	10/11/06	13.99	8.58	5.41
MW-203	11/18/08	13.99	8.01	5.98
MW-203	04/08/09	13.99	7.63	6.36
MW-203	11/16/09	13.99	4.97	9.02
MW-203	04/26/10	13.99	7.17	6.82
MW-203	10/25/10	13.99	8.10	5.89
MW-203	10/26/11	13.99	5.45	8.54
MW-203	05/30/12	13.99	7.61	6.38
MW-203	06/13/12	13.99	7.65	6.34

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-203	09/26/12	13.99	8.40	5.59
MW-203	11/27/12	13.99	7.25	6.74
MW-203	02/22/13	13.99	7.26	6.73
MW-203	05/16/13	13.99	7.80	6.19
MW-203	09/06/13	13.99	8.37	5.62
MW-203	11/07/13	13.99	8.27	5.72
MW-203	04/22/14	13.99	7.33	6.66
MW-203	11/04/14	13.99	7.59	6.40
MW-203	03/10/15	13.99	6.70	7.29
MW-203	05/15/15	13.99	7.74	6.25
MW-203	07/29/15	13.99	8.18	5.81
MW-203	12/10/15	13.99	6.83	7.16
MW-203	02/23/16	13.99	5.92	8.07
MW-203	05/03/16	13.99	7.02	6.97
MW-203	08/30/16	13.99	8.17	5.82
MW-203	12/14/16	13.99	6.62	7.37
MW-203	03/13/17	13.99	5.83	8.16
MW-203	06/13/17	13.99	7.17	6.82
MW-203	08/22/17	13.99	7.98	6.01
MW-203	12/04/17	13.99	7.24	6.75
MW-203	03/06/18	13.99	6.57	7.42
MW-203	06/12/18	13.99	7.55	6.44
MW-203	09/05/18	13.99	8.14	5.85
MW-203	12/17/18	13.99	7.68	6.31
MW-203	03/18/19	13.99	6.96	7.03
MW-203	05/16/19	13.99	7.38	6.61
MW-203	09/17/19	13.99	8.19	5.80
MW-203	12/09/19	13.99	8.13	5.86
MW-203	04/27/20	13.99	7.39	6.60
MW-203	06/29/20	13.99	7.55	6.44
MW-203	09/21/20	13.99	8.14	5.85
MW-203	12/14/20	13.99	7.62	6.37
MW-203	04/12/21	13.99	7.13	6.86
MW-203	06/14/21	13.99	7.75	6.24
MW-203	09/22/21	13.99	8.26	5.73
MW-203	12/16/21	13.99	6.80	7.19
MW-204	04/06/93	14.21	10.97	3.24
MW-204	05/13/93	14.21	10.92	3.29
MW-204	06/10/93	14.21	10.98	3.23
MW-204	07/08/93	14.21	11.20	3.01
MW-204	08/03/93	14.21	11.44	2.77
MW-204	09/08/93	14.21	11.64	2.57
MW-204	10/08/93	14.21	11.85	2.36

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-204	11/05/93	14.21	12.03	2.18
MW-204	12/03/93	14.21	12.01	2.20
MW-204	01/05/94	14.21	11.42	2.79
MW-204	02/04/94	14.21	11.35	2.86
MW-204	08/28/95	14.21	11.58	2.63
MW-204	09/27/95	14.21	11.57	2.64
MW-204	04/05/00	14.21	Not Measured	Not Measured
MW-204	10/02/00	14.21	Not Measured	Not Measured
MW-204	01/22/01	14.21	11.69	2.52
MW-204	07/23/01	14.21	12.05	2.16
MW-204	10/16/01	14.21	13.17	1.04
MW-204	07/27/04	14.21	11.67	2.54
MW-204	10/18/04	17.27	11.71	5.56
MW-204	01/24/05	17.27	10.72	6.55
MW-204	04/18/05	17.27	10.98	6.29
MW-204	07/12/05	17.27	11.4	5.87
MW-204	10/18/05	17.27	11.98	5.29
MW-204	01/25/06	17.27	9.96	7.31
MW-204	10/11/06	17.27	11.96	5.31
MW-204	11/20/08	17.27	11.45	5.82
MW-204	11/16/09	17.27	11.20	6.07
MW-204	10/27/10	17.27	11.54	5.73
MW-204	10/27/11	17.27	10.71	6.56
MW-204	03/26/12	17.27	Not Measured	Not Measured
MW-204	06/12/12	17.27	11.20	6.07
MW-204	09/27/12	17.27	Not Measured	Not Measured
MW-204	11/27/12	17.27	10.81	6.46
MW-204	12/20/12	17.27	Not Measured	Not Measured
MW-204	02/22/13	17.27	10.81	6.46
MW-204	05/16/13	17.27	11.30	5.97
MW-204	09/06/13	17.27	11.77	5.50
MW-204	11/07/13	17.27	11.71	5.56
MW-204	04/22/14	17.27	10.78	6.49
MW-204	11/04/14	17.27	11.04	6.23
MW-204	03/10/15	17.27	10.75	6.52
MW-204	05/15/15	17.27	11.21	6.06
MW-204	07/29/15	17.27	11.59	5.68
MW-204	12/10/15	17.27	9.91	7.36
MW-204	02/23/16	17.27	9.67	7.60
MW-204	05/03/16	17.27	10.53	6.74
MW-204	08/30/16	17.27	11.78	5.49
MW-204	12/14/16	17.27	10.34	6.93
MW-204	03/13/17	17.27	9.83	7.44
MW-204	08/22/17	17.27	11.34	5.93

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-204	12/04/17	17.27	10.84	6.43
MW-204	03/06/18	17.27	10.55	6.72
MW-204	06/12/18	17.27	11.04	6.23
MW-204	09/05/18	17.27	8.20	9.07
MW-204	12/17/18	17.27	11.10	6.17
MW-204	03/18/19	17.27	10.51	6.76
MW-204	05/15/19	17.27	10.98	6.29
MW-204	09/17/19	17.27	11.65	5.62
MW-204	12/09/19	17.27	11.54	5.73
MW-204	04/27/20	17.27	10.94	6.33
MW-204	06/29/20	17.27	11.26	6.01
MW-204	09/21/20	17.27	11.59	5.68
MW-204	12/14/20	17.27	11.22	6.05
MW-204	04/12/21	17.27	10.71	6.56
MW-204	06/14/21	17.27	11.27	6.00
MW-204	09/22/21	17.27	11.65	5.62
MW-204	12/16/21	17.27	10.42	6.85
MW-206	04/06/93	10.75	9.83	0.92
MW-206	05/13/93	10.75	6.72	4.03
MW-206	06/10/93	10.75	6.78	3.97
MW-206	07/08/93	10.75	7.08	3.67
MW-206	08/03/93	10.75	7.35	3.40
MW-206	09/08/93	10.75	7.66	3.09
MW-206	10/08/93	10.75	7.95	2.80
MW-206	11/05/93	10.75	8.15	2.60
MW-206	12/03/93	10.75	8.17	2.58
MW-206	01/05/94	10.75	7.42	3.33
MW-206	02/04/94	10.75	7.24	3.51
MW-206	08/28/95	10.75	7.01	3.74
MW-206	09/27/95	10.75	7.19	3.56
MW-206	04/27/99	10.75	5.59	5.16
MW-206	07/14/99	10.75	6.97	3.78
MW-206	10/18/99	10.75	7.88	2.87
MW-206	01/11/00	10.75	6.34	4.41
MW-206	04/05/00	10.75	6.32	4.43
MW-206	07/18/00	10.75	7.11	3.64
MW-206	10/02/00	10.75	7.92	2.83
MW-206	01/22/01	10.75	8.93	1.82
MW-206	04/25/06	10.75	9.30	1.45
MW-206	10/11/06	10.75	10.44	0.31
MW-206A	04/24/02	10.75	7.43	3.32
MW-206A	07/18/02	10.75	8.07	2.68

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-206A	10/23/02	10.75	8.55	2.20
MW-206A	01/28/03	10.75	6.40	4.35
MW-206A	04/15/03	10.75	5.26	5.49
MW-206A	07/17/03	10.75	8.06	2.69
MW-206A	04/19/04	15.90	9.51	6.39
MW-206A	07/27/04	15.90	10.23	5.67
MW-206A	10/18/04	15.90	10.17	5.73
MW-206A	01/24/05	15.90	9.18	6.72
MW-206A	04/18/05	15.90	9.38	6.52
MW-206A	07/12/05	15.90	9.87	6.03
MW-206A	10/18/05	15.90	10.50	5.40
MW-206A	01/25/06	15.90	8.23	7.67
MW-206A	11/20/08	15.90	9.81	6.09
MW-206A	11/16/09	15.90	9.48	6.42
MW-206A	10/25/10	15.90	9.74	6.16
MW-206A	10/26/11	15.90	10.25	5.65
MW-206A	05/30/12	15.90	9.44	6.46
MW-206A	06/13/12	15.90	9.49	6.41
MW-206A	09/26/12	15.90	10.21	5.69
MW-206A	11/27/12	15.90	9.05	6.85
MW-206A	02/22/13	15.90	9.04	6.86
MW-206A	05/16/13	15.90	8.44	7.46
MW-206A	09/06/13	15.90	10.06	5.84
MW-206A	11/07/13	15.90	10.04	5.86
MW-206A	04/22/14	15.90	9.01	6.89
MW-206A	11/04/14	15.90	9.25	6.65
MW-206A	03/10/15	15.90	9.03	6.87
MW-206A	05/15/15	15.90	9.49	6.41
MW-206A	07/29/15	15.90	9.99	5.91
MW-206A	12/10/15	15.90	8.36	7.54
MW-206A	02/23/16	15.90	8.09	7.81
MW-206A	05/03/16	15.90	9.03	6.87
MW-206A	08/30/16	15.90	10.25	5.65
MW-206A	12/14/16	15.90	8.51	7.39
MW-206A	03/13/17	15.90	7.98	7.92
MW-206A	06/13/17	15.90	9.02	6.88
MW-206A	08/22/17	15.90	9.74	6.16
MW-206A	12/04/17	15.90	9.07	6.83
MW-206A	03/06/18	15.90	8.78	7.12
MW-206A	06/12/18	15.90	6.90	9.00
MW-206A	09/05/18	15.90	9.94	5.96
MW-206A	12/17/18	15.90	9.23	6.67
MW-206A	03/18/19	15.90	8.86	7.04
MW-206A	05/15/19	15.90	9.30	6.60

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-206A	09/17/19	15.90	10.13	5.77
MW-206A	12/09/19	15.90	9.98	5.92
MW-206A	04/27/20	15.90	9.22	6.68
MW-206A	06/29/20	15.90	9.40	6.50
MW-206A	09/21/20	15.90	10.08	5.82
MW-206A	12/14/20	15.90	7.15	8.75
MW-206A	04/12/21	15.90	7.20	8.70
MW-206A	06/14/21	15.90	9.45	6.45
MW-206A	09/22/21	15.90	10.05	5.85
MW-206A	12/16/21	15.90	8.57	7.33
MW-208	06/28/13	--	4.98	--
MW-208	09/11/13	--	5.67	--
MW-208	10/30/13	--	5.97	--
MW-208	11/05/13	--	5.51	--
MW-208	01/16/14	--	5.46	--
MW-208	02/27/14	--	4.72	--
MW-208	03/25/14	--	4.91	--
MW-208	04/22/14	--	4.98	--
MW-208	06/10/14	--	5.62	--
MW-208	07/24/14	--	5.50	--
MW-208	08/28/14	--	5.73	--
MW-208	09/23/14	--	5.76	--
MW-208	10/22/14	--	4.82	--
MW-208	11/05/14	--	4.50	--
MW-208	12/18/14	12.16	4.28	7.88
MW-208	01/27/15	12.16	4.52	7.64
MW-208	02/26/15	12.16	4.92	7.24
MW-208	03/11/15	12.16	5.29	6.87
MW-208	04/21/15	12.16	5.08	7.08
MW-208	05/19/15	12.16	5.31	6.85
MW-208	06/11/15	12.16	5.34	6.82
MW-208	07/29/15	12.16	5.81	6.35
MW-208	08/25/15	12.16	5.95	6.21
MW-208	09/24/15	12.16	5.72	6.44
MW-208	10/15/15	12.16	5.35	6.81
MW-208	11/20/15	12.16	4.37	7.79
MW-208	12/09/15	12.16	2.55	9.61
MW-208	02/23/16	12.16	4.18	7.98
MW-208	04/22/16	12.16	4.90	7.26
MW-208	05/03/16	12.16	5.27	6.89
MW-208	06/02/16	12.16	5.34	6.82
MW-208	07/14/16	12.16	5.58	6.58
MW-208	08/18/16	12.16	5.80	6.36

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-208	09/08/16	12.16	5.88	6.28
MW-208	10/21/16	12.16	5.40	6.76
MW-208	11/17/16	12.16	3.67	8.49
MW-208	12/01/16	12.16	3.93	8.23
MW-208	01/11/17	12.16	2.83	9.33
MW-208	02/14/17	12.16	3.81	8.35
MW-208	03/13/17	12.16	4.04	8.12
MW-208	04/13/17	12.16	3.78	8.38
MW-208	05/08/17	12.16	4.78	7.38
MW-208	06/13/17	12.16	5.00	7.16
MW-208	07/18/17	12.16	5.32	6.84
MW-208	08/22/17	12.16	5.32	6.84
MW-208	09/13/17	12.16	5.68	6.48
MW-208	10/31/17	12.16	5.58	6.58
MW-208	11/13/17	12.16	4.67	7.49
MW-208	12/04/17	12.16	4.15	8.01
MW-208	03/06/18	12.16	4.57	7.59
MW-208	06/12/18	12.16	5.25	6.91
MW-208	09/05/18	12.16	5.75	6.41
MW-208	12/17/18	12.16	4.13	8.03
MW-208	01/16/19	12.16	4.48	7.68
MW-208	02/20/19	12.16	3.98	8.18
MW-208	03/18/19	12.16	4.95	7.21
MW-208	04/10/19	12.16	4.66	7.50
MW-208	05/15/19	12.16	4.91	7.25
MW-208	06/26/19	12.16	5.47	6.69
MW-208	07/24/19	12.16	5.43	6.73
MW-208	08/13/19	12.16	5.45	6.71
MW-208	09/17/19	12.16	5.23	6.93
MW-208	10/16/19	12.16	5.61	6.55
MW-208	11/05/19	12.16	5.62	6.54
MW-208	12/09/19	12.16	5.08	7.08
MW-208	01/28/20	12.16	3.05	9.11
MW-208	02/26/20	12.16	4.81	7.35
MW-208	04/27/20	12.16	5.18	6.98
MW-208	06/16/20	12.16	5.25	6.91
MW-208	06/29/20	12.16	5.08	7.08
MW-208	07/29/20	12.16	5.20	6.96
MW-208	08/27/20	12.16	5.41	6.75
MW-208	09/21/20	12.16	5.09	7.07
MW-208	10/29/20	12.16	5.58	6.58
MW-208	11/30/20	12.16	4.82	7.34
MW-208	12/14/20	12.16	4.75	7.41
MW-208	01/21/21	12.16	4.27	7.89

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-208	02/16/21	12.16	3.69	8.47
MW-208	03/23/21	12.16	4.53	7.63
MW-208	04/12/21	12.16	5.28	6.88
MW-208	05/12/21	12.16	5.54	6.62
MW-208	06/14/21	12.16	4.97	7.19
MW-208	07/15/21	12.16	5.31	6.85
MW-208	08/18/21	12.16	5.52	6.64
MW-208	09/22/21	12.16	5.46	6.70
MW-208	10/21/21	12.16	5.32	6.84
MW-208	11/23/21	12.16	4.28	7.88
MW-208	12/14/21	12.16	3.99	8.17
MW-209	09/11/13	--	6.61	--
MW-209	10/30/13	--	5.65	--
MW-209	01/16/14	--	5.56	--
MW-209	02/27/14	--	6.04	--
MW-209	03/25/14	--	5.90	--
MW-209	04/22/14	--	5.89	--
MW-209	06/10/14	--	8.31	--
MW-209	07/24/14	--	6.91	--
MW-209	08/28/14	--	6.79	--
MW-209	09/23/14	--	5.73	--
MW-209	10/22/14	--	4.91	--
MW-209	11/05/14	--	6.60	--
MW-209	12/18/14	12.10	5.27	6.83
MW-209	01/27/15	12.10	4.88	7.22
MW-209	02/26/15	12.10	5.54	6.56
MW-209	03/11/15	12.10	5.55	6.55
MW-209	05/19/15	12.10	8.60	3.50
MW-210	03/29/13	--	6.53	--
MW-210	06/28/13	--	6.35	--
MW-210	09/11/13	--	6.63	--
MW-210	10/30/13	--	7.08	--
MW-210	11/05/13	--	6.41	--
MW-210	01/16/14	--	6.48	--
MW-210	02/27/14	--	6.79	--
MW-210	03/25/14	--	6.96	--
MW-210	04/22/14	--	6.32	--
MW-210	06/10/14	--	7.08	--
MW-210	07/24/14	--	6.64	--
MW-210	08/28/14	--	6.72	--
MW-210	09/23/14	--	6.56	--
MW-210	10/22/14	--	5.87	--

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-210	11/05/14	--	6.45	--
MW-210	12/18/14	12.85	5.49	7.36
MW-210	01/27/15	12.85	6.15	6.70
MW-210	02/26/15	12.85	6.69	6.16
MW-210	03/11/15	12.85	6.56	6.29
MW-210	04/21/15	12.85	6.44	6.41
MW-210	05/19/15	12.85	6.50	6.35
MW-210	06/11/15	12.85	6.48	6.37
MW-210	07/29/15	12.85	6.73	6.12
MW-210	08/25/15	12.85	6.23	6.62
MW-210	09/24/15	12.85	6.60	6.25
MW-210	10/15/15	12.85	6.30	6.55
MW-210	11/20/15	12.85	6.47	6.38
MW-210	12/09/15	12.85	4.45	8.40
MW-210	02/23/16	12.85	5.82	7.03
MW-210	04/22/16	12.85	5.96	6.89
MW-210	05/03/16	12.85	6.42	6.43
MW-210	06/02/16	12.85	6.44	6.41
MW-210	07/14/16	12.85	6.67	6.18
MW-210	08/18/16	12.85	6.78	6.07
MW-210	09/08/16	12.85	6.78	6.07
MW-210	10/21/16	12.85	6.32	6.53
MW-210	11/17/16	12.85	5.43	7.42
MW-210	12/01/16	12.85	6.00	6.85
MW-210	01/11/17	12.85	5.38	7.47
MW-210	02/14/17	12.85	5.69	7.16
MW-210	03/13/17	12.85	5.98	6.87
MW-210	04/13/17	12.85	6.42	6.43
MW-210	05/08/17	12.85	6.74	6.11
MW-210	06/13/17	12.85	6.18	6.67
MW-210	07/18/17	12.85	6.47	6.38
MW-210	08/22/17	12.85	6.42	6.43
MW-210	09/13/17	12.85	6.60	6.25
MW-210	10/31/17	12.85	6.64	6.21
MW-210	11/13/17	12.85	6.08	6.77
MW-210	12/04/17	12.85	6.05	6.80
MW-210	03/06/18	12.85	6.19	6.66
MW-210	06/12/18	12.85	6.50	6.35
MW-210	09/05/18	12.85	6.74	6.11
MW-210	12/17/18	12.85	5.31	7.54
MW-210	01/16/19	12.85	6.07	6.78
MW-210	02/20/19	12.85	6.45	6.40
MW-210	03/18/19	12.85	6.67	6.18
MW-210	04/10/19	12.85	5.24	7.61

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-210	05/15/19	12.85	7.05	5.80
MW-210	06/26/19	12.85	6.58	6.27
MW-210	07/24/19	12.85	5.59	7.26
MW-210	08/13/19	12.85	6.58	6.27
MW-210	09/17/19	12.85	6.18	6.67
MW-210	10/16/19	12.85	6.47	6.38
MW-210	11/05/19	12.85	6.78	6.07
MW-210	12/09/19	12.85	6.27	6.58
MW-210	01/28/20	12.85	4.06	8.79
MW-210	02/26/20	12.85	5.78	7.07
MW-210	04/27/20	12.85	6.43	6.42
MW-210	06/16/20	12.85	5.56	7.29
MW-210	06/29/20	12.85	6.58	6.27
MW-210	07/29/20	12.85	6.43	6.42
MW-210	08/27/20	12.85	6.71	6.14
MW-210	09/21/20	12.85	6.35	6.50
MW-210	10/29/20	12.85	6.87	5.98
MW-210	11/30/20	12.85	6.23	6.62
MW-210	12/14/20	12.85	6.05	6.80
MW-210	01/21/21	12.85	6.96	5.89
MW-210	02/16/21	12.85	5.83	7.02
MW-210	03/23/21	12.85	6.57	6.28
MW-210	04/12/21	12.85	6.42	6.43
MW-210	05/12/21	12.85	6.61	6.24
MW-210	06/14/21	12.85	6.15	6.70
MW-210	07/15/21	12.85	6.36	6.49
MW-210	08/18/21	12.85	6.60	6.25
MW-210	09/22/21	12.85	6.50	6.35
MW-210	10/21/21	12.85	6.36	6.49
MW-210	11/23/21	12.85	6.20	6.65
MW-210	12/14/21	12.85	5.12	7.73
MW-211	03/29/13	--	5.97	--
MW-211	06/28/13	--	5.68	--
MW-211	10/30/13	--	6.43	--
MW-211	11/05/13	--	5.68	--
MW-211	01/16/14	--	5.51	--
MW-211	02/27/14	--	5.01	--
MW-211	03/25/14	--	5.38	--
MW-211	04/22/14	--	5.33	--
MW-211	06/10/14	--	6.02	--
MW-211	07/24/14	--	6.85	--
MW-211	08/28/14	--	6.06	--
MW-211	09/23/14	--	5.96	--

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	10/22/14	--	4.96	--
MW-211	11/05/14	--	4.70	--
MW-211	12/18/14	12.21	4.50	7.71
MW-211	01/27/15	12.21	4.82	7.39
MW-211	02/26/15	12.21	5.38	6.83
MW-211	03/11/15	12.21	5.52	6.69
MW-211	04/21/15	12.21	5.50	6.71
MW-211	05/19/15	12.21	5.71	6.50
MW-211	06/11/15	12.21	5.70	6.51
MW-211	07/29/15	12.21	6.10	6.11
MW-211	08/25/15	12.21	6.17	6.04
MW-211	09/24/15	12.21	5.72	6.49
MW-211	10/15/15	12.21	5.30	6.91
MW-211	11/20/15	12.21	4.78	7.43
MW-211	12/09/15	12.21	2.80	9.41
MW-211	02/23/16	12.21	4.45	7.76
MW-211	04/22/16	12.21	4.67	7.54
MW-211	05/03/16	12.21	5.63	6.58
MW-211	06/02/16	12.21	5.77	6.44
MW-211	07/14/16	12.21	6.02	6.19
MW-211	08/18/16	12.21	6.16	6.05
MW-211	09/08/16	12.21	6.22	5.99
MW-211	10/21/16	12.21	6.01	6.20
MW-211	11/17/16	12.21	3.86	8.35
MW-211	12/01/16	12.21	4.14	8.07
MW-211	01/11/17	12.21	3.18	9.03
MW-211	02/14/17	12.21	4.02	8.19
MW-211	03/13/17	12.21	4.27	7.94
MW-211	04/13/17	12.21	4.02	8.19
MW-211	05/08/17	12.21	5.32	6.89
MW-211	06/13/17	12.21	5.36	6.85
MW-211	07/18/17	12.21	5.78	6.43
MW-211	08/22/17	12.21	5.76	6.45
MW-211	09/13/17	12.21	Not Measured	Not Measured
MW-211	10/31/17	12.21	Not Measured	Not Measured
MW-211	11/13/17	12.21	Not Measured	Not Measured
MW-211	12/04/17	12.21	Not Measured	Not Measured
MW-211	03/06/18	12.21	5.03	7.18
MW-211	06/12/18	12.21	5.73	6.48
MW-211	09/05/18	12.21	6.16	6.05
MW-211	12/17/18	12.21	4.14	8.07
MW-211	01/16/19	12.21	4.30	7.91
MW-211	02/20/19	12.21	4.22	7.99
MW-211	03/18/19	12.21	5.34	6.87

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	04/10/19	12.21	4.66	7.55
MW-211	05/15/19	12.21	5.38	6.83
MW-211	06/26/19	12.21	6.88	5.33
MW-211	07/24/19	12.21	5.88	6.33
MW-211	08/13/19	12.21	5.72	6.49
MW-211	09/17/19	12.21	5.54	6.67
MW-211	10/16/19	12.21	5.77	6.44
MW-211	11/05/19	12.21	6.01	6.20
MW-211	12/09/19	12.21	5.54	6.67
MW-211	01/28/20	12.21	3.12	9.09
MW-211	02/26/20	12.21	5.19	7.02
MW-211	04/27/20	12.21	5.47	6.74
MW-211	06/16/20	12.21	5.72	6.49
MW-211	06/29/20	12.21	5.78	6.43
MW-211	07/29/20	12.21	5.67	6.54
MW-211	08/27/20	12.21	5.85	6.36
MW-211	09/21/20	12.21	5.45	6.76
MW-211	10/29/20	12.21	5.99	6.22
MW-211	11/30/20	12.21	5.11	7.10
MW-211	12/14/20	12.21	5.28	6.93
MW-211	01/21/21	12.21	4.82	7.39
MW-211	02/16/21	12.21	4.18	8.03
MW-211	03/23/21	12.21	5.37	6.84
MW-211	04/12/21	12.21	5.65	6.56
MW-211	05/12/21	12.21	5.86	6.35
MW-211	06/14/21	12.21	5.24	6.97
MW-211	07/15/21	12.21	5.60	6.61
MW-211	08/18/21	12.21	5.90	6.31
MW-211	09/22/21	12.21	5.70	6.51
MW-211	10/21/21	12.21	5.50	6.71
MW-211	11/23/21	12.21	4.42	7.79
MW-211	12/14/21	12.21	4.39	7.82
MW-212	03/29/13	--	4.90	--
MW-212	06/28/13	--	4.42	--
MW-212	09/11/13	--	5.32	--
MW-212	09/12/13	--	5.52	--
MW-212	10/30/13	--	5.28	--
MW-212	11/05/13	--	5.51	--
MW-212	01/16/14	--	5.47	--
MW-212	02/27/14	--	6.12	--
MW-212	03/25/14	--	6.30	--
MW-212	04/22/14	--	5.85	--
MW-212	06/10/14	--	Not Measured	Not Measured

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-212	07/24/14	--	6.06	--
MW-212	08/28/14	--	6.23	--
MW-212	09/23/14	--	6.08	--
MW-212	10/22/14	--	4.13	--
MW-212	11/05/14	--	5.12	--
MW-212	12/18/14	11.95	4.89	7.06
MW-212	01/27/15	11.95	5.38	6.57
MW-212	02/26/15	11.95	5.59	6.36
MW-212	03/11/15	11.95	5.45	6.50
MW-212	04/21/15	11.95	5.85	6.10
MW-212	05/19/15	11.95	5.67	6.28
MW-212	06/11/15	11.95	5.46	6.49
MW-212	07/29/15	11.95	5.85	6.10
MW-212	08/25/15	11.95	6.82	5.13
MW-212	09/24/15	11.95	6.33	5.62
MW-212	10/15/15	11.95	5.82	6.13
MW-212	11/20/15	11.95	5.51	6.44
MW-212	12/09/15	11.95	3.61	8.34
MW-212	02/23/16	11.95	4.38	7.57
MW-212	04/22/16	11.95	5.37	6.58
MW-212	05/03/16	11.95	6.00	5.95
MW-212	06/02/16	11.95	6.18	5.77
MW-212	07/14/16	11.95	6.27	5.68
MW-212	08/18/16	11.95	6.44	5.51
MW-212	09/08/16	11.95	6.55	5.40
MW-212	10/21/16	11.95	6.10	5.85
MW-212	11/17/16	11.95	4.68	7.27
MW-212	12/01/16	11.95	4.88	7.07
MW-212	01/11/17	11.95	3.88	8.07
MW-212	02/14/17	11.95	4.79	7.16
MW-212	03/13/17	11.95	4.98	6.97
MW-212	04/13/17	11.95	5.02	6.93
MW-212	05/08/17	11.95	5.31	6.64
MW-212	06/13/17	11.95	5.60	6.35
MW-212	07/18/17	11.95	5.83	6.12
MW-212	08/22/17	11.95	5.92	6.03
MW-212	09/13/17	11.95	6.21	5.74
MW-212	10/31/17	11.95	6.17	5.78
MW-212	11/13/17	11.95	4.98	6.97
MW-212	12/04/17	11.95	5.38	6.57
MW-212	03/06/18	11.95	5.46	6.49
MW-212	06/12/18	11.95	6.06	5.89
MW-212	09/05/18	11.95	6.35	5.60
MW-212	12/17/18	11.95	4.43	7.52

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-212	01/16/19	11.95	5.56	6.39
MW-212	02/20/19	11.95	4.32	7.63
MW-212	03/18/19	11.95	6.12	5.83
MW-212	04/10/19	11.95	5.78	6.17
MW-212	05/15/19	11.95	6.13	5.82
MW-212	06/26/19	11.95	6.11	5.84
MW-212	07/24/19	11.95	5.96	5.99
MW-212	08/13/19	11.95	6.02	5.93
MW-212	09/17/19	11.95	6.28	5.67
MW-212	10/16/19	11.95	6.36	5.59
MW-212	11/05/19	11.95	6.51	5.44
MW-212	12/09/19	11.95	6.14	5.81
MW-212	01/28/20	11.95	2.03	9.92
MW-212	02/26/20	11.95	4.97	6.98
MW-212	04/27/20	11.95	5.29	6.66
MW-212	06/16/20	11.95	6.25	5.70
MW-212	06/29/20	11.95	5.85	6.10
MW-212	07/29/20	11.95	6.31	5.64
MW-212	08/27/20	11.95	6.15	5.80
MW-212	09/21/20	11.95	6.23	5.72
MW-212	10/29/20	11.95	6.23	5.72
MW-212	11/30/20	11.95	5.10	6.85
MW-212	12/14/20	11.95	5.83	6.12
MW-212	01/21/21	11.95	5.63	6.32
MW-212	02/16/21	11.95	4.25	7.70
MW-212	03/23/21	11.95	5.74	6.21
MW-212	04/12/21	11.95	6.31	5.64
MW-212	05/12/21	11.95	6.21	5.74
MW-212	06/14/21	11.95	5.62	6.33
MW-212	07/15/21	11.95	6.01	5.94
MW-212	08/18/21	11.95	6.16	5.79
MW-212	09/22/21	11.95	6.10	5.85
MW-212	10/21/21	11.95	6.05	5.90
MW-212	11/23/21	11.95	5.19	6.76
MW-212	12/14/21	11.95	4.79	7.16
MW-213	07/23/01	8.57	10.17	-1.60
MW-213	10/16/01	8.57	5.81	2.76
MW-213	04/24/02	8.57	7.34	1.23
MW-213	07/18/02	8.57	7.39	1.18
MW-213	10/23/02	8.57	5.04	3.53
MW-213	01/28/03	8.57	4.60	3.97
MW-213	04/15/03	8.57	4.43	4.14
MW-213	07/17/03	8.57	10.24	-1.67

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-213	10/15/03	8.57	5.85	2.72
MW-213	01/13/04	8.57	5.02	3.55
MW-213	04/19/04	8.57	7.91	0.66
MW-213	07/27/04	8.57	6.94	1.63
MW-213	10/18/04	8.57	5.70	2.87
MW-213	01/24/05	8.57	4.70	3.87
MW-213	04/18/05	8.57	7.43	1.14
MW-213	07/12/05	8.57	8.72	-0.15
MW-213	10/18/05	8.57	7.24	1.33
MW-213	01/25/06	8.57	5.79	2.78
MW-213	04/25/06	8.57	7.82	0.75
MW-213	10/11/06	8.57	6.09	2.48
MW-213	11/19/08	8.57	5.98	2.59
MW-213	04/07/09	8.57	7.69	0.88
MW-213	11/16/09	8.57	4.97	3.60
MW-213	04/26/10	8.57	8.22	0.35
MW-213	10/28/10	8.57	5.33	3.24
MW-213	10/25/11	8.57	7.43	1.14
MW-213	06/12/12	8.57	7.84	0.73
MW-213	11/29/12	8.57	4.65	3.92
MW-213	05/15/13	8.57	8.86	-0.29
MW-213	10/30/13	8.57	5.45	3.12
MW-213	11/05/13	8.57	5.29	3.28
MW-213	04/22/14	8.57	6.39	2.18
MW-213	11/05/14	12.17	6.55	5.62
MW-213	05/19/15	12.17	7.85	4.32
MW-213	12/09/15	12.17	4.18	7.99
MW-213	12/14/16	12.17	5.22	6.95
MW-213	06/13/17	12.17	5.75	6.42
MW-213	12/04/17	12.17	6.33	5.84
MW-213	06/12/18	12.17	9.38	2.79
MW-213	12/17/18	12.17	3.87	8.30
MW-213	05/15/19	12.17	8.76	3.41
MW-213	12/09/19	12.17	6.26	5.91
MW-213	06/29/20	12.17	7.30	4.87
MW-213	12/14/20	12.17	5.21	6.96
MW-213	04/12/21	12.17	6.01	6.16
MW-213	06/14/21	12.17	5.45	6.72
MW-213	12/16/21	12.17	5.76	6.41
MW-214	07/23/01	8.63	10.37	-1.74
MW-214	10/19/01	8.63	5.74	2.89
MW-214	04/24/02	8.63	7.94	0.69
MW-214	07/18/02	8.63	7.25	1.38

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-214	10/23/02	8.63	5.85	2.78
MW-214	01/28/03	8.63	4.25	4.38
MW-214	04/15/03	8.63	4.66	3.97
MW-214	07/17/03	8.63	10.40	-1.77
MW-214	10/15/03	8.63	4.89	3.74
MW-214	01/13/04	8.63	4.86	3.77
MW-214	04/19/04	8.63	7.92	0.71
MW-214	07/27/04	8.63	6.42	2.21
MW-214	10/18/04	8.63	5.37	3.26
MW-214	01/24/05	8.63	5.00	3.63
MW-214	04/18/05	8.63	7.65	0.98
MW-214	07/12/05	8.63	8.82	-0.19
MW-214	10/18/05	8.63	7.18	1.45
MW-214	01/25/06	8.63	5.96	2.67
MW-214	04/25/06	8.63	7.80	0.83
MW-214	10/11/06	8.63	5.95	2.68
MW-214	11/19/08	8.63	5.50	3.13
MW-214	04/07/09	12.92	7.05	5.87
MW-214	11/16/09	12.92	5.28	7.64
MW-214	04/26/10	12.92	7.80	5.12
MW-214	10/28/10	12.92	5.25	7.67
MW-214	10/25/11	12.92	7.78	5.14
MW-214	06/12/12	12.92	7.80	5.12
MW-214	11/29/12	12.92	5.00	7.92
MW-214	05/15/13	12.92	9.23	3.69
MW-214	10/30/13	12.92	7.88	5.04
MW-214	11/05/13	12.92	5.38	7.54
MW-214	02/27/14	12.92	6.08	6.84
MW-214	04/22/14	12.92	6.78	6.14
MW-214	11/05/14	12.39	6.80	5.59
MW-214	05/19/15	12.39	8.10	4.29
MW-214	12/09/15	12.39	4.74	7.65
MW-214	12/14/16	12.39	5.58	6.81
MW-214	06/13/17	12.39	6.04	6.35
MW-214	12/04/17	12.39	6.41	5.98
MW-214	06/12/18	12.39	9.70	2.69
MW-214	12/17/18	12.39	4.13	8.26
MW-214	05/15/19	12.39	7.81	4.58
MW-214	12/09/19	12.39	6.39	6.00
MW-214	06/29/20	12.39	7.59	4.80
MW-214	12/14/20	12.39	5.32	7.07
MW-214	04/12/21	12.39	5.87	6.52
MW-214	06/14/21	12.39	5.63	6.76
MW-214	12/16/21	12.39	5.71	6.68

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-301	03/02/12	12.56	6.03	6.53
MW-301	05/30/12	12.56	6.03	6.53
MW-301	06/13/12	12.56	6.11	6.45
MW-301	09/26/12	12.56	6.82	5.74
MW-301	11/27/12	12.56	5.34	7.22
MW-301	02/21/13	12.56	5.66	6.90
MW-301	05/16/13	12.56	6.14	6.42
MW-301	09/06/13	12.56	6.71	5.85
MW-301	11/07/13	12.56	6.60	5.96
MW-301	04/22/14	12.56	5.56	7.00
MW-301	07/24/14	12.56	6.38	6.18
MW-301	09/23/14	12.56	6.71	5.85
MW-301	11/04/14	12.56	5.73	6.83
MW-301	03/10/15	12.56	5.64	6.92
MW-301	05/15/15	12.56	6.10	6.46
MW-301	07/29/15	12.56	6.63	5.93
MW-301	12/10/15	12.56	4.57	7.99
MW-301	02/23/16	12.56	4.50	8.06
MW-301	05/03/16	12.56	5.53	7.03
MW-301	08/30/16	12.56	6.68	5.88
MW-301	12/14/16	12.56	5.08	7.48
MW-301	03/13/17	12.56	7.60	4.96
MW-301	05/16/17	12.56	5.21	7.35
MW-301	06/13/17	12.56	5.70	6.86
MW-301	08/22/17	12.56	6.43	6.13
MW-301	12/04/17	12.56	5.40	7.16
MW-301	03/06/18	12.56	5.37	7.19
MW-301	06/12/18	12.56	5.90	6.66
MW-301	09/05/18	12.56	6.58	5.98
MW-301	12/17/18	12.56	5.75	6.81
MW-301	03/18/19	12.56	5.23	7.33
MW-301	05/16/19	12.56	5.74	6.82
MW-301	09/17/19	12.56	6.49	6.07
MW-301	12/09/19	12.56	6.41	6.15
MW-301	04/27/20	12.56	5.50	7.06
MW-301	06/29/20	12.56	5.85	6.71
MW-301	09/21/20	12.56	6.57	5.99
MW-301	12/14/20	12.56	5.90	6.66
MW-301	04/12/21	12.56	5.26	7.30
MW-301	06/14/21	12.56	5.95	6.61
MW-301	09/22/21	12.56	6.57	5.99
MW-301	12/16/21	12.56	4.67	7.89

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-302	03/01/12	12.85	6.47	6.38
MW-302	05/30/12	12.85	Not Measured	Not Measured
MW-302	06/13/12	12.85	Not Measured	Not Measured
MW-302	09/26/12	12.85	7.23	5.62
MW-302	11/27/12	12.85	5.83	7.02
MW-302	02/22/13	12.85	6.10	6.75
MW-302	05/16/13	12.85	6.61	6.24
MW-302	09/06/13	12.85	7.11	5.74
MW-302	11/07/13	12.85	6.99	5.86
MW-302	01/16/14	12.85	6.80	6.05
MW-302	04/22/14	12.85	6.09	6.76
MW-302	06/10/14	12.85	6.40	6.45
MW-302	07/24/14	12.85	6.85	6.00
MW-302	09/23/14	12.85	7.13	5.72
MW-302	11/04/14	12.85	6.28	6.57
MW-302	03/10/15	12.85	6.22	6.63
MW-302	05/15/15	12.85	6.60	6.25
MW-302	07/29/15	12.85	7.07	5.78
MW-302	12/10/15	12.85	5.12	7.73
MW-302	02/23/16	12.85	5.23	7.62
MW-302	05/03/16	12.85	6.15	6.70
MW-302	08/30/16	12.85	7.26	5.59
MW-302	12/14/16	12.85	5.74	7.11
MW-302	03/13/17	12.85	5.33	7.52
MW-302	05/16/17	12.85	5.79	7.06
MW-302	06/13/17	12.85	6.30	6.55
MW-302	08/22/17	12.85	6.92	5.93
MW-302	12/04/17	12.85	5.80	7.05
MW-302	03/06/18	12.85	5.91	6.94
MW-302	06/12/18	12.85	6.48	6.37
MW-302	09/05/18	12.85	6.96	5.89
MW-302	12/17/18	12.85	6.10	6.75
MW-302	03/18/19	12.85	5.65	7.20
MW-302	05/16/19	12.85	6.20	6.65
MW-302	09/17/19	12.85	7.33	5.52
MW-302	12/09/19	12.85	6.75	6.10
MW-302	04/27/20	12.85	5.95	6.90
MW-302	06/29/20	12.85	6.22	6.63
MW-302	09/21/20	12.85	6.92	5.93
MW-302	12/15/20	12.85	6.15	6.70
MW-302	04/13/21	12.85	5.67	7.18
MW-302	06/15/21	12.85	6.28	6.57
MW-302	09/23/21	12.85	6.84	6.01
MW-302	12/16/21	12.85	4.98	7.87

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-303	03/02/12	12.64	5.96	6.68
MW-303	05/30/12	12.64	5.97	6.67
MW-303	06/13/12	12.64	6.06	6.58
MW-303	09/26/12	12.64	6.86	5.78
MW-303	11/27/12	12.64	5.22	7.42
MW-303	02/21/13	12.64	5.58	7.06
MW-303	05/16/13	12.64	6.10	6.54
MW-303	09/06/13	12.64	6.80	5.84
MW-303	11/07/13	12.64	6.61	6.03
MW-303	04/22/14	12.64	5.49	7.15
MW-303	07/24/14	12.64	6.44	6.20
MW-303	09/23/14	12.64	6.80	5.84
MW-303	11/04/14	12.64	5.73	6.91
MW-303	03/10/15	12.64	5.62	7.02
MW-303	05/15/15	12.64	6.11	6.53
MW-303	07/29/15	12.64	6.71	5.93
MW-303	12/10/15	12.64	4.38	8.26
MW-303	02/23/16	12.64	4.44	8.20
MW-303	05/03/16	12.64	5.56	7.08
MW-303	08/30/16	12.64	6.82	5.82
MW-303	12/14/16	12.64	5.06	7.58
MW-303	03/13/17	12.64	4.51	8.13
MW-303	05/16/17	12.64	5.18	7.46
MW-303	06/13/17	12.64	5.75	6.89
MW-303	08/22/17	12.64	6.55	6.09
MW-303	12/04/17	12.64	5.35	7.29
MW-303	03/06/18	12.64	5.35	7.29
MW-303	06/12/18	12.64	6.07	6.57
MW-303	09/05/18	12.64	6.73	5.91
MW-303	12/17/18	12.64	5.83	6.81
MW-303	03/18/19	12.64	5.33	7.31
MW-303	05/16/19	12.64	5.89	6.75
MW-303	09/17/19	12.64	6.68	5.96
MW-303	12/09/19	12.64	6.54	6.10
MW-303	04/27/20	12.64	5.63	7.01
MW-303	06/29/20	12.64	6.10	6.54
MW-303	09/21/20	12.64	6.72	5.92
MW-303	12/14/20	12.64	5.95	6.69
MW-303	04/12/21	12.64	5.33	7.31
MW-303	06/14/21	12.64	6.00	6.64
MW-303	09/22/21	12.64	6.69	5.95
MW-303	12/15/21	12.64	4.61	8.03

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-304	03/01/12	12.70	6.07	6.63
MW-304	05/30/12	12.70	6.12	6.58
MW-304	06/13/12	12.70	6.22	6.48
MW-304	09/26/12	12.70	6.98	5.72
MW-304	11/27/12	12.70	5.43	7.27
MW-304	02/22/13	12.70	5.78	6.92
MW-304	05/16/13	12.70	Not Measured	Not Measured
MW-304	09/06/13	12.70	6.89	5.81
MW-304	11/07/13	12.70	6.75	5.95
MW-304	01/16/14	12.70	6.50	6.20
MW-304	04/22/14	12.70	5.67	7.03
MW-304	07/24/14	12.70	6.57	6.13
MW-304	09/23/14	12.70	6.89	5.81
MW-304	11/04/14	12.70	5.91	6.79
MW-304	03/10/15	12.70	5.80	6.90
MW-304	05/15/15	12.70	6.28	6.42
MW-304	07/29/15	12.70	6.84	5.86
MW-304	12/10/15	12.70	4.80	7.90
MW-304	02/23/16	12.70	Not Measured	Not Measured
MW-304	05/03/16	12.70	5.79	6.91
MW-304	08/30/16	12.70	Not Measured	Not Measured
MW-304	12/14/16	12.70	5.27	7.43
MW-304	03/13/17	12.70	4.82	7.88
MW-304	06/13/17	12.70	5.95	6.75
MW-304	08/22/17	12.70	6.67	6.03
MW-304	12/04/17	12.70	5.53	7.17
MW-304	03/06/18	12.70	5.46	7.24
MW-304	06/12/18	12.70	6.18	6.52
MW-304	09/05/18	12.70	6.78	5.92
MW-304	12/17/18	12.70	5.90	6.80
MW-304	03/18/19	12.70	5.39	7.31
MW-304	05/16/19	12.70	5.98	6.72
MW-304	09/17/19	12.70	6.67	6.03
MW-304	12/09/19	12.70	6.58	6.12
MW-304	04/27/20	12.70	5.71	6.99
MW-304	06/29/20	12.70	6.10	6.60
MW-304	09/21/20	12.70	6.78	5.92
MW-304	12/14/20	12.70	6.00	6.70
MW-304	04/12/21	12.70	5.42	7.28
MW-304	06/14/21	12.70	6.05	6.65
MW-304	09/22/21	12.70	6.72	5.98
MW-304	12/16/21	12.70	4.69	8.01
MW-305	03/01/12	13.48	6.47	7.01

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-305	05/30/12	13.48	6.43	7.05
MW-305	06/11/12	13.48	6.43	7.05
MW-305	09/26/12	13.48	7.22	6.26
MW-305	11/28/12	13.48	5.86	7.62
MW-305	05/16/13	13.48	6.01	7.47
MW-305	11/07/13	13.48	6.40	7.08
MW-305	04/22/14	13.48	5.92	7.56
MW-305	11/06/14	13.48	6.22	7.26
MW-305	05/21/15	13.48	6.32	7.16
MW-306	03/01/12	13.36	6.24	7.12
MW-306	05/30/12	13.36	6.14	7.22
MW-306	06/11/12	13.36	6.12	7.24
MW-306	09/26/12	13.36	6.99	6.37
MW-306	11/28/12	13.36	5.64	7.72
MW-306	05/16/13	13.36	5.57	7.79
MW-306	11/07/13	13.36	6.04	7.32
MW-306	04/22/14	13.36	5.63	7.73
MW-306	05/21/15	13.36	5.99	7.37
MW-306	12/10/15	13.36	4.80	8.56
MW-307	11/27/12	15.62	7.94	7.68
MW-307	02/22/13	15.62	8.42	7.20
MW-307	05/16/13	15.62	8.91	6.71
MW-307	09/06/13	15.62	9.67	5.95
MW-307	11/07/13	15.62	9.49	6.13
MW-307	04/22/14	15.62	8.52	7.10
MW-307	03/10/15	15.62	8.42	7.20
MW-307	05/15/15	15.62	8.92	6.70
MW-307	07/29/15	15.62	9.58	6.04
MW-307	12/10/15	15.62	7.33	8.29
MW-307	02/23/16	15.62	7.24	8.38
MW-307	05/03/16	15.62	8.39	7.23
MW-307	08/30/16	15.62	9.51	6.11
MW-307	12/14/16	15.62	7.84	7.78
MW-307	03/13/17	15.62	7.32	8.30
MW-307	05/16/17	15.62	8.02	7.60
MW-307	06/13/17	15.62	8.51	7.11
MW-307	08/22/17	15.62	9.42	6.20
MW-307	09/25/17	15.62	9.76	5.86
MW-307	12/04/17	15.62	8.18	7.44
MW-307	03/06/18	15.62	8.16	7.46
MW-307	06/12/18	15.62	8.70	6.92
MW-307	09/05/18	15.62	9.61	6.01

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-307	12/17/18	15.62	8.62	7.00
MW-307	03/18/19	15.62	8.07	7.55
MW-307	05/15/19	15.62	8.69	6.93
MW-307	09/17/19	15.62	9.52	6.10
MW-307	12/09/19	15.62	9.39	6.23
MW-307	04/27/20	15.62	8.42	7.20
MW-307	06/29/20	15.62	8.83	6.79
MW-307	09/21/20	15.62	9.57	6.05
MW-307	12/14/20	15.62	8.72	6.90
MW-307	04/12/21	15.62	8.10	7.52
MW-307	06/14/21	15.62	8.80	6.82
MW-307	09/22/21	15.62	9.54	6.08
MW-307	12/14/21	15.62	7.32	8.30
MW-308	11/27/12	15.59	7.90	7.69
MW-308	02/22/13	15.59	8.22	7.37
MW-308	05/16/13	15.59	8.80	6.79
MW-308	09/06/13	15.59	9.56	6.03
MW-308	11/07/13	15.59	9.45	6.14
MW-308	04/22/14	15.59	8.10	7.49
MW-308	11/04/14	15.59	8.40	7.19
MW-308	03/10/15	15.59	8.31	7.28
MW-308	05/15/15	15.59	9.01	6.58
MW-308	07/29/15	15.59	9.62	5.97
MW-308	12/10/15	15.59	6.15	9.44
MW-308	02/23/16	15.59	6.88	8.71
MW-308	05/03/16	15.59	8.20	7.39
MW-308	08/30/16	15.59	9.59	6.00
MW-308	12/14/16	15.59	7.56	8.03
MW-308	03/13/17	15.59	6.72	8.87
MW-308	05/16/17	15.59	7.69	7.90
MW-308	06/13/17	15.59	8.38	7.21
MW-308	08/22/17	15.59	9.29	6.30
MW-308	09/25/17	15.59	9.74	5.85
MW-308	12/04/17	15.59	7.90	7.69
MW-308	03/06/18	15.59	7.98	7.61
MW-308	06/12/18	15.59	8.78	6.81
MW-308	09/05/18	15.59	9.55	6.04
MW-308	12/17/18	15.59	8.38	7.21
MW-308	03/18/19	15.59	8.02	7.57
MW-308	05/15/19	15.59	8.65	6.94
MW-308	09/17/19	15.59	9.49	6.10
MW-308	12/09/19	15.59	9.34	6.25
MW-308	04/27/20	15.59	8.32	7.27

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-308	06/29/20	15.59	8.78	6.81
MW-308	09/21/20	15.59	9.53	6.06
MW-308	12/14/20	15.59	8.70	6.89
MW-308	04/12/21	15.59	8.00	7.59
MW-308	06/14/21	15.59	8.65	6.94
MW-308	09/22/21	15.59	9.50	6.09
MW-308	12/14/21	15.59	7.07	8.52
MW-309	11/27/12	12.67	5.41	7.26
MW-309	02/21/13	12.67	5.73	6.94
MW-309	05/16/13	12.67	6.21	6.46
MW-309	09/06/13	12.67	6.84	5.83
MW-309	11/07/13	12.67	6.76	5.91
MW-309	04/22/14	12.67	5.60	7.07
MW-309	07/24/14	12.67	6.47	6.20
MW-309	09/23/14	12.67	6.81	5.86
MW-309	11/04/14	12.67	5.81	6.86
MW-309	03/10/15	12.67	5.72	6.95
MW-309	05/15/15	12.67	6.18	6.49
MW-309	07/29/15	12.67	6.74	5.93
MW-309	12/10/15	12.67	4.59	8.08
MW-309	02/23/16	12.67	4.70	7.97
MW-309	05/03/16	12.67	5.60	7.07
MW-309	08/30/16	12.67	6.75	5.92
MW-309	12/12/16	12.67	5.12	7.55
MW-309	03/13/17	12.67	4.62	8.05
MW-309	06/13/17	12.67	5.76	6.91
MW-309	08/22/17	12.67	6.56	6.11
MW-309	12/04/17	12.67	5.52	7.15
MW-309	03/06/18	12.67	5.40	7.27
MW-309	06/12/18	12.67	6.18	6.49
MW-309	09/05/18	12.67	6.72	5.95
MW-309	12/17/18	12.67	5.93	6.74
MW-309	03/18/19	12.67	5.41	7.26
MW-309	05/16/19	12.67	5.95	6.72
MW-309	09/17/19	12.67	6.74	5.93
MW-309	12/09/19	12.67	6.59	6.08
MW-309	04/27/20	12.67	5.74	6.93
MW-309	06/29/20	12.67	6.00	6.67
MW-309	09/21/20	12.67	6.75	5.92
MW-309	12/14/20	12.67	6.08	6.59
MW-309	04/12/21	12.67	5.42	7.25
MW-309	06/14/21	12.67	6.10	6.57
MW-309	09/22/21	12.67	6.72	5.95

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-309	12/15/21	12.67	4.84	7.83
MW-310	11/27/12	13.51	6.42	7.09
MW-310	02/21/13	13.51	6.78	6.73
MW-310	05/16/13	13.51	7.20	6.31
MW-310	09/06/13	13.51	7.72	5.79
MW-310	11/07/13	13.51	7.61	5.90
MW-310	01/16/14	13.51	7.39	6.12
MW-310	04/23/14	13.51	6.64	6.87
MW-310	07/24/14	13.51	7.43	6.08
MW-310	09/23/14	13.51	7.73	5.78
MW-310	11/04/14	13.51	6.84	6.67
MW-310	03/10/15	13.51	6.78	6.73
MW-310	05/15/15	13.51	7.19	6.32
MW-310	07/29/15	13.51	7.67	5.84
MW-310	12/10/15	13.51	5.80	7.71
MW-310	02/23/16	13.51	5.77	7.74
MW-310	05/03/16	13.51	6.70	6.81
MW-310	08/30/16	13.51	7.76	5.75
MW-310	12/14/16	13.51	6.32	7.19
MW-310	03/13/17	13.51	5.90	7.61
MW-310	05/16/17	13.51	6.39	7.12
MW-310	06/13/17	13.51	6.88	6.63
MW-310	08/22/17	13.51	7.56	5.95
MW-310	12/04/17	13.51	6.48	7.03
MW-310	03/06/18	13.51	6.52	6.99
MW-310	06/12/18	13.51	7.08	6.43
MW-310	09/05/18	13.51	7.57	5.94
MW-310	12/17/18	13.51	6.73	6.78
MW-310	03/18/19	13.51	5.28	8.23
MW-310	05/16/19	13.51	6.92	6.59
MW-310	09/17/19	13.51	7.59	5.92
MW-310	12/09/19	13.51	7.41	6.10
MW-310	04/27/20	13.51	6.60	6.91
MW-310	06/29/20	13.51	6.78	6.73
MW-310	09/21/20	13.51	7.57	5.94
MW-310	12/14/20	13.51	8.95	4.56
MW-310	04/12/21	13.51	6.41	7.10
MW-310	06/14/21	13.51	6.98	6.53
MW-310	09/22/21	13.51	7.62	5.89
MW-310	12/16/21	13.51	5.58	7.93
MW-311	11/05/14	14.91	8.03	6.88
MW-311	03/10/15	14.91	8.02	6.89

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-311	05/15/15	14.91	8.42	6.49
MW-311	07/29/15	14.91	8.83	6.08
MW-311	12/10/15	14.91	7.08	7.83
MW-311	02/23/16	14.91	6.97	7.94
MW-311	05/03/16	14.91	7.92	6.99
MW-311	08/30/16	14.91	8.92	5.99
MW-311	12/14/16	14.91	7.53	7.38
MW-311	03/13/17	14.91	7.10	7.81
MW-311	06/13/17	14.91	8.05	6.86
MW-311	08/22/17	14.91	8.70	6.21
MW-311	12/04/17	14.91	7.70	7.21
MW-311	03/06/18	14.91	7.74	7.17
MW-311	06/12/18	14.91	8.32	6.59
MW-311	09/05/18	14.91	8.78	6.13
MW-311	12/17/18	14.91	8.02	6.89
MW-311	03/18/19	14.91	7.63	7.28
MW-311	05/15/19	14.91	8.06	6.85
MW-311	09/17/19	14.91	8.78	6.13
MW-311	12/09/19	14.91	8.64	6.27
MW-311	04/27/20	14.91	7.94	6.97
MW-311	06/29/20	14.91	8.24	6.67
MW-311	09/21/20	14.91	8.80	6.11
MW-311	12/14/20	14.91	8.20	6.71
MW-311	04/12/21	14.91	7.68	7.23
MW-311	06/14/21	14.91	--	--
MW-311	09/22/21	14.91	8.79	6.12
MW-311	12/16/21	14.91	7.05	7.86
MW-312	11/05/14	14.31	7.58	6.73
MW-312	03/10/15	14.31	7.56	6.75
MW-312	05/15/15	14.31	7.95	6.36
MW-312	07/29/15	14.31	8.34	5.97
MW-312	12/10/15	14.31	6.97	7.34
MW-312	02/23/16	14.31	6.68	7.63
MW-312	05/03/16	14.31	7.49	6.82
MW-312	08/30/16	14.31	8.44	5.87
MW-312	12/14/16	14.31	7.10	7.21
MW-312	03/13/17	14.31	6.75	7.56
MW-312	06/13/17	14.31	7.61	6.70
MW-312	08/22/17	14.31	8.22	6.09
MW-312	12/04/17	14.31	7.36	6.95
MW-312	03/06/18	14.31	7.32	6.99
MW-312	06/12/18	14.31	7.83	6.48
MW-312	09/05/18	14.31	8.31	6.00

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-312	12/17/18	14.31	7.57	6.74
MW-312	03/18/19	14.31	7.23	7.08
MW-312	05/15/19	14.31	7.59	6.72
MW-312	09/17/19	14.31	8.26	6.05
MW-312	12/09/19	14.31	8.12	6.19
MW-312	04/27/20	14.31	7.52	6.79
MW-312	06/29/20	14.31	7.70	6.61
MW-312	09/21/20	14.31	8.30	6.01
MW-312	12/14/20	14.31	7.77	6.54
MW-312	04/12/21	14.31	7.31	7.00
MW-312	06/14/21	14.31	7.80	6.51
MW-312	09/22/21	14.31	8.25	6.06
MW-312	12/16/21	14.31	6.63	7.68
MW-313	08/30/16	13.25	7.05	6.20
MW-313	12/14/16	13.25	5.63	7.62
MW-313	03/13/17	13.25	5.31	7.94
MW-313	06/13/17	13.25	6.10	7.15
MW-313	08/22/17	13.25	6.80	6.45
MW-313	12/04/17	13.25	5.77	7.48
MW-313	03/06/18	13.25	5.87	7.38
MW-313	06/12/18	13.25	6.38	6.87
MW-313	09/05/18	13.25	6.98	6.27
MW-313	12/17/18	13.25	6.04	7.21
MW-313	03/18/19	13.25	5.87	7.38
MW-313	05/15/19	13.25	6.21	7.04
MW-313	09/17/19	13.25	6.82	6.43
MW-313	12/09/19	13.25	6.74	6.51
MW-313	04/27/20	13.25	6.03	7.22
MW-313	06/29/20	13.25	6.36	6.89
MW-313	09/21/20	13.25	6.95	6.30
MW-313	12/14/20	13.25	6.27	6.98
MW-313	04/12/21	13.25	5.96	7.29
MW-313	06/14/21	13.25	6.27	6.98
MW-313	09/22/21	13.25	6.83	6.42
MW-313	12/16/21	13.25	5.11	8.14
MW-314	08/30/16	13.49	7.72	5.77
MW-314	12/14/16	13.49	6.77	6.72
MW-314	03/13/17	13.49	6.55	6.94
MW-314	06/13/17	13.49	7.08	6.41
MW-314	08/22/17	13.49	7.55	5.94
MW-314	12/04/17	13.49	7.00	6.49
MW-314	03/06/18	13.49	6.99	6.50

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-314	06/12/18	13.49	7.38	6.11
MW-314	09/05/18	13.49	7.66	5.83
MW-314	12/17/18	13.49	6.98	6.51
MW-314	03/18/19	13.49	6.92	6.57
MW-314	05/16/19	13.49	7.13	6.36
MW-314	09/17/19	13.49	Not Measured	Not Measured
MW-314	12/09/19	13.49	7.46	6.03
MW-314	04/27/20	13.49	7.19	6.30
MW-314	06/29/20	13.49	7.40	6.09
MW-314	09/22/20	13.49	7.53	5.96
MW-314	12/15/20	13.49	7.31	6.18
MW-314	04/13/21	13.49	7.13	6.36
MW-314	06/14/21	13.49	--	--
MW-314	09/22/21	13.49	--	--
MW-314	12/16/21	13.49	--	--
MW-315	08/30/16	14.61	8.56	6.05
MW-315	12/14/16	14.61	7.26	7.35
MW-315	03/13/17	14.61	6.93	7.68
MW-315	06/13/17	14.61	7.72	6.89
MW-315	08/22/17	14.61	8.32	6.29
MW-315	12/04/17	14.61	7.45	7.16
MW-315	03/06/18	14.61	7.47	7.14
MW-315	06/12/18	14.61	7.98	6.63
MW-315	09/05/18	14.61	8.46	6.15
MW-315	12/17/18	14.61	7.64	6.97
MW-315	03/18/19	14.61	7.43	7.18
MW-315	05/15/19	14.61	7.73	6.88
MW-315	09/17/19	14.61	9.43	5.18
MW-315	12/09/19	14.61	8.21	6.40
MW-315	04/27/20	14.61	7.64	6.97
MW-315	06/29/20	14.61	7.95	6.66
MW-315	09/21/20	14.61	8.41	6.20
MW-315	12/14/20	14.61	7.77	6.84
MW-315	04/12/21	14.61	7.52	7.09
MW-315	06/14/21	14.61	7.90	6.71
MW-315	09/22/21	14.61	8.34	6.27
MW-315	12/16/21	14.61	6.76	7.85
SH-04	07/08/93	12.92	9.94	2.98
SH-04	08/03/93	12.92	10.15	2.77
SH-04	09/08/93	12.92	10.50	2.42
SH-04	10/08/93	12.92	10.72	2.20
SH-04	11/05/93	12.92	10.88	2.04

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
SH-04	12/03/93	12.92	10.78	2.14
SH-04	01/05/94	12.92	10.20	2.72
SH-04	02/04/94	12.92	10.12	2.80
SH-04	08/28/95	12.92	10.15	2.77
SH-04	09/27/95	12.92	10.37	2.55
SH-04	04/27/99	12.92	8.55	4.37
SH-04	07/14/99	12.92	7.63	5.29
SH-04	10/18/99	12.92	10.58	2.34
SH-04	01/11/00	12.92	9.06	3.86
SH-04	04/05/00	12.92	8.94	3.98
SH-04	07/18/00	12.92	9.96	2.96
SH-04	10/02/00	12.92	10.62	2.30
SH-04	01/22/01	12.92	10.13	2.79
SH-04	07/23/01	12.92	6.98	5.94
SH-04	10/16/01	12.92	12.20	0.72
SH-04	04/23/02	12.92	9.91	3.01
SH-04	07/18/02	12.92	10.74	2.18
SH-04	10/23/02	12.92	11.27	1.65
SH-04	01/28/03	12.92	9.73	3.19
SH-04	04/15/03	12.92	9.69	3.23
SH-04	07/17/03	12.92	10.78	2.14
SH-04	10/15/03	12.92	11.19	1.73
SH-04	01/13/04	12.92	9.61	3.31
SH-04	04/19/04	16.62	10.05	6.57
SH-04	07/27/04	16.62	10.90	5.72
SH-04	10/18/04	16.62	10.89	5.73
SH-04	01/24/05	16.62	10.03	6.59
SH-04	04/18/05	16.62	10.03	6.59
SH-04	07/12/05	16.62	10.51	6.11
SH-04	10/18/05	16.62	11.01	5.61
SH-04	01/25/06	16.62	8.98	7.64
SH-04	10/11/06	16.62	11.06	5.56
SH-04	11/20/08	16.62	10.40	6.22
SH-04	04/08/09	16.62	10.01	6.61
SH-04	11/16/09	16.62	10.09	6.53
SH-04	04/27/10	16.62	9.33	7.29
SH-04	10/25/10	16.62	10.23	6.39
SH-04	10/27/11	16.62	10.68	5.94
SH-04	03/01/12	16.62	9.63	6.99
SH-04	05/30/12	16.62	9.56	7.06
SH-04	06/11/12	16.62	9.55	7.07
SH-04	08/23/12	16.62	9.95	6.67
SH-04	09/25/12	16.62	10.21	6.41
SH-04	11/25/12	16.62	8.77	7.85

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
SH-04	05/16/13	16.62	8.64	7.98
SH-04	11/04/13	16.62	8.75	7.87
SH-04	04/22/14	16.62	9.00	7.62
SH-04	11/06/14	16.62	9.23	7.39
SH-04	05/21/15	16.62	9.15	7.47
SH-04	12/08/15	16.62	8.80	7.82
SH-04	12/14/16	16.62	8.34	8.28
SH-04	06/13/17	16.62	8.75	7.87
SH-04	12/04/17	16.62	9.33	7.29
SH-04	06/12/18	16.62	9.39	7.23
SH-04	12/17/18	16.62	9.65	6.97
SH-04	05/16/19	16.62	9.72	6.90
SH-04	12/09/19	16.62	10.50	6.12
SH-04	06/29/20	16.62	9.89	6.73
SH-04	12/14/20	16.62	9.90	6.72
SH-04	04/12/21	16.62	9.18	7.44
SH-04	06/14/21	16.62	9.60	7.02
SH-04	12/15/21	16.62	8.79	7.83
TES-MW-1	04/06/93	13.10	8.79	4.31
TES-MW-1	05/13/93	13.10	8.61	4.49
TES-MW-1	06/10/93	13.10	8.63	4.47
TES-MW-1	07/08/93	13.10	8.98	4.12
TES-MW-1	08/03/93	13.10	9.28	3.82
TES-MW-1	09/08/93	13.10	8.66	4.44
TES-MW-1	10/08/93	13.10	9.98	3.12
TES-MW-1	11/05/93	13.10	10.20	2.90
TES-MW-1	12/03/93	13.10	10.17	2.93
TES-MW-1	01/05/94	13.10	9.30	3.80
TES-MW-1	02/04/94	13.10	9.19	3.91
TES-MW-1	08/28/95	13.10	9.26	3.84
TES-MW-1	09/27/95	13.10	9.53	3.57
TES-MW-1	04/27/99	13.10	7.49	5.61
TES-MW-1	07/14/99	13.10	8.90	4.20
TES-MW-1	10/18/99	13.10	9.88	3.22
TES-MW-1	01/11/00	13.10	7.59	5.51
TES-MW-1	04/05/00	13.10	8.20	4.90
TES-MW-1	10/02/00	13.10	9.99	3.11
TES-MW-1	01/22/01	13.10	9.65	3.45
TES-MW-1	07/23/01	13.10	10.77	2.33
TES-MW-1	10/16/01	13.10	11.93	1.17
TES-MW-1	04/23/02	13.10	9.32	3.78
TES-MW-1	07/18/02	13.10	10.34	2.76
TES-MW-1	10/23/02	13.10	10.92	2.18

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TES-MW-1	01/30/03	13.10	8.43	4.67
TES-MW-1	04/15/03	13.10	8.89	4.21
TES-MW-1	07/17/03	13.10	10.41	2.69
TES-MW-1	10/15/03	13.10	10.82	2.28
TES-MW-1	01/13/04	13.10	8.82	4.28
TES-MW-1	04/19/04	16.15	9.76	6.39
TES-MW-1	07/27/04	16.15	10.48	5.67
TES-MW-1	10/18/04	16.15	10.27	5.88
TES-MW-1	01/24/05	16.15	9.26	6.89
TES-MW-1	04/18/05	16.15	9.46	6.69
TES-MW-1	07/12/05	16.15	10.10	6.05
TES-MW-1	10/18/05	16.15	10.70	5.45
TES-MW-1	01/25/06	16.15	8.17	7.98
TES-MW-1	04/25/06	16.15	9.33	6.82
TES-MW-1	10/11/06	16.15	10.66	5.49
TES-MW-1	11/18/08	16.15	9.85	6.30
TES-MW-1	11/16/09	16.15	9.35	6.80
TES-MW-1	10/26/10	16.15	9.66	6.49
TES-MW-1	10/27/11	16.15	10.42	5.73
TES-MW-1	05/30/12	16.15	9.37	6.78
TES-MW-1	06/13/12	16.15	9.43	6.72
TES-MW-1	06/26/12	16.15	10.31	5.84
TES-MW-1	11/27/12	16.15	8.62	7.53
TES-MW-1	05/16/13	16.15	9.46	6.69
TES-MW-1	11/07/13	16.15	10.06	6.09
TES-MW-1	04/22/14	16.15	8.70	7.45
TES-MW-1	11/04/14	16.15	9.07	7.08
TES-MW-1	03/10/15	16.15	8.92	7.23
TES-MW-1	05/15/15	16.15	9.40	6.75
TES-MW-1	07/29/15	16.15	10.08	6.07
TES-MW-1	12/10/15	16.15	7.14	9.01
TES-MW-1	02/23/16	16.15	7.58	8.57
TES-MW-1	05/03/16	16.15	8.80	7.35
TES-MW-1	08/30/16	16.15	9.86	6.29
TES-MW-1	12/14/16	16.15	8.30	7.85
TES-MW-1	03/13/17	16.15	7.57	8.58
TES-MW-1	06/13/17	16.15	9.01	7.14
TES-MW-1	08/22/17	16.15	9.90	6.25
TES-MW-1	12/04/17	16.15	8.75	7.40
TES-MW-1	03/06/18	16.15	8.61	7.54
TES-MW-1	06/12/18	16.15	9.56	6.59
TES-MW-1	09/05/18	16.15	10.17	5.98
TES-MW-1	12/17/18	16.15	9.08	7.07
TES-MW-1	03/18/19	16.15	8.73	7.42

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TES-MW-1	05/15/19	16.15	9.34	6.81
TES-MW-1	09/17/19	16.15	10.19	5.96
TES-MW-1	12/09/19	16.15	9.99	6.16
TES-MW-1	04/27/20	16.15	9.04	7.11
TES-MW-1	06/29/20	16.15	9.50	6.65
TES-MW-1	09/21/20	16.15	10.23	5.92
TES-MW-1	12/14/20	16.15	9.43	6.72
TES-MW-1	04/12/21	16.15	8.79	7.36
TES-MW-1	06/14/21	16.15	9.35	6.80
TES-MW-1	09/22/21	16.15	10.15	6.00
TES-MW-1	12/14/21	16.15	7.87	8.28
TX-03	04/06/93	9.58	5.57	4.01
TX-03	06/10/93	9.58	5.50	4.08
TX-03	07/08/93	9.58	5.81	3.77
TX-03	08/03/93	9.58	6.08	3.50
TX-03	09/08/93	9.58	6.42	3.16
TX-03	10/08/93	9.58	6.74	2.84
TX-03	11/05/93	9.58	6.91	2.67
TX-03	12/03/93	9.58	6.90	2.68
TX-03	01/05/94	9.58	6.16	3.42
TX-03	02/04/94	9.58	Not Measured	Not Measured
TX-03	08/28/95	9.58	6.16	3.42
TX-03	09/27/95	9.58	Not Measured	Not Measured
TX-03	04/27/99	9.58	4.68	4.90
TX-03	07/14/99	9.58	5.87	3.71
TX-03	10/18/99	9.58	6.71	2.87
TX-03	01/11/00	9.58	5.30	4.28
TX-03	04/05/00	9.58	5.31	4.27
TX-03	07/18/00	9.58	5.98	3.60
TX-03	10/02/00	9.58	6.65	2.93
TX-03A	04/23/02	9.58	6.25	3.33
TX-03A	07/18/02	9.58	6.75	2.83
TX-03A	10/23/02	9.58	7.15	2.43
TX-03A	01/28/03	9.58	5.40	4.18
TX-03A	04/15/03	9.58	5.76	3.82
TX-03A	07/17/03	9.58	6.76	2.82
TX-03A	10/15/03	9.58	7.05	2.53
TX-03A	01/13/04	9.58	5.46	4.12
TX-03A	04/19/04	12.26	6.22	6.04
TX-03A	07/27/04	12.26	6.78	5.48
TX-03A	10/18/04	12.26	6.69	5.57
TX-03A	01/24/05	12.26	5.76	6.50

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03A	04/18/05	12.26	5.91	6.35
TX-03A	07/12/05	12.26	6.41	5.85
TX-03A	10/18/05	12.26	6.92	5.34
TX-03A	01/25/06	12.26	4.82	7.44
TX-03A	04/25/06	12.26	5.82	6.44
TX-03A	10/11/06	12.26	6.91	5.35
TX-03A	11/20/08	12.26	6.14	6.12
TX-03A	04/08/09	12.26	5.90	6.36
TX-03A	11/16/09	12.26	5.80	6.46
TX-03A	04/27/10	12.26	5.53	6.73
TX-03A	10/25/10	12.26	6.20	6.06
TX-03A	10/27/11	12.26	6.74	5.52
TX-03A	03/01/12	12.26	5.86	6.40
TX-03A	06/13/12	12.26	5.97	6.29
TX-03A	09/26/12	12.26	6.67	5.59
TX-03A	11/27/12	12.26	5.21	7.05
TX-03A	02/21/13	12.26	5.55	6.71
TX-03A	05/16/13	12.26	6.01	6.25
TX-03A	09/06/13	12.26	6.56	5.70
TX-03A	11/07/13	12.26	6.45	5.81
TX-03A	04/22/14	12.26	5.45	6.81
TX-03A	07/24/14	12.26	6.28	5.98
TX-03A	09/23/14	12.26	6.57	5.69
TX-03A	11/04/14	12.26	5.64	6.62
TX-03A	03/10/15	12.26	5.57	6.69
TX-03A	05/15/15	12.26	5.98	6.28
TX-03A	07/29/15	12.26	6.51	5.75
TX-03A	12/10/15	12.26	4.48	7.78
TX-03A	02/23/16	12.26	4.44	7.82
TX-03A	05/03/16	12.26	5.46	6.80
TX-03A	08/30/16	12.26	6.59	5.67
TX-03A	12/14/16	12.26	5.04	7.22
TX-03A	03/13/17	12.26	4.56	7.70
TX-03A	05/16/17	12.26	5.12	7.14
TX-03A	06/13/17	12.26	5.63	6.63
TX-03A	08/22/17	12.26	6.37	5.89
TX-03A	12/04/17	12.26	5.20	7.06
TX-03A	03/27/18	12.26	5.42	6.84
TX-03A	06/12/18	12.26	6.33	5.93
TX-03A	09/05/18	12.26	6.43	5.83
TX-03A	12/17/18	12.26	5.61	6.65
TX-03A	03/18/19	12.26	5.12	7.14
TX-03A	05/16/19	12.26	5.56	6.70
TX-03A	09/17/19	12.26	6.42	5.84

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03A	12/09/19	12.26	6.27	5.99
TX-03A	04/27/20	12.26	5.45	6.81
TX-03A	06/29/20	12.26	5.65	6.61
TX-03A	09/21/20	12.26	6.43	5.83
TX-03A	12/15/20	12.26	5.70	6.56
TX-03A	04/12/21	12.26	5.12	7.14
TX-03A	06/14/21	12.26	5.72	6.54
TX-03A	09/23/21	12.26	6.35	5.91
TX-03A	12/16/21	12.26	--	--
TX-04	04/06/93	14.36	9.97	4.39
TX-04	05/13/93	14.36	9.83	4.53
TX-04	06/10/93	14.36	9.87	4.49
TX-04	07/08/93	14.36	10.24	4.12
TX-04	08/03/93	14.36	10.54	3.82
TX-04	09/08/93	14.36	10.96	3.40
TX-04	10/08/93	14.36	11.28	3.08
TX-04	11/05/93	14.36	11.51	2.85
TX-04	12/03/93	14.36	11.43	2.93
TX-04	01/05/94	14.36	10.60	3.76
TX-04	02/04/94	14.36	10.45	3.91
TX-04	08/28/95	14.36	10.64	3.72
TX-04	09/27/95	14.36	10.88	3.48
TX-04	04/27/99	14.36	8.57	5.79
TX-04	07/14/99	14.36	10.01	4.35
TX-04	10/18/99	14.36	11.12	3.24
TX-04	01/11/00	14.36	9.06	5.30
TX-04	04/05/00	14.36	9.04	5.32
TX-04	07/18/00	14.36	10.41	3.95
TX-04	10/02/00	14.36	11.23	3.13
TX-04	01/22/01	14.36	10.70	3.66
TX-04	07/23/01	14.36	11.50	2.86
TX-04	10/16/01	14.36	9.57	4.79
TX-04	04/23/02	14.36	6.81	7.55
TX-04	07/18/02	14.36	11.33	3.03
TX-04	10/23/02	14.36	11.79	2.57
TX-04	01/28/03	14.36	9.51	4.85
TX-04	04/15/03	14.36	9.55	4.81
TX-04	07/17/03	14.36	11.28	3.08
TX-04	10/15/03	14.36	11.93	2.43
TX-04	01/13/04	14.36	9.54	4.82
TX-04	04/19/04	17.65	10.50	7.15
TX-04	07/27/04	17.65	11.46	6.19
TX-04	10/18/04	17.65	11.46	6.19

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-04	01/24/05	17.65	10.16	7.49
TX-04	04/18/05	17.65	10.35	7.30
TX-04	07/12/05	17.65	11.04	6.61
TX-04	10/18/05	17.65	11.79	5.86
TX-04	01/25/06	17.65	8.43	9.22
TX-04	04/25/06	17.65	10.22	7.43
TX-04	10/11/06	17.65	11.77	5.88
TX-04	11/18/08	17.65	10.84	6.81
TX-04	11/16/09	17.65	10.39	7.26
TX-04	10/25/10	17.65	10.77	6.88
TX-04	10/26/11	17.65	11.47	6.18
TX-04	11/26/12	17.65	9.26	8.39
TX-04	11/04/13	17.65	10.98	6.67
TX-04	11/06/14	17.65	10.05	7.60
TX-04	02/27/15	17.65	9.37	8.28
TX-04	12/08/15	17.65	9.27	8.38
TX-04	12/14/16	17.65	8.97	8.68
TX-04	12/04/17	17.65	9.64	8.01
TX-04	12/17/18	17.65	10.39	7.26
TX-04	12/09/19	17.65	11.22	6.43
TX-04	12/14/20	17.65	10.45	7.20
TX-04	04/12/21	17.65	9.63	8.02
TX-04	12/15/21	17.65	8.90	8.75
TX-06	04/06/93	8.58	3.85	4.73
TX-06	06/10/93	8.58	3.71	4.87
TX-06	09/08/93	8.58	4.96	3.62
TX-06	10/08/93	8.58	5.35	3.23
TX-06	11/05/93	8.58	5.54	3.04
TX-06	12/03/93	8.58	5.37	3.21
TX-06	01/05/94	8.58	4.48	4.10
TX-06	02/04/94	8.58	4.43	4.15
TX-06	08/28/95	8.58	4.75	3.83
TX-06	09/27/95	8.58	5.78	2.80
TX-06	04/27/99	8.58	2.62	5.96
TX-06	07/14/99	8.58	4.05	4.53
TX-06	10/18/99	8.58	5.19	3.39
TX-06	01/11/00	8.58	2.98	5.60
TX-06	04/05/00	8.58	3.16	5.42
TX-06	07/18/00	8.58	4.25	4.33
TX-06	10/02/00	8.58	5.23	3.35
TX-06	04/25/06	8.58	3.88	4.70
TX-06A	04/23/02	8.58	3.98	4.60

Table 3
Groundwater Elevation Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-06A	07/18/02	8.58	4.14	4.44
TX-06A	10/23/02	8.58	5.98	2.60
TX-06A	01/28/03	8.58	3.40	5.18
TX-06A	04/15/03	8.58	3.57	5.01
TX-06A	07/17/03	8.58	5.24	3.34
TX-06A	10/15/03	8.58	6.01	2.57
TX-06A	01/13/04	8.58	3.36	5.22
TX-06A	04/19/04	11.67	4.41	7.26
TX-06A	07/27/04	11.67	5.39	6.28
TX-06A	10/18/04	11.67	5.23	6.44
TX-06A	01/24/05	11.67	3.66	8.01
TX-06A	04/18/05	11.67	3.89	7.78
TX-06A	07/12/05	11.67	4.78	6.89
TX-06A	10/18/05	11.67	5.63	6.04
TX-06A	01/25/06	11.67	3.00	8.67
TX-06A	04/25/06	11.67	5.54	6.13
TX-06A	11/18/08	11.67	4.56	7.11
TX-06A	11/16/09	11.67	3.99	7.68
TX-06A	10/28/10	11.67	4.47	7.20
TX-06A	10/25/11	11.67	5.40	6.27
TX-06A	11/25/12	11.67	3.03	8.64
TX-06A	11/07/13	11.67	4.87	6.80
TX-06A	11/06/14	11.67	4.03	7.64
TX-06A	12/08/15	11.67	2.80	8.87
TX-06A	12/14/16	11.67	3.26	8.41
TX-06A	12/04/17	11.67	3.36	8.31
TX-06A	12/17/18	11.67	4.18	7.49
TX-06A	12/09/19	11.67	5.20	6.47
TX-06A	12/14/20	11.67	4.32	7.35
TX-06A	04/12/21	11.67	3.91	7.76
TX-06A	12/15/21	11.67	2.90	8.77

Notes:

= Indicates data collected during this progress report p

-- = Wells inaccessible due to parked cars.

AMSL = above mean sea level

ft = feet

TOC = Top of monitoring well casing

**Table 4
Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
06/01/04	10.68	NP	NP	5.01	NP	NP	—	—	—	6.20	6.15	0.05	5.33	NP	NP	5.60	NP	NP
10/02/04	10.12	NP	NP	4.77	NP	NP	—	—	—	7.09	6.31	0.78	5.04	NP	NP	4.89	NP	NP
10/03/04	10.50	NP	NP	5.98	NP	NP	—	—	—	7.26	6.71	0.55	5.86	NP	NP	6.06	NP	NP
04/19/04	10.95	NP	NP	6.29	NP	NP	—	—	—	6.99	NP	NP	4.90	NP	NP	5.13	NP	NP
05/13/04	11.24	NP	NP	6.07	NP	NP	—	—	—	6.95	NP	NP	4.78	NP	NP	4.80	NP	NP
08/06/04	11.35	NP	NP	4.76	NP	NP	—	—	—	5.52	NP	NP	4.64	NP	NP	4.41	NP	NP
06/07/04	11.55	NP	NP	5.06	NP	NP	—	—	—	6.98	NP	NP	4.55	NP	NP	4.61	NP	NP
11/08/04	11.79	NP	NP	6.51	NP	NP	—	—	—	7.22	NP	NP	7.18	NP	NP	7.27	NP	NP
09/09/04	11.79	NP	NP	6.66	NP	NP	—	—	—	7.19	7.18	0.01	7.16	NP	NP	7.14	7.14	Trace
06/10/04	11.76	NP	NP	6.58	NP	NP	—	—	—	7.18	NP	NP	7.11	NP	NP	7.08	NP	NP
09/11/04	11.61	NP	NP	6.17	NP	NP	—	—	—	7.04	7.01	0.03	6.93	NP	NP	6.95	6.95	Trace
10/12/04	—	—	—	3.91	NP	NP	—	—	—	6.96	NP	NP	5.31	NP	NP	5.00	NP	NP
11/01/05	11.04	NP	NP	3.80	NP	NP	—	—	—	5.78	NP	NP	4.85	4.85	Trace	4.71	NP	NP
11/02/05	10.81	10.81	Trace	4.47	NP	NP	—	—	—	6.19	6.18	0.01	5.71	NP	NP	5.68	NP	NP
11/03/05	11.18	NP	NP	5.48	NP	NP	—	—	—	6.73	NP	NP	6.56	6.56	Trace	6.50	NP	NP
04/18/05	10.98	NP	NP	5.97	NP	NP	—	—	—	6.95	6.81	0.14	6.18	NP	NP	6.42	NP	NP
05/25/05	10.98	NP	NP	4.78	NP	NP	—	—	—	6.12	NP	NP	5.73	NP	NP	5.78	NP	NP
09/06/05	11.15	NP	NP	5.74	NP	NP	—	—	—	6.68	6.67	0.01	6.11	NP	NP	6.33	NP	NP
11/07/05	11.40	NP	NP	6.12	NP	NP	—	—	—	7.13	NP	NP	6.32	NP	NP	6.65	NP	NP
08/19/05	11.64	NP	NP	6.25	NP	NP	—	—	—	6.91	NP	NP	6.50	NP	NP	7.85	NP	NP
09/16/05	11.83	NP	NP	6.51	NP	NP	—	—	—	7.32	NP	NP	6.85	NP	NP	7.02	NP	NP
10/18/05	11.98	NP	NP	6.06	NP	NP	—	—	—	6.93	NP	NP	6.51	NP	NP	6.54	NP	NP
09/11/05	11.67	NP	NP	4.43	NP	NP	—	—	—	6.34	NP	NP	4.86	NP	NP	4.10	NP	NP
05/12/05	11.48	NP	NP	4.65	NP	NP	—	—	—	6.57	NP	NP	—	—	—	—	—	—
01/26/06	9.96	NP	NP	4.72	NP	NP	—	—	—	5.83	NP	NP	6.65	NP	NP	3.95	NP	NP
02/28/06	10.24	NP	NP	5.34	NP	NP	—	—	—	6.28	NP	NP	4.53	NP	NP	4.88	NP	NP
03/24/06	10.57	NP	NP	5.34	NP	NP	—	—	—	4.20	NP	NP	5.74	NP	NP	4.94	NP	NP
04/18/06	10.78	NP	NP	5.41	NP	NP	—	—	—	6.46	6.45	0.01	5.81	NP	NP	5.28	NP	NP
05/18/06	11.06	NP	NP	6.02	NP	NP	—	—	—	7.01	NP	NP	6.32	NP	NP	5.56	NP	NP
06/19/06	11.26	NP	NP	5.98	NP	NP	—	—	—	6.91	NP	NP	6.23	NP	NP	5.48	NP	NP
08/28/06	11.74	NP	NP	6.45	NP	NP	—	—	—	7.25	NP	NP	6.63	NP	NP	5.68	NP	NP
09/15/06	11.83	NP	NP	6.21	NP	NP	—	—	—	7.02	NP	NP	6.54	NP	NP	5.53	NP	NP
10/11/06	11.96	NP	NP	6.10	NP	NP	—	—	—	6.95	NP	NP	5.93	NP	NP	5.48	NP	NP
11/29/06	—	—	—	4.19	NP	NP	—	—	—	5.83	NP	NP	5.39	NP	NP	4.27	NP	NP
12/13/06	10.53	NP	NP	3.60	NP	NP	—	—	—	5.58	5.58	0.01	4.39	NP	NP	2.81	NP	NP
01/31/07	10.17	NP	NP	3.98	NP	NP	—	—	—	6.32	6.09	0.23	5.58	NP	NP	4.26	NP	NP
02/26/07	10.56	NP	NP	4.55	NP	NP	—	—	—	6.04	NP	NP	5.24	NP	NP	4.12	NP	NP
03/20/07	10.68	NP	NP	4.68	NP	NP	—	—	—	6.42	6.41	0.01	5.68	NP	NP	4.82	NP	NP
04/26/07	10.99	NP	NP	—	NP	NP	—	—	—	—	NP	NP	6.15	NP	NP	4.97	4.96	0.01
05/25/07	11.29	NP	NP	5.68	NP	NP	—	—	—	7.05	NP	NP	6.60	NP	NP	5.11	NP	NP
06/15/07	11.50	NP	NP	5.93	NP	NP	—	—	—	7.04	NP	NP	6.35	NP	NP	5.03	NP	NP
07/19/07	11.70	NP	NP	5.82	5.81	0.01	—	—	—	6.81	6.80	0.01	6.34	NP	NP	5.29	5.28	0.01

**Table 4
Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
08/17/07	11.81	NP	NP	5.90	NP	NP	—	—	—	6.75	NP	NP	6.22	NP	NP	5.35	NP	NP
09/11/07	—	NP	NP	6.24	NP	NP	—	—	—	7.28	7.28	<.01	6.68	6.68	<.01	5.73	NP	NP
10/29/07	11.80	NP	NP	5.60	NP	NP	—	—	—	6.68	NP	NP	5.25	NP	NP	6.03	NP	NP
11/12/07	11.84	NP	NP	5.56	NP	NP	—	—	—	6.58	6.57-6.58	<.01	5.82	NP	NP	4.83	—	—
12/26/07	10.84	NP	NP	4.09	NP	NP	—	—	—	5.85	5.84	<.01	4.84	4.85	<.01	4.44	4.43	<.01
01/11/08	10.64	NP	NP	3.84	NP	NP	—	—	—	5.26	5.25	0.01	4.13	4.12	<.01	3.64	3.63	<.01
02/13/08	10.65	NP	NP	4.58	NP	NP	—	—	—	6.60	6.25	0.35	5.75	NP	NP	4.84	NP	NP
03/14/08	11.05	NP	NP	5.37	NP	NP	—	—	—	6.31	NP	NP	5.65	NP	NP	5.01	NP	NP
04/18/08	10.78	NP	NP	5.41	NP	NP	—	—	—	6.46	6.45	0.01	5.81	NP	NP	5.28	NP	NP
05/05/08	11.39	NP	NP	5.84	NP	NP	—	—	—	7.06	7.05	0.01	6.39	NP	NP	5.49	NP	NP
05/20/08	11.53	NP	NP	5.84	NP	NP	—	—	—	7.03	7.02	0.01	6.69	NP	NP	5.52	NP	NP
06/30/08	11.67	NP	NP	5.85	NP	NP	—	—	—	dry	NP	NP	6.35	6.34	0.01	5.45	5.44	0.01
07/10/08	11.70	NP	NP	5.70	NP	NP	—	—	—	6.83	6.80	0.03	6.23	NP	NP	5.24	NP	NP
08/13/08	11.75	NP	NP	5.61	NP	NP	—	—	—	6.75	NP	NP	6.25	NP	NP	6.17	NP	NP
09/02/08	11.82	NP	NP	5.86	NP	NP	—	—	—	6.98	NP	NP	6.40	NP	NP	5.71	NP	NP
10/10/08	11.82	NP	NP	7.11	NP	NP	—	—	—	5.83	NP	NP	6.59	NP	NP	5.83	NP	NP
11/10/08	10.02	NP	NP	4.68	NP	NP	—	—	—	6.40	NP	NP	5.61	NP	NP	5.21	NP	NP
12/08/08	11.48	NP	NP	5.53	NP	NP	—	—	—	6.70	6.52	0.18	5.82	NP	Sheen	5.17	NP	Sheen
01/07/09	11.00	NP	NP	3.93	NP	NP	—	—	—	5.32	NP	Sheen	4.51	NP	Sheen	4.41	NP	Sheen
02/17/09	11.60	NP	NP	5.20	NP	NP	—	—	—	6.40	NP	Sheen	5.72	NP	Sheen	5.21	NP	Sheen
03/06/09	11.21	NP	NP	4.67	NP	NP	—	—	—	6.02	5.59	0.43	4.45	NP	Sheen	4.83	NP	Sheen
04/07/09	—	—	—	—	—	—	—	—	—	6.98	6.96	0.02	—	—	—	—	—	—
07/09/09	11.55	NP	NP	—	—	—	—	—	—	6.90	NP	Sheen	6.34	NP	Sheen	5.56	NP	Sheen
10/20/09	11.75	NP	NP	4.90	NP	NP	—	—	—	6.28	NP	Sheen	5.63	NP	Sheen	4.91	NP	Sheen
01/05/10	10.98	NP	NP	3.60	NP	NP	—	—	—	5.78	NP	Sheen	3.55	NP	NP	3.30	NP	NP
04/26/10	10.7	NP	NP	5.04	NP	NP	—	—	—	6.29	6.28	0.01	5.76	NP	NP	5.05	NP	NP
07/22/10	11.44	NP	NP	5.83	NP	NP	—	—	—	10.02	NP	Sheen	6.74	NP	NP	5.37	NP	Sheen
10/20/10	11.68	NP	NP	5.90	NP	NP	—	—	—	6.78	NP	Sheen	6.20	NP	Sheen	5.45	NP	Sheen
12/12/10	10.79	NP	NP	4.45	NP	NP	—	—	—	5.97	NP	<0.01	5.27	NP	NP	4.62	NP	Sheen
04/08/11	9.97	NP	NP	4.62	NP	NP	—	—	—	5.72	5.71	0.01	5.22	NP	NP	4.82	NP	NP
07/28/11	11.08	NP	NP	5.71	NP	NP	—	—	—	6.90	6.89	0.01	6.22	NP	NP	5.38	NP	NP
09/21/11	11.75	NP	NP	6.19	NP	NP	—	—	—	7.06	7.05	0.01	6.55	NP	NP	5.78	NP	Sheen
03/26/12	—	—	—	4.68	NP	NP	—	—	—	6.09	5.76	0.33	5.08	NP	NP	4.19	NP	Sheen
06/12/12	11.20	NP	NP	5.24	NP	NP	—	—	—	7.25	6.38	0.87	5.86	NP	NP	4.69	NP	Sheen
09/27/12	—	—	—	8.39	NP	NP	—	—	—	7.29	6.98	0.31	6.73	NP	NP	5.47	NP	Sheen
11/27/12	10.81	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12/20/12	—	—	—	2.15	NP	NP	—	—	—	5.40	4.72	0.68	1.97	NP	NP	0.00	NP	NP
02/22/13	10.81	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
03/29/13	—	—	—	—	—	—	—	—	—	6.53	6.44	0.09	5.97	NP	Sheen	4.90	NP	Sheen
05/16/13	11.30	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
06/28/13	—	—	—	4.98	NP	NP	—	—	—	6.35	6.33	0.02	5.68	NP	NP	4.42	NP	Sheen
09/06/13	11.77	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

**Table 4
Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
09/11/13	—	—	—	5.67	NP	Sheen	—	—	—	6.63	NP	NP	—	—	—	5.32	4.82	0.50
09/12/13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.52	5.03	0.49
10/30/13	—	—	—	5.97	NP	NP	—	—	—	7.08	6.96	0.12	6.43	NP	NP	5.29	5.28	0.01
11/07/13	11.73	NP	NP	5.51	NP	NP	—	—	—	6.44	6.41	0.03	5.68	NP	NP	5.54	5.51	0.03
01/16/14	—	—	—	5.46	NP	NP	5.46	5.51	0.05	6.48	6.36	0.12	5.51	NP	NP	5.47	5.43	0.04
02/27/14	—	—	—	4.72	NP	NP	6.04	NP	Sheen	6.79	6.12	0.67	5.01	NP	NP	6.12	NP	Sheen
03/25/14	—	—	—	4.91	NP	NP	5.90	NP	NP	6.96	5.84	1.12	5.38	NP	NP	6.30	NP	NP
04/22/14	10.78	NP	NP	4.98	NP	NP	5.89	NP	NP	6.32	5.98	0.34	5.33	NP	NP	5.85	NP	Sheen
06/10/14	—	—	—	5.62	NP	Sheen	8.31	NP	NP	7.08	6.85	0.23	6.02	NP	NP	—	NP	NP
07/24/14	—	—	—	5.50	NP	NP	6.91	NP	NP	6.64	6.56	0.08	6.85	NP	NP	6.06	NP	Sheen
08/28/14	—	—	—	5.73	NP	NP	6.79	NP	NP	6.72	6.65	0.07	6.06	NP	NP	6.23	NP	NP
09/23/14	—	—	—	5.76	NP	NP	5.73	NP	NP	6.65	6.55	0.10	5.96	NP	NP	6.08	NP	NP
10/22/14	—	—	—	4.82	NP	NP	4.91	NP	NP	5.87	NP	NP	4.96	NP	NP	4.13	NP	Sheen
11/05/14	11.04	NP	NP	4.50	NP	NP	6.60	NP	NP	6.45	5.90	0.55	4.70	NP	NP	5.12	NP	NP
12/18/14	—	—	—	4.28	NP	NP	5.77	NP	NP	5.49	5.26	0.23	4.50	NP	NP	4.89	NP	NP
01/27/15	—	—	—	4.52	NP	NP	4.88	NP	NP	6.15	5.60	0.55	4.82	NP	NP	5.38	NP	NP
02/26/15	—	—	—	4.92	NP	NP	5.54	NP	NP	6.69	5.88	0.81	5.38	NP	NP	5.59	NP	NP
03/11/15	10.75	NP	NP	5.29	NP	NP	5.55	NP	NP	6.56	6.15	0.41	5.52	NP	NP	5.45	NP	Sheen
04/21/15	—	—	—	5.08	NP	NP	—	—	—	6.44	6.36	0.08	5.50	NP	NP	5.85	NP	NP
05/19/15	11.21	NP	NP	5.31	NP	NP	8.60	NP	NP	6.50	6.49	0.01	5.71	NP	NP	5.67	NP	NP
06/11/15	—	—	—	5.34	NP	NP	—	—	—	6.48	NP	NP	5.70	NP	NP	5.46	NP	NP
07/29/15	11.59	NP	NP	5.81	NP	NP	—	—	—	6.73	NP	NP	6.10	NP	NP	5.85	NP	NP
08/25/15	—	—	—	5.95	NP	NP	—	—	—	6.23	NP	NP	6.17	NP	NP	6.82	NP	NP
09/24/15	—	—	—	5.72	NP	NP	—	—	—	6.60	NP	NP	5.72	NP	NP	6.33	NP	NP
10/15/15	—	—	—	5.35	NP	NP	—	—	—	6.30	NP	NP	5.30	NP	NP	5.82	NP	NP
11/20/15	—	—	—	4.37	NP	NP	—	—	—	6.47	5.67	0.80	4.78	NP	NP	5.51	NP	NP
12/09/15	9.91	NP	NP	2.55	NP	NP	—	—	—	4.45	4.45	Trace	2.80	NP	NP	3.61	NP	NP
02/23/16	—	—	—	4.18	NP	NP	—	—	—	5.82	5.23	0.59	4.45	NP	NP	4.38	NP	Odor
04/22/16	—	—	—	4.90	NP	NP	—	—	—	5.96	5.83	0.13	4.67	NP	NP	5.37	NP	NP
05/03/16	—	—	—	5.27	NP	NP	—	—	—	6.42	6.19	0.23	5.63	NP	NP	6.00	NP	NP
06/02/16	—	—	—	5.34	NP	NP	—	—	—	6.44	6.44	Odor	5.77	NP	NP	6.18	NP	NP
07/14/16	—	—	—	5.58	NP	NP	—	—	—	6.67	NP	NP	6.02	NP	NP	6.27	NP	NP
08/18/16	—	—	—	5.80	NP	NP	—	—	—	6.78	6.78	Odor	6.16	NP	NP	6.44	NP	NP
09/08/16	—	—	—	5.88	NP	NP	—	—	—	6.78	6.78	Odor	6.22	NP	NP	6.55	NP	NP
10/21/16	—	—	—	5.40	NP	NP	—	—	—	6.32	Trace	Trace	6.01	NP	NP	6.10	NP	NP
11/17/16	—	—	—	3.67	NP	NP	—	—	—	5.43	4.49	0.94	3.86	NP	NP	4.68	NP	NP
12/01/16	—	—	—	3.93	NP	NP	—	—	—	6.00	4.94	1.06	4.14	NP	NP	4.88	NP	NP
12/14/16	10.34	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/11/17	—	—	—	2.83	NP	NP	—	—	—	5.38	5.34	0.04	3.18	NP	NP	3.88	NP	Sheen
02/14/17	—	—	—	3.81	NP	NP	—	—	—	5.69	4.75	0.94	4.02	NP	NP	4.79	NP	NP
03/13/17	9.83	NP	NP	4.04	NP	NP	—	—	—	5.98	5.17	0.81	4.27	NP	NP	4.98	NP	NP
04/13/17	—	—	—	3.78	NP	NP	—	—	—	6.42	5.03	1.39	4.02	NP	NP	5.02	NP	NP

**Table 4
Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
05/08/17	—	—	—	4.78	NP	NP	—	—	—	6.74	5.83	0.91	5.32	NP	NP	5.31	NP	NP
06/13/17	—	—	—	5.00	NP	NP	—	—	—	6.18	5.98	0.20	5.36	NP	NP	5.60	NP	NP
07/18/17	—	—	—	5.32	NP	NP	—	—	—	6.47	6.43	0.04	5.78	NP	NP	5.83	NP	NP
08/22/17	11.34	NP	NP	5.32	NP	NP	—	—	—	6.42	NP	NP	5.76	NP	NP	5.92	NP	NP
09/13/17	—	—	—	5.68	NP	NP	—	—	—	6.60	NP	NP	—	—	—	6.21	NP	NP
10/31/17	—	—	—	5.58	NP	NP	—	—	—	6.64	NP	NP	—	—	—	6.17	NP	NP
11/13/17	—	—	—	4.67	NP	NP	—	—	—	6.08	NP	NP	—	—	—	4.98	NP	NP
12/04/17	10.84	NP	NP	4.15	NP	NP	—	—	—	6.05	5.53	0.52	—	—	—	5.38	NP	NP
01/24/18	—	—	—	3.55	NP	NP	—	—	—	5.34	4.95	0.39	3.78	NP	NP	4.16	NP	NP
02/15/18	—	—	—	4.68	NP	NP	—	—	—	6.65	5.64	1.01	4.40	NP	NP	5.42	NP	NP
03/06/18	10.55	NP	NP	4.57	NP	NP	—	—	—	6.19	5.80	0.39	5.03	NP	NP	5.46	NP	NP
04/12/18	—	—	—	4.72	NP	NP	—	—	—	4.96	4.87	0.09	5.68	NP	NP	5.37	NP	NP
05/02/18	—	—	—	4.85	NP	NP	—	—	—	6.22	5.80	0.42	5.17	NP	NP	5.54	NP	NP
06/12/18	11.04	NP	NP	5.25	NP	NP	—	—	—	6.50	6.47	0.03	5.73	NP	NP	6.06	NP	NP
07/12/18	—	—	—	5.24	NP	NP	—	—	—	6.40	6.39	0.01	6.70	NP	NP	5.94	NP	NP
08/23/18	—	—	—	5.57	NP	NP	—	—	—	6.56	6.55	0.01	5.97	NP	NP	6.08	NP	NP
09/05/18	8.20	NP	NP	5.75	NP	NP	—	—	—	6.74	NP	NP	6.16	NP	NP	6.35	NP	NP
10/11/18	—	—	—	5.18	NP	NP	—	—	—	6.32	NP	NP	5.50	NP	NP	5.83	NP	NP
11/07/18	—	—	—	5.01	NP	NP	—	—	—	6.33	NP	NP	5.56	NP	NP	5.66	NP	NP
12/17/18	11.10	NP	NP	4.13	NP	NP	—	—	—	5.31	NP	NP	4.14	NP	NP	4.43	NP	NP
01/16/19	—	—	—	4.48	NP	NP	—	—	—	6.07	5.35	0.72	4.30	NP	NP	5.56	NP	NP
02/20/19	—	—	—	3.98	NP	NP	—	—	—	6.45	5.02	1.43	4.22	NP	NP	4.32	NP	NP
03/18/19	10.51	NP	NP	4.95	4.94	0.01	—	—	—	6.67	5.96	0.71	5.34	NP	NP	6.12	NP	NP
04/10/19	—	—	—	4.66	NP	NP	—	—	—	5.24	NP	NP	4.98	NP	NP	5.78	5.75	0.03
05/15/19	—	—	—	4.19	NP	NP	—	—	—	7.05	6.22	0.83	5.38	NP	NP	6.13	6.10	0.03
06/26/19	—	—	—	5.47	NP	NP	—	—	—	6.58	6.56	0.02	6.88	NP	NP	6.11	NP	NP
07/24/19	—	—	—	5.43	NP	NP	—	—	—	6.59	6.58	0.01	5.88	NP	NP	5.96	NP	NP
08/13/19	—	—	—	5.45	NP	NP	—	—	—	6.58	6.57	0.01	5.72	NP	NP	6.02	NP	NP
09/17/19	11.65	NP	NP	5.23	NP	NP	—	—	—	6.18	6.13	0.05	5.54	NP	NP	6.28	6.25	0.03
10/16/19	—	—	—	5.61	NP	NP	—	—	—	6.47	6.45	0.02	5.77	NP	NP	6.36	NP	NP
11/05/19	—	—	—	5.62	NP	NP	—	—	—	6.78	6.68	0.10	6.01	NP	NP	6.51	NP	NP
12/09/19	11.54	NP	NP	5.08	NP	NP	—	—	—	6.27	NP	NP	5.54	NP	NP	6.14	NP	NP
01/28/20	—	—	—	3.05	NP	NP	—	—	—	4.13	4.06	0.07	3.12	NP	NP	2.03	NP	NP
02/26/20	—	—	—	4.81	NP	NP	—	—	—	6.71	5.78	0.93	5.19	NP	NP	4.97	NP	Sheen
04/27/20	10.94	NP	NP	5.18	NP	NP	—	—	—	6.43	6.23	0.20	5.47	NP	NP	5.29	NP	NP
06/16/20	—	—	—	5.25	NP	NP	—	—	—	5.69	5.56	0.13	5.72	NP	NP	6.25	NP	NP
06/29/20	11.26	NP	NP	5.08	NP	NP	—	—	—	6.58	6.50	0.08	5.78	NP	NP	5.85	NP	NP
07/29/20	—	—	—	5.20	NP	NP	—	—	—	6.43	6.42	0.01	5.67	NP	NP	6.31	NP	NP
08/27/20	—	—	—	5.41	NP	NP	—	—	—	6.71	6.70	0.01	5.85	NP	NP	6.15	NP	NP
09/21/20	11.59	NP	NP	5.09	NP	NP	—	—	—	6.35	NP	NP	5.45	NP	NP	6.23	NP	NP
10/29/20	—	—	—	5.58	NP	NP	—	—	—	6.87	6.50	0.37	5.99	NP	NP	6.23	NP	NP
11/30/20	—	—	—	4.82	NP	NP	—	—	—	6.23	5.78	0.45	5.11	NP	NP	5.10	NP	NP

**Table 4
Performance Product Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
12/14/20	11.22	NP	NP	4.75	NP	NP	—	—	—	6.05	5.91	0.14	5.28	NP	NP	5.83	NP	NP
01/21/21	—	—	—	4.27	NP	NP	—	—	—	6.96	4.9	2.06	4.82	NP	NP	5.63	NP	NP
02/16/21	—	—	—	3.69	NP	NP	—	—	—	5.83	4.92	0.91	4.18	NP	NP	4.25	NP	NP
03/23/21	—	—	—	4.53	NP	NP	—	—	—	6.57	6.11	0.46	5.37	NP	NP	5.74	NP	NP
04/12/21	—	—	—	5.28	NP	NP	—	—	—	6.42	6.32	0.10	5.65	NP	NP	6.31	NP	NP
05/12/21	—	—	—	5.54	NP	NP	—	—	—	6.61	6.57	0.04	5.86	NP	NP	6.21	NP	NP
06/14/21	—	—	—	4.97	NP	NP	—	—	—	6.15	NP	NP	5.24	NP	NP	5.62	NP	NP
07/15/21	—	—	—	5.31	NP	NP	—	—	—	6.36	6.32	0.04	5.60	NP	NP	6.01	NP	NP
08/18/21	—	—	—	5.52	NP	NP	—	—	—	6.60	NP	Sheen	5.90	NP	NP	6.16	NP	NP
09/22/21	11.65	NP	NP	5.46	NP	NP	—	—	—	6.50	NP	NP	5.70	NP	NP	6.10	NP	NP
10/21/21	—	—	—	5.32	NP	NP	—	—	—	6.36	NP	NP	5.50	NP	NP	6.05	NP	NP
11/23/21	—	—	—	4.28	NP	NP	—	—	—	6.20	5.38	0.82	4.42	NP	NP	5.19	NP	NP
12/14/21	10.42	NP	NP	3.99	NP	NP	—	—	—	5.12	NP	NP	4.39	NP	NP	4.79	NP	NP

Notes:

= Indicates data collected during this progress report period
 Depth relative to the measuring point at the top of the monitoring well PVC pipe
 Product depth/thick = product depth/thickness in well measured in feet
 — = not measured
 NP = no product detected

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-05	05/04/16	14.3	357	3.38	6.26	31.6	9.99	--	--	--	--	--	--
MW-05	12/14/16	12.22	308	5.94	6.45	47	0	--	--	--	--	--	--
MW-05	06/14/17	14.8	249	1.7	6.37	25.4	5.13	--	--	--	--	--	--
MW-05	12/07/17	15.16	263	791.21	6.73	-165.1	8.37	--	--	--	--	--	--
MW-05	06/12/18	15.66	211	1.47	6.35	-44.7	6.88	--	--	--	--	--	--
MW-05	12/18/18	15	299	1.73	7.28	-23.6	80	--	--	--	--	--	--
MW-05	05/15/19	15.3	294	0.85	6.92	18.3	45	--	--	--	--	--	--
MW-05	12/10/19	14.31	300	4.76	5.91	32.8	16	--	--	--	--	--	--
MW-05	06/29/20	14.7	289	0.31	6.74	198.90	11	--	--	--	--	--	--
MW-05	12/14/20	13.95	292	0.71	8.25	148.90	16	--	--	--	--	--	--
MW-05	06/15/21	9.16	276	0.99	6.77	29.8	22	--	--	--	--	--	--
MW-05	12/15/21	13.5	241	0.57	10.40	-83.3	21	--	--	--	--	--	--
MW-101	12/13/16	8.35	244	1.67	6.81	-75	0	--	--	--	--	--	--
MW-101	12/06/17	10.99	103	0.32	6.75	-12.3	9	--	--	--	--	--	--
MW-101	12/19/18	12.5	239	1.38	7.39	-74.6	11	--	--	--	--	--	--
MW-101	12/09/19	13.13	207	3.59	6.49	-69.6	44	--	--	--	--	--	--
MW-101	12/16/20	12.73	243	0.25	7.67	118.40	48	--	--	--	--	--	--
MW-101	12/14/21	11.5	314	0.59	6.79	124.0	25	--	--	--	--	--	--
MW-102	12/14/16	9.44	438	1.96	6.77	32	0	--	--	--	--	--	--
MW-102	12/05/17	11.76	310	1.14	6.43	106.3	9.6	--	--	--	--	--	--
MW-102	12/18/18	14.2	415	1.51	7.49	-35.9	12	--	--	--	--	--	--
MW-102	12/10/19	13.55	410	3.43	6.16	59.4	27	--	--	--	--	--	--
MW-102	12/16/20	13.66	477	0.41	7.72	117.60	30	--	--	--	--	--	--
MW-102	12/16/21	12.2	295	0.77	8.10	73.9	11	--	--	--	--	--	--
MW-104	05/05/16	17.11	420	0.65	6.19	-105.1	4.31	--	--	--	--	--	--
MW-104	12/14/16	10.9	340	1.76	6.49	-70	0	--	--	--	--	--	--
MW-104	06/14/17	17.09	323	0.82	7.09	-39.3	2.61	--	--	--	--	--	--
MW-104	12/07/17	15.6	349	0.61	6.65	-4	0	--	--	--	--	--	--
MW-104	06/12/18	19.32	180	0.54	6.24	-44	2.52	--	--	--	--	--	--
MW-104	12/18/18	15.8	331	1.34	7.35	-41.6	10	--	--	--	--	--	--
MW-104	05/15/19	17.8	258	0.78	6.6	-74.9	6	--	--	--	--	--	--
MW-104	12/10/19	15.35	345	2.66	5.4	74.8	36	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-104	06/29/20	17.6	395	0.24	6.73	198.90	9	--	--	--	--	--	--
MW-104	12/14/20	16.19	412	0.34	7.75	172.10	13	--	--	--	--	--	--
MW-104	06/15/21	11.03	309	1.74	7.20	58.9	6	--	--	--	--	--	--
MW-104	12/15/21	14.4	275	0.15	10.06	-115.0	9	--	--	--	--	--	--
MW-105	12/14/16	14.63	160	0.32	6.14	-58.1	8.67	--	--	--	--	--	--
MW-105	12/06/17	13.11	136	1.37	6.12	-26.4	0	--	--	--	--	--	--
MW-105	12/18/18	15.5	93	1.01	7.21	-33.7	49	--	--	--	--	--	--
MW-105	12/11/19	15.53	166	0.48	7.31	-17.2	25	--	--	--	--	--	--
MW-105	12/14/20	14.90	289	0.50	7.83	155.60	27	--	--	--	--	--	--
MW-105	12/15/21	13.0	170	0.13	9.91	-101.9	15	--	--	--	--	--	--
MW-111	05/04/16	15.2	148	3.67	6.29	4.6	23.2	--	--	--	--	--	--
MW-111	12/14/16	13.4	295	0.35	6.45	-87.3	6.48	--	--	--	--	--	--
MW-111	06/14/17	16.6	112	1.12	7.08	1	8.2	--	--	--	--	--	--
MW-111	12/06/17	15.03	386	10.65	6.42	-51.3	5.13	--	--	--	--	--	--
MW-111	06/12/18	17.56	118	0.73	6.22	-46.2	4.01	--	--	--	--	--	--
MW-111	12/18/18	15	417	1.25	7.76	-46.6	20	--	--	--	--	--	--
MW-111	05/15/19	16.1	147	0.75	7.57	-55.6	14	--	--	--	--	--	--
MW-111	12/11/19	15.42	280	0.4	7.54	-13.1	6	--	--	--	--	--	--
MW-111	06/29/20	19	116	0.55	6.75	206.50	9	--	--	--	--	--	--
MW-111	12/14/20	15.93	242	0.28	7.61	169.80	16	--	--	--	--	--	--
MW-111	06/15/21	10.31	110	1.05	6.87	73.4	22	--	--	--	--	--	--
MW-111	12/15/21	14.9	238	0.18	9.85	-72.1	6	--	--	--	--	--	--
MW-112A	05/05/16	14.28	448	0.87	6.41	-87	4.41	--	--	--	--	--	--
MW-112A	12/12/16	13.7	401	0.67	6.51	-87.1	9.78	--	--	--	--	--	--
MW-112A	06/15/17	15.75	498	0.6	7.26	-62.6	--	--	--	--	--	--	--
MW-112A	12/07/17	13.97	359	0.82	6.5	-27.9	0	--	--	--	--	--	--
MW-112A	06/13/18	16.28	517	0.26	6.51	-56.1	0	--	--	--	--	--	--
MW-112A	12/20/18	14	495	0.12	6.75	-101	128	--	--	--	--	--	--
MW-112A	05/16/19	10.91	529	0.52	6.27	-104	77	--	--	--	--	--	--
MW-112A	12/12/19	13.87	620	0.5	8.9	-80.8	12	--	--	--	--	--	--
MW-112A	06/29/20	15.7	430	0.32	6.76	189.10	16	--	--	--	--	--	--
MW-112A	12/14/20	14.67	399	0.18	7.77	123.70	5	--	--	--	--	--	--
MW-112A	06/15/21	9.58	338	0.89	6.56	31.4	4	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-112A	12/15/21	14.4	243	0.19	9.95	-85.8	12	--	--	--	--	--	--
MW-201	01/14/04	12	282	1.98	5.59	-95.5	1.5	--	--	--	--	--	--
MW-201	04/20/04	11.4	101	5.52	5	61.3	7	ND	--	--	5.71	--	--
MW-201	01/26/05	9	720	9.12	5.48	129	9	--	--	--	--	--	--
MW-201	04/20/05	11.9	700	6.24	6.66	83	8	0	--	--	7.67	--	--
MW-201	07/13/05	15.4	99	0.16	5.64	178.1	1.9	--	--	--	--	--	--
MW-201	10/20/05	14.1	535	0.42	7.21	49.2	3.9	--	--	--	--	--	--
MW-201	01/26/06	8.3	24	7.47	7.02	-72.5	4	--	--	--	--	--	--
MW-201	11/20/08	9.3	172	14.08	6.12	268	38.2	--	--	--	--	--	--
MW-201	04/07/09	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	11/19/09	10.6	13.2	7.79	5.21	61	6.5	--	--	--	--	--	--
MW-201	10/27/10	12.7	15.2	6.92	4.79	157	0.5	--	--	--	--	--	--
MW-201	10/26/11	11.53	655	2.77	7.59	-76	5.9	--	--	--	--	--	--
MW-201	11/27/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	11/06/13	11.78	800	0	6.68	-74	0	--	--	--	--	--	--
MW-201	11/06/14	14.1	121	0	6.08	297	3.3	--	--	--	--	--	--
MW-201	12/13/16	8.12	47	3.58	6.13	142.3	9.27	--	--	--	--	--	--
MW-201	12/06/17	11.3	57	14.37	6.08	37.7	12.2	--	--	--	--	--	--
MW-201	12/19/18	12.6	387	0.65	6.81	-87.4	30	--	--	--	--	--	--
MW-201	12/16/20	11.99	116	0.79	6.75	145.80	120	--	--	--	--	--	--
MW-202	01/14/04	8	52	12.4	5.32	-40.2	9.1	--	--	--	--	--	--
MW-202	04/20/04	12.1	317	1.31	5.27	112	9.8	3	--	--	< 1	--	--
MW-202	01/26/05	11.6	218	1.69	4.8	3	126	--	--	--	--	--	--
MW-202	04/20/05	12.6	44	0	7.78	-60	26	8	--	--	<1	--	--
MW-202	07/13/05	15.7	281	0.11	6.09	-22	6.3	--	--	--	--	--	--
MW-202	10/20/05	15.5	576	0.44	6.42	-47.9	5.5	--	--	--	--	--	--
MW-202	01/26/06	10.78	213	0.18	7.73	-104.7	70	--	--	--	--	--	--
MW-202	11/20/08	14.5	532	3.65	6.4	232	10.2	36.6	--	--	< 1	--	--
MW-202	04/07/09	11.86	0.175	0	6.12	-82	56.1	--	--	--	--	--	--
MW-202	11/19/09	12.4	51.6	1.65	5.81	-53	29.5	19	--	--	82	--	--
MW-202	04/27/10	12.3	34	0.22	5.46	-96	55.4	--	--	--	--	--	--
MW-202	10/27/10	15	29.5	2.35	6.15	-48	24	7.4	--	--	< 1.0	--	--
MW-202	10/26/11	12.9	214	2.45	8.22	-104.2	2.72	8.5	--	--	< 0.50	--	--
MW-202	03/02/12	10.03	334	0	6.3	-39	27.2	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-202	06/13/12	12.5	284	4.36	7.22	-59	25.7	--	--	--	--	--	--
MW-202	09/26/12	14.2	332	0	6.74	-112	25	--	--	--	--	--	--
MW-202	11/27/12	12.99	383	0	7.33	-70	77.7	--	--	--	15	--	--
MW-202	11/06/13	13.67	263	2.28	5.79	-43.6	4.9	3	--	--	0.76	< 0.200	0.439
MW-202	11/06/14	15.87	373	0	6.47	-49	107	5	< 0.25	< 0.25	7	0.288	0.631
MW-202	12/10/15	12.85	241	0.42	6.42	-21.3	98.6	1.5	< 0.10	< 0.10	11.6	24.2	0.628
MW-202	05/03/16	15.95	232	0.36	6.2	-45.6	16.9	--	--	--	--	--	--
MW-202	12/13/16	10.66	223	0.39	6.33	-102.4	9.52	0.5	< 0.0400	< 0.0400	1.24 J	45.3	0.401
MW-202	06/14/17	14.76	222	0.33	7.08	-145.6	9	--	--	--	--	--	--
MW-202	12/06/17	11.62	153	0.71	6	-49	4.5	2.75	< 0.0400	< 0.0400	28.6	11.2	0.45
MW-202	06/14/18	14.22	159	0.69	6.04	-2.9	9.87	--	--	--	--	--	--
MW-202	12/19/18	12.6	287	0.28	6.84	-87.4	22	14	< 0.0400	< 0.0400	58.4	17.9	0.649
MW-202	05/16/19	12.6	266	0.48	6.53	-91.9	71	--	--	--	--	--	--
MW-202	12/10/19	12.88	278	4.97	6.12	-10.2	50	3.5	<0.0600	<0.0600	8.61	28.3	0.543
MW-202	06/29/20	15.4	406	0.77	7.24	173.70	42	--	--	--	--	--	--
MW-202	12/16/20	12.44	272	0.20	7.36	111.10	88	1.20	<0.200	<0.400	9.44 J+	12.90	0.436
MW-202	06/14/21	8.10	254	1.50	6.63	170.6	34	--	--	--	--	--	--
MW-202	12/16/21	11.4	174	0.81	7.76	3.8	125	--	--	--	4.00 J	0.32 J	0.532
MW-203	01/13/04	12.4	243	2.91	6.38	-6.9	13.7	--	--	--	--	--	--
MW-203	04/19/04	13	369	1.02	6.58	110	39.2	1	--	--	2.4	--	--
MW-203	07/27/04	16.4	514	1.12	6.11	90.9	32.2	--	--	--	--	--	--
MW-203	10/18/04	14.8	643	0.35	9.42	136.8	110	--	--	--	--	--	--
MW-203	01/25/05	12.9	476	2.79	6.37	21	210	--	--	--	--	--	--
MW-203	04/19/05	12.8	44	0	6.22	0	5	5.5	--	--	6.48	--	--
MW-203	07/13/05	15	351	0.67	6.34	-46	15	--	--	--	--	--	--
MW-203	10/20/05	15.9	902	1.12	6.69	-48.7	34	--	--	--	--	--	--
MW-203	01/23/06	11.4	131	2.2	6.45	7.6	60	--	--	--	--	--	--
MW-203	11/18/08	13.9	448	10.3	7.11	87	190	1.35	--	--	17.1	--	--
MW-203	04/08/09	12.23	136	1.87	6.83	-31	338	--	--	--	--	--	--
MW-203	11/17/09	12.2	25.8	5.49	6.28	197	45.6	< 0.1	--	--	8.3	--	--
MW-203	04/26/10	12.7	40.9	0.3	6.81	-109	80.1	--	--	--	--	--	--
MW-203	10/25/10	14.1	43.8	1.58	6.1	-4	51.8	4.3	--	--	14	--	--
MW-203	05/23/11	--	--	--	--	--	--	--	--	--	--	--	--
MW-203	10/26/11	13.98	384	2.94	8.4	-80.9	10.9	8.8	--	--	< 0.50	--	--
MW-203	06/13/12	12.8	375	4.27	7.2	-38	22.3	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-203	11/27/12	14.83	250	0	6.61	22	41.7	--	--	--	24.4	--	--
MW-203	11/06/13	12.59	486	0.18	6.35	-51	0	3	--	--	< 0.50	3.68	0.178
MW-203	11/06/14	16.13	236	4.55	6.71	135.1	28.4	1.5	0.42 J	< 0.25	14.5	< 0.200	0.127
MW-203	12/09/15	12.51	0.407	0	6.05	-60	67.2	5	< 0.10	< 0.10	4.13	24	0.197
MW-203	05/04/16	12.93	266	4.91	6.42	-108	14.5	--	--	--	--	--	--
MW-203	12/13/16	10.46	221	0.73	6.25	-88	9.6	0.5	< 0.0400	< 0.0400	2.27	14.1	0.134
MW-203	06/14/17	15.02	203	0.23	6.09	-205.4	12.7	--	--	--	--	--	--
MW-203	12/08/17	11.65	274	1.6	6.3	43.8	0	1.25	< 0.0400	< 0.0400	21.6	3.32	0.166
MW-203	06/14/18	13.9	265	1.93	6.25	3.9	35.1	--	--	--	--	--	--
MW-203	12/20/18	12.8	357	0.78	7.41	-44.6	>1000	1.4	0.307	0.307	7.81	2.32	0.195
MW-203	05/16/19	10.89	353	1.89	5.52	-1	99	--	--	--	--	--	--
MW-203	12/10/19	12.77	441	4.84	5.3	0.5	41	3	<0.0600	<0.0600	1.34 J	20	0.207
MW-203	06/29/20	15.1	339	1.06	7.18	-9.10	10	--	--	--	--	--	--
MW-203	12/15/20	12.26	319	0.77	8.07	130.10	87	2.00	1.49	<0.400	35.80	<1.00	0.0182
MW-203	06/14/21	7.69	259	1.28	6.33	21.6	406	--	--	--	--	--	--
MW-203	12/16/21	11.6	193	0.21	8.30	16.1	16	--	--	--	16.9	<0.5	0.0505
MW-204	12/13/16	10.72	173	0.99	5.84	21	4	--	--	--	--	--	--
MW-204	12/06/17	13.48	129	12.04	5.6	49.8	6.22	--	--	--	--	--	--
MW-204	12/19/18	12.9	218	0.33	6.98	-66.1	27	--	--	--	--	--	--
MW-204	12/10/19	13.47	340	1.83	6.01	-6	22	--	--	--	--	--	--
MW-204	12/16/20	13.41	347	1.00	6.27	190.10	70	--	--	--	--	--	--
MW-204	12/16/21	10.5	144	0.22	7.70	-17.2	25	--	--	--	--	--	--
MW-206A	12/12/16	11.31	482	0.68	6.6	-104.9	9.44	--	--	--	--	--	--
MW-206A	12/08/17	11.87	491	1.39	6.63	34	0	--	--	--	--	--	--
MW-206A	12/20/18	13.1	605	0.81	7.41	-52.3	70	--	--	--	--	--	--
MW-206A	12/10/19	13.08	617	2.28	6.07	-41.9	11	--	--	--	--	--	--
MW-206A	12/16/20	12.02	718	0.22	9.45	42.10	440	--	--	--	--	--	--
MW-206A	12/16/21	8.6	394	0.61	8.20	15.9	21	--	--	--	--	--	--
MW-213	05/03/16	14.65	12440	0.13	8.26	-330	0	--	--	--	--	--	--
MW-213	12/13/16	9.57	18.7	5.52	8.28	-321	5.6	--	--	--	--	--	--
MW-213	06/14/17	15.37	10550	0.23	7.03	-330.2	7.36	--	--	--	--	--	--
MW-213	12/07/17	12.43	13640	0.55	8.14	-72.3	0	--	--	--	--	--	--
MW-213	06/12/18	14.43	8410	0.91	7.65	-91.3	3.02	--	--	--	--	--	--

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Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-213	12/19/18	12.8	11390	0.82	7.57	-45.6	5	--	--	--	--	--	--
MW-213	05/16/19	14.8	11641	1.84	7.5	79.5	2	--	--	--	--	--	--
MW-213	12/11/19	10.91	1322	1.28	8.51	-112.7	16	--	--	--	--	--	--
MW-213	06/29/20	13	16341	0.34	7.83	191.70	9	--	--	--	--	--	--
MW-213	12/16/20	12.38	17,924	0.08	7.99	53.20	0	--	--	--	--	--	--
MW-213	06/14/21	7.18	17,427	0.47	7.89	113.6	3	--	--	--	--	--	--
MW-213	12/16/21	9.9	13,386	0.85	9.67	-101.5	5	--	--	--	--	--	--
MW-214	05/03/16	14.91	10960	0.44	8.16	-363	0	--	--	--	--	--	--
MW-214	12/14/16	10.5	312	7.24	6.98	39	0	--	--	--	--	--	--
MW-214	06/14/17	15.55	10395	0.05	8.14	-358.6	0.85	--	--	--	--	--	--
MW-214	12/07/17	14.01	7725	838.05	8.01	-355.1	3.11	--	--	--	--	--	--
MW-214	06/12/18	14.77	3900	0.74	7.82	-90.5	0	--	--	--	--	--	--
MW-214	12/19/18	13.4	11888	0.12	7.45	-101.6	29	--	--	--	--	--	--
MW-214	05/16/19	15.7	10667	0.59	7.43	-62.3	3	--	--	--	--	--	--
MW-214	12/11/19	11.41	1576	1.16	10.33	-211.5	9	--	--	--	--	--	--
MW-214	06/29/20	15.93	1516	1.66	7.91	-152.70	12	--	--	--	--	--	--
MW-214	12/16/20	13.00	17,750	0.15	6.90	95.20	6	--	--	--	--	--	--
MW-214	06/14/21	8.21	2,117	1.49	7.47	78.3	2	--	--	--	--	--	--
MW-214	12/16/21	12.5	8,441	0.30	9.34	-172.8	5	--	--	--	--	--	--
MW-301	02/22/16	12.32	449	0.34	6.5	-127.1	15.1	--	--	--	--	--	--
MW-301	05/02/16	17.58	257	0.29	6.6	-119.6	6.74	--	--	--	--	--	--
MW-301	08/29/16	18.76	183	1.96	6.86	5	0	--	--	--	--	--	--
MW-301	12/12/16	10.16	357	2.37	6.73	-140	0	--	--	--	--	--	--
MW-301	03/13/17	11.62	355	0	6.72	-125	0	--	--	--	--	--	--
MW-301	06/13/17	15.6	192	0.37	6.59	-107.4	--	--	--	--	--	--	--
MW-301	08/22/17	20.23	187	0	7.32	-105	0	--	--	--	--	--	--
MW-301	12/08/17	14.93	151	1.2	6.89	-118.3	-11	--	--	--	--	--	--
MW-301	03/06/18	12.6	435	0.82	6.78	19.7	3.19	--	--	--	--	--	--
MW-301	06/13/18	16.7	521	0.21	6.61	-76.4	1.8	--	--	--	--	--	--
MW-301	09/06/18	18.95	651	0.16	6.57	-94.8	1.34	7	--	--	--	--	--
MW-301	12/20/18	15.1	836	0.12	6.53	-50	14	--	--	--	--	--	--
MW-301	03/19/19	13.4	930	1.02	7.52	-48.5	119	--	--	--	--	--	--
MW-301	05/16/19	12.3	693	0.71	6.11	-52	97	--	--	--	--	--	--
MW-301	09/17/19	15.31	373	0.87	6.7	-23.8	11	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-301	12/11/19	14.25	755	10.14	7.15	55.9	64	--	--	--	--	--	--
MW-301	04/28/20	13.4	628	0.51	7.56	14.60	14	--	--	--	--	--	--
MW-301	06/29/20	20.47	572	0.66	6.50	-28.40	60	--	--	--	--	--	--
MW-301	09/21/20	19.2	699	0.37	6.29	20.80	12	--	--	--	--	--	--
MW-301	12/15/20	11.20	611	0.40	7.53	116.90	33	--	--	--	--	--	--
MW-301	04/13/21	10.6	347	2.26	6.01	35.3	76	--	--	--	--	--	--
MW-301	06/14/21	11.44	726	1.78	7.00	37.3	27	--	--	--	--	--	--
MW-301	09/22/21	18.21	615	1.43	6.54	-35.6	55	--	--	--	--	--	--
MW-301	12/16/21	10.17	502	0.14	6.60	82.3	112	--	--	--	--	--	--
MW-302	03/01/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	06/12/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	06/28/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	09/25/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	11/25/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	11/05/13	14.81	346	0.1	6.42	-67	0	6.0-6.5	--	--	13.2	< 0.200	0.349
MW-302	11/03/14	15.91	342	0.53	6.5	-27.8	5.06	2.5	< 0.10	< 0.10	< 0.50	0.765	0.493
MW-302	12/10/15	14.58	337	0.35	6.63	-104.8	0	1.5	< 0.10	< 0.10	< 0.50	27.4	0.402
MW-302	05/04/16	13.6	371	4.92	6.51	-116.5	2.49	--	--	--	--	--	--
MW-302	12/15/16	10.93	388	0.95	6.58	-89	0	1	< 0.0400	< 0.0400	< 0.128	35.1	0.572
MW-302	06/13/17	16.99	143	0.3	5.79	39.2	--	--	--	--	--	--	--
MW-302	08/23/17	20.32	358	9.36	7.08	-54	2.7	--	--	--	--	--	--
MW-302	12/05/17	13.54	755	0.89	5.82	30.4	8.95	4.25	< 0.0400	< 0.0400	97.2	42.9	2.15
MW-302	03/07/18	11.57	984	0.27	6.15	12	9.95	--	--	--	--	--	--
MW-302	06/13/18	16.08	446	0.81	6.04	-61.4	5.51	--	--	--	--	--	--
MW-302	09/06/18	19.67	424	0.74	6.49	-27	3.37	1.75	--	--	--	--	--
MW-302	12/20/18	15.9	726	0.1	6.4	73	55	7	0.105	0.105	364	1.4	2.52
MW-302	03/19/19	14.5	1321	0.4	7.44	-54.1	58	--	--	--	--	--	--
MW-302	05/16/19	12.83	589	0.7	5.81	-53	43	--	--	--	--	--	--
MW-302	09/17/19	14.71	424	0.79	6.75	-35.3	14	--	--	--	--	--	--
MW-302	12/11/19	16.95	1359	2.13	8.06	-57.4	19	3	<0.0600	<0.0600	629	67.4	3.52
MW-302	04/28/20	14	655	0.33	7.32	-25.30	16	--	--	--	--	--	--
MW-302	06/29/20	15.22	509	0.88	6.29	-30.80	34	--	--	--	--	--	--
MW-302	09/21/20	18	499	0.84	6.30	46.20	39	--	--	--	--	--	--
MW-302	12/15/20	10.90	692	0.38	7.46	116.20	131	1.80	<0.200	<0.400	11.80	12.40	1.74
MW-302	04/13/21	13.4	409	1.39	6.53	-53.4	26	--	--	--	--	--	--

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Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-302	06/15/21	10.57	538	0.45	7.21	6.0	26	--	--	--	--	--	--
MW-302	09/23/21	16.29	630	1.77	5.97	70.0	17	--	--	--	--	--	--
MW-302	12/16/21	10.70	597	0.10	7.67	20.3	35	--	--	--	104	0.282 J	2.74
MW-303	05/04/16	11.9	91	2.92	6.42	-73.9	9.31	--	--	--	--	--	--
MW-303	12/12/16	11.2	185	1.29	6.49	-50	0	--	--	--	--	--	--
MW-303	06/13/17	15.03	69	0.3	6.2	15.9	--	--	--	--	--	--	MN
MW-303	12/08/17	12.72	257	1.74	5.18	77.1	4.48	--	--	--	--	--	--
MW-303	03/06/18	11.47	382	0.76	5.59	91.7	3.47	--	--	--	--	--	--
MW-303	06/13/18	14.32	148	0.64	5.84	-19.6	4.22	--	--	--	--	--	--
MW-303	09/06/18	18.26	388	0.32	6.38	-56.1	4.4	6	--	--	--	--	--
MW-303	12/20/18	12.9	561	0.39	5.51	145	18	--	--	--	--	--	--
MW-303	03/19/19	11.1	470	0.59	7.19	-34.9	20	--	--	--	--	--	--
MW-303	05/16/19	10.49	590	1.8	5.56	-19	29	--	--	--	--	--	--
MW-303	09/17/19	14.68	474	1.3	6.31	-24.7	7	--	--	--	--	--	--
MW-303	12/11/19	13.89	570	0.71	7.8	-53.9	41	--	--	--	--	--	--
MW-303	04/28/20	12.7	238	0.43	6.65	40.80	20	--	--	--	--	--	--
MW-303	06/29/20	14.79	566	0.72	7.22	2.10	24	--	--	--	--	--	--
MW-303	09/21/20	18.8	1105	0.25	6.50	1.40	20	--	--	--	--	--	--
MW-303	12/15/20	10.93	382	0.42	7.20	115.80	15	--	--	--	--	--	--
MW-303	04/13/21	9.1	87	2.46	5.91	36.1	26	--	--	--	--	--	--
MW-303	06/14/21	9.33	368	1.32	6.65	6.7	12	--	--	--	--	--	--
MW-303	09/22/21	18.13	1,158	1.25	6.53	-47.5	11	--	--	--	--	--	--
MW-303	12/15/21	9.0	251	0.43	7.58	14.9	8	--	--	--	--	--	--
MW-304	11/05/13	12.2	396	0.1	6.6	-119	0	7	--	--	< 0.50	0.345	0.273
MW-304	11/03/14	14.86	310	0.62	6.46	-36.9	11.2	5	< 0.10	< 0.10	0.51	3.60 J	0.297 J
MW-304	12/10/15	12.81	345	0.35	6.55	100.1	3.99	3	< 0.10	< 0.10	0.873	33.7	0.39
MW-304	05/04/16	12.9	337	1.95	6.35	-103.1	6.29	--	--	--	--	--	--
MW-304	12/15/16	9.2	342	2.4	6.65	-92	0	0.5	< 0.0400	< 0.0400	3.35	28.2	0.276
MW-304	06/13/17	16.82	162	1.47	6.27	-24.2	--	--	--	--	--	--	--
MW-304	08/23/17	20.76	529	0	7.09	-55	0.1	--	--	--	--	--	--
MW-304	12/05/17	13.01	1421	1	3.42	134.2	3.96	2.25	< 0.0400	< 0.0400	253	18.6	8.94
MW-304	03/06/18	12.36	794	1.52	4.82	105.9	3.92	--	--	--	--	--	--
MW-304	06/13/18	16.04	305	0.19	6.12	-63.2	5.78	--	--	--	--	--	--
MW-304	09/06/18	20.2	439	0.48	4.72	127.5	3.83	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-304	12/20/18	14.3	830	0.19	4.19	272	96	6.5	0.0730 J	0.0730 J	520	2.51	2.74
MW-304	03/19/19	11.8	155	0.71	7.53	-30.3	24	--	--	--	--	--	--
MW-304	05/16/19	10.89	367	1.27	4.82	36	9	--	--	--	--	--	--
MW-304	09/17/19	13.56	323	1.29	6.73	5.4	15	--	--	--	--	--	--
MW-304	12/11/19	15.3	1518	5.46	8.24	91.6	62	6	<0.0600	<0.0600	908	11.3	4.79
MW-304	04/28/20	12.4	324	0.59	6.92	25.80	10	--	--	--	--	--	--
MW-304	06/29/20	14.78	301	0.78	6.83	-13.60	26	--	--	--	--	--	--
MW-304	09/21/20	16.7	393	0.22	5.78	59.30	41	--	--	--	--	--	--
MW-304	12/15/20	11.07	457	0.33	7.32	120.80	32	1.00	<0.200	<0.400	75.10	50.60	0.483
MW-304	04/13/21	9.0	92	2.60	6.00	79.8	33	--	--	--	--	--	--
MW-304	06/15/21	9.80	224	1.12	6.49	55.5	8	--	--	--	--	--	--
MW-304	09/22/21	17.36	370	1.33	5.72	19.8	15	--	--	--	--	--	--
MW-304	12/16/21	9.17	244	0.06	6.60	108.2	23	--	--	--	72.8	19	1.18
MW-307	11/26/12	12.7	332	0	7.18	-62	36.6	--	--	--	1.5	--	--
MW-307	11/06/13	12.31	231	0.07	6.42	-106	0.8	3.5	--	--	< 0.50	< 0.200	0.217
MW-307	11/04/14	14.49	383	0.26	6.86	-107	6.9	4.5	< 0.10	< 0.10	< 0.50	18.2	0.513
MW-307	12/09/15	12.78	225	0.51	6.4	-77.6	7.89	2.25	< 0.10	< 0.10	< 0.50	29.6	0.338
MW-307	02/23/16	10.43	225	0.27	6.21	-68.9	9.98	--	--	--	--	--	--
MW-307	05/03/16	12.71	211	0.39	6.05	-54	9.27	--	--	--	--	--	--
MW-307	08/30/16	16.9	198	1.18	6.91	67	0	--	--	--	--	--	--
MW-307	12/13/16	10.28	138	0.57	6.46	-87.4	8.09	1.5	< 0.0400	< 0.0400	< 0.256	21.2	0.235
MW-307	03/14/17	11.62	224	0	6.46	-79	0	--	--	--	--	--	--
MW-307	06/15/17	12.72	126	0.33	5.4	15.1	1.91	--	--	--	--	--	--
MW-307	08/23/17	17.87	149	0	7.03	-13	2.1	--	--	--	--	--	--
MW-307	12/06/17	14.55	405	1.49	6.18	-47.1	0	0.6	< 0.0400	< 0.0400	465	37.1	1.07
MW-307	03/08/18	13.9	270	0.38	6.42	2.6	5.1	--	--	--	--	--	--
MW-307	06/14/18	13.8	205	0.45	6.55	-23	2.92	--	--	--	--	--	--
MW-307	09/04/18	18.44	235	0.99	6.11	-25.6	0	2	--	--	--	--	--
MW-307	12/19/18	16.6	343	2.15	7.69	28.7	17	1.4	< 0.0400	< 0.0400	82.6	7.61	0.669
MW-307	03/18/19	14.3	530	0.85	6.79	-62.3	20	--	--	--	--	--	--
MW-307	05/16/19	14.1	315	0.72	6.82	-90.6	4	--	--	--	--	--	--
MW-307	09/17/19	13.21	231	1.15	6.95	1.6	10	--	--	--	--	--	--
MW-307	12/10/19	15.65	541	1.37	6.88	-44.6	18	5.5	<0.0600	<0.0600	210	60.4	1.21
MW-307	04/27/20	13.6	677	0.6	6.72	-96.40	43	--	--	--	--	--	--
MW-307	06/29/20	14.8	505	0.34	6.82	115.90	40	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-307	09/21/20	15.8	476	0.41	5.96	37.20	29	--	--	--	--	--	--
MW-307	12/16/20	13.16	694	0.32	7.50	130.10	0	2.40	<0.200	<0.400	8.26 J+	51.80	1.17
MW-307	04/12/21	11.2	276	1.91	6.47	-56.9	65	--	--	--	--	--	--
MW-307	06/14/21	6.85	352	0.51	7.35	156.3	11	--	--	--	--	--	--
MW-307	09/22/21	16.03	661	1.12	6.10	0.8	17	--	--	--	--	--	--
MW-307	12/14/21	11.0	423	0.30	9.10	-24.0	18	--	--	--	22.1	0.172 J	0.764
MW-308	02/23/16	10.09	657	0.32	6.78	-36.3	9.17	--	--	--	--	--	--
MW-308	05/03/16	13.49	431	0.31	6.52	-42.7	7.44	--	--	--	--	--	--
MW-308	08/30/16	16.93	224	1.43	7	50	0	--	--	--	--	--	--
MW-308	12/13/16	10.31	577	0.51	6.75	-22.5	8.43	1.5	< 0.0400	< 0.0400	141	1.53	1.05
MW-308	03/14/17	10.27	587	0	6.99	86	0	--	--	--	--	--	--
MW-308	06/15/17	13.16	355	0.9	7.07	-53	7.5	--	--	--	--	--	--
MW-308	08/23/17	18.34	235	0	7.15	-32	0	--	--	--	--	--	--
MW-308	12/06/17	13.3	591	801.24	6.76	-73.2	3.97	1.7	< 0.0400	< 0.0400	21.4	1.24	1.49
MW-308	03/08/18	10.08	758	0.29	6.74	-26.7	6.79	--	--	--	--	--	--
MW-308	06/14/18	14.41	208	0.43	6.34	-13.5	4.1	--	--	--	--	--	--
MW-308	09/05/18	17.87	270	0.64	6.57	-45.2	0	2	--	--	--	--	--
MW-308	12/19/18	10.7	579	1.68	6.94	52.4	30	0	< 0.0400	< 0.0400	48.1	0.167 J	0.0912
MW-308	03/18/19	12.5	912	0.63	7.03	-61.3	15	--	--	--	--	--	--
MW-308	05/16/19	13.2	311	0.29	6.78	-107.3	10	--	--	--	--	--	--
MW-308	09/17/19	12.9	213	1.61	6.64	2.6	12	--	--	--	--	--	--
MW-308	12/09/19	14.07	386	1.89	6.32	-53.5	10	5.5	<0.0600 J	<0.0600 J	93.9	16.1	1.01
MW-308	04/27/20	13.3	825	0.77	6.43	-73.10	31	--	--	--	--	--	--
MW-308	06/29/20	15.3	726	0.44	7.05	108.80	24	--	--	--	--	--	--
MW-308	09/21/20	15.7	489	0.7	5.69	239.30	38	--	--	--	--	--	--
MW-308	12/16/20	11.78	556	0.39	7.62	123.70	11	2.60	<0.200	<0.400	3.79 J+	4.57	0.293
MW-308	04/12/21	10.4	323	2.15	6.72	142.2	38	--	--	--	--	--	--
MW-308	06/14/21	7.31	600	1.15	6.97	137.7	11	--	--	--	--	--	--
MW-308	09/22/21	15.90	589	1.44	6.39	-17.2	6	--	--	--	--	--	--
MW-308	12/14/21	7.7	548	0.87	6.95	150.0	10	--	--	--	20.9	<0.5	0.219
MW-309	05/04/16	14.84	208	2.8	6.5	-102.7	8.08	--	--	--	--	--	--
MW-309	12/12/16	11.39	250	0.67	6.46	-110.3	9.47	--	--	--	--	--	--
MW-309	06/13/17	15.23	147	0.21	6.49	-89.1	--	--	--	--	--	--	--
MW-309	12/05/17	14.56	215	1.1	6.72	-87.3	-20.7	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-309	06/12/18	16.23	161	0.53	6.41	-42	7.48	--	--	--	--	--	--
MW-309	12/20/18	13.9	410	0.16	6.8	-112	21	--	--	--	--	--	--
MW-309	05/16/19	11.48	588	0.57	6.16	-109	62	--	--	--	--	--	--
MW-309	12/11/19	14.91	554	0.37	7.49	-70.1	37	--	--	--	--	--	--
MW-309	06/29/20	17.23	582	0.72	6.71	-12.60	77	--	--	--	--	--	--
MW-309	12/15/20	12.09	6.76	0.36	7.53	119.30	91	--	--	--	--	--	--
MW-309	06/15/21	11.34	322	0.59	6.52	23.4	68	--	--	--	--	--	--
MW-309	12/15/21	12.8	384	0.07	8.17	-22.8	6	--	--	--	--	--	--
MW-310	11/28/12	13.97	385	0	7.22	-88	80.6	--	--	--	< 0.50	--	--
MW-310	11/05/13	14.07	396	0.05	6.44	-95	0	2.0-2.5	--	--	< 0.50	0.982	0.528
MW-310	11/04/14	15.97	393	0.03	6.88	-101	0	1.5	< 0.10	< 0.10	< 0.50	11.5	0.615
MW-310	12/10/15	13.23	313	0.45	6.39	-78.5	0	2	< 0.10	< 0.10	< 0.50	34.8	0.554
MW-310	02/22/16	11.72	358	0.29	6.4	-98.5	3.83	--	--	--	--	--	--
MW-310	05/02/16	15.68	270	0.34	6.18	-67.1	8.56	--	--	--	--	--	--
MW-310	08/29/16	19.29	283	1.64	6.82	29	0	--	--	--	--	--	--
MW-310	12/15/16	11.6	258	1.26	6.49	-70	0	2	< 0.0400	< 0.0400	1.13	26.4	0.485
MW-310	03/13/17	11.24	317	0	6.53	-102	0	--	--	--	--	--	--
MW-310	06/15/17	15.8	229	0.33	6.21	-69.1	--	--	--	--	--	--	--
MW-310	08/22/17	23.88	365	0	6.96	-80	21.4	--	--	--	--	--	--
MW-310	12/05/17	13.45	603	1.39	4.01	101	3.3	1.5	< 0.0400	< 0.0400	44.2	1.55	2.66
MW-310	03/06/18	12.75	946	0.3	5.25	72.8	5.8	--	--	--	--	--	--
MW-310	06/13/18	17.54	464	0.2	5.84	-34.4	2.01	--	--	--	--	--	--
MW-310	09/06/18	20	293	0.67	5.45	74	2.13	3	--	--	--	--	--
MW-310	12/20/18	15.9	605	1.43	7.1	49.6	18	3.2	0.346	0.346	318	7.48	1.63
MW-310	03/19/19	14.4	804	1.25	7.21	-21.1	28	--	--	--	--	--	--
MW-310	05/16/19	12.36	695	1.09	4.51	87	72	--	--	--	--	--	--
MW-310	09/17/19	13.46	281	0.83	6.93	-23.9	16	--	--	--	--	--	--
MW-310	12/11/19	16.4	1551	12.52	6.92	155.8	28	5	<0.0600	<0.0600	999	53.1	7.24
MW-310	04/28/20	14	1460	0.54	6.71	64.40	18	--	--	--	--	--	--
MW-310	06/29/20	15.03	908	0.99	6.96	-21.80	47	--	--	--	--	--	--
MW-310	09/21/20	17.8	745	2.68	6.01	249.70	12	--	--	--	--	--	--
MW-310	12/15/20	11.86	1,020	0.33	7.57	116.90	64	1.60	<0.200	<0.400	167	64.90	1.48
MW-310	04/12/21	13.8	386	1.67	6.39	-28.8	92	--	--	--	--	--	--
MW-310	06/15/21	12.16	571	0.64	7.05	45.9	53	--	--	--	--	--	--
MW-310	09/22/21	18.17	789	1.05	6.02	-15.7	51	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-310	12/16/21	12.25	648	0.06	6.66	-28.1	85	--	--	--	90.8	0.339 J	2.5
MW-311	11/05/14	16.57	606	0	7.42	-146	7	1.5	< 0.25	< 0.25	42.3	< 0.200	1.57
MW-311	12/10/15	14.15	482	0	6.35	-103	1.4	0.75	< 0.10	< 0.10	46.4	27.4	1.45
MW-311	02/22/16	13.84	583	0.26	6.45	-103.1	4.19	--	--	--	--	--	--
MW-311	05/04/16	14.42	564	1.02	6.49	-109.3	6.22	--	--	--	--	--	--
MW-311	08/29/16	22.58	384	1.01	6.89	22	7.66	--	--	--	--	--	--
MW-311	12/15/16	12.91	270	0.4	6.64	-107.3	7.38	3	< 0.0400	< 0.0400	23.7	22.7	0.801
MW-311	03/13/17	12.31	424	0.31	6.73	-98.5	0	--	--	--	--	--	--
MW-311	06/15/17	15.25	453	0.95	7.16	-87.5	--	--	--	--	--	--	--
MW-311	08/22/17	19.69	390	8.27	7.1	-72	0	--	--	--	--	--	--
MW-311	12/07/17	15.15	276	0.38	6.61	-33.2	0	3.75	< 0.0400 J	< 0.0400 J	28.4	8.42	0.703
MW-311	03/08/18	10.87	585	1.04	6.62	-17.2	0	--	--	--	--	--	--
MW-311	06/13/18	17.24	366	0.25	6.44	-45.7	0	--	--	--	--	--	--
MW-311	09/05/18	19.44	455	0.19	6.27	38.8	3.11	--	--	--	--	--	--
MW-311	12/20/18	14.6	522	1.15	7.33	-72.6	14	1.7	< 0.0400	< 0.0400	8.59	4.44	1.02
MW-311	03/18/19	14.8	530	0.32	6.71	-73.9	3	--	--	--	--	--	--
MW-311	05/16/19	14.3	519	0.1	6.82	-71.4	5	--	--	--	--	--	--
MW-311	09/17/19	13.98	338	0.62	6.61	-22.9	3	--	--	--	--	--	--
MW-311	12/12/19	15.24	674	0.8	7.22	-84.4	3	4.5	<0.0600	<0.0600	8.28	41.5	1.81
MW-311	04/27/20	14.2	792	0.72	7.60	-83.20	9	--	--	--	--	--	--
MW-311	06/29/20	15.2	957	0.44	6.97	121.90	15	--	--	--	--	--	--
MW-311	09/21/20	17.5	763	0.26	6.53	-51.20	16	--	--	--	--	--	--
MW-311	12/15/20	14.11	877	0.20	7.80	118.00	30	2.80	<0.200	<0.400	74.20	18.30	2.04
MW-311	04/13/21	13.0	338	2.30	6.75	-71.2	18	--	--	--	--	--	--
MW-311	09/22/21	17.34	812	1.57	6.70	-50.1	9	--	--	--	--	--	--
MW-311	12/16/21	10.67	473	0.08	7.34	37.4	8	--	--	--	4.42	0.144 J	1.77
MW-312	11/05/14	17.07	459	0.58	6.78	-92	0	5.7	< 0.25	< 0.25	< 1.3	< 0.200	0.787
MW-312	12/10/15	13.74	434	0	6.3	-89	0	1.5	< 0.10	< 0.10	< 0.50	16.8	0.717
MW-312	02/23/16	13.69	578	0.22	6.63	-113.5	8.84	--	--	--	--	--	--
MW-312	05/04/16	14.77	539	1.19	6.63	-122.1	4.05	--	--	--	--	--	--
MW-312	08/29/16	24.31	480	1.01	6.89	28	0	--	--	--	--	--	--
MW-312	12/15/16	13.74	452	0.4	6.74	-121.8	9.47	4	< 0.0400	< 0.0400	< 0.500	20.4	0.924
MW-312	03/13/17	12.95	598	0	6.81	-126	0	--	--	--	--	--	--
MW-312	06/15/17	15.14	465	0.27	6.68	-106.8	--	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-312	08/23/17	19.07	460	0	7.3	-81	0	--	--	--	--	--	--
MW-312	12/07/17	16.15	351	0.88	6.66	-107.7	1.17	2.6	< 0.0400	< 0.0400	488	3.95	0.664
MW-312	03/08/18	11.91	501	1.12	6.88	-6.3	0	--	--	--	--	--	--
MW-312	06/13/18	15.38	349	1.59	6.58	-106.1	0.92	--	--	--	--	--	--
MW-312	09/05/18	20.03	417	0.16	6.55	-72.6	3.75	6	--	--	--	--	--
MW-312	12/20/18	14.1	429	0.75	7.29	-45.3	7	2.5	< 0.0400	< 0.0400	0.164 J	4.35	0.715
MW-312	03/19/19	12.6	553	0.58	7.74	-41	3	--	--	--	--	--	--
MW-312	05/16/19	13.8	524	0.67	6.7	-101.9	2	--	--	--	--	--	--
MW-312	09/17/19	13.84	289	0.55	6.54	-31.9	2	--	--	--	--	--	--
MW-312	12/12/19	14.76	514	0.36	8.17	-86.4	5	2	<0.0600	<0.0600	0.63	22	0.957
MW-312	04/28/20	14.9	596	0.36	7.64	-85.90	4	--	--	--	--	--	--
MW-312	06/29/20	15.03	491	0.94	6.39	-25.70	12	--	--	--	--	--	--
MW-312	09/21/20	17.5	607	0.33	6.56	-35.30	20	--	--	--	--	--	--
MW-312	12/15/20	13.39	571	0.28	7.75	118.20	35	3.00	<0.200	<0.400	<1.20	6.93	1.08
MW-312	04/13/21	12.3	286	2.10	6.78	-84.4	17	--	--	--	--	--	--
MW-312	06/16/21	8.65	476	2.05	6.93	17.3	3	--	--	--	--	--	--
MW-312	09/22/21	16.72	805	2.04	6.62	-30.2	10	--	--	--	--	--	--
MW-312	12/16/21	10.85	338	0.04	7.04	35.2	6	--	--	--	<0.500	0.115 J	0.83
MW-313	08/29/16	21.96	489	1.07	6.88	23	0	--	--	--	--	--	--
MW-313	12/12/16	14.13	474	1.04	6.82	-34.9	9.06	--	--	--	--	--	--
MW-313	03/13/17	11.3	850	0.03	6.78	-23	3.5	--	--	--	--	--	--
MW-313	06/15/17	15.94	374	1.32	6.85	-24.6	--	--	--	--	--	--	--
MW-313	08/22/17	23.47	400	8.21	7.39	-62	0	--	--	--	--	--	--
MW-313	12/07/17	15.72	395	0.99	6.95	24.8	3.22	--	--	--	--	--	--
MW-313	03/07/18	11.05	615	0.89	6.96	36.8	8.42	--	--	--	--	--	--
MW-313	06/13/18	16.73	400	0.46	6.76	-44.1	3.02	--	--	--	--	--	--
MW-313	09/05/18	20.55	447	0.18	6.76	-29.7	1.34	--	--	--	--	--	--
MW-313	12/20/18	14.7	555	1.03	7.07	-52.9	43	--	--	--	--	--	--
MW-313	03/19/19	11.1	686	0.73	7.81	-30.4	6	--	--	--	--	--	--
MW-313	05/16/19	14.5	781	0.42	7.05	-39.1	10	--	--	--	--	--	--
MW-313	09/17/19	15.71	343	0.71	6.65	-25.3	7	--	--	--	--	--	--
MW-313	12/12/19	14.86	574	0.64	7.99	-55.7	5	--	--	--	--	--	--
MW-313	04/27/20	15.6	683	1.21	7.87	3.40	11	--	--	--	--	--	--
MW-313	06/29/20	16.33	486	1.81	6.73	-74.50	32	--	--	--	--	--	--
MW-313	09/21/20	18.7	605	0.55	6.84	21.90	13	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-313	12/15/20	13.54	718	0.22	7.93	109.70	69	--	--	--	--	--	--
MW-313	04/13/21	12.9	250	2.02	6.85	-69.0	48	--	--	--	--	--	--
MW-313	06/16/21	9.60	441	0.99	7.38	30.4	38	--	--	--	--	--	--
MW-313	09/22/21	17.25	668	1.34	6.95	-41.6	28	--	--	--	--	--	--
MW-313	12/16/21	11.89	401	0.19	7.16	30.7	80	--	--	--	--	--	--
MW-314	08/30/16	20.6	565	1.23	6.87	82	8.52	--	--	--	--	--	--
MW-314	12/14/16	13.42	471	0.52	6.73	-90.3	9.44	--	--	--	--	--	--
MW-314	03/13/17	12.34	626	0	6.73	-53	3.9	--	--	--	--	--	--
MW-314	06/14/17	18.28	447	0.46	7.07	-87.9	8.2	--	--	--	--	--	--
MW-314	08/23/17	18.35	453	0	7.33	-35	3.6	--	--	--	--	--	--
MW-314	12/06/17	14	413	0.68	6.56	-62.5	4.2	--	--	--	--	--	--
MW-314	03/07/18	11.95	583	0.9	6.84	23.5	8.42	--	--	--	--	--	--
MW-314	06/12/18	15.92	455	0.74	6.7	-110	2.91	--	--	--	--	--	--
MW-314	09/05/18	18.9	427	0.4	6.49	-40.8	4.24	--	--	--	--	--	--
MW-314	12/20/18	14.7	567	0.16	6.79	-87	29	--	--	--	--	--	--
MW-314	03/19/19	11.4	564	0.97	7.12	-32.4	48	--	--	--	--	--	--
MW-314	05/16/19	11.01	714	0.77	6.27	-61	79	--	--	--	--	--	--
MW-314	09/17/19	--	--	--	--	--	--	--	--	--	--	--	--
MW-314	12/10/19	13.97	725	1.55	5.67	-36	7	--	--	--	--	--	--
MW-314	04/28/20	13.2	749	0.44	7.55	-53.60	7	--	--	--	--	--	--
MW-314	06/29/20	18.27	639	1.02	6.53	-29.80	16	--	--	--	--	--	--
MW-314	09/22/20	16.5	758	0.49	6.28	22.60	16	--	--	--	--	--	--
MW-314	12/15/20	13.53	800	0.15	7.78	114.80	35	--	--	--	--	--	--
MW-314	04/13/21	10.7	272	2.02	6.54	-7.9	58	--	--	--	--	--	--
MW-315	08/29/16	20.56	558	1.04	6.86	2	8.44	--	--	--	--	--	--
MW-315	12/12/16	12.07	488	1.45	6.74	-102	0	--	--	--	--	--	--
MW-315	03/13/17	12.81	522	0	6.77	-117	0	--	--	--	--	--	--
MW-315	06/15/17	14.2	450	1.27	7.21	-99	--	--	--	--	--	--	--
MW-315	08/23/17	18.2	465	0	7.3	-68	0	--	--	--	--	--	--
MW-315	12/07/17	14.59	372	0.84	6.68	-28.7	0	--	--	--	--	--	--
MW-315	03/08/18	11.74	448	1.34	6.84	20.7	0	--	--	--	--	--	--
MW-315	06/13/18	15.32	325	1	6.58	-41.5	0	--	--	--	--	--	--
MW-315	09/05/18	18.81	378	0.12	6.39	-28.8	0.54	--	--	--	--	--	--
MW-315	12/20/18	14.5	460	0.32	7.15	-92	5	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-315	03/18/19	14.7	497	0.81	6.74	-65.4	3	--	--	--	--	--	--
MW-315	05/16/19	13.6	508	0.2	6.83	-64.3	3	--	--	--	--	--	--
MW-315	09/17/19	13.01	311	0.58	6.37	-41.8	4	--	--	--	--	--	--
MW-315	12/12/19	14.4	587	0.79	7.98	-67.8	3	--	--	--	--	--	--
MW-315	04/27/20	14.8	591	0.53	7.67	-70	8	--	--	--	--	--	--
MW-315	06/29/20	14.3	584	0.64	6.92	189.80	9	--	--	--	--	--	--
MW-315	09/21/20	16.7	589	0.25	6.43	-26.20	14	--	--	--	--	--	--
MW-315	12/15/20	13.69	588	0.09	7.80	119.30	43	--	--	--	--	--	--
MW-315	04/13/21	13.1	289	2.23	6.65	-68.2	22	--	--	--	--	--	--
MW-315	06/16/21	8.01	501	1.37	6.79	0.9	3	--	--	--	--	--	--
MW-315	09/22/21	17.62	785	1.14	6.45	-19.0	10	--	--	--	--	--	--
MW-315	12/16/21	10.40	304	1.36	7.31	-8.2	10	--	--	--	--	--	--
SH-04	05/05/16	14.18	129	1.43	6.47	-107.3	8.73	--	--	--	--	--	--
SH-04	12/14/16	8.88	133	0.39	6.41	-48.2	7.21	--	--	--	--	--	--
SH-04	06/14/17	17.02	116	0.27	6.33	52.7	1.67	--	--	--	--	--	--
SH-04	12/05/17	15.32	134	0.71	6.72	-65.4	3.51	--	--	--	--	--	--
SH-04	06/13/18	16.5	140	0.47	6.12	-54.2	1.05	--	--	--	--	--	--
SH-04	12/18/18	12.3	180	1.05	7.31	-30.6	19	--	--	--	--	--	--
SH-04	05/16/19	9.31	226	0.91	5.71	-126	13	--	--	--	--	--	--
SH-04	12/11/19	14.43	391	0.63	7.51	-12.1	19	--	--	--	--	--	--
SH-04	06/29/20	14.4	219	0.49	6.46	215.30	8	--	--	--	--	--	--
SH-04	12/14/20	14.00	371	0.29	7.56	151.80	21	--	--	--	--	--	--
SH-04	06/15/21	8.75	190	0.94	7.00	57.0	6	--	--	--	--	--	--
SH-04	12/15/21	11.6	140	0.15	9.84	-77.1	6	--	--	--	--	--	--
TX-03A	01/13/04	14	480	1.4	6.39	-59	1.8	--	--	--	--	--	--
TX-03A	04/19/04	13.7	560	1.44	6.18	21	2.4	6	--	--	< 1	--	--
TX-03A	07/27/04	17.9	589	1.31	6.26	68	3	--	--	--	--	--	--
TX-03A	10/18/04	16.7	595	2.77	6.63	-100	42	--	--	--	--	--	--
TX-03A	01/24/05	14.6	563	1.79	5.11	5	43.1	--	--	--	--	--	--
TX-03A	04/19/05	13.8	552	0	6.47	-86	20	4	--	--	< 1	--	--
TX-03A	07/12/05	17.3	477	0.16	6.55	-121	55.6	--	--	--	--	--	--
TX-03A	10/31/07	--	--	--	--	--	--	--	--	--	--	--	--
TX-03A	11/20/08	15.8	821	0.49	6.87	-59	31.8	30.4	--	--	< 1	--	--
TX-03A	04/08/09	12.84	236	0	6.58	-145	43.1	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature	Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	Ferrous Iron	Nitrogen, Nitrate	Nitrogen, Nitrite	Sulfate	Iron Dissolved	Manganese Dissolved
		oC	µS/cm	mg/L		mv	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	
TX-03A	11/17/09	16.3	50.6	1.29	6.39	-102	9.7	36	--	--	1.2	--	--
TX-03A	04/27/10	13.2	52.8	0.21	5.76	-153	9.5	--	--	--	--	--	--
TX-03A	10/25/10	15.5	42.5	1.39	6.68	-115	48	30	--	--	6.8	--	--
TX-03A	05/23/11	--	--	--	--	--	--	--	--	--	--	--	--
TX-03A	10/27/11	15.44	478	1.72	8.5	-100.9	--	20.3	--	--	< 0.50	--	--
TX-03A	03/01/12	12.29	564	0	6.71	-118	12.6	--	--	--	--	--	--
TX-03A	06/12/12	14	507	4	7.19	-103	4.5	--	--	--	--	--	--
TX-03A	09/25/12	17.83	514	0	6.48	-139	15.2	--	--	--	--	--	--
TX-03A	11/28/12	13.79	439	0	6.7	-104	--	--	--	--	< 0.50	--	--
TX-03A	11/05/13	10.98	528	0.06	6.57	-114	0	4	--	--	< 0.50	< 0.200	0.47
TX-03A	11/04/14	16.8	424	0.38	6.49	-39	5.83	6	< 0.10	< 0.10	< 0.50	6.18	0.523
TX-03A	12/10/15	15.11	456	0.25	6.51	-103.5	6.7	0.5	< 0.10	< 0.10	< 0.50	31.7	0.5
TX-03A	02/22/16	12.73	484	0.3	6.34	-109.1	7.22	--	--	--	--	--	--
TX-03A	05/02/16	15.06	418	0.22	6.36	-103.1	3.96	--	--	--	--	--	--
TX-03A	08/29/16	18.69	395	2.27	6.84	18	0	--	--	--	--	--	--
TX-03A	12/15/16	12.31	295	0.29	6.54	-109.9	8.97	2	< 0.0400	< 0.0400	< 0.500	37.8	0.517
TX-03A	03/13/17	11.74	287	0.23	6.74	-109.5	0	--	--	--	--	--	--
TX-03A	06/13/17	14.63	322	0.24	6.32	-98	--	--	--	--	--	--	--
TX-03A	08/22/17	18.97	317	0	7.07	-87	0	--	--	--	--	--	--
TX-03A	12/05/17	13.23	477	1.83	6.57	-104.1	2.77	1.5	< 0.0400	< 0.0400	219	25.1	0.784
TX-03A	03/27/18	12.27	465	0.65	6.19	71.9	3.37	--	--	--	--	--	--
TX-03A	06/13/18	15.4	407	4.12	6.07	-82.4	0.69	--	--	--	--	--	--
TX-03A	09/06/18	19.9	551	0.14	6.24	-76.8	1.26	--	--	--	--	--	--
TX-03A	12/20/18	16.5	369	0.1	6.67	-116	16	4.5	< 0.0400	< 0.0400	19	6.46	0.465
TX-03A	03/19/19	13.9	550	0.45	7.55	-67.1	8	--	--	--	--	--	--
TX-03A	05/16/19	12.64	538	0.51	6.11	-84	12	--	--	--	--	--	--
TX-03A	09/17/19	16.79	348	0.97	6.41	3.1	8	--	--	--	--	--	--
TX-03A	12/11/19	16.75	1514	1.86	8.64	-94	5	3	<0.0600 J	<0.0600 J	704	104	2.99
TX-03A	04/28/20	14.1	881	0.46	7.5	-65.10	12	--	--	--	--	--	--
TX-03A	06/29/20	16.13	577	1.24	6.36	-20.20	13	--	--	--	--	--	--
TX-03A	09/21/20	18.1	505	0.32	6.22	74	15	--	--	--	--	--	--
TX-03A	12/15/20	13.20	501	0.31	7.59	114.00	15	2.40	<0.200	<0.400	42.30	26.20	1.16
TX-03A	04/12/21	11.6	259	1.91	6.26	-6.2	40	--	--	--	--	--	--
TX-03A	06/16/21	9.02	416	1.35	7.60	39.3	3	--	--	--	--	--	--
TX-03A	09/23/21	17.45	633	1.17	6.09	-5.6	7	--	--	--	--	--	--

Table 5
Compliance Monitoring Natural Attenuation Parameters
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
TES-MW-1	12/13/16	8.37	99	7.01	5.86	89	0	--	--	--	--	--	--
TES-MW-1	12/06/17	10	69	6.02	5.67	39.9	5.7	--	--	--	--	--	--
TES-MW-1	12/19/18	11.2	172	1.3	6.68	-96	24	--	--	--	--	--	--
TES-MW-1	12/09/19	13.42	172	6.2	6.51	63.9	11	--	--	--	--	--	--
TES-MW-1	12/16/20	12.07	98	0.92	7.72	135.70	36	--	--	--	--	--	--
TES-MW-1	12/14/21	11.2	93	0.70	7.71	132.1	34	--	--	--	--	--	--
TX-04	12/12/16	10.65	353	0.82	7.02	-108	0	--	--	--	--	--	--
TX-04	12/05/17	12.06	167	0.68	7.01	-10.8	23.2	--	--	--	--	--	--
TX-04	12/18/18	14.5	233	1.26	7.69	-48.3	44	--	--	--	--	--	--
TX-04	12/12/19	14.81	295	0.44	8.46	-83.3	14	--	--	--	--	--	--
TX-04	12/14/20	14.54	334	0.17	7.81	136.90	7	--	--	--	--	--	--
TX-04	12/15/21	10.4	207	0.21	8.32	-3.0	17	--	--	--	--	--	--
TX-06A	12/12/16	11.95	212	0.55	6.55	-97.3	6.56	--	--	--	--	--	--
TX-06A	12/05/17	14.43	248	1.15	6.69	-63.6	5.63	--	--	--	--	--	--
TX-06A	12/20/18	14.5	257	0.17	6.76	-99	11	--	--	--	--	--	--
TX-06A	12/10/19	13.58	230	4.49	5.62	8.6	12	--	--	--	--	--	--
TX-06A	12/14/20	13.92	341	0.20	7.74	123.80	17	--	--	--	--	--	--
TX-06A	12/15/21	12.1	174	0.25	7.85	9.5	10	--	--	--	--	--	--

Note:

= Indicates data collected during this progress report period

°C = degrees Celsius

J = indicates a estimated value

J+ = The result is an estimated quantity, but the result may be biased high.

< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are laboratory Method Detection Limits (MDLs). Prior to June 12, 2012, limits shown are la

mg/L = milligrams per liter

mV = millivolts

NM = not measured

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

µS/cm = microsiemens per centimeter

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-05	01/15/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.37	< 0.5	--
MW-05	04/21/04	0.0015	< 0.001	0.0053	< 0.001	< 0.25	0.41	< 0.5	--
MW-05	07/28/04	0.0015	0.001	< 0.001	0.0017	< 0.25	< 0.25	< 0.5	--
MW-05	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-05	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-05	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.072	< 0.25	< 0.5	--
MW-05	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	0.25	< 0.25	< 0.5	--
MW-05	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	0.11	< 0.25	< 0.5	--
MW-05	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	< 0.238	< 0.476	--
MW-05	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
MW-05	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-05	10/29/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.14	< 0.1	--
MW-05	05/23/11	<.0003	<.0005	<.0003	<.0007	0.0744	--	--	--
MW-05	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.115	< 0.095	< 0.19	--
MW-05	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0954	< 0.095	--
MW-05	11/07/13	< 0.00020	0.00083 J	< 0.00020	0.00087 J	0.345	< 0.049	< 0.097	--
MW-05	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.0507 J	0.137	< 0.094	--
MW-05	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.233	< 0.388	--
MW-05	05/04/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	70.9 J	< 0.0398	< 0.0598	--
MW-05	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0436	< 0.0654	--
MW-05	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0860	< 0.129	--
MW-05	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0968 J	0.105 J	< 0.121	--
MW-05	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.114	< 0.124	--
MW-05	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.230 J	0.119 J	--
MW-05	05/15/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.0589	< 0.108	< 0.118	--
MW-05	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.111 J	< 0.121	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-05	06/30/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.113	< 0.124	--
MW-05	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.163	<0.340	--
MW-05	06/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.240	<0.401	--
MW-05	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.254	<0.424	--
MW-101	01/16/04	< 0.001	< 0.001	< 0.001	0.0028	0.55	< 0.25	< 0.5	--
MW-101	04/20/04	0.0016	< 0.001	< 0.001	0.0014	0.67	< 0.25	< 0.5	--
MW-101	07/28/04	0.0012	< 0.001	< 0.001	0.0011	1	< 0.25	< 0.5	--
MW-101	10/18/04	0.0011	< 0.001	< 0.001	< 0.001	0.42	< 0.25	< 0.5	--
MW-101	01/26/05	< 0.001	< 0.001	< 0.001	0.0011	0.51	< 0.25	< 0.5	--
MW-101	04/19/05	0.0016	< 0.001	< 0.001	< 0.001	0.58	< 0.25	< 0.5	--
MW-101	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.31	< 0.25	< 0.5	--
MW-101	10/10/05	< 0.001	< 0.001	< 0.001	< 0.001	0.16	< 0.25	< 0.5	--
MW-101	01/27/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.223	< 0.236	< 0.476	--
MW-101	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	0.1	< 0.25	< 0.5	--
MW-101	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-101	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	0.15	0.13	< 0.1	--
MW-101	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0936	< 0.10	< 0.20	--
MW-101	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.188 J	0.0937 J	< 0.10	--
MW-101	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.118 J	< 0.0048	< 0.0095	--
MW-101	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.0048	< 0.0095	--
MW-101	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.129	< 0.201	--
MW-101	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.101	0.0983 J	< 0.0632	--
MW-101	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.237	0.246 J	< 0.127	--
MW-101	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.127 J	0.157 J	< 0.115	--
MW-101	12/09/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.155 J	< 0.125	--

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Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-101	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.238	<0.397	--
MW-101	12/14/21	<0.000400	<0.00100	<0.00100	<0.00300	0.433	0.305	0.128 J	--
MW-102	01/14/04	0.0021	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	04/21/04	0.0036	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	10/18/04	0.0011	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	01/25/05	0.0024	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	04/18/05	0.0027	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-102	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.077	< 0.25	< 0.5	--
MW-102	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-102	01/26/06	0.00498	< 0.0005	0.00174	0.00201	< 0.05	< 0.238	< 0.472	--
MW-102	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
MW-102	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-102	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-102	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.113	< 0.20	--
MW-102	11/28/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-102	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.047	0.144 J	--
MW-102	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0568 J	< 0.094	--
MW-102	12/08/15	< 0.0020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.233	< 0.388	--
MW-102	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0413	< 0.0620	--
MW-102	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
MW-102	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
MW-102	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.774	0.197 J	--
MW-102	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.151 J	<0.123	--
MW-102	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.248	<0.413	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-102	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.240	<0.401	--
MW-104	01/15/04	0.0019	< 0.001	0.15	0.1028	2.7	1.2	< 0.5	0.00555
MW-104	01/15/04	0.0012	< 0.001	0.1	0.0706	2	1.3	< 0.5	< 0.005
MW-104	04/21/04	0.0066	0.0025	0.35	0.0931	4.3	1.7	< 0.5	0.00575
MW-104	07/28/04	0.0018	< 0.001	0.048	0.017	2.2	0.87	< 0.5	< 0.005
MW-104	07/28/04	0.0017	< 0.001	0.049	0.019	2.1	1.3	< 0.5	< 0.005
MW-104	10/19/04	< 0.001	< 0.001	0.0021	0.0016	< 0.25	0.61	< 0.5	< 0.005
MW-104	01/24/05	< 0.001	< 0.001	0.0012	< 0.001	< 0.25	0.74	< 0.5	< 0.005
MW-104	04/18/05	< 0.001	< 0.001	0.057	0.0067	1.4	1.2	< 0.5	< 0.005
MW-104	07/12/05	0.0014	< 0.001	0.11	0.012	1.8	0.7	< 0.5	< 0.005
MW-104	10/19/05	< 0.001	< 0.001	0.024	0.0049	0.29	0.62	< 0.5	< 0.005
MW-104	01/25/06	0.00245	0.00129	0.33	0.0273	2.07	3.73	< 0.962	0.0077
MW-104	10/30/07	--	--	--	--	1.25	--	--	< 0.002
MW-104	05/20/08	--	--	--	--	4	2.1	< 0.5	--
MW-104	11/18/08	--	--	--	--	0.13	0.69	< 0.5	< 0.005
MW-104	04/08/09	--	--	--	--	1.8	1.6	< 0.1	0.00326
MW-104	11/17/09	< 0.0005	< 0.001	0.0016	< 0.001	0.21	0.17	< 0.1	0.00778
MW-104	04/27/10	--	--	--	--	3.9	2.5	0.27	0.00232
MW-104	10/26/10	--	--	--	--	0.23	0.23	< 0.1	--
MW-104	05/23/11	<0.0006	0.003	0.104	0.0018	4.44	0.448	<0.097	< 0.01
MW-104	10/25/11	--	--	--	--	3.38	0.413	< 0.20	< 0.01
MW-104	03/01/12	0.00079 J	0.0015	0.0467	0.0016 J	3.69	--	--	--
MW-104	06/13/12	--	--	--	--	4.78	0.423	< 0.10	< 0.01
MW-104	09/26/12	0.00066 J	0.0024	0.0509	0.0019 J	4.54	--	--	--
MW-104	11/29/12	0.00038 J	0.00037 J	0.0113	< 0.00046	0.592	0.315	< 0.098	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-104	05/14/13	--	--	--	--	5.07	0.601	< 0.096	< 0.01
MW-104	11/07/13	--	--	--	--	3.62	0.666 J	< 0.095	< 0.01
MW-104	04/24/14	--	--	--	--	5.68	1.13	0.100 J	< 0.01
MW-104	11/05/14	--	--	--	--	0.441	0.527	0.221	< 0.01
MW-104	05/20/15	--	--	--	--	2.82	0.686	< 0.097	< 0.01
MW-104	12/09/15	--	--	--	--	< 0.100	0.408	< 0.398	< 0.00200
MW-104	05/05/16	--	--	--	--	7.45	2.85	0.144 J	0.00285
MW-104	12/14/16	--	--	--	--	3.61	2.22	0.155 J	0.000902 J
MW-104	06/14/17	--	--	--	--	4.85	2.9	0.159 J	0.00444
MW-104	12/07/17	< 0.0000993	< 0.000312	0.00411	< 0.000442	0.53	1.34	0.126 J	--
MW-104	06/12/18	--	--	--	--	3.04	1.86	< 0.122	0.00207 J
MW-104	12/19/18	--	--	--	--	0.552	2.25	0.967	0.00185 J
MW-104	05/15/19	--	--	--	--	2.59	1.64	0.316 J	0.00163 J
MW-104	12/10/19	--	--	--	--	0.956	0.713	< 0.122	< 0.000995
MW-104	06/30/20	--	--	--	--	1.02	0.914	0.117 J	0.00408
MW-104	12/14/20	<0.00020	<0.0002	0.00171	<0.0005	0.487	1.56	1.31	<0.004
MW-104	06/15/21	--	--	--	--	0.948	0.753	<0.395	<0.0600
MW-104	12/15/21	--	--	--	--	0.300	0.456	0.175 J	<0.0600
MW-105	01/15/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.4	< 0.5	0.00647
MW-105	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.65	< 0.5	0.00793
MW-105	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.2	< 0.5	0.0128
MW-105	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.8	< 0.5	0.0311
MW-105	01/24/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3	< 0.5	0.00824
MW-105	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.3	0.78	0.00615
MW-105	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.7	< 0.5	< 0.005

Table 6
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Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-105	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.7	0.66	< 0.005
MW-105	01/25/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	3.95	< 0.962	0.00321
MW-105	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	--	--	< 0.005
MW-105	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	0.021
MW-105	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	--	--	--
MW-105	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.253	< 0.20	< 0.01
MW-105	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.291	< 0.098	< 0.01
MW-105	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.000046	< 0.050	0.189	< 0.095	0.0179
MW-105	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.000046	< 0.050	0.377	0.192	< 0.01
MW-105	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.406	0.408	0.0152
MW-105	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.85	0.377	0.0116
MW-105	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.146 J	0.624	0.176 J	< 0.00200
MW-105	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.672	0.737	0.0107
MW-105	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.388	0.382 J	0.00754
MW-105	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	1.81	0.972	0.00421
MW-105	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.523	0.670	0.0324 J
MW-111	01/15/04	0.047	< 0.001	< 0.001	< 0.001	< 0.25	0.98	< 0.5	--
MW-111	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.48	< 0.5	--
MW-111	07/27/04	0.015	< 0.001	< 0.001	0.0012	< 0.25	0.45	< 0.5	--
MW-111	10/19/04	0.036	0.0012	< 0.001	0.0035	0.35	0.45	< 0.5	--
MW-111	01/25/05	0.079	< 0.005	< 0.005	< 0.005	0.58 J	0.63	< 0.5	--
MW-111	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.096	< 0.25	< 0.5	--
MW-111	07/12/05	0.0094	< 0.001	< 0.001	< 0.001	0.23	0.26	< 0.5	--
MW-111	10/18/05	0.017	< 0.001	< 0.001	0.0013	0.26	0.27	< 0.5	--
MW-111	01/25/06	0.0956	0.00189	0.000796	0.0037	0.683	0.998	< 0.481	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-111	11/19/08	0.014	< 0.005	< 0.005	< 0.005	0.23	0.37	< 0.5	--
MW-111	11/17/09	0.041	< 0.001	< 0.001	< 0.001	0.24	0.11	< 0.1	--
MW-111	10/26/10	0.0043	< 0.001	< 0.001	< 0.001	< 0.1	0.12	< 0.1	--
MW-111	05/23/11	0.00064	<.0005	<.0003	<.0007	<0.050	--	--	--
MW-111	10/25/11	0.00094	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.122	< 0.20	--
MW-111	11/29/12	0.0248	0.001	< 0.00020	0.0012 J	0.371	0.269	< 0.10	--
MW-111	11/07/13	0.0845	0.001	0.00023 J	0.00069 J	0.208	0.174	< 0.095	--
MW-111	11/05/14	0.0574	0.0012	0.00083 J	0.00047 J	0.232	0.167	0.118 J	--
MW-111	12/08/15	0.386	0.00649	0.00291	0.00333	0.944	0.335	<0.388	--
MW-111	05/04/16	0.0719	0.00157	0.00158	0.00125 J	0.294	0.141	< 0.0598	--
MW-111	12/14/16	0.248	0.00375 J	0.00243 J	<0.00442	0.739 J	0.343	0.0883 J	--
MW-111	06/14/17	0.00575	0.000480 J	< 0.000198	0.000466 J	0.0836 J	0.142 J	< 0.123	--
MW-111	12/06/17	0.202	0.00632	0.00214	0.00507	0.792	0.597	< 0.132	--
MW-111	06/12/18	0.0273	0.00181	0.000334 J	0.00238 J	0.227	0.210 J	< 0.123	--
MW-111	12/19/18	0.0592	0.00574	0.0012	0.00475	0.766	1.27	0.462	--
MW-111	05/15/19	0.00484	< 0.000170	< 0.000190	< 0.000580	0.149	0.195 J	< 0.117	--
MW-111	12/11/19	0.000270 J	< 0.000312	< 0.000198	< 0.000422	< 0.0704	0.255 J	< 0.125	--
MW-111	06/29/20	0.00124	0.000637 J	< 0.000198	0.000648 J	0.0898 J	< 0.110	< 0.120	--
MW-111	12/14/20	0.00163	0.000945	<0.00020	0.00118	<0.250	0.346	0.348	--
MW-111	06/15/21	0.000251 J	0.000593 J	<0.00100	0.00100 J	0.120 J	<0.233	<0.389	--
MW-111	12/15/21	0.00337	0.00161	0.000247 J	0.00166 J	0.421	0.340	0.149 J	--
MW-112A	01/15/04	0.02	< 0.001	< 0.001	< 0.001	0.25	0.63	< 0.5	--
MW-112A	04/21/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	0.56	< 0.75	--
MW-112A	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.51	< 0.5	--
MW-112A	10/19/04	0.0013	< 0.001	< 0.001	< 0.001	< 0.25	0.68	< 0.5	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-112A	01/24/05	0.003	0.0012	< 0.001	0.001	0.44	0.65	< 0.5	--
MW-112A	04/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.42	1.4	< 0.5	--
MW-112A	07/12/05	0.0029	< 0.001	< 0.001	< 0.001	0.28	0.48	< 0.5	--
MW-112A	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-112A	01/26/06	0.00211	< 0.0005	< 0.0005	< 0.001	0.236	0.602	< 0.485	--
MW-112A	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	0.3	1.3	< 0.5	--
MW-112A	11/18/09	0.00075	< 0.001	< 0.001	< 0.001	0.2	0.23	< 0.1	--
MW-112A	10/29/10	0.036	< 0.001	< 0.001	0.0015	0.77	0.6	< 0.1	--
MW-112A	05/24/11	0.00041	<0.0005	<0.0003	<0.0007	0.129	--	--	--
MW-112A	10/25/11	0.0055	< 0.0010	< 0.0010	< 0.0020	0.292	0.2	< 0.20	--
MW-112A	11/25/12	0.0058	0.00022 J	0.00037 J	< 0.00046	0.197 J	0.282	< 0.10	--
MW-112A	11/04/13	0.0238	0.00068 J	0.0376	0.0012 J	0.909	1.72	< 0.19	--
MW-112A	11/06/14	0.0156	0.0014	0.028	0.0016 J	0.76	1.43	0.295	--
MW-112A	12/08/15	0.0297	0.00368	0.00219	0.00406	1.31	5.89	< 0.389	--
MW-112A	05/05/16	0.0248	0.00131	0.0992	0.00688	1.75	7.96	0.132 J	--
MW-112A	12/12/16	0.0426	0.00666	0.0109	0.0103	2.27	2.77	0.180 J	--
MW-112A	06/15/17	0.0348	0.0037	0.02	0.00464 J	1.46	7.34	0.210 J	--
MW-112A	12/07/17	0.00111	0.00169	< 0.000198	0.00196 J	0.811	1.71	0.151 J	--
MW-112A	06/13/18	0.0289	0.00297	0.134	0.00748	2.39	12.6	0.150 J	--
MW-112A	12/20/18	0.00166	0.00171	0.000248 J	0.00196 J	0.728	2.93	0.789	--
MW-112A	05/16/19	0.0111	0.00173	0.0231	0.00208 J	2	2.37	0.222 J	--
MW-112A	12/12/19	0.0149	0.00296	0.00154	0.00385	1.91	12.2	0.419 J	--
MW-112A	06/30/20	0.00354 J	0.000903 J	0.0215 J	0.00155 J	1.05	3.62	0.204 J	--
MW-112A	12/14/20	0.00442	0.00253	0.00186	0.00375	1.77 J+	2.30	1.02	--
MW-112A	06/15/21	0.00207	0.000659 J	0.00702	0.00189 J	0.976	2.58	0.161 J	--
MW-112A	12/15/21	0.00235	0.00147	0.000665 J	0.00213 J	2.34	1.10	0.215 J	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-201	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-201	04/20/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-201	01/26/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.33	< 0.5	--
MW-201	04/20/05	< 0.001	< 0.001	< 0.001	0.0021	< 0.25	< 0.25	< 0.5	--
MW-201	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.12	0.7	< 0.5	--
MW-201	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.22	4.6	2.3	--
MW-201	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.050	0.342	< 0.476	--
MW-201	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	0.41	< 0.5	--
MW-201	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-201	10/27/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.18	< 0.1	--
MW-201	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0899	1.46	0.181	--
MW-201	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.122	< 0.10	--
MW-201	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.0964 J	0.52	< 0.094	--
MW-201	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.173	0.195	--
MW-201	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	0.121	0.323	< 0.389	--
MW-201	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.203	0.174 J	--
MW-201	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.159 J	< 0.132	--
MW-201	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.281	0.383 J	--
MW-201	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	0.315	<0.368	--
MW-202	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	2.5	15	< 10	--
MW-202	04/20/04	0.014	0.0062	0.074	0.021	4.4	28	< 10	--
MW-202	01/26/05	< 0.005	< 0.005	< 0.005	< 0.005	7.7	5.2	< 5	--
MW-202	04/20/05	0.016	0.0022	0.036	0.0237	3.7	6.2	< 5	--
MW-202	07/13/05	0.016	0.0033	0.067	0.0191	3.5	6.2	< 1	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-202	10/20/05	0.019	0.0021	0.058	0.0056	3.3	5.9	< 2.5	--
MW-202	01/26/06	0.0224	0.00598	0.041	0.0191	5.79	11.2	< 4.76	--
MW-202	04/25/06	0.00749	0.00378	0.062	0.0124	6.78	8.7	<4.85	--
MW-202	10/12/06	0.00936	0.00339	0.0828	0.00616	5.65	11.5	0.834	--
MW-202	04/26/07	0.00825	0.0048	0.063	<0.015	4.78	8.24	1.05	--
MW-202	10/30/07	--	--	--	--	4.55	10.9	< 1	--
MW-202	05/20/08	--	--	--	--	2.3	1.8	< 2.5	--
MW-202	11/20/08	--	--	--	--	5	2.2	< 0.5	--
MW-202	04/07/09	--	--	--	--	4.8	14	< 0.1	--
MW-202	11/19/09	--	--	--	--	6.6	20	< 0.5	--
MW-202	04/27/10	--	--	--	--	3.3	6.4	0.12	--
MW-202	10/27/10	0.0081	0.0031	0.066	0.0022	6	5.4	< 0.1	--
MW-202	05/23/11	--	--	--	--	3.5	1.84	< 0.097	--
MW-202	10/26/11	--	--	--	--	4.3	1.02	< 0.21	--
MW-202	03/02/12	0.0053	0.0019	0.0107	0.0013 J	3.87	--	--	--
MW-202	06/13/12	--	--	--	--	3.31	1.54	< 0.10	--
MW-202	09/26/12	0.0058	0.0029 J	0.0378	< 0.0018	4.07	--	--	--
MW-202	11/27/12	0.0113	0.0034	0.0274	0.0022	6.07	2.67	< 0.30	--
MW-202	05/15/13	--	--	--	--	3.83	1.62	< 0.096	--
MW-202	11/06/13	< 0.00020	0.0027	0.0335	0.0012 J	4.68	1.29	< 0.095	--
MW-202	04/22/14	--	--	--	--	3.22	2.18	< 0.28	--
MW-202	11/06/14	0.0083	0.0026	0.0154	0.0011	5.1	2.45	0.282 J	--
MW-202	05/19/15	--	--	--	--	2.96	0.842	< 0.096	--
MW-202	12/10/15	0.00419	0.00124	0.00277	< 0.0030	5.67	27.2	0.565	--
MW-202	05/03/16	--	--	--	--	2.89	2.29	0.111 J	--
MW-202	12/13/16	0.00606	0.0028	0.00901	0.00110 J	2.92	4.04	0.201	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-202	06/14/17	--	--	--	--	2.58	3.68	0.134 J	--
MW-202	12/06/17	0.00102	< 0.000312	0.00144	0.00129 J	3.02	25.8	0.402 J	--
MW-202	06/14/18	--	--	--	--	1.49	4.1	0.166 J	--
MW-202	12/19/18	0.00178	0.000839 J	0.00444	0.00187 J	4.74	48.3	1.69	--
MW-202	05/16/19	--	--	--	--	3.04	11.8	0.718	--
MW-202	12/10/19	0.00179	0.00159	0.0128	0.00202 J	4.29	24	0.534	--
MW-202	06/29/20	--	--	--	--	1.78	13.1	0.412	--
MW-202	12/16/20	0.00132 J	0.000409 J-	0.00236 J	<0.0005 J	3.47	36.60	0.641	--
MW-202	06/14/21	--	--	--	--	1.32	4.52	0.327 J	--
MW-202	12/16/21	0.00275	0.000751 J	0.00121	0.00169 J	3.71	17.0	0.706	--
MW-203	01/13/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-203	04/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.26	< 0.5	--
MW-203	07/27/04	0.013	< 0.001	0.0069	< 0.001	2.6	0.45	< 0.5	--
MW-203	10/19/04	0.013	< 0.001	0.015	0.0025	1.6	< 0.25	< 0.5	--
MW-203	10/19/04	0.017	< 0.001	0.012	0.0018	1.4	< 0.25	< 0.5	--
MW-203	01/25/05	0.0063	< 0.001	0.011	0.0013	1.6	0.52	0.68	--
MW-203	04/19/05	0.0068	< 0.001	0.0018	< 0.001	0.63	< 0.25	0.55	--
MW-203	07/13/05	0.01	< 0.001	0.0077	< 0.001	0.89	< 0.25	< 0.5	--
MW-203	10/20/05	0.023	0.002	0.021	0.0026	4.2	2.1	1.1	--
MW-203	01/23/06	0.00186	< 0.0005	0.00182	0.00125	0.76	0.565	< 0.943	--
MW-203	04/26/16	0.00694	0.00076	0.00079	<0.003	1.38	0.66	0.625	--
MW-203	10/13/16	0.023	0.00553	0.00448	0.00652	6.22	7.39	1.34	--
MW-203	04/27/17	0.00502	<0.0005	0.00053	<0.003	1.24	0.507	0.515	--
MW-203	05/20/08	--	--	--	--	0.6	0.32	< 0.5	--
MW-203	11/18/08	--	--	--	--	0.17	< 0.25	< 0.5	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-203	04/08/09	--	--	--	--	< 0.1	0.12	0.11	--
MW-203	11/17/09	--	--	--	--	< 0.1	< 0.1	< 0.1	--
MW-203	04/26/10	--	--	--	--	0.16	0.18	< 0.1	--
MW-203	10/25/10	--	--	--	--	0.92	0.36	< 0.1	--
MW-203	05/23/11	--	--	--	--	0.333	0.0854	0.314	--
MW-203	10/26/11	--	--	--	--	1.38	0.262	0.118	--
MW-203	06/13/12	--	--	--	--	0.459	0.134	0.332	--
MW-203	11/27/12	--	--	--	--	1.05	0.0943 J	< 0.10	--
MW-203	05/15/13	--	--	--	--	0.144 J	< 0.048	< 0.096	--
MW-203	11/06/13	--	--	--	--	0.68	< 0.047	< 0.094	--
MW-203	04/22/14	--	--	--	--	0.164	0.210 J	0.732 J	--
MW-203	11/06/14	--	--	--	--	0.102	0.0933 J	0.168 J	--
MW-203	05/19/15	--	--	--	--	0.285	0.166	0.170 J	--
MW-203	12/09/15	--	--	--	--	< 0.100	0.319	< 0.394	--
MW-203	05/04/16	--	--	--	--	0.575	0.161	0.133 J	--
MW-203	5/5/2016 DUF	--	--	--	--	0.534	0.151	0.134 J	--
MW-203	12/13/16	--	--	--	--	0.203	0.234	0.125 J	--
MW-203	06/14/17	--	--	--	--	0.0898 J	0.212 J	0.172 J	--
MW-203	12/08/17	--	--	--	--	1.56	0.323	< 0.122	--
MW-203	06/14/18	--	--	--	--	0.156	0.152 J	0.167 J	--
MW-203	12/20/18	--	--	--	--	0.107 J	0.806	0.944	--
MW-203	05/16/19	--	--	--	--	0.471	0.185 J	0.159 J	--
MW-203	12/10/19	--	--	--	--	1.74	0.495	0.189 J	--
MW-203	06/29/20	--	--	--	--	0.256	0.209 J	0.181 J	--
MW-203	12/15/20	--	--	--	--	0.282	<0.229	0.930	--
MW-203	06/15/21	--	--	--	--	<0.150	<0.246	0.267 J	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-203	12/16/21	--	--	--	--	0.129 J	0.138 J	0.273 J	--
MW-204	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.6	< 0.5	--
MW-204	01/26/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	6.2	< 1	--
MW-204	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.5	0.79	--
MW-204	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.076	1.1	0.59	--
MW-204	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	0.082	0.45	< 0.5	--
MW-204	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	5.53	< 0.952	--
MW-204	04/25/06	< 0.0005	< 0.0005	< 0.0005	< 0.003	0.0755	2.51	1.11	--
MW-204	10/12/06	< 0.0005	< 0.0005	< 0.0005	< 0.003	0.0634	0.896	0.519	--
MW-204	04/26/07	< 0.0005	< 0.0005	< 0.0005	< 0.003	0.0855	1.81	0.749	--
MW-204	10/30/07	--	--	--	--	< 0.05	--	--	--
MW-204	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	0.13	1	< 0.5	--
MW-204	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	3.5	0.16	--
MW-204	10/27/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.29	< 0.1	--
MW-204	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.066	0.599	< 0.20	--
MW-204	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.975	< 0.10	--
MW-204	11/06/13	0.00057 J	< 0.00020	< 0.00020	< 0.00046	0.0762 J	0.28	0.0976 J	--
MW-204	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.505	0.321	--
MW-204	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.579	< 0.388	--
MW-204	12/13/16	0.000187 J	< 0.000312	0.000555 J	< 0.000442	< 0.0178	0.507	0.215	--
MW-204	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.786	0.232 J	--
MW-204	12/19/18	0.000204 J	< 0.000312	< 0.000198	< 0.000442	0.138 J	0.599	0.729	--
MW-204	12/10/19	0.00105	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.238 J	0.128 J	--
MW-204	12/16/20	0.0003 J	0.000245 J-	< 0.00020 J	< 0.0005 J	< 0.250	0.303	0.405	--
MW-204	12/16/21	0.000342 J	< 0.00100	< 0.00100	< 0.00300	< 0.150	0.379	0.413	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-206A	01/22/04	< 0.001	< 0.001	< 0.001	0.004	< 0.25	< 0.25	< 0.5	--
MW-206A	04/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-206A	07/27/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	1.8	0.78	--
MW-206A	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2	1.1	--
MW-206A	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.1	2.2	--
MW-206A	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.3	1.5	--
MW-206A	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.2	1.9	--
MW-206A	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	2.1	7.9	--
MW-206A	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	4.41	2.54	--
MW-206A	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	2.1	1.7	--
MW-206A	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.1	< 0.1	--
MW-206A	10/25/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	0.18	--
MW-206A	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.141	< 0.20	--
MW-206A	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.116	0.111 J	--
MW-206A	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.047	< 0.094	--
MW-206A	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.236	0.392	--
MW-206A	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.242	< 0.403	--
MW-206A	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.18	0.135 J	--
MW-206A	12/08/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.258	0.239 J	--
MW-206A	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	2.25	3.96	--
MW-206A	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.591	0.396	--
MW-206A	12/16/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.236	<0.394	--
MW-206A	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.150 J	0.215 J	--
MW-213	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	04/20/04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-213	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-213	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-213	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.34	< 0.5	--
MW-213	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	0.653	< 0.495	--
MW-213	10/30/07	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--	--
MW-213	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-213	04/07/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	04/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	05/24/11	< 0.0003	< 0.0005	< 0.0003	< 0.0007	< 0.050	< 0.049	< 0.098	--
MW-213	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	< 0.11	< 0.21	--
MW-213	06/12/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-213	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-213	05/15/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.096	--
MW-213	11/05/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0625 J	< 0.095	--
MW-213	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0586	< 0.094	--
MW-213	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0782 J	< 0.094	--
MW-213	05/19/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.102	< 0.10	--
MW-213	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.235	< 0.392	--
MW-213	05/03/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.100	0.0415 J	< 0.0593	--
MW-213	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.100	0.115 J	< 0.0622	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.128 J	< 0.123	--
MW-213	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.158 J	< 0.121	--
MW-213	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.111	< 0.121	--
MW-213	12/19/18	< 0.0000930	0.000320 J	< 0.000198	< 0.000442	0.0717 J	0.434	0.411	--
MW-213	05/16/19	< 0.000200	0.000349 J	< 0.000190	< 0.000580	0.0912	0.153 J	< 0.123	--
MW-213	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.147 J	< 0.117	--
MW-213	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-213	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.233	<0.388	--
MW-213	06/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.235	<0.392	--
MW-213	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.158 J	0.199 J	--
MW-214	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-214	04/20/04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-214	07/28/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	< 0.25	< 0.5	--
MW-214	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-214	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.36	< 0.5	--
MW-214	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.3	< 0.5	--
MW-214	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.29	< 0.5	--
MW-214	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.33	< 0.5	--
MW-214	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	0.91	< 0.476	--
MW-214	10/30/07	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--	--
MW-214	05/05/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	0.91	< 0.5	--
MW-214	07/10/08	--	--	--	--	--	< 0.5	< 1	--
MW-214	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	0.8	< 0.5	--
MW-214	04/07/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	--
MW-214	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.11	< 0.1	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	04/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.19	< 0.1	--
MW-214	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-214	05/24/11	<0.0003	<0.0005	<0.0003	<0.0007	<0.050	0.127	<0.097	--
MW-214	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.126	< 0.21	--
MW-214	06/12/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	0.135 J	--
MW-214	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
MW-214	05/15/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0857 J	< 0.096	--
MW-214	11/05/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0552 J	< 0.094	--
MW-214	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.118	< 0.094	--
MW-214	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.168	0.103	--
MW-214	05/19/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.106	< 0.094	--
MW-214	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.248	< 0.392	--
MW-214	05/03/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.100	0.123	< 0.0594	--
MW-214	12/14/16	< 0.0000930	< 0.000312	0.000275 J	< 0.000442	0.0226 J	0.13	< 0.0600	--
MW-214	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.214 J	< 0.121	--
MW-214	12/07/17	< 0.0000930 J	< 0.000312 J	< 0.000198 J	< 0.000442 J	< 0.0704 J	0.305	< 0.128	--
MW-214	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.170 J	< 0.120	--
MW-214	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.547	0.415	--
MW-214	05/16/19	< 0.000200	0.000303 J	< 0.000190	< 0.000580	< 0.0550	0.213 J	< 0.122	--
MW-214	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.239 J	< 0.121	--
MW-214	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-214	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.218	<0.363	--
MW-214	06/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.122 J	<0.395	--
MW-214	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.172 J	0.129 J	--
MW-301	03/02/12	0.24	0.0138	0.0099	0.0212	3.37	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-301	09/25/12	0.333	0.0131	0.0186	0.0192	4.02	--	--	--
MW-301	11/28/12	0.241	0.0099	0.0125	0.0106	2.76	--	--	--
MW-301	02/21/13	0.659	0.0175	0.0264	0.0173 J	3.98	0.315	< 0.10	--
MW-301	05/15/13	0.357	0.0122	0.0231	0.0145	3.63	--	--	--
MW-301	11/04/13	0.16	0.0097	0.0164	0.0109	2.29	--	--	--
MW-301	04/23/14	0.252	0.0072	0.0135	0.0075	3.57	--	--	--
MW-301	07/24/14	0.314	0.008	0.0143	0.0096	3.7	0.361	< 0.094	--
MW-301	11/03/14	0.108	0.0043 J	0.0046 J	0.0051 J	1.76	--	--	--
MW-301	03/09/15	0.222	0.0067	0.0065	0.0062 J	2.27	--	--	--
MW-301	05/21/15	0.194	0.0069	0.01	0.0060 J	2.24	--	--	--
MW-301	07/28/15	0.116	0.0036	0.0037	0.0019 J	2.09	--	--	--
MW-301	12/10/15	0.0437	0.00351	0.00104	0.00551	1.34	--	--	--
MW-301	02/22/16	0.28	0.00881	0.0104	0.00746	3.65	--	--	--
MW-301	05/02/16	0.17	0.00834	0.0138	0.00663	3.32	--	--	--
MW-301	08/29/16	0.0647	0.00551	0.0103	0.0064	2.9	--	--	--
MW-301	12/12/16	0.251	0.00745	0.0173	0.00633	3	--	--	--
MW-301	03/13/17	0.206	0.00771	0.0117	0.00585	3.02	--	--	--
MW-301	06/13/17	0.111	0.00659 J	0.0128	0.00713 J	2.5	--	--	--
MW-301	08/22/17	0.0652	0.00472	0.0108	0.00366	1.93	--	--	--
MW-301	12/05/17	0.0222	0.00228	0.00217	0.00272 J	1.67	--	--	--
MW-301	03/06/18	0.207	0.00303	0.00542	0.00248 J	1.32	--	--	--
MW-301	06/13/18	0.0132	0.00108	0.00239	0.000821 J	1.27	--	--	--
MW-301	09/06/18	0.00368	0.000585 J	0.000352 J	0.000489 J	1.45	--	--	--
MW-301	12/20/18	0.0175	0.000688 J	0.00259	0.000536 J	0.445	--	--	--
MW-301	03/19/19	0.0999	0.00182	0.00923	0.00182 J	1.34	--	--	--
MW-301	05/16/19	0.00684	< 0.000170	0.000357 J	< 0.000580	0.483	--	--	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-301	09/19/19	0.000937 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-301	12/11/19	0.000093	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-301	04/28/20	0.0399	0.00115	0.00676	0.000676 J	0.368	--	--	--
MW-301	06/29/20	0.0163	< 0.000312	0.00205	< 0.000442	0.114 J	--	--	--
MW-301	09/21/20	0.00732	< 0.001	0.00127	0.000442 J	0.167	--	--	--
MW-301	12/15/20	0.0416	0.00146	0.0109	0.00117	0.441	--	--	--
MW-301	04/13/21	0.0238	0.00105	0.00767	0.000879	1.69	--	--	--
MW-301	06/15/21	0.0168	0.00103	0.00822	0.00101 J	0.439	--	--	--
MW-301	09/22/21	0.00333	< 0.00100	0.00200	0.000535 J	0.226	--	--	--
MW-301	12/16/21	0.0185	0.000723 J	0.00439	0.000768 J	0.471	--	--	--
MW-302	03/01/12	0.831	0.0275	0.213	0.248	5.33	--	--	--
MW-302	06/12/12	0.574	0.0156	0.0183	0.0244	4.18	--	--	--
MW-302	06/28/12	1.23	0.0437	0.403	0.289	5.65	--	--	--
MW-302	09/25/12	0.657	0.0247	0.18	0.106	4.07	--	--	--
MW-302	11/25/12	0.449	0.0152	0.191	0.177	4.58	--	--	--
MW-302	02/22/13	0.393	0.0149	0.124	0.116	4.15	0.435	< 0.10	--
MW-302	05/14/13	0.873	0.0231	0.236	0.145	4.19	--	--	--
MW-302	09/05/13	0.783	0.0189	0.162	0.0746	3.7	--	--	--
MW-302	11/05/13	0.607	0.0112	0.0977	0.0529	2.69	--	--	--
MW-302	01/16/14	0.404	0.0161	0.0843	0.0504	3.54	--	--	--
MW-302	04/23/14	0.98	0.0269	0.276	0.232	5.86	--	--	--
MW-302	07/24/14	0.656	0.0206	0.178	0.131	4.66	0.363	< 0.094	--
MW-302	11/03/14	0.506	0.0159	0.221	0.176	4.06	0.361	< 0.094	--
MW-302	05/21/15	0.454	0.0161	0.174	0.15	3.44	--	--	< 0.010
MW-302	12/10/15	0.372	0.00853	0.0139	0.0176	2.16	1	< 0.391	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-302	05/04/16	0.595	0.0145	0.27	0.153	3.75	--	--	--
MW-302	12/15/16	0.759	0.0263	0.453	0.117	5.08	1.73	< 0.0630	--
MW-302	06/13/17	0.487	0.0146 J	0.215	0.0524 J	1.98	--	--	--
MW-302	08/23/17	0.047	0.00305	0.00823	0.00647	0.709	--	--	--
MW-302	12/05/17	0.0414	0.00196	0.00271	0.003	1.79	9.96	0.209 J	--
MW-302	03/07/18	0.0707	0.00314	0.043	0.00763	1.61	--	--	--
MW-302	06/13/18	0.0591	0.00363	0.0481	0.0227	1	--	--	--
MW-302	09/06/18	0.0312	0.00138	0.0242	0.00479	0.526	--	--	--
MW-302	12/20/18	0.00121	< 0.000312	0.00431	0.000625 J	0.232	2.5	0.386	--
MW-302	03/19/19	0.0133	0.000823 J	0.0122	0.00433	1.84 J	--	--	--
MW-302	05/16/19	0.0035	0.000363 J	0.00678	0.00177 J	0.578	--	--	--
MW-302	09/19/19	0.0174	0.00115	0.0217	0.00428	0.662	--	--	--
MW-302	12/11/19	0.0132	0.000741 J	0.00976	0.00222 J	0.297	3.69	0.179 J	--
MW-302	04/28/20	0.027	0.00181	0.0397	0.00698	1.23	--	--	--
MW-302	06/30/20	0.0219	0.00152	0.0368	0.00590 J	1.23	--	--	--
MW-302	09/21/20	0.00148	<0.001	0.00888	0.00108 J	0.205	--	--	--
MW-302	12/15/20	0.0404 J	0.00282 J-	0.0684 J	0.0117 J-	1.84	10.80	0.529	--
MW-302	04/13/21	0.00616 J-	0.000526 J	0.0178 J-	0.00419 J-	1.85	--	--	--
MW-302	06/15/21	0.0203	0.00193	0.0614	0.0101	0.886	--	--	--
MW-302	09/23/21	0.0184	0.00373	0.0585	0.00883	0.637	--	--	--
MW-302	12/16/21	0.00644	0.000755 J	0.0211	0.00374	1.19	6.39	0.622	--
MW-303	03/02/12	3.13	0.0759	0.76	0.232	12.3	--	--	--
MW-303	06/13/12	2.9	0.0957	0.884	0.268	12.5	--	--	--
MW-303	09/25/12	1.83	0.0635	0.474	0.146	9.14	--	--	--
MW-303	11/28/12	1.94	0.0873	1.18	0.319	12.6	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-303	02/21/13	2.34	0.0955	1.29	0.338	12.8	0.674	< 0.10	--
MW-303	05/15/13	1.9	0.0864	0.983	0.272	10.6	--	--	--
MW-303	11/04/13	0.884	0.0278	0.219	0.0544	6.11	--	--	--
MW-303	04/23/14	1.58	0.071	1.114	0.224	11.8	--	--	--
MW-303	07/24/14	0.808	0.0471	0.653	0.161	9.76	0.622	< 0.094	--
MW-303	11/04/14	1.42	0.0618	0.924	0.18	11.5	1	1.15	--
MW-303	05/20/15	0.669	0.0432	0.713	0.157	7.9	--	--	--
MW-303	12/08/15	1.19	0.071	1.33	< 0.300	7.6	2.45	< 0.398	--
MW-303	05/04/16	0.704	0.0625	1.82	0.287	8.6	--	--	--
MW-303	12/12/16	0.831	0.0482	1.45	0.176	8.31	2.52	< 0.0602	--
MW-303	06/13/17	0.353	0.0408	1.54	0.19	5.69	--	--	--
MW-303	12/05/17	0.104	0.0116 J	0.3	0.0400 J	4.29	7.49	< 0.125	--
MW-303	03/06/18	0.039	0.0154	0.147 J	0.0352	2.5	--	--	--
MW-303	06/13/18	0.157	0.0151 J	0.39	0.0317 J	2.94 J	--	--	--
MW-303	09/06/18	0.000729	< 0.000312	0.00117	< 0.000442	< 0.0704	--	--	--
MW-303	12/20/18	0.000581	0.000342 J	0.00136	0.00088 J	0.382	8.25	0.505	--
MW-303	03/19/19	0.0346	0.00611	0.194	0.0111	2.48	--	--	--
MW-303	05/16/19	0.0173	0.0017	0.0869	0.00541	1.33	--	--	--
MW-303	09/19/19	0.00776	0.00207	0.0717	0.00326	0.785	--	--	--
MW-303	12/11/19	0.00114	0.000373 J	0.0404	0.00134 J	0.371	2.73	0.281 J	--
MW-303	04/28/20	0.00258	< 0.000312	0.00511	0.00705	2.46	--	--	--
MW-303	06/30/20	0.0152	0.000897 J	0.0386	0.00696	2.64	--	--	--
MW-303	09/22/20	0.02	0.00254	0.153	0.00623	1.86	--	--	--
MW-303	12/15/20	0.0150 J-	0.00412 J-	0.119 J-	0.0146 J-	3.34	5.28	<0.389	--
MW-303	04/13/21	0.0135 J-	0.00170 J-	0.0371 J-	0.0104 J-	4.07	--	--	--
MW-303	06/15/21	0.0258	0.00343	0.133	0.00867	1.94	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-303	09/22/21	0.252	0.00724	0.344	0.0194	2.29	--	--	--
MW-303	12/15/21	0.0248	0.000620 J	0.0142	0.00435	2.39	6.51	0.385 J	--
MW-304	03/01/12	0.686	0.0351	0.214	0.264	5.64	--	--	--
MW-304	06/12/12	1.04	0.0408	0.27	0.218	5.98	--	--	--
MW-304	09/25/12	0.63	0.024	0.198	0.105	3.93	--	--	--
MW-304	11/28/12	0.411	0.0244	0.306	0.252	5.89	--	--	--
MW-304	02/22/13	0.507	0.0225	0.208	0.149	5.56	0.762	0.186 J	--
MW-304	05/14/13	0.645	0.0283	0.209	0.144	4.73	--	--	--
MW-304	09/05/13	0.862	0.0188	0.0849	0.0616	3.09	--	--	--
MW-304	11/05/13	0.695	0.0163	0.0629	0.054	2.67	--	--	--
MW-304	01/16/14	0.79	0.0194	0.0472	0.0571	4.89	--	--	--
MW-304	04/23/14	0.778	0.0248	0.185	0.147	5.93	--	--	--
MW-304	07/24/14	0.437	0.0173	0.109	0.0666	3.59	0.557	< 0.094	--
MW-304	11/03/14	1.11	0.0421	0.48	0.214	3.32	0.366	< 0.094	--
MW-304	05/20/15	0.486	0.0136	0.115	0.0373	3.3	--	--	< 0.010
MW-304	12/10/15	0.775	0.0312	0.336	0.114	4.37	1.55	< 0.387	--
MW-304	05/04/16	0.527	0.0187	0.355	0.0559	4.05	--	--	--
MW-304	12/15/16	0.749	0.0271	0.586	0.0664	5.75	1.78	0.0686 J	--
MW-304	06/13/17	0.209	0.0113	0.413	0.0246 J	2.2	--	--	--
MW-304	08/23/17	0.021	0.00437	0.0124	0.00494	0.566	--	--	--
MW-304	12/05/17	0.000217 J	< 0.000312	< 0.000494 J	0.00118 J	0.291	3.2	< 0.122	--
MW-304	03/06/18	0.000493	< 0.000312	0.000337 J	< 0.000442	0.562	--	--	--
MW-304	06/13/18	0.00107	< 0.000312	0.00561	0.00104 J	0.425	--	--	--
MW-304	09/06/18	0.000535	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-304	12/20/18	< 0.000093	< 0.000312	< 0.000198	< 0.000442	< 0.0704	1.5	0.219 J	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-304	03/19/19	0.000448	< 0.000312	0.000514 J	< 0.000442	0.105 J	--	--	--
MW-304	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	< 0.055	--	--	--
MW-304	09/19/19	0.000242 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-304	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.188 J	0.120 U	--
MW-304	04/28/20	0.00171	< 0.000312	0.000281 J	< 0.000442	0.113 J	--	--	--
MW-304	06/30/20	0.0399	0.000627 J	0.000544 J	< 0.000442	0.131 J	--	--	--
MW-304	09/21/20	0.0623	0.000391 J	0.00109	0.000491 J	0.191	--	--	--
MW-304	12/15/20	0.0363	0.000932	0.00188	0.000883	0.26	4.22	<0.393	--
MW-304	04/13/21	0.00194	<0.000200	0.00107 J+	<0.000500	0.307	--	--	--
MW-304	06/15/21	0.0263	<0.00100	0.000697 J	<0.00300	0.230	--	--	--
MW-304	09/22/21	0.0389	<0.00100	0.000696 J	<0.00300	0.225	--	--	--
MW-304	12/16/21	0.00339	<0.00100	0.00132	0.000646 J	0.406	1.86	0.292 J	--
MW-305	03/01/12	1.14	0.0227	0.0389	0.0375 J	5.84	--	--	--
MW-305	06/11/12	1.34	0.0221	0.0517	0.0331 J	5.97	--	--	--
MW-305	09/26/12	1.27	0.0229	0.0388	0.0355 J	5.89	--	--	--
MW-305	11/28/12	0.286	0.0061	0.0032 J	0.014	1.53	--	--	--
MW-305	05/15/13	0.397	0.0263	0.29	0.0867	6.28	--	--	--
MW-305	11/07/13	0.0844	0.025	0.216	0.0919	3.59	--	--	--
MW-305	04/23/14	0.0884	0.0139	0.0941	0.0454	2.82	--	--	--
MW-305	11/06/14	0.0419	0.0052	0.002	0.0306	1.16	--	--	--
MW-305	05/21/15	0.12	0.0101	0.191	0.108	2.81	--	--	--
MW-306	03/01/12	0.606	0.015	0.0353	0.718	4.74	--	--	--
MW-306	06/11/12	0.393	0.0115	0.0509	0.763	5.09	--	--	--
MW-306	09/26/12	1.05	0.0261	0.135	0.147	6.56	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-306	11/28/12	0.393	0.0125	0.0183	0.0895	3.06	--	--	--
MW-306	05/15/13	0.746	0.0472	0.837	3.7	18.5	--	--	--
MW-306	11/07/13	0.101	0.0502	0.482	2.65	12.8	--	--	--
MW-306	04/23/14	0.0762	0.0345	0.325	1.97	11	--	--	--
MW-306	11/06/14	0.119	0.0226	0.302 J	0.939 J	5.59	--	--	--
MW-306	05/21/15	0.106	0.0354 J	0.874	5.15	20.6	--	--	--
MW-307	11/26/12	2.15	0.0858	0.833	0.513	10.9	--	--	--
MW-307	02/22/13	0.497	0.0358	0.226	0.145	6.02	0.604	< 0.094	--
MW-307	05/15/13	0.437	0.0461	0.167	0.12	4.56	--	--	--
MW-307	09/05/13	0.643	0.0645	0.154	0.131	5.3	--	--	--
MW-307	11/06/13	0.568	0.0448 J	0.104	0.0912	4.39	--	--	--
MW-307	04/22/14	0.52	0.0408	0.241	0.152	5.68	--	--	--
MW-307	11/04/14	0.596	0.039	0.176	0.095	5.16	0.632	< 0.095	--
MW-307	03/09/15	0.444	0.0358	0.271	0.104	5.41	--	--	--
MW-307	05/19/15	0.306	0.0273	0.14	0.0673	3.44	0.479	< 0.096	--
MW-307	07/29/15	0.298	0.0245	0.109	0.0434	4.09	--	--	--
MW-307	12/09/15	0.699	0.0585	0.334	0.131	5.03	1.63	< 0.392	--
MW-307	02/23/16	0.498	0.0417	0.578	0.110 J	4.98	--	--	--
MW-307	05/03/16	0.469	0.0338	0.456	0.0981	5.04	1.55	< 0.0597	--
MW-307	08/30/16	0.261	0.0299	0.222	0.195	5.13	--	--	--
MW-307	12/13/16	0.275	0.0255	0.302	0.102	4.02	1.34	0.0812 J	--
MW-307	03/14/17	0.418	0.0311	0.54	0.136	6.33	--	--	--
MW-307	06/15/17	0.166	0.0242	0.283	0.194 J	4.18	1.32	< 0.121	--
MW-307	08/23/17	0.102 J	0.0162	0.095	0.0912	3.22	1.33	< 0.126	--
MW-307	12/06/17	0.0501	0.00663	0.0479	0.0134	0.977	1.04	< 0.128	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-307	03/08/18	0.15	0.0158	0.134	0.0255	2.09	--	--	--
MW-307	06/14/18	0.243	0.0256	0.315	0.0329	2.71	1.45	< 0.120	--
MW-307	09/05/18	0.0507	0.00339	0.016	0.00343	1.45	--	--	--
MW-307	12/19/18	0.027	0.000413 J	0.0119	0.00153 J	1.17	1.79	0.396 J	--
MW-307	03/18/19	0.0587	0.00269	0.05	0.00393	0.965	--	--	--
MW-307	05/16/19	0.0324	0.00693	0.026	0.0113	2.47	2.74	0.265 J	--
MW-307	09/19/19	0.0126	< 0.000312	0.00135	< 0.000442	0.444	--	--	--
MW-307	12/10/19	0.00497	< 0.000312	0.000291 J	< 0.000442	0.28	0.66	< 0.118	--
MW-307	04/27/20	0.0974	0.00608	0.159	0.0267	1.45	--	--	--
MW-307	06/29/20	0.0946	0.00479	0.0909	0.0164	1.18	7.11	0.273 J	--
MW-307	09/21/20	0.21	0.0102	0.156	0.0516	2.01	--	--	--
MW-307	12/16/20	0.106 J-	0.0072 J-	0.0622 J	0.0336 J-	1.52	7.75	<0.379	--
MW-307	04/12/21	0.133 J	0.0228 J-	0.0930 J	0.0950 J	4.06 J+	--	--	--
MW-307	06/14/21	0.230	0.0180	0.282	0.0885	2.02	6.68	0.422	--
MW-307	09/22/21	0.135	0.0145	0.109	0.0717	1.83	--	--	--
MW-307	12/14/21	0.0426	0.00493	0.0921	0.0402	2.39	4.92	0.492	--
MW-308	11/26/12	0.144	0.0010 J	0.0072	0.0013 J	0.778	--	--	--
MW-308	02/22/13	0.668	0.0078 J	0.0443	0.0059 J	3.48	0.354	< 0.10	--
MW-308	05/15/13	0.392	0.0052 J	0.0427	< 0.0046	2.54	--	--	--
MW-308	11/06/13	0.237	0.0033 J	0.0056	0.0026 J	1.65	--	--	--
MW-308	04/22/14	0.0165	< 0.00020	0.00036 J	< 0.00046	0.146	--	--	--
MW-308	11/04/14	0.132	0.0012	0.0044	0.00058	0.782	< 0.048	< 0.095	--
MW-308	03/09/15	0.121 J	0.002	0.00064 J	0.0013 J	1.1	--	--	--
MW-308	05/19/15	0.213	0.0013 J	< 0.00050	< 0.0012	0.973	--	--	--
MW-308	07/29/15	0.242	0.0017 J	0.0014 J	< 0.0012	1.77	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-308	12/09/15	0.146	0.00361	0.0284	0.00527	1.19	--	--	--
MW-308	02/23/16	0.00711	< 0.000038	0.000101 J	< 0.0000160	0.0619	--	--	--
MW-308	05/03/16	0.281	0.000903 J	0.00376	0.000680 J	1.41	--	--	--
MW-308	08/30/16	0.196	< 0.00312	< 0.00198	< 0.00162	1.48	--	--	--
MW-308	12/13/16	0.0309	< 0.000312	0.000529 J	< 0.000442	0.207	--	--	--
MW-308	03/14/17	0.000861	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	06/15/17	0.383	0.00147	0.00107	0.000477 J	1.28	--	--	--
MW-308	08/23/17	0.234	< 0.00312	< 0.00198	< 0.00442	0.812 J	--	--	--
MW-308	12/06/17	0.085	< 0.000312	0.000717 J	< 0.000442	0.245	--	--	--
MW-308	03/08/18	0.252	0.000314 J	< 0.000198	< 0.000442	0.55	--	--	--
MW-308	06/14/18	0.238	0.000765 J	0.00226	< 0.000442	0.487	--	--	--
MW-308	09/05/18	0.00741	< 0.000312	< 0.000198	< 0.000442	0.118 J	--	--	--
MW-308	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	03/18/19	0.000815	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	05/16/19	0.00703	< 0.000170	< 0.000190	< 0.000580	0.397	--	--	--
MW-308	09/19/19	0.0096	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	12/09/19	0.000322 J	< 0.000312	< 0.000198	< 0.000442	0.118 J	--	--	--
MW-308	04/27/20	0.00314	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	06/29/20	0.00406	< 0.000312	0.000292 J	< 0.000442	0.140 J	--	--	--
MW-308	09/21/20	0.0175	0.00145	<0.001	<0.003	0.185	--	--	--
MW-308	12/16/20	0.0730 J	0.0954 J	0.026 J	0.0417 J	0.30	--	--	--
MW-308	04/12/21	0.0365 J+	0.000521 J+	0.000515 J+	<0.000500	0.267	--	--	--
MW-308	06/14/21	0.0572	0.00139	0.000975 J	0.00155 J	0.793	--	--	--
MW-308	09/22/21	0.129	0.00408	0.000975 J	0.00257 J	1.25	--	--	--
MW-308	12/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-309	11/28/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	02/21/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0790 J	< 0.10	--
MW-309	05/16/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	07/24/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.102	< 0.094	--
MW-309	11/03/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
MW-309	05/20/15	< 0.00020	< 0.00020	0.00027 J	< 0.00046	0.0542 J	--	--	--
MW-309	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.241	< 0.402	--
MW-309	05/04/16	< 0.0000930	< 0.000312	0.000337 J	< 0.000162	< 0.100	--	--	--
MW-309	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.0834 J	< 0.0595	--
MW-309	06/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-309	12/05/17	0.000184 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.0877 J	< 0.128	--
MW-309	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-309	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.220 J	< 0.118	--
MW-309	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.3	--	--	--
MW-309	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0804 J	0.614	<0.120	--
MW-309	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.123 J	--	--	--
MW-309	12/15/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.292	<0.390	--
MW-309	06/15/21	<0.000400	<0.00100	<0.00100	<0.00300	0.150	--	--	--
MW-309	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	0.113 J	0.273	0.140 J	--
MW-310	11/28/12	0.86	0.0265	0.211	0.147	5.74	--	--	--
MW-310	02/21/13	1.8	0.0768	0.506	0.18	8.37	0.603	< 0.10	--
MW-310	05/14/13	0.993	0.0703	0.654	0.175	6.49	--	--	--
MW-310	09/05/13	0.96	0.0598	0.31	0.11	5.51	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-310	11/05/13	0.772	0.0409	0.226	0.0846	4.92	--	--	--
MW-310	01/16/14	0.821	0.0414	0.189	0.0775	5.94	--	--	< 0.001 ¹
MW-310	04/23/14	0.796	0.0432	0.187	0.0607	5.88	--	--	--
MW-310	07/24/14	0.92	0.0489	0.368	0.0647	6.36	0.605	< 0.094	--
MW-310	11/04/14	0.739	0.0387	0.132	0.0538	5.15	0.613	< 0.094	--
MW-310	03/09/15	0.736	0.0475	0.189	0.0606	4.71	--	--	--
MW-310	05/21/15	0.641	0.0464	0.169	0.0572	4.39	--	--	< 0.010
MW-310	07/28/15	0.714	0.0428	0.181	0.0488	3.72	--	--	--
MW-310	12/10/15	0.405	0.0396	0.0771	0.0564	3.89	2.75	< 0.390	--
MW-310	02/23/16	0.755	0.0436	0.303	0.0615	4.86	--	--	--
MW-310	05/02/16	0.655	0.0349	0.324	0.0721	4.82	--	--	--
MW-310	08/29/16	0.734	0.0608	0.209	0.0885	5.38	--	--	--
MW-310	12/15/16	0.673	0.0504	0.289	0.0747	5.92	1.72	< 0.0624	--
MW-310	03/13/17	0.809	0.0541	0.387	0.0848	5.58	--	--	--
MW-310	06/15/17	0.984	0.0504	0.318	0.0635	4.29	--	--	--
MW-310	08/22/17	0.0562	0.0135	0.0416	0.0297	2.17	--	--	--
MW-310	12/05/17	0.00444	0.000430 J	0.0122	0.0172	0.459	1.66	< 0.122	--
MW-310	03/06/18	0.0293	< 0.000312	0.00108	0.00167 J	0.724	--	--	--
MW-310	06/13/18	0.0448	0.00103	0.0098	0.00308	0.748	--	--	--
MW-310	09/06/18	0.0182	0.000905 J	< 0.000198	0.000637 J	0.284	--	--	--
MW-310	12/20/18	0.00126	< 0.000312	< 0.000198	< 0.000442	0.0782 J	0.652	0.126 J	--
MW-310	03/19/19	0.00127	< 0.000312	0.000226 J	< 0.000442	0.297	--	--	--
MW-310	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.24	--	--	--
MW-310	09/19/19	0.000104 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-310	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0739 J	0.453	< 0.120	--
MW-310	04/28/20	0.00595	< 0.000312	0.000357 J	< 0.000442	0.579	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-310	06/30/20	0.00523	< 0.000312	0.000481 J	< 0.000442	0.669 J	--	--	--
MW-310	09/21/20	0.00903	<0.001	0.000681 J	<0.003	0.427	--	--	--
MW-310	12/15/20	0.00622	<0.0002	0.00156	<0.0005	0.726	8.62	0.508	--
MW-310	04/12/21	0.0221 J-	0.000414 J	0.00269 J-	0.000570 J-	1.61	--	--	--
MW-310	06/15/21	0.0289	0.000421 J	0.00359	0.00117 J	0.554	--	--	--
MW-310	09/22/21	0.0159	<0.00100	0.00137	<0.00300	0.343	--	--	--
MW-310	12/16/21	0.0166	<0.00100	0.00170	0.000730 J	1.40	6.76	0.667	--
MW-311	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	< 0.010
MW-311	03/09/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	06/11/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	--	--	--
MW-311	02/23/16	< 0.0000320	< 0.0000380	< 0.0000860	< 0.0000160	< 0.0178	--	--	--
MW-311	05/04/16	0.000716	< 0.000312	< 0.000198	< 0.000162	0.0260 J	--	--	--
MW-311	08/29/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.0178	--	--	--
MW-311	12/15/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	--	--	--
MW-311	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	06/15/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	08/22/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	03/08/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	06/13/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	03/18/19	0.000107 J	0.000409 J	< 0.000198	< 0.000442	0.3	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-311	05/16/19	0.000237 J	0.000976 J	< 0.000190	< 0.000580	0.618	--	--	--
MW-311	09/19/19	0.000211 J	< 0.000312	< 0.000198	< 0.000442	0.461	--	--	--
MW-311	12/12/19	< 0.0000930	< 0.000312	0.000290 J	0.000839 J	0.751	--	--	--
MW-311	04/27/20	0.000221 J	0.00104	0.000292 J	0.000654 J	0.919	--	--	--
MW-311	06/30/20	0.000252 J	0.000799 J	0.000361 J	0.000883 J	1.41 J	--	--	--
MW-311	09/22/20	0.000313 J	0.00122	0.000351 J	0.000558 J	0.894	--	--	--
MW-311	12/15/20	0.000211	0.000865	0.000386	0.000641	1.66 J+	--	--	--
MW-311	04/13/21	<0.000200	0.00102	0.000247	<0.000500	1.32	--	--	--
MW-311	09/23/21	0.00207	0.00309	0.000899 J	0.000789 J	1.20	--	--	--
MW-311	12/16/21	0.000347 J	0.000923 J	0.000343 J	0.00105 J	1.63	--	--	--
MW-312	11/05/14	0.239	0.0058	0.0065	0.0102	1.64	1.13	0.132 J	< 0.010
MW-312	03/09/15	0.357	0.0044 J	0.0086	0.0050 J	1.91	--	--	--
MW-312	06/11/15	0.204	0.0034 J	0.0023 J	0.0027 J	1.35	--	--	--
MW-312	07/28/15	0.313	0.0041 J	0.0030 J	0.0032 J	1.65	--	--	--
MW-312	12/10/15	0.0718	0.00333	0.00222	0.00461	1.26	--	--	--
MW-312	02/23/16	0.327	0.00354	0.00759	0.00416	1.96	--	--	--
MW-312	05/04/16	0.414	0.00399	0.00662	0.00376	2.22	--	--	--
MW-312	08/29/16	0.37	0.00457 J	0.00354 J	0.00394 J	2.3	--	--	--
MW-312	12/15/16	0.356	0.00336 J	0.00556 J	< 0.000442	2.27	--	--	--
MW-312	03/13/17	0.35	0.00362	0.00527	0.00375	2.07	--	--	--
MW-312	06/15/17	0.383	0.00372	0.00425	0.00368 J	1.89	--	--	--
MW-312	08/23/17	0.33	0.00395	0.00279	0.00422	2.02	--	--	--
MW-312	12/07/17	0.241	0.00441	0.00223	0.00708	1.72	--	--	--
MW-312	03/08/18	0.261	0.00273 J	0.00260 J	0.00311 J	1.77	--	--	--
MW-312	06/13/18	0.284	0.0044	0.00243	0.0048	1.69	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-312	09/05/18	0.283	0.00405	0.00306	0.0041	2.06	--	--	--
MW-312	12/20/18	0.126	0.00284	0.00231	0.00361	1.44	--	--	--
MW-312	03/19/19	0.183	0.00372	0.00472	0.00447	2.07	--	--	--
MW-312	05/16/19	0.189	0.00286	0.00353	0.00290 J	2.5	--	--	--
MW-312	09/19/19	0.0928	0.00233	0.00307	0.00220 J	1.64	--	--	--
MW-312	12/12/19	0.094	0.00251	0.00341	0.00275 J	1.7	--	--	--
MW-312	04/28/20	0.0721	0.00213	0.00315	0.00274 J	1.66	--	--	--
MW-312	06/30/20	0.0792	0.00238	0.00406	0.00208 J	1.47	--	--	--
MW-312	09/22/20	0.176	0.00286	0.0068	0.00295 J	2.69	--	--	--
MW-312	12/15/20	0.0498	0.00251	0.00437	0.00284	2.56 J+	--	--	--
MW-312	04/13/21	0.121	0.00244	0.00453	0.00219	--	--	--	--
MW-312	06/16/21	0.0472	0.00214	0.00250	0.00199 J	1.57	--	--	--
MW-312	09/23/21	0.0398	0.00264	0.00329	0.00226 J	1.83	--	--	--
MW-312	12/16/21	0.0300	0.00225	0.00290	0.00237 J	2.99	--	--	--
MW-313	08/29/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	<0.0178	0.218	< 0.0603	--
MW-313	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.100	0.207	< 0.0598	--
MW-313	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.146 J	< 0.121	--
MW-313	06/15/17	< 0.0000930	< 0.000312	< 0.000198	0.000463 J	< 0.0704	0.165 J	< 0.122	--
MW-313	08/22/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.222 J	< 0.121	--
MW-313	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.153 J	< 0.120	--
MW-313	03/07/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.120	< 0.131	--
MW-313	06/13/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.139 J	< 0.123	--
MW-313	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.362	0.255 J	--
MW-313	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.468	0.327 J	--
MW-313	03/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.174 J	< 0.117	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-313	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.0807	0.207 J	0.164 J	--
MW-313	09/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.237	< 0.114	--
MW-313	12/12/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.473	0.153 J	--
MW-313	04/27/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.149 J	< 0.122	--
MW-313	06/30/20	0.000136 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.260	< 0.116	--
MW-313	09/22/20	<0.0004	<0.001	<0.001	<0.003	<0.150	0.309	<0.408	--
MW-313	12/15/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.288	<0.388	--
MW-313	04/13/21	<0.000200	<0.000200	<0.000200	<0.000500	<0.250	0.272	<0.350	--
MW-313	06/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.156 J	<0.401	--
MW-313	09/23/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.161 J	<0.392	--
MW-313	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.359	0.185 J	--
MW-314	08/30/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	0.182	0.293	< 0.0599	--
MW-314	12/14/16	0.00432	0.000374 J	< 0.000198	< 0.000442	0.298	0.401	0.0679 J	--
MW-314	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0891 J	0.245	< 0.120	--
MW-314	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.227 J	< 0.122	--
MW-314	08/23/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.136 J	0.283	< 0.124	--
MW-314	12/06/17	0.000153 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.285	< 0.122	--
MW-314	03/07/18	0.00726	< 0.000312	< 0.000198	< 0.000442	0.131 J	0.336	< 0.127	--
MW-314	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.121 J	0.46	< 0.121	--
MW-314	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.203	0.825	0.501	--
MW-314	12/20/18	0.000564	0.000600 J	< 0.000198	< 0.000442	0.138 J	0.788	0.471	--
MW-314	03/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.157	0.608	0.139 J	--
MW-314	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.201	2.09	0.248 J	--
MW-314	12/10/19	< 0.000105 J	0.000400 J	< 0.000198	< 0.000442	0.26	1.44	0.178 J	--
MW-314	04/28/20	0.000578	< 0.000312	< 0.000198	< 0.000442	0.283	2.36	0.186 J	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-314	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.147 J	2.57	0.214 J	--
MW-314	09/22/20	0.00584	0.000903 J	<0.001	0.000807 J	0.345	1.60	0.155 J	--
MW-314	12/15/20	0.0146	0.00182	0.00036	0.00186	0.578	1.84	<0.379	--
MW-314	04/13/21	<0.000200	0.000391 J+	<0.000200	<0.000500	0.363	2.75	0.745	--
MW-315	08/29/16	0.0965	0.00265	0.000548 J	0.00135 J	0.453	1.55	< 0.0600	--
MW-315	12/12/16	0.0174	0.00361	0.0023	0.00408	1.17	1.29	0.0871 J	--
MW-315	03/13/17	0.0295	0.00478	0.00153	0.00793	1.24	1.64	< 0.121	--
MW-315	06/15/17	0.0804	0.00426	0.000634 J	0.00965	1.2	2.95	< 0.122	--
MW-315	08/23/17	0.0727	0.00403	0.000909 J	0.00871	1.71	2.74	< 0.123	--
MW-315	12/07/17	0.00479	0.00377	0.000382 J	0.00756	1.19	2.21	< 0.121	--
MW-315	03/08/18	0.0435	0.00411	0.000736 J	0.00712	1.39	1.15	< 0.125	--
MW-315	06/13/18	0.0619	0.00529	0.000648 J	0.00762	1.19	1.78	< 0.120	--
MW-315	09/05/18	0.0178	0.00461	0.000476 J	0.00904	1.33	2.89	0.267 J	--
MW-315	12/20/18	0.00283	0.00464	0.000599 J	0.0106	1.16	3.06	0.310 J	--
MW-315	03/18/19	0.0233	0.00363	0.000959 J	0.0039	1.4	1.89	0.149 J	--
MW-315	05/16/19	0.0565	0.00393	0.000584 J	0.00399	2.16	2.38	0.179 J	--
MW-315	09/19/19	0.0361	0.0036	0.000542 J	0.00353	1.29	2.61	0.133 J	--
MW-315	12/12/19	0.00334	0.00389	0.000667 J	0.005	1.68	3.96	0.266 J	--
MW-315	04/27/20	0.051	0.00406	0.000695 J	0.00368	1.66	2.81	0.126 J	--
MW-315	06/30/20	0.0699	0.00574	0.000878 J	0.00413	1.82	2.74	0.155 J	--
MW-315	09/22/20	0.0297	0.00383	0.000625 J	0.00266 J	1.78	2.89	0.171 J	--
MW-315	12/15/20	0.0028	0.0044	0.000673	0.00368	2.26 J+	3.34	<0.385	--
MW-315	04/13/21	0.0666 J	0.00493	0.00141	0.00256	2.90 J+	5.04	0.691	--
MW-315	06/16/21	0.0578	0.00411	0.00182	0.00289 J	1.66	3.32	0.218 J	--
MW-315	09/23/21	0.00915	0.00392	0.000428 J	0.00276 J	1.48	3.27	0.180 J	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-315	12/16/21	0.00421	0.00375	0.000543 J	0.00251 J	2.81	3.23	0.296 J	--
SH-04	01/13/04	1.2	0.21	0.14	2.11	15	4.7	< 2.5	--
SH-04	04/20/04	1.5	0.49	0.64	5.79	26	6.2	< 10	--
SH-04	07/27/04	1.3	0.13	0.55	1.78	15	5.4	0.53	--
SH-04	04/20/05	0.98	0.061	0.36	1.07	11	4.2	< 1.5	--
SH-04	04/25/06	1.25	0.089	0.65	2.31	20	8.23	2.52	--
SH-04	10/30/07	0.884	0.0315	0.315	0.0814	<5.0	--	--	--
SH-04	05/20/08	1.1	0.048	0.52	0.657	8.9	4.8	0.92	--
SH-04	11/20/08	0.79	0.032	0.23	0.0384	6.6	2.7	< 0.5	--
SH-04	04/08/09	0.87	0.04	0.25	0.19	9.2	4.7	< 0.1	--
SH-04	11/16/09	0.48	0.023	0.068	0.016	4.9	3.7	< 0.1	--
SH-04	04/27/10	0.71	0.027	0.27	0.13	7.3	4.7	0.39	--
SH-04	10/25/10	0.58	0.019	0.18	0.013	4	2.8	< 0.1	--
SH-04	05/23/11	0.655	0.0145	0.151	0.034	5.4	1.84	0.13	--
SH-04	10/27/11	0.393	0.02	0.0926	0.0279	5.35	1.22	< 0.19	--
SH-04	03/01/12	0.614	0.0227	0.0932	0.0124 J	5.53	--	--	--
SH-04	06/11/12	0.426	0.0142	0.112	0.0198 J	6	1.49	0.393	--
SH-04	09/25/12	0.124	0.0184	0.461	0.139	6.52	--	--	--
SH-04	11/25/12	0.073	0.0079 J	0.609	0.326	8.15	0.762	< 0.098	--
SH-04	05/15/13	0.0016 J	0.0005	0.0042	0.0032 J	2.16	0.376	< 0.096	--
SH-04	11/04/13	0.0032	0.00043 J	0.0071	0.005	1.05	0.134	< 0.094	--
SH-04	04/24/14	0.0091	0.00053 J	0.00090 J	0.0014 J	0.938	0.469	0.0944 J	--
SH-04	11/06/14	0.0249	0.0023	0.0173	0.0072	0.984	0.608	< 0.094	--
SH-04	05/21/15	0.0094	0.00048 J	0.0035	0.0021	0.78	0.171	< 0.094	--
SH-04	12/08/15	0.0155	0.00118	0.00359	0.00409	0.927	1.74	0.422	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SH-04	05/05/16	0.000454	< 0.000312	0.000939 J	0.000887 J	0.941	0.23	< 0.0601	--
SH-04	12/14/16	0.00534	0.000990 J	0.0199	0.0123	0.843	1	0.102 J	--
SH-04	06/14/17	0.00158	0.000468 J	0.00192	0.00208 J	0.702	0.242 J	0.138 J	--
SH-04	12/07/17	0.00934	0.0015	0.00205	0.00351	0.796	1.78	< 0.136	--
SH-04	06/13/18	0.0052	0.000593 J	0.0042	0.00212 J	0.724	0.187 J	< 0.123	--
SH-04	12/19/18	0.0118	0.00195	0.0125	0.00477	0.804	0.954	0.210 J	--
SH-04	05/16/19	0.00169	0.000346 J	0.00225	0.00227 J	1.35	0.582	0.174 J	--
SH-04	12/11/19	0.012	0.00186	0.00139	0.00342	0.0805	1.26	< 0.121	--
SH-04	06/30/20	0.00239	0.000477 J	0.00124	0.00123 J	0.379	0.256	< 0.119	--
SH-04	12/14/20	0.0118	0.00164	0.00587	0.00262	0.359	2.78	0.472	--
SH-04	06/15/21	0.00525	0.000511 J	0.00294	0.00162 J	0.472	0.209 J	<0.404	--
SH-04	12/15/21	0.0167	0.00172	0.00150	0.00380	1.29	2.67	0.400 J	--
TES-MW-1	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/20/04	0.0067	< 0.001	0.011	0.043	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/20/04	0.0075	< 0.001	0.013	0.049	< 0.25	< 0.25	< 0.5	--
TES-MW-1	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	10/18/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
TES-MW-1	07/13/05	0.001	< 0.001	0.006	0.0189	0.1	< 0.25	< 0.5	--
TES-MW-1	10/20/05	0.0039	< 0.001	0.013	0.0437	0.23	< 0.25	< 0.5	--
TES-MW-1	01/27/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	< 0.240	< 0.481	--
TES-MW-1	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
TES-MW-1	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TES-MW-1	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
TES-MW-1	05/24/11	<0.0003	<0.0005	<0.0003	<0.0007	<0.050	--	--	--
TES-MW-1	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	< 0.10	< 0.20	--
TES-MW-1	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
TES-MW-1	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
TES-MW-1	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
TES-MW-1	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.234	< 0.390	--
TES-MW-1	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0466	< 0.0699	--
TES-MW-1	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0816	< 0.122	--
TES-MW-1	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.106	< 0.116	--
TES-MW-1	12/09/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.111	< 0.121	--
TES-MW-1	12/16/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.238	<0.397	--
TES-MW-1	12/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.237	0.162 J	--
TX-03A	01/13/04	2.9	0.018	0.038	0.091	2.7	0.86	< 0.5	--
TX-03A	04/19/04	4.4	0.047	0.12	0.11	12	1.3	< 0.5	--
TX-03A	07/27/04	1.7	0.011	0.016	0.037	5.2	0.81	< 0.5	--
TX-03A	10/18/04	3.2	0.024	0.062	0.093	7.5	1.2	< 0.5	--
TX-03A	01/24/05	2.5	0.02	< 0.01	0.065	8.2	0.54	< 0.5	--
TX-03A	04/19/05	2.5	0.021	0.026	0.049	6.1	0.47	< 0.5	--
TX-03A	07/12/05	3.1	0.024	0.044	0.054	10	0.32	< 0.5	--
TX-03A	10/31/07	2.2	0.0233	0.0601	0.0503	<5.0	--	--	--
TX-03A	05/20/08	0.88	0.007	0.016	0.01	3	--	--	--
TX-03A	11/20/08	2.1	0.019	0.038	0.018	4.5	--	--	--
TX-03A	04/08/09	1.2	< 0.025	0.028	< 0.025	3.5	--	--	--
TX-03A	11/17/09	0.97	0.0078	0.016	0.011	2.4	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	04/27/10	1.7	0.0096	0.0087	0.0099	4.6	--	--	--
TX-03A	10/25/10	1.7	0.011	0.067	0.013	3.3	--	--	--
TX-03A	05/23/11	1.78	<0.025	0.044	<0.035	7.53	--	--	--
TX-03A	10/27/11	3.44	0.0712	0.147	0.111	8.51	--	--	--
TX-03A	03/01/12	1.74	0.0261	0.0272	0.0345 J	5.58	--	--	--
TX-03A	06/12/12	1.57	0.0200 J	0.0139 J	0.0300 J	6.78	--	--	--
TX-03A	09/25/12	1.7	0.0298	0.041	0.0501	5.53	--	--	--
TX-03A	11/28/12	1.18	0.0188 J	0.0232	0.0357 J	4.91	--	--	--
TX-03A	02/21/13	2.81	0.0403	0.0421	0.0489 J	8.2	0.32	< 0.10	--
TX-03A	05/15/13	2.15	0.0459 J	0.189	0.0643 J	3.11	--	--	--
TX-03A	11/05/13	2.72	0.0343 J	0.0364 J	0.0411 J	6.01	--	--	--
TX-03A	04/23/14	1.22	0.0171	0.0251	0.027	5.76	--	--	--
TX-03A	07/24/14	1.64	0.0317	0.0698	0.052	7.55	0.382	< 0.094	--
TX-03A	11/04/14	0.941	0.0137	0.0366	0.0269	5.76	0.448	< 0.094	--
TX-03A	03/09/15	1.86	0.0246 J	0.0581	0.0390 J	7.16	--	--	--
TX-03A	05/21/15	1.15	0.0144 J	0.0462	0.0260 J	3.4	--	--	--
TX-03A	07/28/15	1.72	0.0213 J	0.118	0.0355 J	5.42	--	--	--
TX-03A	12/10/15	0.635	0.0126	0.026	0.0253	3.32	1.34	< 0.391	--
TX-03A	02/23/16	1.78	0.0274	0.0882	0.0385	5.17	--	--	--
TX-03A	05/02/16	1.54	0.037	0.208	0.0503	6.3	--	--	--
TX-03A	08/29/16	0.844	0.0257	0.246	0.053	5.89	--	--	--
TX-03A	12/15/16	0.995	0.0197 J	0.0697	0.0357 J	4.81	1.73	0.125 J	--
TX-03A	03/13/17	0.76	0.0208	0.0901	0.0352 J	3.66	--	--	--
TX-03A	06/13/17	1.37	0.0361	0.246	0.0618 J	5.36	--	--	--
TX-03A	08/22/17	1.08	0.0233	0.137	0.0363	4.55	--	--	--
TX-03A	12/05/17	0.258	0.00697 J	0.0172 J	0.0126 J	3.07	2.03	0.172 J	--

Table 6
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Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
	Model Toxics Control Act Method A Cleanup Level	0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	03/27/18	0.135	0.00114	0.00395	0.000969 J	1.21	--	--	--
TX-03A	06/13/18	0.204	0.0024	0.015	0.000713 J	0.97	--	--	--
TX-03A	09/06/18	0.263	0.00308	0.0252	0.00115 J	1.31	--	--	--
TX-03A	12/20/18	0.0278	0.000612 J	0.00282	0.000499 J	0.768	2.88	1.05	--
TX-03A	03/19/19	0.0131 J	< 0.000312	0.00143	< 0.000442	0.938	--	--	--
TX-03A	05/16/19	0.102 J	< 0.000170	0.00115 J	< 0.000580 J	0.991	--	--	--
TX-03A	09/19/19	0.00642	< 0.000312	0.00722	< 0.000442	0.446	--	--	--
TX-03A	12/11/19	0.00173	< 0.000312	0.0017	< 0.000442	0.521	1.72	0.154 J	--
TX-03A	04/28/20	0.023	< 0.000312	0.000578 J	< 0.000442	0.181	--	--	--
TX-03A	06/30/20	0.00796	< 0.000312	0.00135	< 0.000442	0.129 J	--	--	--
TX-03A	09/21/20	0.00527	< 0.001	0.00293	< 0.003	0.139 J	--	--	--
TX-03A	12/15/20	0.00499	0.00022	0.0029	< 0.0005	< 0.250	0.520	< 0.371	--
TX-03A	04/12/21	0.0665 J	0.00151	0.00955	< 0.000500	0.465	--	--	--
TX-03A	06/16/21	0.0416	0.00151	0.0192	0.000832 J	0.285	--	--	--
TX-03A	09/23/21	0.0183	0.000973 J	0.00677	0.000651 J	0.221	--	--	--
TX-04	01/13/04	0.025	0.0055	< 0.001	0.0194	0.65	0.59	< 0.5	--
TX-04	04/21/04	0.0025	0.0017	< 0.001	0.0031	0.47	2.2	< 0.75	--
TX-04	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.5	< 0.5	--
TX-04	10/18/04	< 0.001	< 0.001	< 0.001	0.0022	0.28	1.2	< 0.5	--
TX-04	01/24/05	0.031	0.0071	< 0.001	0.0204	0.87	0.64	< 0.5	--
TX-04	04/20/05	0.014	0.0036	< 0.001	0.0085	0.54	0.73	< 0.5	--
TX-04	07/12/05	< 0.001	< 0.001	< 0.001	0.0014	0.34	0.82	< 0.5	--
TX-04	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.2	1.1	< 0.5	--
TX-04	01/25/06	0.00127	0.001	< 0.0005	0.00151	0.206	0.835	< 0.476	--
TX-04	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	0.076	< 0.25	< 0.5	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-04	11/16/09	< 0.0005	< 0.001	< 0.001	< 0.001	0.17	0.13	< 0.1	--
TX-04	10/25/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	--
TX-04	05/23/11	<0.0003	<0.0005	<0.0003	<0.0007	0.0554	--	--	--
TX-04	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.0966	< 0.20	--
TX-04	11/26/12	0.0013	0.00038 J	< 0.00020	0.00052 J	0.0980 J	0.0807 J	< 0.10	--
TX-04	11/04/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0492 J	< 0.095	--
TX-04	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.096	--
TX-04	12/08/15	0.000268	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.245	< 0.408	--
TX-04	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.0762 J	< 0.0608	--
TX-04	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
TX-04	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.104	< 0.114	--
TX-04	12/12/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.122 J	< 0.119	--
TX-04	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.110	<0.351	--
TX-04	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.247	<0.411	--
TX-06A	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	5.8	< 1	--
TX-06A	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3.4	< 0.75	--
TX-06A	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3.6	< 0.5	--
TX-06A	10/18/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	4.1	< 0.5	--
TX-06A	01/24/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.7	< 0.5	--
TX-06A	04/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.18	6.3	< 1.5	--
TX-06A	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.26	2.5	< 0.5	--
TX-06A	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.072	0.93	< 0.5	--
TX-06A	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.126	1.57	< 0.476	--
TX-06A	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	0.49	< 0.5	--
TX-06A	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.24	< 0.1	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Total
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-06A	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.72	< 0.1	--
TX-06A	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0519	0.499	< 0.21	--
TX-06A	11/25/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.50	0.716	< 0.098	--
TX-06A	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.358	< 0.095	--
TX-06A	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.758	0.184	--
TX-06A	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	1.03	<0.388	--
TX-06A	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.433	0.0707 J	--
TX-06A	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.36	< 0.122	--
TX-06A	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.592	0.244 J	--
TX-06A	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.244	< 0.119	--
TX-06A	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	1.32	0.589	--
TX-06A	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.589	0.146 J	--
MW-01	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--

Table 6
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Note:

= Indicates data collected during this progress report period

* = Cleanup levels per the Cleanup Action Plan (Ecology, 1998)

¹ = Dissolved lead result

Bold = indicate detected concentration greater than cleanup level

BTEX = benzene, toluene, ethylbenzene, and total xylenes

J = Result is less than the reporting limit, but greater than or equal to the method detection limit, and the concentration is an approximate value.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are laboratory Method Detection Limits (MDLs). Prior to June 12, 2012, limits shown are laboratory Reporting Limits (RLs).

mg/L = milligrams per liter

NA = not analyzed

NE = not established

TPHg = Total petroleum hydrocarbons as gasoline analyzed by Northwest Method NWTPH-Gx.

TPHd = Total petroleum hydrocarbons as diesel analyzed by Northwest Method NWTPH-Dx.

TPHo = Total petroleum hydrocarbons as oil analyzed by Northwest Method NWTPH-Dx.

Table 7
Carcinogenic PAHs in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	01/14/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/20/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	07/28/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/19/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	01/25/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/19/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	07/12/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/20/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	01/26/06	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943
MW-213	10/30/07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-213	11/19/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-213	04/07/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	11/18/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/26/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/28/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	05/24/11	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
MW-213	10/25/11	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
MW-213	06/12/12	< 0.000050	< 0.000041	< 0.000035	< 0.000039	< 0.000045	< 0.000035	< 0.000035
MW-213	11/29/12	< 0.000053	< 0.000041	< 0.000035	< 0.000039	< 0.000045	< 0.000035	< 0.000035
MW-213	05/15/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-213	11/05/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033
MW-213	04/23/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033
MW-213	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-213	05/19/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013
MW-213	12/09/15	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948

Table 7
Carcinogenic PAHs in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	05/03/16	< 0.0000920	< 0.0000101	< 0.0000101	< 0.0000138	< 0.00000644	< 0.0000120	< 0.0000202
MW-213	12/13/16	0.0000122	< 0.0000887	< 0.0000108	< 0.0000148	< 0.00000690	< 0.0000128	< 0.0000217
MW-213	06/14/17	< 0.0000888	< 0.0000109	< 0.0000109	< 0.0000148	< 0.00000691	< 0.0000128	< 0.0000217
MW-213	12/07/17	< 0.0000965	< 0.0000106	< 0.0000106	< 0.0000145	< 0.00000676	< 0.0000125	< 0.0000212
MW-213	06/12/18	< 0.0000103	< 0.0000113	< 0.0000113	< 0.0000154	< 0.00000720	< 0.0000134	< 0.0000226
MW-213	12/19/18	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000893	< 0.0000129	< 0.0000218
MW-213	05/16/19	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000893	< 0.0000129	< 0.0000218
MW-213	12/11/19	< 0.0000119	< 0.0000896	< 0.0000109	< 0.0000149	< 0.00000995	< 0.0000129	< 0.0000219
MW-213	06/29/20	<0.0000124	<0.0000124	<0.0000113	<0.0000154	<0.0000103	<0.0000134	<0.0000226
MW-213	12/16/20	<0.0000503	<0.000101	<0.0000503	<0.0000503	<0.000101	<0.000101	<0.0000503
MW-213	06/14/21	<0.0000506	<0.000101	<0.0000506	<0.0000506	<0.000101	<0.000101	<0.0000506
MW-213	12/16/21	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895
MW-214	01/30/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/17/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/17/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/16/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/14/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/20/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/28/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/19/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/25/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/19/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/12/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/20/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/26/06	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099

Table 7
Carcinogenic PAHs in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	10/30/07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	05/05/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	11/19/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	04/07/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	11/18/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/26/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/28/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	05/24/11	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029
MW-214	10/25/11	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
MW-214	06/12/12	< 0.000051	< 0.000040	< 0.000034	< 0.000038	< 0.000044	< 0.000034	< 0.000034
MW-214	11/29/12	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	05/15/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	11/05/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	04/23/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033
MW-214	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	05/19/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-214	12/09/15	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908
MW-214	05/04/16	< 0.00000926	< 0.0000102	< 0.0000102	< 0.0000139	< 0.00000648	< 0.0000120	< 0.0000204
MW-214	12/14/16	0.00000994	< 0.0000883	< 0.0000108	< 0.0000147	< 0.00000687	< 0.0000128	< 0.0000216
MW-214	06/14/17	< 0.0000850	< 0.0000104	< 0.0000104	< 0.0000142	< 0.00000661	< 0.0000123	< 0.0000208
MW-214	12/07/17	< 0.0000102	< 0.0000112	< 0.0000112	< 0.0000153	< 0.00000713	< 0.0000132	< 0.0000224
MW-214	06/12/18	< 0.00000976	< 0.0000107	< 0.0000107	< 0.0000146	< 0.00000683	< 0.0000127	< 0.0000215
MW-214	12/19/18	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000894	< 0.0000129	< 0.0000219
MW-214	05/16/19	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000894	< 0.0000129	< 0.0000219
MW-214	12/11/19	0.0000141 J	< 0.0000921	< 0.0000113	< 0.0000154	< 0.0000102	< 0.0000133	< 0.0000225
MW-214	06/29/20	< 0.0000117	< 0.0000117	< 0.0000108	< 0.0000147	< 0.00000977	< 0.0000127	< 0.0000215

Table 7
Carcinogenic PAHs in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	12/16/20	<0.0000517	<0.000103	<0.0000517	<0.0000517	<0.000103	<0.000103	<0.0000517
MW-214	06/14/21	<0.0000499	<0.0000999	<0.0000499	<0.0000499	<0.0000999	<0.0000999	<0.0000499
MW-214	12/16/21	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905
MW-301	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-301	05/21/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013
MW-302	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-302	05/21/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-303	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033
MW-303	05/20/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013
MW-304	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-304	05/20/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-309	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-309	05/20/15	< 0.0014	< 0.0011	< 0.0013	< 0.0014	< 0.0016	< 0.0012	< 0.0013
MW-310	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-310	05/21/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-311	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-312	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033

Table 7
Carcinogenic PAHs in Groundwater
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
TX-03A	05/21/15	< 0.0014	< 0.0010	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013

Note:

= Indicates data collected during this progress report period

* = Cleanup levels per the Cleanup Action Plan (Ecology, 1998)

J = Result is less than the reporting limit, but greater than or equal to the method detection limit, and the concentration is an approximation

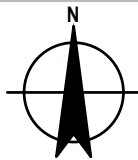
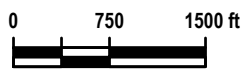
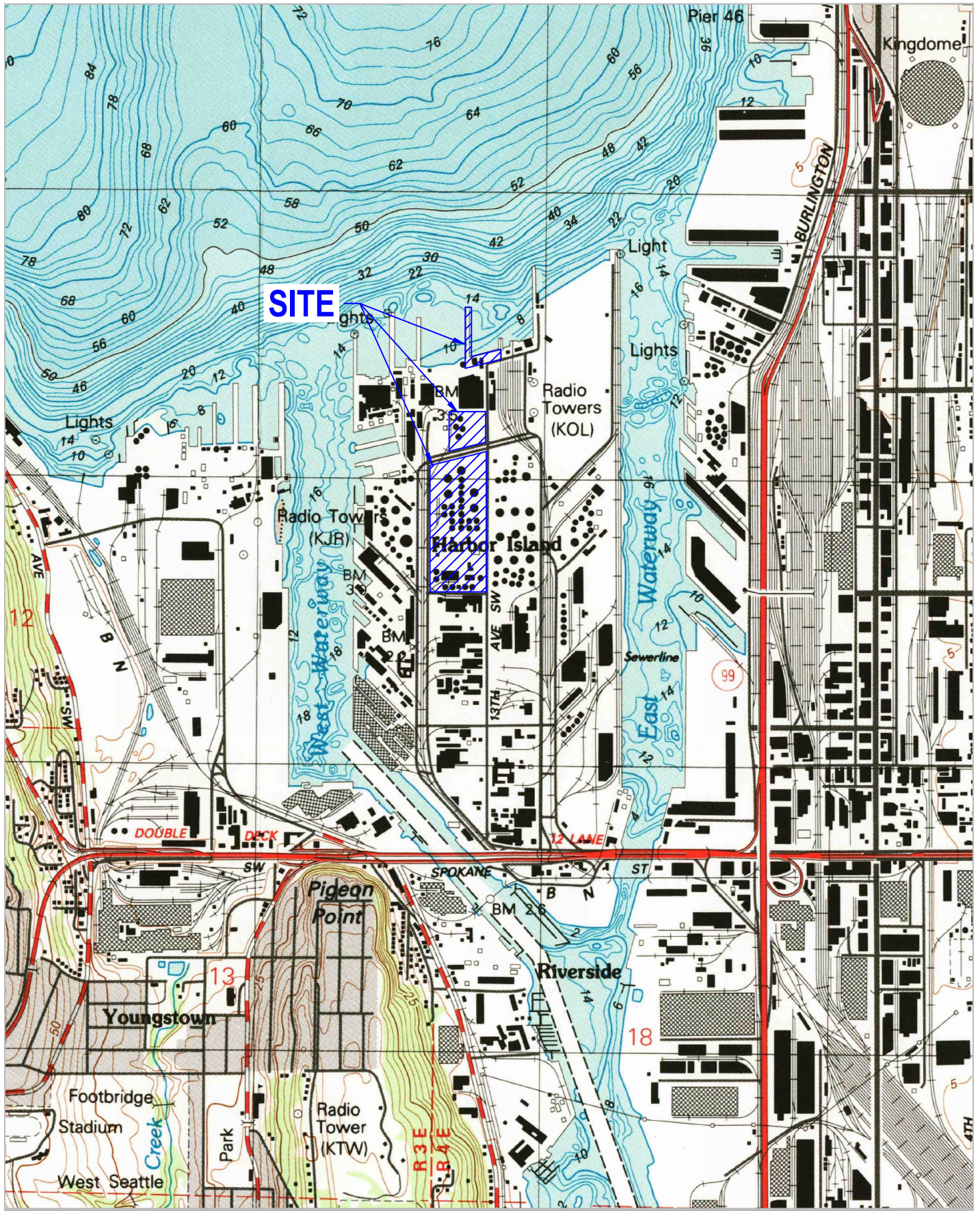
< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are

ID = identification

mg/L = milligrams per liter

PAHs = polycyclic aromatic hydrocarbons

Figures

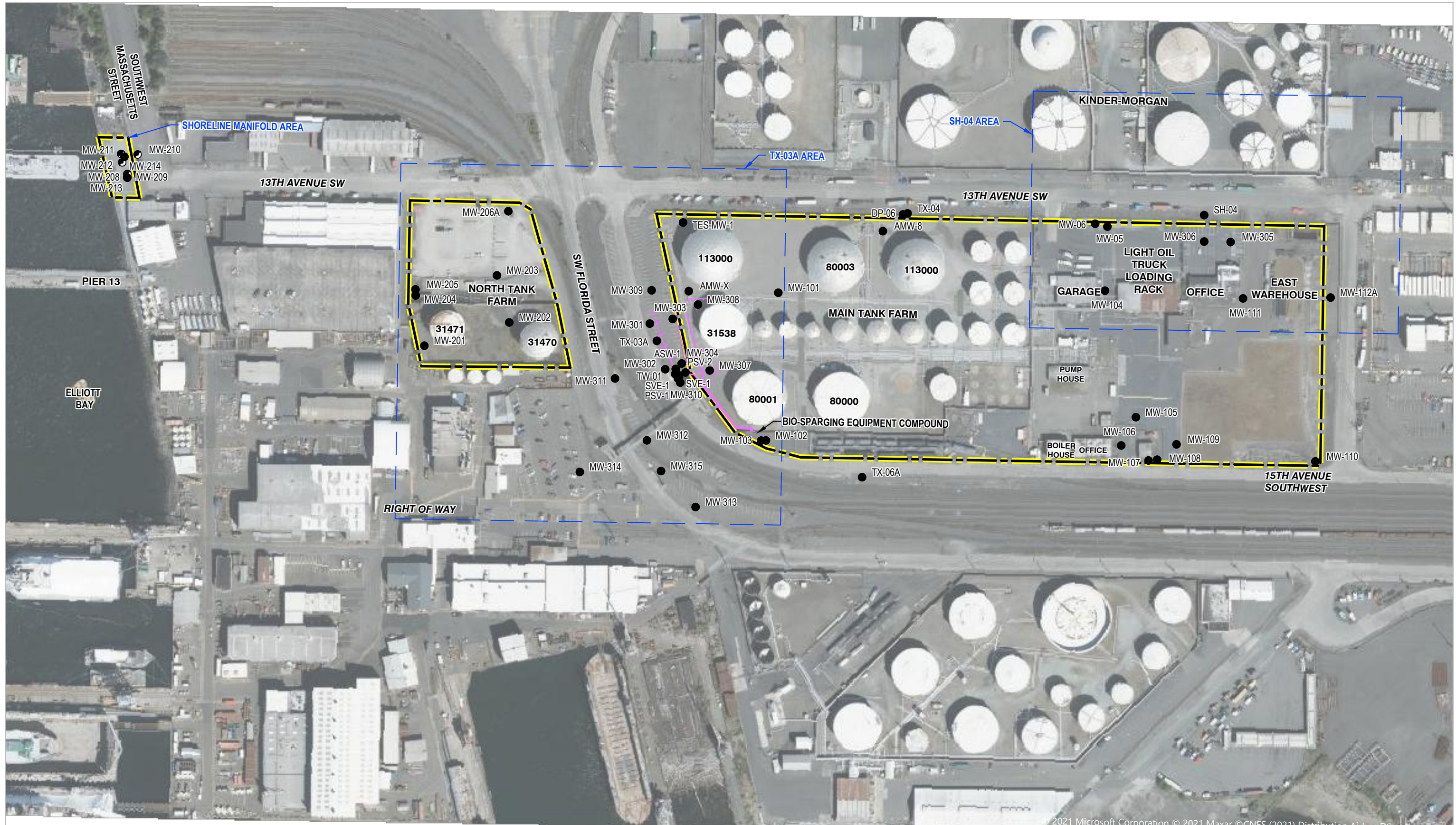


SHELL DISTRIBUTION TERMINAL
 2555 13TH AVENUE SW
 SEATTLE, WASHINGTON

Project No. 11218519
 Date February 2022

SITE LOCATION MAP

FIGURE 1



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LEGEND

- - - SHELL PROPERTY LINE
- MW-214 ● MONITORING WELL LOCATION
- MW-210 ● PRODUCT RECOVERY WELL LOCATION
- BIO-SPARGING LINE

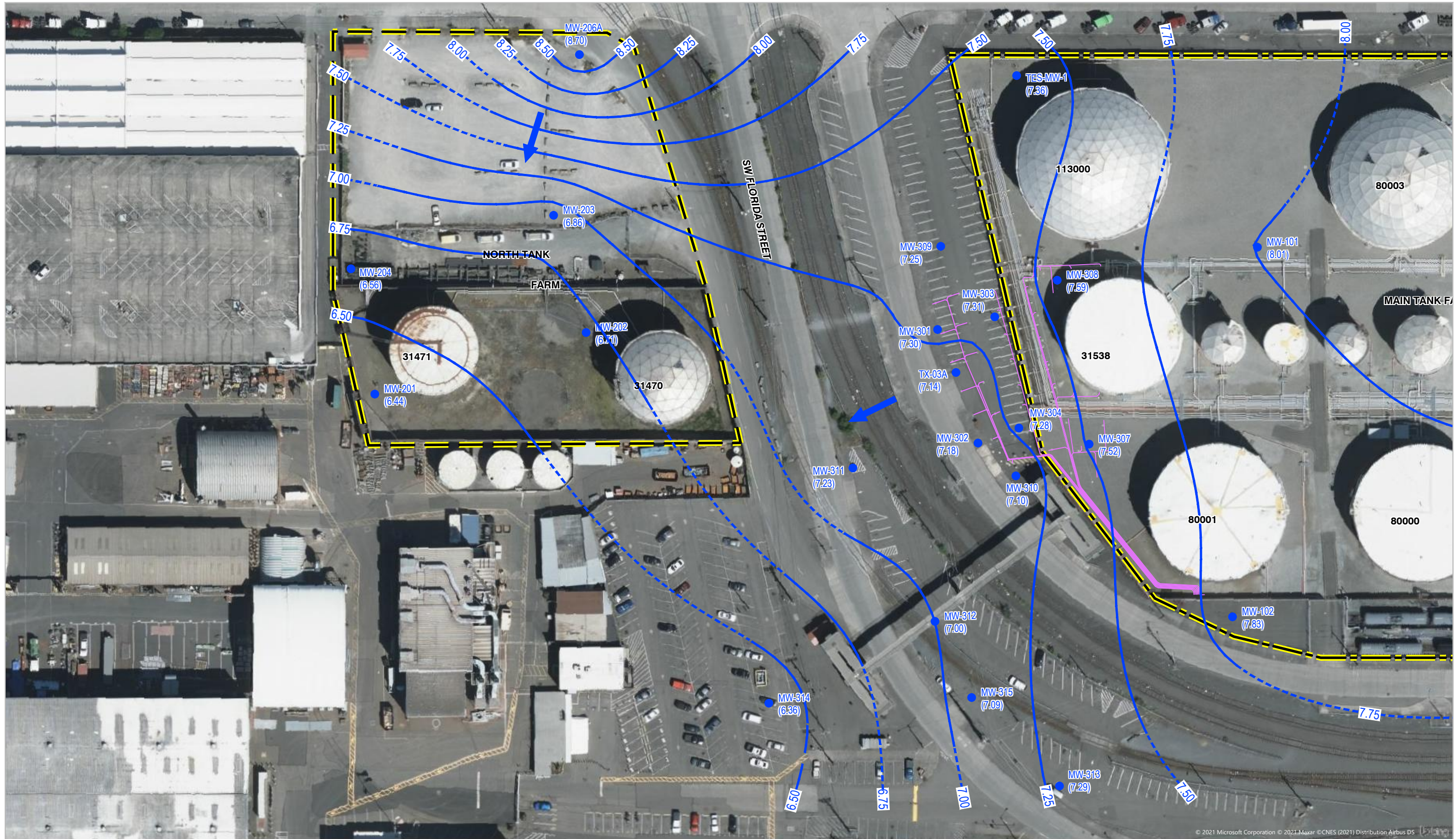


SHELL DISTRIBUTION TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

Project No. 11218519
Date February 2022

SITE PLAN

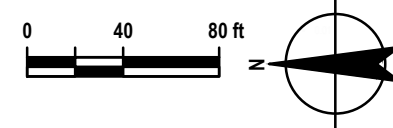
FIGURE 2



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LEGEND

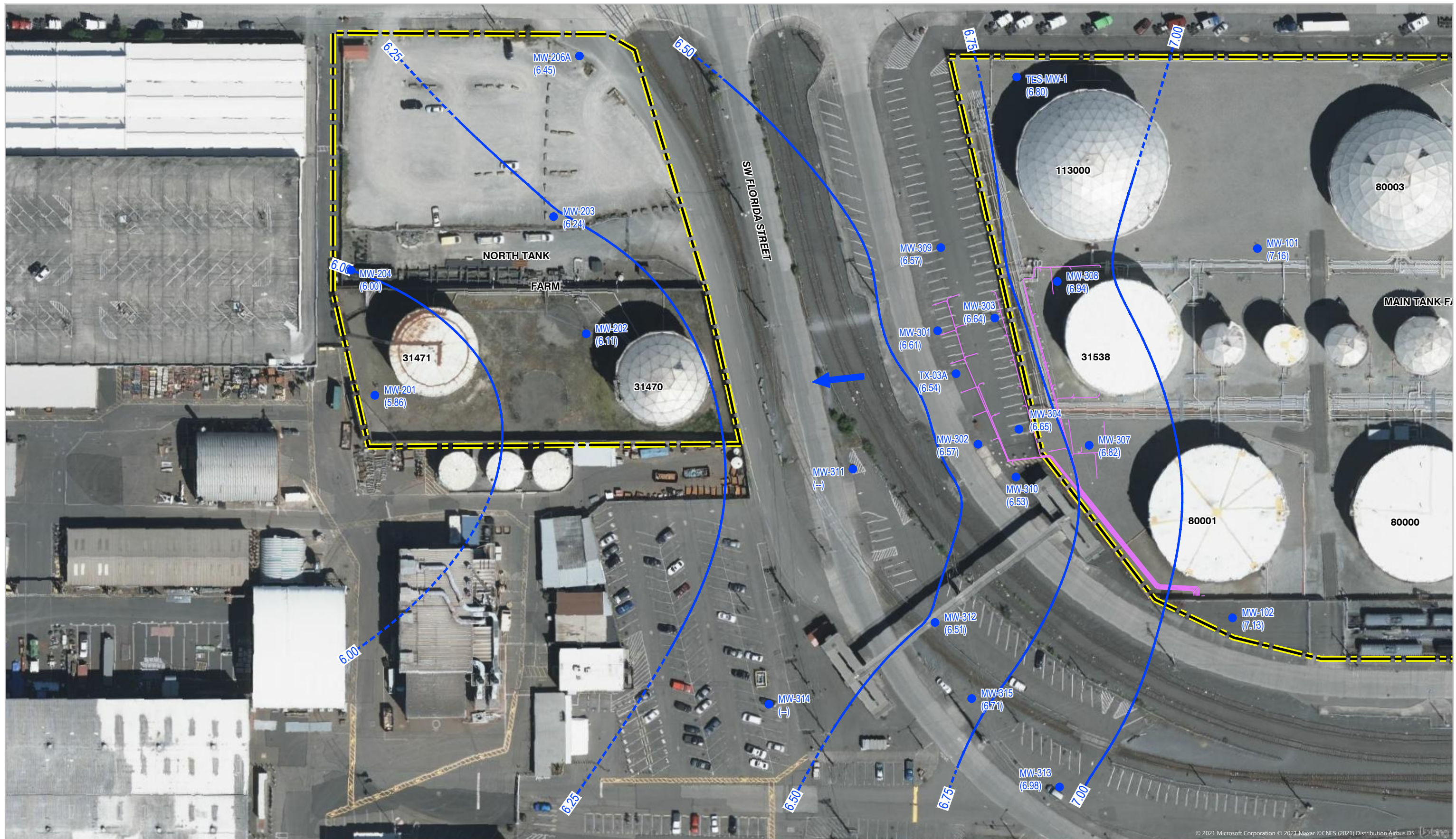
- - - SHELL PROPERTY LINE
- MW-214 MONITORING WELL LOCATION
- BIO-SPARGING LINE
- (6.13) GROUNDWATER ELEVATION
- - - 7.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- ➔ GROUNDWATER FLOW DIRECTION



SHELL DISTRIBUTION TERMINAL
 2555 13th AVENUE SW
 SEATTLE, WASHINGTON
 TX-03A AREA
 GROUNDWATER SURFACE
 CONTOUR MAP - 4/12/2021 (1Q2021)

Project No. 11218519
 Date February 2022

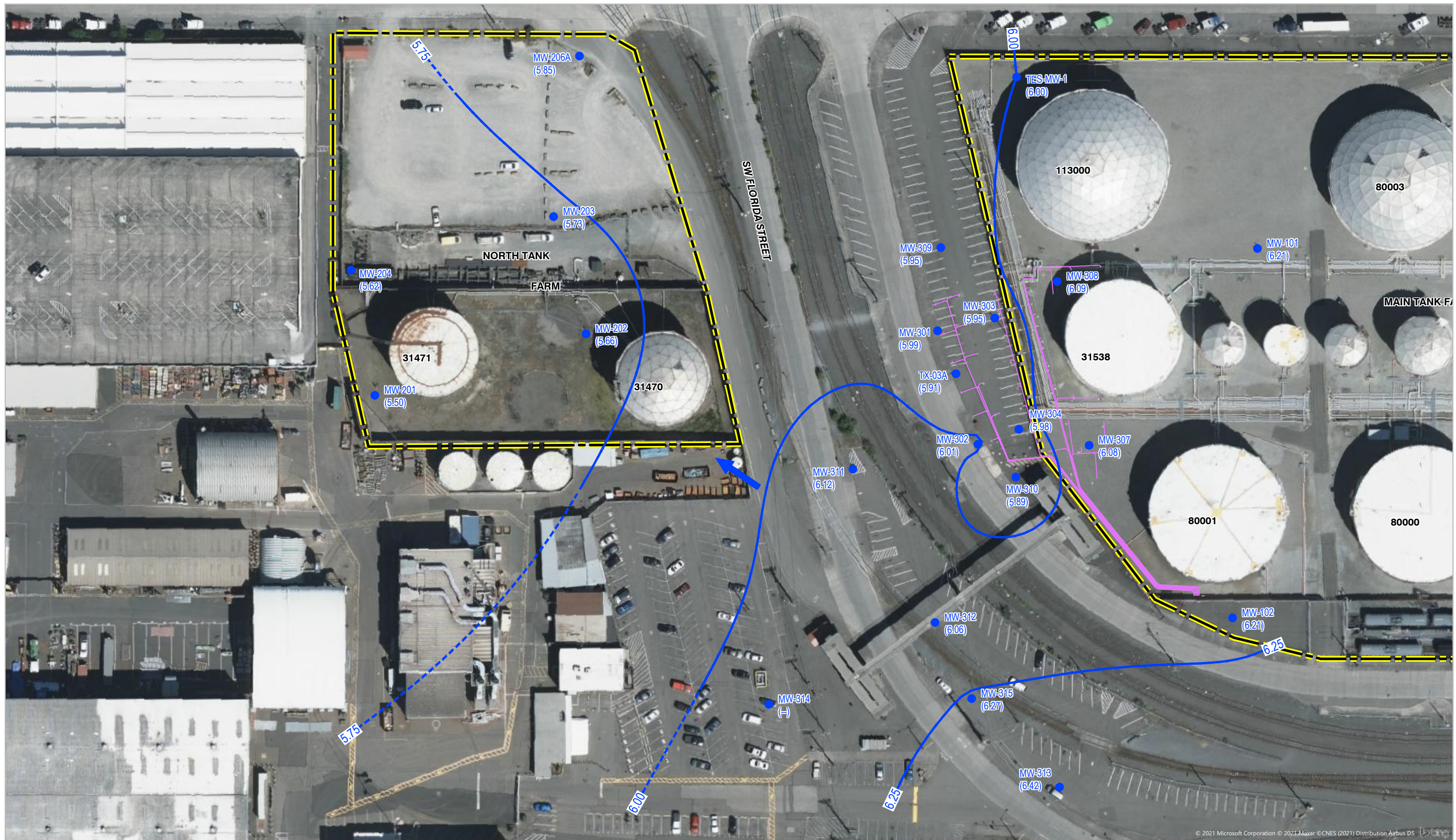
FIGURE 3



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<p>LEGEND</p> <p>--- SHELL PROPERTY LINE</p> <p>MW-214 ● MONITORING WELL LOCATION</p> <p>--- BIO-SPARGING LINE</p>	<p>(6.13) GROUNDWATER ELEVATION</p> <p>—7.00— GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)</p> <p>➔ GROUNDWATER FLOW DIRECTION</p>	<p>NOTE:</p> <p>UNABLE TO ACCESS MW-314 DUE TO PARKED CAR</p>	<p>0 40 80 ft</p>		<p>SHELL DISTRIBUTION TERMINAL 2555 13th AVENUE SW SEATTLE, WASHINGTON</p> <p>TX-03A AREA GROUNDWATER SURFACE CONTOUR MAP - 6/14/2021 (2Q2021)</p>	<p>Project No. 11218519 Date February 2022</p>
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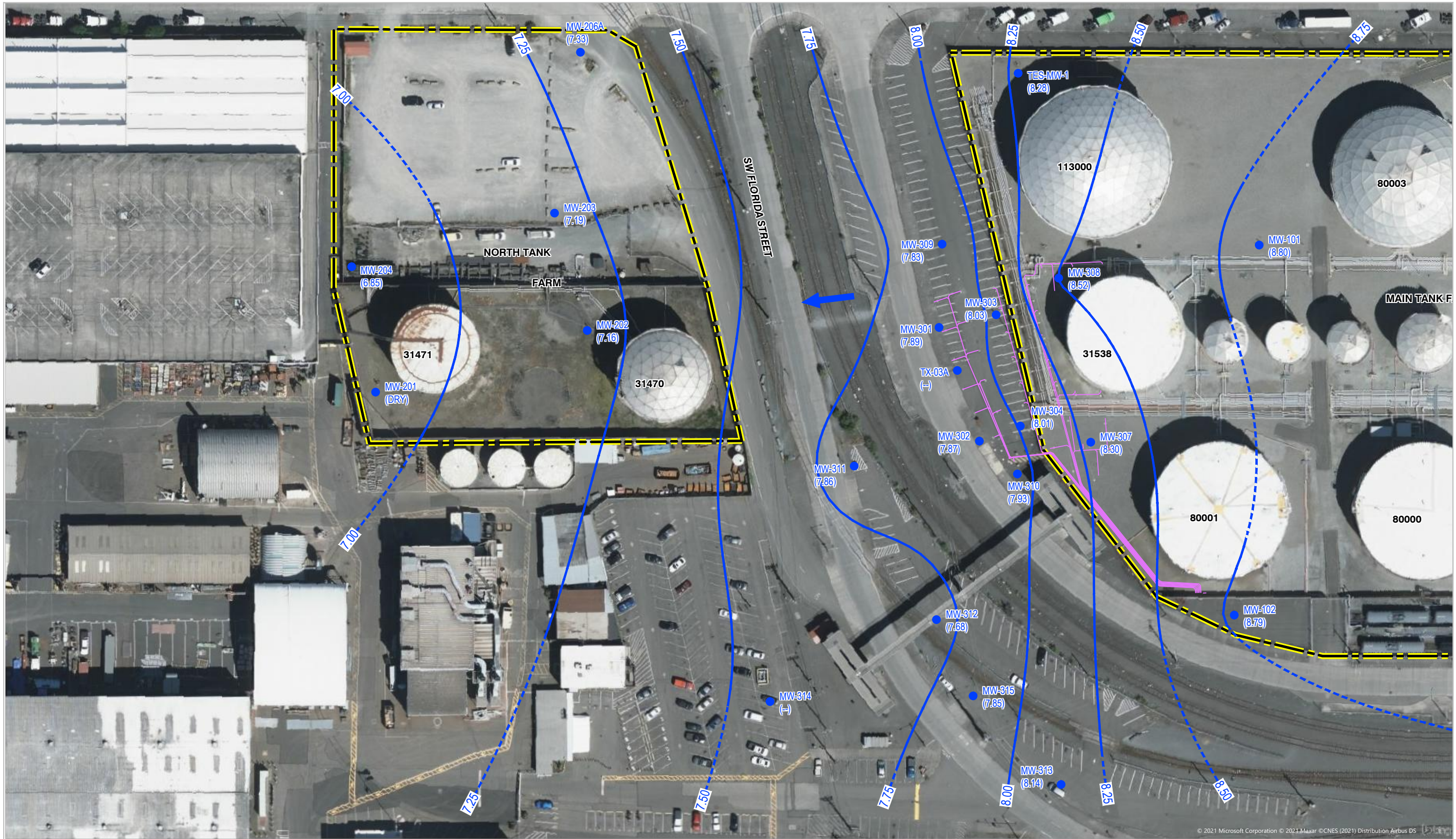
FIGURE 4



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<p>LEGEND</p> <p>--- SHELL PROPERTY LINE</p> <p>MW-214 ● MONITORING WELL LOCATION</p> <p>— BIO-SPARGING LINE</p>		<p>(6.13) GROUNDWATER ELEVATION</p> <p>—7.00— GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)</p> <p>➔ GROUNDWATER FLOW DIRECTION</p>	<p>NOTE:</p> <p>UNABLE TO ACCESS MW-314 DUE TO PARKED CAR</p>	<p>0 40 80 ft</p>		<p>SHELL DISTRIBUTION TERMINAL 2555 13th AVENUE SW SEATTLE, WASHINGTON</p> <p>TX-03A AREA GROUNDWATER SURFACE CONTOUR MAP - 9/22/2021 (3Q2021)</p>	<p>Project No. 11218519 Date February 2022</p>
---	--	---	--	-------------------	--	--	--

FIGURE 5

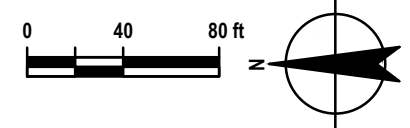


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LEGEND

- - - SHELL PROPERTY LINE
- MW-214 MONITORING WELL LOCATION
- BIO-SPARGING LINE
- (6.13) GROUNDWATER ELEVATION
- 7.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

NOTE:
UNABLE TO ACCESS MW-314 DUE TO PARKED CAR

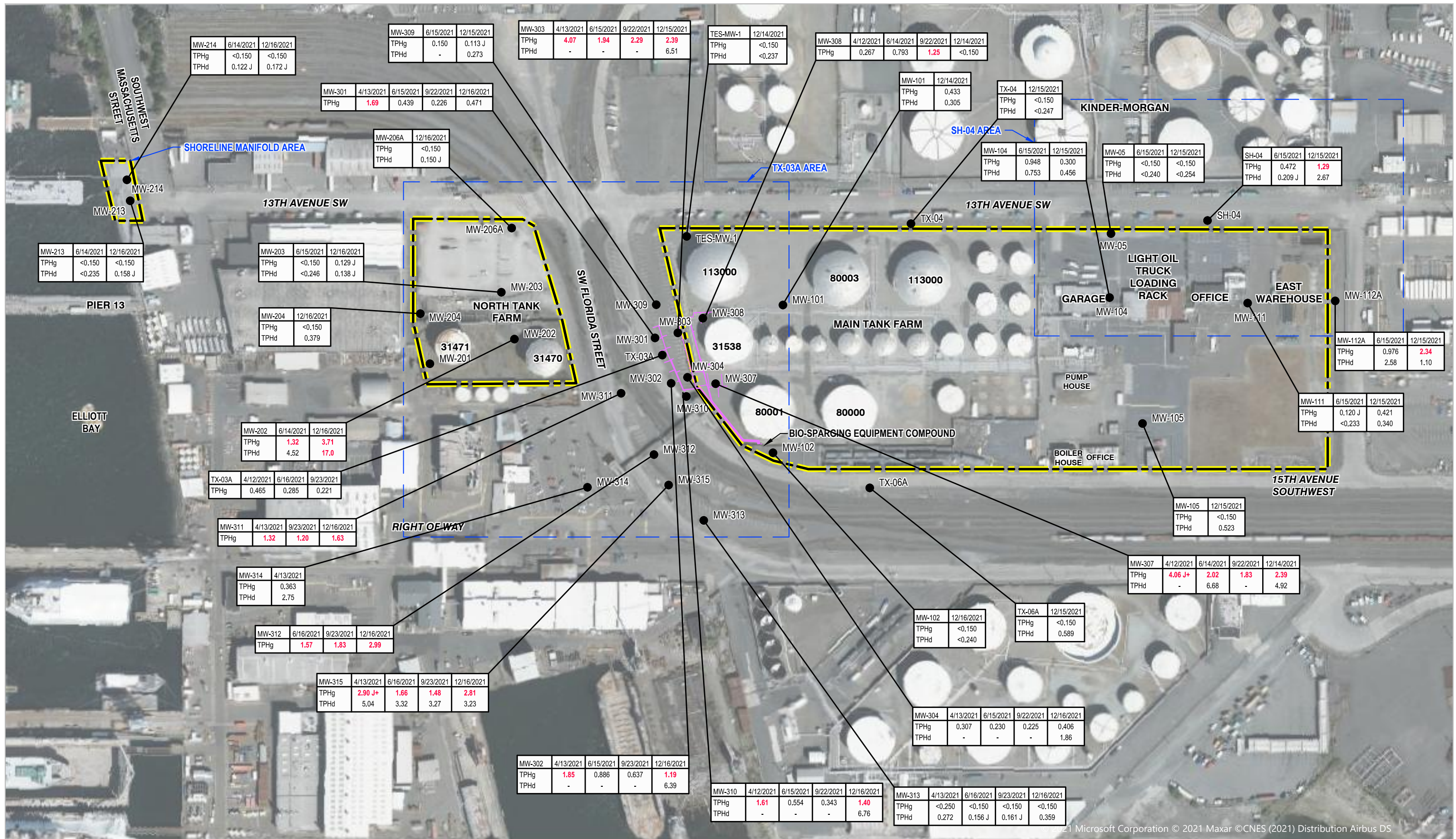


SHELL DISTRIBUTION TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

**TX-03A AREA
GROUNDWATER SURFACE
CONTOUR MAP - 12/14/2021 (4Q2021)**

Project No. 11218519
Date February 2022

FIGURE 6



LEGEND

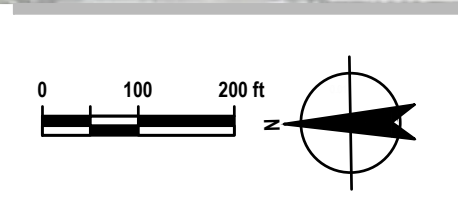
- SHELL PROPERTY LINE
- MW-214 MONITORING WELL LOCATION
- BIO-SPARING LINE

MW-104	6/30/2020	12/14/2020
TPHd	0.914	-
TPHg	1.02	0.487

--- SAMPLE LOCATION
--- SAMPLE DATE
--- RESULT (mg/L)
--- PARAMETER

NOTES:

- RESULTS ARE IN MILLIGRAMS PER LITER (mg/L)
- RED INDICATES DETECTED CONCENTRATIONS GREATER THAN CLEANUP LEVEL
- TPHg CLEANUP LEVEL = 1 mg/L
- TPHd CLEANUP LEVEL = 10 mg/L
- < NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT
- NOT ANALYZED
- J REPORTED VALUE IS ESTIMATED

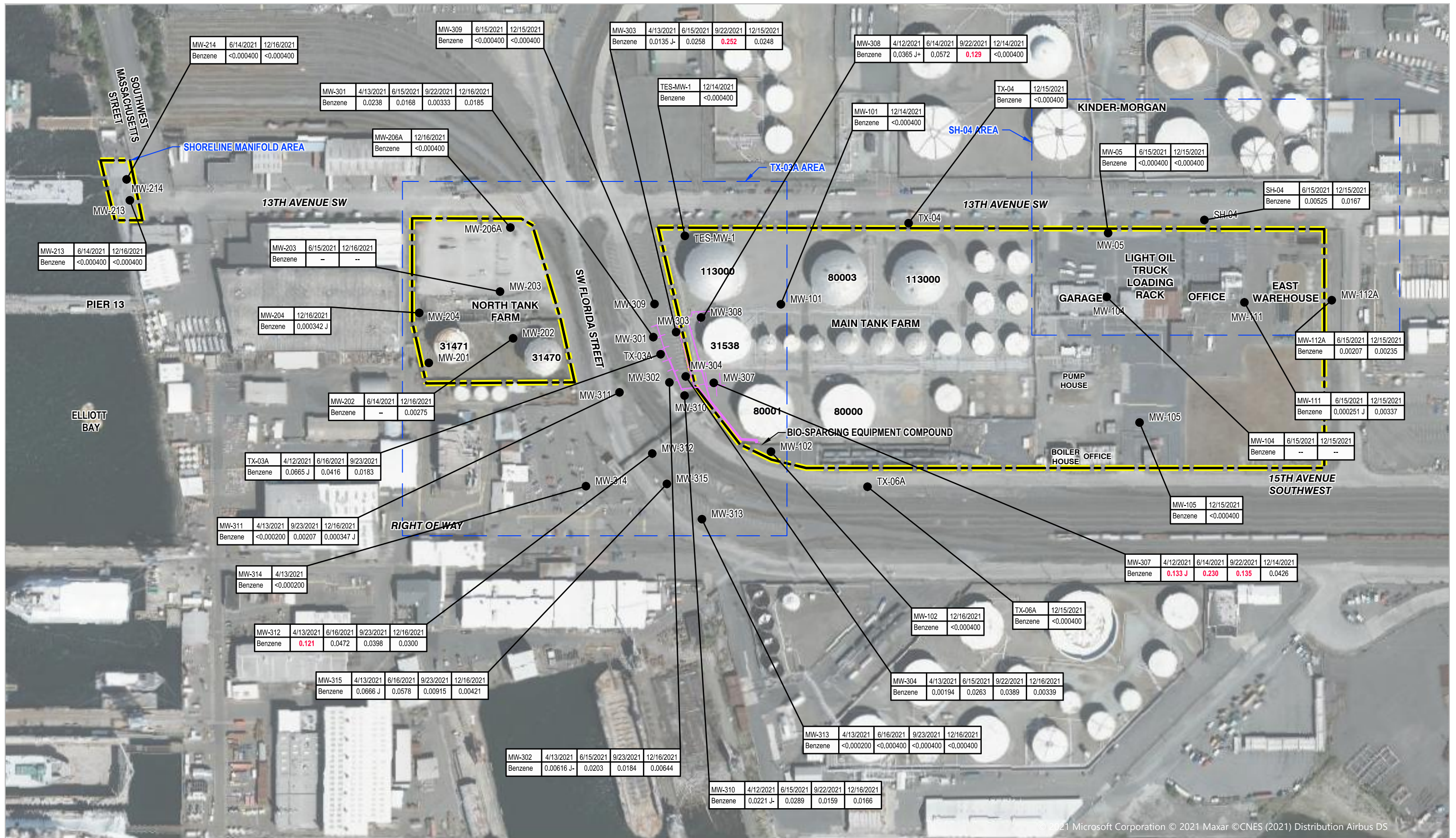


SHELL DISTRIBUTION TERMINAL
2555 13TH AVENUE SW
SEATTLE, WASHINGTON

GASOLINE AND DIESEL CONCENTRATIONS - 2021

Project No. 11218519
Date February 2022

FIGURE 7



LEGEND

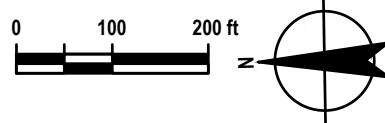
- SHELL PROPERTY LINE
- MW-214 ● MONITORING WELL LOCATION
- BIO-SPARGING LINE

MW-104	6/30/2020	12/14/2020	
Benzene	1.02	0.487	

SAMPLE LOCATION
SAMPLE DATE
RESULT
PARAMETER

NOTES:

- RESULTS ARE IN MILLIGRAMS PER LITER (mg/L)
- RED INDICATES DETECTED CONCENTRATIONS GREATER THAN CLEANUP LEVEL
- BENZENE CLEANUP LEVEL = 0.071 mg/L
- < NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT
- -- NOT ANALYZED
- J REPORTED VALUE IS ESTIMATED



SHELL DISTRIBUTION TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

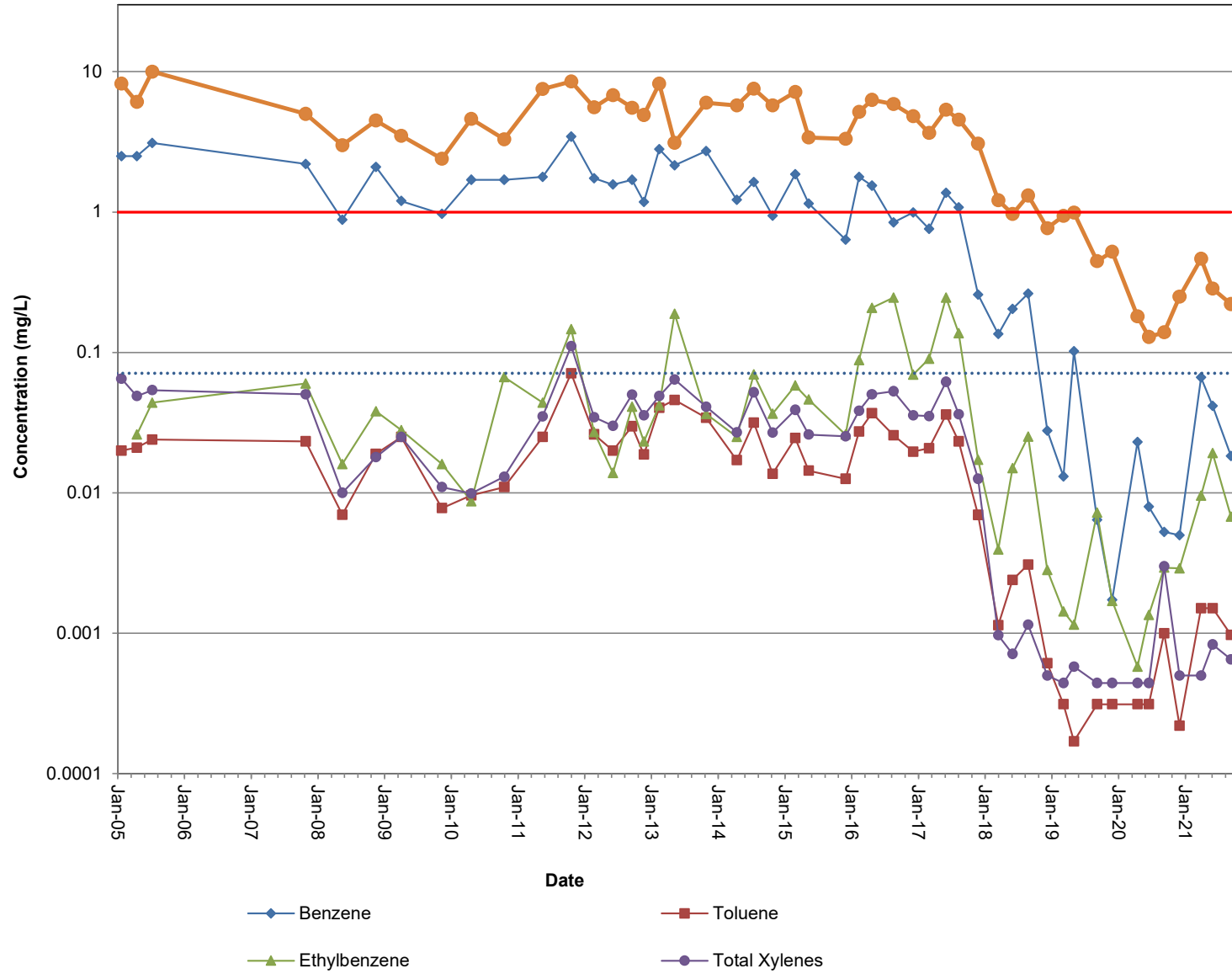
Project No. 11218519
Date February 2022

BENZENE CONCENTRATIONS - 2021

FIGURE 8

Figure 9: TX-03A Area Monitoring Well TX-03A BTEX and Gasoline Concentrations

Shell - Harbor Island Terminal



Appendices

Appendix A

Field Sampling Data Sheets

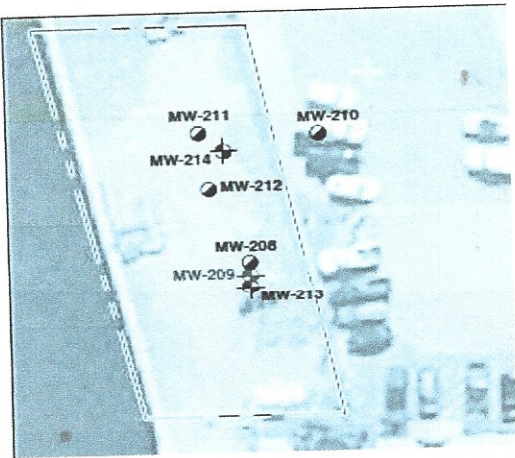
Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
 SAP: 357032
 PlaNet ID: MIGUS357032
 Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: Joe Lewandowski

Date: 01/21/24

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208	0835	—	4.27	
NW-210	0848	4.9	6.96	NO SOCK IN IN WELL, PUT IN NEW ONE IN.
MW-211	0842	—	4.82	
MW-212	0839	—	5.63	



Monitoring Well Gauging Field Log - Shoreline

Date: 2/16/21
Job No:
SAP:
Incident No 300036
Location: 2555 13th Ave SW, Seattle (Harbor Island Terminal)
Personnel:

Well ID	Time Gauged	Depth to Water	Depth to Product	Comments
MW-208	0749	3.69	—	
MW-210	0810	5.83	4.92	Absorbant sock / SOCK REPLACED
MW-211	0755	4.18	—	
MW-212	0802	4.25	—	Absorbant sock

Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: JOE LEWANDOWSKI

Date: 03/23/2021

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208	0755	—	4.53	
NW-210	0800	6.11	6.57	CHANGED SOCK
MW-211	0805	—	5.37	
MW-212	0810	—	5.74	



4Q Groundwater Monitoring Program Field Form
Shell Harbor Island Terminal
Seattle, Washington

Well ID	4th Quarter Program					Total Depth (ft bgs)	Screened Interval (ft bgs)	Comments (note if absorbant sock is changed)
	Date Gauged	Time Gauged	Depth to Water	Depth to Product	Sample Analytes			
TX-03A Area - North Tank Farm								
MW-201	4/12	0850	13.74	--	BTEX, Gx, Dx	15	5.0 - 14.5	
MW-202	4/12	0845	13.15	--	BTEX, Gx, Dx, NAP	15	5.0 - 14.5	
MW-203	4/12	0855	7.13	--	Gx, Dx, NAP	15	5.0 - 14.5	
MW-204	4/12	0840	10.71	--	BTEX, Gx, Dx	15	5.0 - 14.5	
MW-206A	4/12	0858	7.20	--	BTEX, Gx, Dx	15	5.0 - 14.5	
TX-03A Area - Excluding North Tank Farm								
MW-101	4/12	1120	10.20	--	BTEX, Gx, Dx	15	5.0 - 14.5	
MW-102	4/12	1100	7.77	--	BTEX, Gx, Dx	15	5.0 - 14.5	
MW-301	4/12	1020	5.26	--	BTEX, Gx	15	5.0 - 15.0	
MW-302	4/12	1210	5.67	--	BTEX, Gx, Dx, NAP	15	5.0 - 15.0	Parked over 4/12
MW-303	4/12	1015	5.33	--	BTEX, Gx, Dx	15	5.0 - 15.0	
MW-304	4/12	1010	5.42	--	BTEX, Gx, Dx, NAP	15	5.0 - 15.0	
MW-307	4/12	1135	8.10	--	BTEX, Gx, Dx, NAP	15	5.0 - 15.0	
MW-308	4/12	1130	8.00	--	BTEX, Gx, NAP	15	5.0 - 15.0	
MW-309	4/12	1000	5.42	--	BTEX, Gx, Dx	15	5.0 - 15.0	
MW-310	4/12	1005	6.41	--	BTEX, Gx, Dx, NAP	15	5.0 - 15.0	
MW-311	4/12	1045	7.68	--	BTEX, Gx, NAP	15	5.0 - 15.0	
MW-312	4/12	1040	7.31	--	BTEX, Gx, NAP	15	5.0 - 15.0	
MW-313	4/12	1030	5.96	--	BTEX, Gx, Dx	15	5.0 - 15.0	
MW-314	4/12	0905	7.13	--	BTEX, Gx, Dx	15	5.0 - 15.0	Parked over 4/12
MW-315	4/12	1035	7.52	--	BTEX, Gx, Dx	15	5.0 - 15.0	
TES-MW-1	4/12	1125	8.79	--	BTEX, Gx, Dx	18	3.0 - 18.0	
TX-03A	4/12	1350	5.12	--	BTEX, Gx, Dx, NAP	16	6.0 - 16.0	Parked over in morning 4/12
SH-04 Area								
MW-05	4/12	0940	5.40	--	BTEX, Gx, Dx	15	5.0 - 15.0	
MW-111	4/12	0930	4.46	--	BTEX, Gx, Dx	15	5.0 - 14.5	
MW-112A	4/12	0915	6.11	--	BTEX, Gx, Dx	15	5.5 - 15.0	
SH-04	4/12	0905	9.18	--	BTEX, Gx, Dx	16	6.0 - 16.0	
MW-104	4/12	0935	5.30	--	Total lead, Gx, Dx	15	5.0 - 14.5	
Shoreline Manifold Area								
MW-105	4/12	0935	4.55	--	Total lead, BTEX, Gx, Dx	15	5.0 - 14.5	
TX-04	4/12	0945	7.69	--	BTEX, Gx, Dx	16	6.0 - 16.0	
TX-06A	4/12	0949	3.91	--	BTEX, Gx, Dx	15.8	5.5 - 15.5	
Shoreline Manifold Area								
MW-208	4/12	0820	5.28	--	--	16.5	5.0 - 14.5	
MW-210	4/12	0750	6.42	--	--	15	unknown	Absorbant sock Socks changed 4/12
MW-211	4/12	0808	5.65	--	--	13	5.0 - 13.0	
MW-212	4/12	0814	6.31	--	--	12	unknown	Absorbant sock Socks changed 4/12
MW-213	4/12	0826	6.01	--	BTEX, Gx, Dx, PAHs	30	30.0 - 40.0	
MW-214	4/12	0805	5.87	--	BTEX, Gx, Dx, PAHs	30	30.0 - 40.0	

Monitoring Well Gauging Field Log - Shoreline

Date:

Job No:

SAP:

Incident No 300036

Location: 2555 13th Ave SW, Seattle (Harbor Island Terminal)

Personnel:

Well ID	Time Gauged	Depth to Water	Depth to Product	Comments
MW-208	0820	5.28	—	
MW-210	0750	6.42	6.32	Absorbant sock
MW-211	0808	5.65	—	
MW-212	0814	6.31	—	Absorbant sock

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210412-FK1	Client: GHD
Sampler: FK	Gauging Date: 4/12/21
Well I.D.: MW-301	Well Diameter (in.): \varnothing 3 4 6 8
Total Well Depth (ft.): 14.61	Depth to Water (ft.): 5.26
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSE PRO PLUS

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0800 Flow Rate: 100 mL/MIN Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μ S/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0803	10.4	5.99	330	87	3.56	79.4	300	5.30
0806	10.5	5.99	335	81	3.16	67.9	600	5.34
0809	10.5	5.99	338	78	2.80	57.8	900	5.34
0812	10.6	5.97	342	80	2.63	50.4	1200	5.34
0815	10.6	5.98	345	79	2.48	44.3	1500	5.34
0818	10.6	6.00	346	77	2.34	38.9	1800	5.34
0821	10.6	6.01	347	76	2.26	35.3	2100	5.34

Did well dewater? Yes No Amount actually evacuated: 2100 mL

Sampling Time: 0824 Sampling Date: 4/13/21

Sample I.D.: MW-301 Laboratory: TA

Analyzed for: TPH-G PTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: @ _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210412-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>4/13/21</u>
Well I.D.: <u>MW-302</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>15.02</u>	Depth to Water (ft.): <u>5.67</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVG</u> Grade	Flow Cell Type: <u>YSI Pro DSC</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1212 Flow Rate: 100 mL/min Pump Depth: 10

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1215	13.3	6.47	409	40	2.74	-30.7	300	-5.72
1218	13.3	6.46	409	35	2.15	-35.6	600	-5.75
1221	13.3	6.56	409	27	1.74	-40.8	900	-5.75
1224	13.3	6.52	4110	25	1.51	-45.7	1200	5.75
1227	13.4	6.53	409	25	1.46	-49.0	1500	5.75
1230	13.4	6.53	409	26	1.39	-53.4	1800	5.75

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1233 Sampling Date: 4/13/21

Sample I.D.: MW-302 Laboratory: TA

Analyzed for: TPH-D BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210412-Fk1</u>	Client: <u>GHD</u>
Sampler: <u>Fk</u>	Gauging Date: <u>4/12/21</u>
Well I.D.: <u>Mw-303</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.77</u>	Depth to Water (ft.): <u>5.33</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YST Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0836 Flow Rate: 100 ml/min Pump Depth: 9

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
0839	8.7	6.15	97	32	4.05	20.1	300	5.38
0842	9.0	6.00	97	28	3.66	28.8	600	5.38
0845	9.1	5.95	89	25	3.00	31.9	900	5.38
0848	9.1	5.92	88	25	2.59	33.5	1200	5.38
0851	9.1	5.92	87	26	2.50	34.9	1500	5.38
0854	9.1	5.91	87	26	2.46	36.1	1800	5.38

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 0857 Sampling Date: 4/13/21

Sample I.D.: MW-303 Laboratory: TH

Analyzed for: TPH-C BTEX MTBE TPH-D Other: —

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: Z10412-FK1	Client: GHD
Sampler: FK	Gauging Date: 4/12/21
Well I.D.: Mw-304	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 14.70	Depth to Water (ft.): 5.42
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: **2" Grundfos Pump** **Peristaltic Pump** Bladder Pump
 Sampling Method: **Dedicated Tubing** New Tubing Other
 Start Purge Time: **0725** Flow Rate: **100 ml/min** Pump Depth: **9**

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0728	8.5	6.09	97	30	3.84	121.3	300	5.47
0731	8.9	6.04	96	31	3.77	109.2	600	5.47
0734	8.8	6.04	94	31	3.24	98.6	900	5.47
0737	8.9	6.03	93	32	2.80	88.2	1200	5.47
0740	8.9	6.01	92	33	2.67	84.0	1500	5.47
0743	9.0	6.00	92	33	2.60	79.8	1800	5.47

Did well dewater? Yes No Amount actually evacuated: **1800 ml**

Sampling Time: **0746** Sampling Date: **4/13/21**

Sample I.D.: **Mw-304** Laboratory: **TA**

Analyzed for: **(TPH-C)** **(BTEX)** MTBE TPH-D Other: **—**

Equipment Blank I.D.: **@** Time Duplicate I.D.: **—**

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210412-FH1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>4/12/21</u>
Well I.D.: <u>MW-307</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>17.50</u>	Depth to Water (ft.): <u>8.10</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(VC)</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1222 Flow Rate: 100 ml/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1225	11.2	6.43	290	40	3.71	-2.1	200	8.34
1228	11.1	6.44	286	45	2.89	-22.0	600	8.40
1231	11.3	6.45	283	61	2.36	-39.9	900	8.40
1234	11.2	6.45	278	62	2.09	-51.3	1200	8.40
1237	11.2	6.45	277	64	1.99	-55.2	1500	8.40
1240	11.2	6.47	276	65	1.91	-56.9	1800	8.40

Did well dewater? Yes (No) Amount actually evacuated: 1800 ml
 Sampling Time: 1242 Sampling Date: 4/12/21
 Sample I.D.: MW-307 Laboratory: TA
 Analyzed for: (TPH-D) (BTEX) MTBE TPH-D Other: _____
 Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210412-FH1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>4/12/21</u>
Well I.D.: <u>MW-308</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>17.40</u>	Depth to Water (ft.): <u>8.00</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1151 Flow Rate: 100 ml/min Pump Depth: 13

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1154	10.4	6.68	326	44	3.78	175.6	300	8.20
1157	10.3	6.71	325	43	2.96	169.9	600	8.20
1200	10.4	6.73	324	41	2.54	160.2	900	8.20
1203	10.4	6.72	324	40	2.28	149.4	1200	8.20
1206	10.4	6.72	323	39	2.21	145.7	1500	8.20
1209	10.4	6.72	323	38	2.15	142.2	1800	8.20

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1212 Sampling Date: 4/12/21

Sample I.D.: MW-308 Laboratory: TA

Analyzed for: TPH-D BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210412-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>4/12/21</u>
Well I.D.: <u>MW-210</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.60</u>	Depth to Water (ft.): <u>6.41</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1313 Flow Rate: 100 mL/min Pump Depth: 10

Time	Temp. (C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1316	14.1	6.45	412	57	2.84	1.6	300	6.60
1319	14.0	6.49	410	98	2.74	-12.7	600	6.62
1322	13.9	6.49	402	84	2.20	-19.2	900	6.62
1325	13.8	6.44	389	87	1.90	-25.8	1200	6.02
1328	13.9	6.41	387	90	1.78	-27.5	1500	6.62
1331	13.8	6.39	386	92	1.67	-28.8	1800	6.62

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1334 Sampling Date: 4/12/21

Sample I.D.: 1334 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: —

Equipment Blank I.D.: @ Time Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210412-FK1	Client: GHD
Sampler: FK	Gauging Date: 4/12/21
Well I.D.: MW-311	Well Diameter (in.): (2) 3 4 6 8
Total Well Depth (ft.): 15.00	Depth to Water (ft.): 7.68
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Y81 Pro D88

Purge Method: **2" Grundfos Pump** **Peristaltic Pump** Bladder Pump
 Sampling Method: **Dedicated Tubing** New Tubing Other
 Start Purge Time: **0952** Flow Rate: **100 ml/min** Pump Depth: **11**

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0955	12.7	6.67	333	24	2.65	-30.8	300	7.72
0958	12.7	6.69	336	20	2.26	-39.5	600	7.72
1001	12.9	6.72	338	19	2.81	-50.5	900	7.72
1004	12.9	6.74	338	19	2.42	-68.2	1200	7.72
1007	12.9	6.75	337	19	2.34	-74.6	1500	7.72
1010	13.0	6.75	338	18	2.30	-71.2	1800	7.72

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 1800ml
Sampling Time: 1013	Sampling Date: 4/12/21
Sample I.D.: MW-311	Laboratory: TA
Analyzed for: (TPH-G) (BTEX) MTBE TPH-D	Other: —
Equipment Blank I.D.: @	Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210412-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>4/12/21</u>
Well I.D.: <u>MW-312</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>141.90</u>	Depth to Water (ft.): <u>7.31</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1025 Flow Rate: 100 mL / MIN Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1028	12.2	6.66	290	26	3.23	-62.8	300	7.40
1031	12.3	6.72	291	22	2.46	-70.1	600	7.40
1034	12.3	6.73	290	17	2.27	-71.6	900	7.40
1037	12.3	6.74	287	18	2.21	-77.7	1200	7.40
1040	12.3	6.75	286	18	2.15	-80.8	1500	7.40
1043	12.3	6.75	286	17	2.10	-84.4	1800	7.40

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1046 Sampling Date: 4/13/21

Sample I.D.: MW-312 Laboratory: TA

Analyzed for: (TPH) (G) (BTEX) MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210412-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>4/12/21</u>
Well I.D.: <u>MW-313</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>13.60</u>	Depth to Water (ft.): <u>5.90</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro-DSS</u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1055 Flow Rate: 100 ml/min Pump Depth: 9

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1058	12.6	6.80	248	76	2.06	-75.1	300	6.00
1101	12.8	6.80	250	64	2.10	-91.3	600	6.00
1104	12.8	6.85	249	53	2.16	-70.0	900	6.00
1107	12.9	6.82	249	52	2.07	-69.8	1200	6.00
1110	12.9	6.85	250	48	2.02	-69.0	1500	6.00

Did well dewater? Yes No Amount actually evacuated: 1300

Sampling Time: 1113 Sampling Date: 4/13/21

Sample I.D.: MW313 Laboratory: TH

Analyzed for: B B B TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210412-FK1	Client: GHD
Sampler: FK	Gauging Date: 4/13/21
Well I.D.: MW-214	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 14.70	Depth to Water (ft.): 7.13
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: YSE Pro PSS

Purge Method: **2" Grundfos Pump** **Peristaltic Pump** Bladder Pump
 Sampling Method: **Dedicated Tubing** New Tubing Other _____
 Start Purge Time: **0912** Flow Rate: **100 ml/min** Pump Depth: **11**

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0915	10.0	6.30	246	90	2.58	30.5	300	7.16
0918	10.3	6.27	250	74	2.40	18.8	300	7.18
0921	10.6	6.46	267	69	2.27	7.0	900	7.20
0924	10.6	6.48	291	57	2.09	-1.4	1200	7.20
0927	10.9	6.52	272	59	2.14	-6.2	1500	7.20
0930	10.7	6.54	272	58	2.02	-7.9	1800	7.20

Did well dewater? Yes **No** Amount actually evacuated: **1800ml**

Sampling Time: **0923** Sampling Date: **4/13/21**

Sample I.D.: **MW-214** Laboratory: **TA**

Analyzed for: **TPH-C** **BTEX** MTBE **TPH-D** Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>Z10412-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>4/17/21</u>
Well I.D.: <u>MW-315</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.90</u>	Depth to Water (ft.): <u>7.52</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1129 Flow Rate: 100 ml/min Pump Depth: 11

Time	Temp. (° or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1122	12.7	6.61	286	26	3.20	-42.8	300	7.78
1125	13.0	6.63	290	24	2.74	-48.8	600	7.78
1138	13.0	6.64	290	21	2.54	-55.8	900	7.78
1141	13.0	6.65	290	23	2.40	60.1	1200	7.78
1144	13.1	6.65	289	22	2.30	65.9	1500	7.78
1147	13.1	6.65	289	22	2.23	68.2	1800	7.78

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1150 Sampling Date: 4/17/21

Sample I.D.: MW Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210412-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>4/12/21</u>
Well I.D.: <u>TX-03A</u>	Well Diameter (in.): <u>3</u> 4 6 8
Total Well Depth (ft.): <u>14.72</u>	Depth to Water (ft.): <u>5.12</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro DSS</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1351 Flow Rate: 100 mL / MIN Pump Depth: 9

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1354	11.6	6.23	263	36	3.59	5.6	300	5.16
1357	11.6	6.24	263	37	2.97	4.5	600	5.19
1400	11.6	6.26	261	38	2.47	1.7	900	5.19
1403	11.5	6.26	260	38	2.13	-1.5	1200	5.19
1406	11.6	6.26	260	40	2.04	-4.0	1500	5.19
1409	11.6	6.26	259	40	1.91	-6.2	1800	5.19

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1412 Sampling Date: 4/12/21

Sample I.D.: TX-03A Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Print Bill To Contact Name: **PliaNet Site or Project ID** _____
GSAP Project ID _____
 PO # _____
 STATE ADDRESS: Street and City **WA** State **WA** GRD Project / Task Number: **11218519**
2555 13th Avenue PHONE NO.: **(707) 523-1010** E-MAIL: **jacquelyn.england@ghd.com**
 EDP DELIVERABLE TO (Name, Company, Office Location): **Jacquelyn England, GHD, Santa Rosa**
 SAMPLER NAME(S) (Print): **Foster Koetzel**

LOG CODE: **BTSS**
 1680 Rogers Ave, San Jose, CA, 95112
 PROJECT CONTACT (Hardcopy or PDF Report to): **Jacquelyn England**
 TELEPHONE: **(707) 523-1010** FAX: **jacquelyn.england@ghd.com**
 TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 LA - RWQCB REPORT FORMAT UST AGENCY: _____
 DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____
 TEMPERATURE ON RECEIPT C° Cooler #1 _____ Cooler #2 _____ Cooler #3 _____

SPECIAL INSTRUCTIONS OR NOTES:
 SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED
 PROVIDE LEDD DISK

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	UNIT COST	NON-UNIT COST	FIELD NOTES:
	DATE	TIME	HCL	HN03		H2SO4	NONE	OTHER				
	MW-301	4/13	0829	GW	4				4			
	MW-303	4/13	0957	GW	4				4			
	MW-304	4/13	0746	GW	4				4			
	MW-307	4/12	1243	GW	4				4			
	MW-308	4/12	1212	GW	4				4			
	MW-310	4/12	1334	GW	4				4			
	MW-311	4/13	1013	GW	4				4			
	MW-312	4/13	1046	GW	4				4			
	MW-313	4/13	1113	GW	6				6			
	MW-314	4/13	0933	GW	6				6			
	Reinquished by (Signature)		4/13/21		Received by (Signature)			Date: 4/13/21		Time: 1405		
	Reinquished by (Signature)		1400		Received by (Signature)			Date: 4/13/21		Time: 1405		
	Reinquished by (Signature)				Received by (Signature)			Date:		Time:		

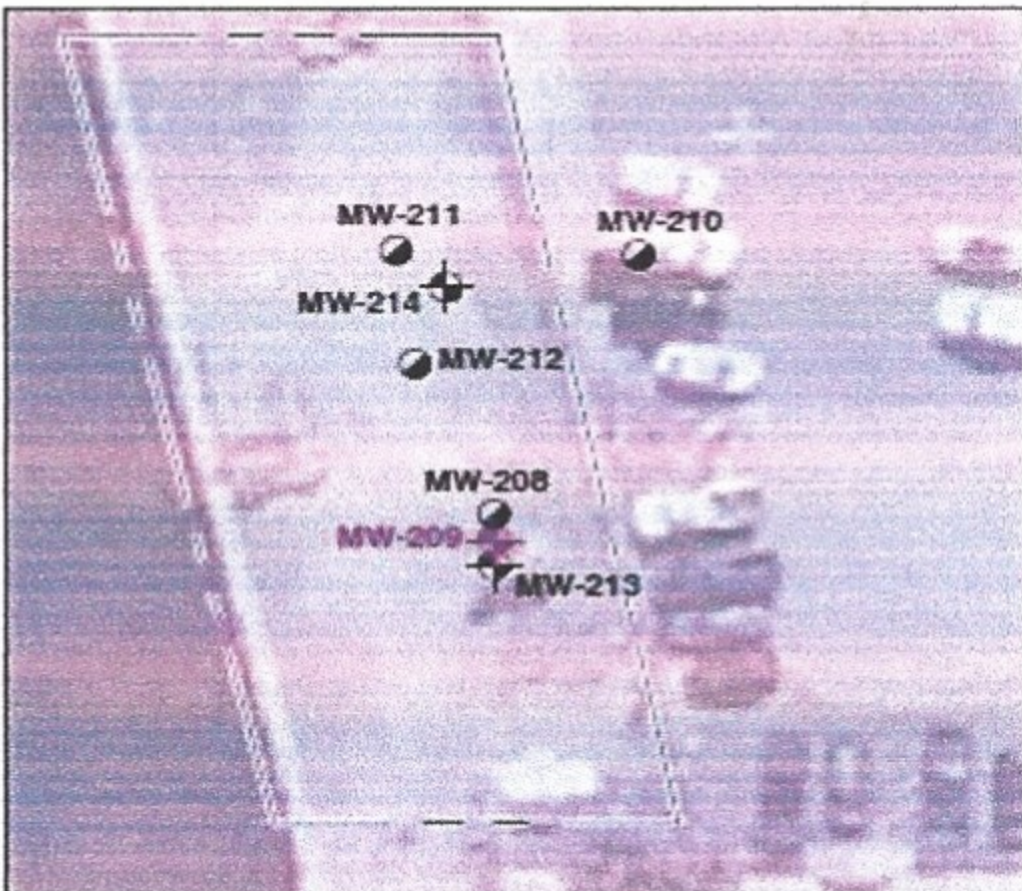
Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
 SAP: 357032
 PlaNet ID: MIGUS357032
 Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: JOE LEWANDOWSKI

Date: 05/12/21

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208		—	5.54	
NW-210		6.57	6.61	Full sock
MW-211		—	5.86	
MW-212		—	6.21	SHEEN, PRODUCT ON SOCK



2Q Groundwater Monitoring Program Field Form
Shell Harbor Island Terminal
Seattle, Washington

Well ID	2nd Quarter Program					Total Depth (ft bgs)	Screened Interval (ft bgs)	Comments (note if absorbant sock is changed)
	Date Gauged	Time Gauged	Depth to Water	Depth to Product	Sample Analytes			
TX-03A Area - North Tank Farm								
MW-201	6/14	0907	14.32	--	--	15	5.0 - 14.5	
MW-202	6/14	0908	13.75	--	Gx, Dx	15	5.0 - 14.5	
MW-203	6/14	0914	7.75	--	Gx, Dx	15	5.0 - 14.5	
MW-204	6/14	0927	11.27	--	--	15	5.0 - 14.5	
MW-206A	6/14	0918	9.45	--	--	15	5.0 - 14.5	
TX-03A Area - Excluding North Tank Farm								
MW-101	6/14	0740	11.05	--	--	15	5.0 - 14.5	
MW-102	6/14	0758	8.47	--	--	15	5.0 - 14.5	
MW-301	6/14	0750	5.95	--	BTEX, Gx	15	5.0 - 15.0	
MW-302	6/15	1245	6.28	--	BTEX, Gx	15	5.0 - 15.0	PARKED OVER 6/14
MW-303	6/14	0946	6.00	--	BTEX, Gx	15	5.0 - 15.0	
MW-304	6/14	0954	6.05	--	BTEX, Gx	15	5.0 - 15.0	
MW-307	6/14	0752	8.80	--	BTEX, Gx, Dx	15	5.0 - 15.0	
MW-308	6/14	0748	8.65	--	BTEX, Gx	15	5.0 - 15.0	
MW-309	6/14	0943	6.10	--	BTEX, Gx	15	5.0 - 15.0	
MW-310	6/14	0958	6.98	--	BTEX, Gx	15	5.0 - 15.0	
MW-311					BTEX, Gx	15	5.0 - 15.0	UNABLE TO ACCESS, PARKED OVER
MW-312	6/14	0933	7.80	--	BTEX, Gx	15	5.0 - 15.0	
MW-313	6/14	0920	6.27	--	BTEX, Gx, Dx	15	5.0 - 15.0	
MW-314					BTEX, Gx, Dx	15	5.0 - 15.0	UNABLE TO ACCESS, PARKED OVER
MW-315	6/14	0925	7.90	--	BTEX, Gx, Dx	15	5.0 - 15.0	
TES-MW-1	6/14	0744	9.35	--	--	18	3.0 - 18.0	
TX-03A	6/14	0958	5.72	--	BTEX, Gx	16	6.0 - 16.0	
SH-04 Area								
MW-05	6/14	0725	6.27	--	BTEX, Gx, Dx	15	5.0 - 15.0	
MW-111	6/14	0715	5.10	--	BTEX, Gx, Dx	15	5.0 - 14.5	
MW-112A	6/14	0733	6.40	--	BTEX, Gx, Dx	15	5.5 - 15.0	
SH-04	6/14	0729	9.60	--	BTEX, Gx, Dx	16	6.0 - 16.0	
MW-104	6/14	0720	6.17	--	Total lead, Gx, Dx	15	5.0 - 14.5	
Shoreline Manifold Area								
MW-208	6/14	0825	4.97	--	--	16.5	5.0 - 14.5	
MW-210	6/14	0840	6.15	--	--	15	unknown	Absorbant sock - SOCK CHANGED
MW-211	6/14	0820	5.24	--	--	13	5.0 - 13.0	
MW-212	6/14	0835	5.62	--	--	12	unknown	Absorbant sock - SOCK CHANGED
MW-213	6/14	0830	5.45	--	BTEX, Gx, Dx, PAHs	30	30.0 - 40.0	
MW-214	6/14	0815	5.63	--	BTEX, Gx, Dx, PAHs	30	30.0 - 40.0	

Notes:

- BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B
- ft bgs = feet below ground surface
- PAHs = polycyclic aromatic hydrocarbons by EPA Method 8270C-SIM
- Total lead by EPA Method 6020
- TPH-Gx = total petroleum hydrocarbons as gasoline by NWTPH-Gx
- TPH-Dx = total petroleum hydrocarbons as diesel by NWTPH-Dx

Monitoring Well Gauging Field Log - Shoreline
Shell Harbor Island Terminal
Seattle, Washington

Date Gauged:

Personnel:

Well ID	Time Gauged	Depth to Water	Depth to Product	Comments
MW-208	0825	4.97	—	
MW-210	0840	6.15	—	Absorbant sock* - socks changed
MW-211	0820	5.24	—	
MW-212	0835	5.62	—	Absorbant sock* - socks changed

* Please specify if the absorbant sock was changed.

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-05</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>18.85</u>	Depth to Water (ft.): <u>6.27</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0833 Flow Rate: 100 mL/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
<u>0836</u>	<u>8.77</u>	<u>6.90</u>	<u>272</u>	<u>28</u>	<u>0.89</u>	<u>47.8</u>	<u>300</u>	<u>6.40</u>
<u>0839</u>	<u>8.91</u>	<u>6.87</u>	<u>273</u>	<u>23</u>	<u>0.84</u>	<u>40.4</u>	<u>600</u>	<u>6.40</u>
<u>0842</u>	<u>9.15</u>	<u>6.81</u>	<u>275</u>	<u>22</u>	<u>0.92</u>	<u>36.6</u>	<u>900</u>	<u>6.40</u>
<u>0845</u>	<u>9.15</u>	<u>6.80</u>	<u>275</u>	<u>22</u>	<u>0.99</u>	<u>31.9</u>	<u>1200</u>	<u>6.40</u>
<u>0848</u>	<u>9.16</u>	<u>6.77</u>	<u>276</u>	<u>22</u>	<u>0.99</u>	<u>29.8</u>	<u>1500</u>	<u>6.40</u>

Did well dewater? Yes No Amount actually evacuated: 1500 mL

Sampling Time: 0851 Sampling Date: 6/15/21

Sample I.D.: MW-05 Laboratory: TA

Analyzed for: TPH-N BTEX MTBE TPH-N Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>260614-Fk1</u>	Client: <u>GHD</u>
Sampler: <u>Fk</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-104</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.70</u>	Depth to Water (ft.): <u>6.17</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0804 Flow Rate: 100 ml/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<u>0807</u>	<u>10.68</u>	<u>7.49</u>	<u>334</u>	<u>8</u>	<u>0.66</u>	<u>76.7</u>	<u>300</u>	<u>6.22</u>
<u>0810</u>	<u>10.78</u>	<u>7.33</u>	<u>321</u>	<u>12</u>	<u>0.85</u>	<u>62.6</u>	<u>600</u>	<u>6.22</u>
<u>0813</u>	<u>10.86</u>	<u>7.28</u>	<u>316</u>	<u>6</u>	<u>1.40</u>	<u>59.4</u>	<u>900</u>	<u>6.22</u>
<u>0816</u>	<u>10.95</u>	<u>7.24</u>	<u>311</u>	<u>6</u>	<u>1.77</u>	<u>60.6</u>	<u>1200</u>	<u>6.22</u>
<u>0819</u>	<u>11.00</u>	<u>7.21</u>	<u>310</u>	<u>6</u>	<u>1.76</u>	<u>60.1</u>	<u>1500</u>	<u>6.22</u>
<u>0822</u>	<u>11.03</u>	<u>7.20</u>	<u>309</u>	<u>6</u>	<u>1.74</u>	<u>58.9</u>	<u>1800</u>	<u>6.22</u>

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 0825 Sampling Date: 6/15/21

Sample I.D.: MW-104 Laboratory: TA

Analyzed for: TPH-C BTEX MTBE TPH-P Other: Total Lead

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-111</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.62</u>	Depth to Water (ft.): <u>5.10</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0731 Flow Rate: 100 ml/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
<u>0734</u>	<u>9.57</u>	<u>7.47</u>	<u>129</u>	<u>13</u>	<u>1.18</u>	<u>97.1</u>	<u>300</u>	<u>5.12</u>
<u>0737</u>	<u>9.77</u>	<u>6.97</u>	<u>112</u>	<u>16</u>	<u>0.93</u>	<u>89.4</u>	<u>600</u>	<u>5.14</u>
<u>0740</u>	<u>10.02</u>	<u>6.94</u>	<u>102</u>	<u>29</u>	<u>0.88</u>	<u>84.4</u>	<u>900</u>	<u>5.14</u>
<u>0743</u>	<u>10.27</u>	<u>6.91</u>	<u>109</u>	<u>21</u>	<u>0.99</u>	<u>80.6</u>	<u>1200</u>	<u>5.14</u>
<u>0746</u>	<u>10.29</u>	<u>6.90</u>	<u>109</u>	<u>22</u>	<u>1.03</u>	<u>76.8</u>	<u>1500</u>	<u>5.14</u>
<u>0749</u>	<u>10.31</u>	<u>6.87</u>	<u>110</u>	<u>22</u>	<u>1.05</u>	<u>73.4</u>	<u>1800</u>	<u>5.14</u>

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 0752 Sampling Date: 6/15/21

Sample I.D.: MW-111 Laboratory: TA

Analyzed for: PH-G BTEX MTBE PH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210614-Fk1	Client: GHD
Sampler: Fk	Gauging Date: 6/19/21
Well I.D.: MW-112A	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 14.60	Depth to Water (ft.): 6.40
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 558

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0931 Flow Rate: 100 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0934	9.52	6.72	361	4	0.69	52.9	300	6.40
0937	9.43	6.68	345	6	0.70	45.4	600	6.40
0940	9.64	6.63	341	3	0.86	38.6	900	6.40
0943	9.61	6.58	339	3	0.92	33.2	1200	6.40
0946	9.58	6.56	338	4	0.89	31.4	1500	6.40

Did well dewater? Yes No Amount actually evacuated: 1500 mL

Sampling Time: 0949 Sampling Date: 6/15/21

Sample I.D.: MW-112A Laboratory: TA

Analyzed for: TPH-C BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>AECOM</u>
Sampler: <u>Fk</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-202</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>21.72</u>	Depth to Water (ft.): <u>13.75</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1345 Flow Rate: 100 mL/min Pump Depth: 17

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
1348	7.66	7.21	284	53	0.75	194.2	300	14.00
1351	7.80	7.27	261	48	0.77	185.1	600	14.00
1354	7.98	6.81	256	39	0.99	179.2	900	14.00
1357	8.12	6.69	258	32	1.58	174.9	1200	14.00
1400	8.11	6.66	254	34	1.55	172.3	1500	14.00
1403	8.10	6.63	254	34	1.50	170.6	1800	14.00

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>1800 mL</u>
Sampling Time: <u>1406</u>	Sampling Date: <u>6/14/21</u>
Sample I.D.: <u>MW-202</u>	Laboratory: <u>TA</u>
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(Fk)</u> MTBE <u>(TPH-D)</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>GHO</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-203</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.10</u>	Depth to Water (ft.): <u>7.75</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>X51556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1005 Flow Rate: 100 ml/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1008	7.29	6.53	274	465	0.87	37.8	300	8.47
1011	7.70	6.43	277	416	1.22	31.3	600	8.64
1014	7.74	6.41	275	369	1.29	29.4	900	8.75
1017	7.66	6.40	273	412	1.42	26.0	1200	8.83
1020	7.68	6.36	260	415	1.37	24.1	1500	8.90
1023	7.68	6.33	258	409	1.32	23.2	1800	8.97
1026	7.69	6.33	259	406	1.28	21.6	2100	8.95

Did well dewater? Yes No Amount actually evacuated: 102

Sampling Time: 1029 Sampling Date: 6/15/21

Sample I.D.: MW-203 Laboratory: TA

Analyzed for: TPH-C BTEX MTBE TPH-D Other:

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>AECOM</u>
Sampler: <u>Fk</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-213</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>38.77</u>	Depth to Water (ft.): <u>5.45</u>
Depth to Free Product: <u>—————</u>	Thickness of Free Product (feet): <u>—————</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1212 Flow Rate: 100 ml/min Pump Depth: 21

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1215	7.15	8.62	17450	5	0.99	94.0	300	5.45
1218		8.19	17410	4	0.70	97.8	600	5.45
1221	7.13	8.00	17402	4	0.59	100.6	900	5.45
1224	7.13	7.94	17417	4	0.53	110.8	1200	5.45
1227	7.14	7.90	17422	3	0.49	113.7	1500	5.45
1230	7.18	7.89	17427	3	0.47	113.6	1800	5.45

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1233 Sampling Date: 6/14/21

Sample I.D.: MW-213 Laboratory: TA

Analyzed for: (TPH-C) (BTEX) MTBE (TPH-D) Other: PAH'S

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK1</u>	Client: <u>AECOM</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-214</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>39.48</u>	Depth to Water (ft.): <u>5.63</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other
 Start Purge Time: 1250 Flow Rate: 100 mL/min Pump Depth: 22

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>μS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1253	8.57	8.06	1678	2	2.07	110.6	300	5.82
1256	8.47	8.04	1217	3	2.00	98.4	600	5.90
1259	8.35	7.74	1891	3	1.84	91.6	900	5.96
1301	8.26	7.55	2106	3	1.60	85.4	1200	6.00
1304	8.22	7.49	2111	2	1.51	80.6	1500	6.04
1307	8.21	7.47	2117	2	1.49	78.3	1800	6.07

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1310 Sampling Date: 6/14/21

Sample I.D.: MW-214 Laboratory: TA

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-L) Other: PAH'S

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/19/21</u>
Well I.D.: <u>MW-301</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.95</u>	Depth to Water (ft.): <u>5.95</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1118 Flow Rate: 100 ml/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1121	11.09	7.26	706	40	1.48	62.3	300	5.95
1124	11.00	7.15	708	26	1.41	54.6	600	5.95
1127	11.33	7.10	712	29	1.29	50.0	900	5.95
1130	11.40	7.04	712 722	28	1.59	44.8	1200	5.95
1133	11.44	7.01	725	27	1.65	40.3	1500	5.95
1136	11.44	7.00	726	27	1.78	37.3	1800	5.95

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1139 Sampling Date: 6/15/21

Sample I.D.: MW-301 Laboratory: TA

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/15/21</u>
Well I.D.: <u>MW-302</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>15.00</u>	Depth to Water (ft.): <u>6.28</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>ve</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1245 Flow Rate: 100 ml/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1248	10.95	7.31	565	31	0.42	20.6	300	6.28
1251	11.65	7.28	574	28	0.36	13.0	600	6.28
1254	10.51	7.24	537	27	0.40	9.5	900	6.28
1257	10.55	7.22	539	27	0.40	7.2	1200	6.28
1300	10.57	7.21	538	26	0.45	6.0	1500	6.28

Did well dewater? Yes No Amount actually evacuated: 1500 mL

Sampling Time: 1303 Sampling Date: 6/15/21

Sample I.D.: MW-302 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-303</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.70</u>	Depth to Water (ft.): <u>6.00</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1148 Flow Rate: 100 ml/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1151	12.97	7.04	443	23	0.89	26.1	300	6.00
1154	16.00	6.97	337	12	0.99	19.4	600	6.00
1157	9.64	6.83	324	12	1.21	14.4	900	6.00
1200	9.25	6.72	364	11	1.34	10.1	1200	6.00
1203	9.29	6.68	361	12	1.36	8.0	1500	6.00
1206	9.33	6.65	368	12	1.32	6.7	1800	6.00

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1800 ml</u>
Sampling Time: <u>1209</u>	Sampling Date: <u>6/15/21</u>
Sample I.D.: <u>MW-303</u>	Laboratory: <u>TA</u>
Analyzed for: <u>(TPH-C)</u> <u>(BTEX)</u> MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>GHD</u>
Sampler: <u>Fk</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-304</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.70</u>	Depth to Water (ft.): <u>6.05</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1218 Flow Rate: 100 ml/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1221	10.10	6.62	243	15	0.58	80.4	300	6.05
1224	10.10	6.53	234	12	0.73	73.6	600	6.05
1227	9.91	6.50	229	12	0.86	65.3	900	6.05
1230	9.86	6.50	225	9	0.99	61.9	1200	6.05
1233	9.80	6.49	225	8	1.09	58.3	1500	6.05
1236	9.80	6.49	224	8	1.12	55.5	1800	6.05

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1239 Sampling Date: 6/15/21

Sample I.D.: MW-304 Laboratory: TA

Analyzed for: TPH-C BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK1</u>	Client: <u>AECOM</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-307</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>17.49</u>	Depth to Water (ft.): <u>8.80</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1112 Flow Rate: 100 ml/min Pump Depth: 13

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>(µS/cm)</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>(ml)</u>)	Depth to Water (ft.)
1115	6.73	7.33	357	10	0.89	136.7	300	9.03
1118	6.90	7.39	358	10	0.64	138.7	600	9.10
1121	6.80	7.40	351	9	0.56	144.1	900	9.10
1124	6.80	7.37	350	10	0.53	151.2	1200	9.10
1127	6.84	7.36	352	11	0.52	153.7	1500	9.10
1130	6.85	7.35	352	11	0.51	156.3	1800	9.10

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1133 Sampling Date: 6/14/21

Sample I.D.: MW-307 Laboratory: TA

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>AECOM</u>
Sampler: <u>Fk</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-308</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>19.42</u>	Depth to Water (ft.): <u>8.65</u>
Depth to Free Product: <u>—————</u>	Thickness of Free Product (feet): <u>—————</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1041 Flow Rate: 100 mL/min Pump Depth: 13

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>(µS/cm)</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1044	7.45	7.52	651	22	1.99	136.7	300	8.80
1047	7.30	7.17	635	16	1.67	147.4	600	8.80
1050	7.30	6.93	617	12	1.51	150.2	900	8.80
1053	7.26	6.95	605	11	1.32	141.8	1200	8.80
1056	7.30	6.96	601	11	1.23	139.1	1500	8.80
1059	7.31	6.97	600	11	1.15	137.7	1800	8.80

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1102 Sampling Date: 6/14/21

Sample I.D.: MW-308 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: —————

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: —————

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-309</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.65</u>	Depth to Water (ft.): <u>6.10</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1045 Flow Rate: 100 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1048	11.04	6.83	303	304	0.50	44.7	300	6.10
1051	11.36	6.72	306	316	0.45	36.8	600	6.10
1054	11.24	6.68	311	194	0.49	30.4	900	6.10
1057	11.28	6.59	317	114	0.56	28.0	1200	6.10
1100	11.30	6.56	319	108	0.59	25.5	1500	6.10
1103	11.32	6.54	320	67	0.55	24.1	1800	6.10
1106	11.33	6.54	321	63	0.54	23.0	2100	6.10
1109	11.34	6.52	322	68	0.59	23.4	2400	6.10

Did well dewater? Yes No Amount actually evacuated: 2400 mL

Sampling Time: 1112 Sampling Date: 6/15/21

Sample I.D.: MW-309 Laboratory: TA

Analyzed for: TPH-C BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-310</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.56</u>	Depth to Water (ft.): <u>6.98</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1310 Flow Rate: 100 ml/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1313	12.04	7.14	676	38	0.39	60.1	300	7.27
1316	12.11	7.08	656	52	0.36	54.7	600	7.27
1319	12.14	7.06	613	56	0.47	50.3	900	7.27
1322	12.13	7.06	575	54	0.58	49.2	1200	7.27
1325	12.13	7.05	573	54	0.67	47.8	1500	7.27
1328	12.16	7.05	571	53	0.64	45.9	1800	7.27

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1800 mL</u>
Sampling Time: <u>1331</u>	Sampling Date: <u>6/15/21</u>
Sample I.D.: <u>MW-310</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210614-FK1	Client: GHD
Sampler: FK	Gauging Date: 6/14/2
Well I.D.: MW-311	Well Diameter (in.): 2 3 4 6 8 <u> </u>
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u> </u> PVC <u> </u> Grade	Flow Cell Type: <u> </u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ ~~Bladder Pump~~
 Sampling Method: Dedicated Tubing ~~New Tubing~~ ~~Other~~
 Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
UNABLE TO ACCESS / PARKED OVER. NO SAMPLE TAKEN								

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u> </u>
Sampling Time: <u> </u>	Sampling Date: <u> </u>
Sample I.D.: <u> </u>	Laboratory: <u> </u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u> </u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-312</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.87</u>	Depth to Water (ft.): <u>7.80</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0832 Flow Rate: 100 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0835	8.81	7.08	480	14	0.71	37.3	300	7.85
0838	8.87	7.01	476	6	0.78	33.2	600	7.85
0841	8.83	6.98	478	4	1.26	26.0	900	7.85
0844	8.63	6.94	473	3	2.13	22.3	1200	7.85
0847	8.68	6.94	475	3	2.10	18.9	1500	7.85
0850	8.65	6.93	476	3	2.05	17.3	1800	7.85

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>1800 mL</u>
Sampling Time: <u>0853</u>	Sampling Date: <u>6/16/21</u>
Sample I.D.: <u>MW-312</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>20614-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-313</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>13.60</u>	Depth to Water (ft.): <u>6.27</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0754 Flow Rate: 100 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>μS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
0757	9.23	7.31	567	144	1.13	61.5	300	6.31
0800	9.40	7.21	469	88	0.89	52.8	600	6.31
0803	9.46	7.30	444	50	0.78	45.6	900	6.31
0806	9.65	7.35	438	41	0.77	37.8	1200	6.31
0809	9.60	7.36	441	39	0.83	33.0	1500	6.31
0812	9.60	7.38	441	38	0.99	30.4	1800	6.31

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 0815 Sampling Date: 6/16/21

Sample I.D.: MW-313 Laboratory: TA

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210614-FK1	Client: GHD
Sampler: FK	Gauging Date: 6/14/14
Well I.D.: MW-314	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: **2" Grundfos Pump** Peristaltic Pump Bladder Pump
 Sampling Method: **Dedicated Tubing** New Tubing Other _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
Unable to Access/Parked over no sample taken								

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>GHD</u>
Sampler: <u>Fk</u>	Gauging Date: <u>6/14/21</u>
Well I.D.: <u>MW-315</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.90</u>	Depth to Water (ft.): <u>7.90</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 586</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other
 Start Purge Time: 0904 Flow Rate: 100 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>(µS/cm)</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>(mL)</u>)	Depth to Water (ft.)
<u>0907</u>	<u>7.94</u>	<u>7.14</u>	<u>504</u>	<u>6</u>	<u>0.82</u>	<u>20.7</u>	<u>300</u>	<u>7.95</u>
<u>0910</u>	<u>7.98</u>	<u>7.07</u>	<u>503</u>	<u>6</u>	<u>1.02</u>	<u>11.1</u>	<u>600</u>	<u>7.95</u>
<u>0913</u>	<u>8.03</u>	<u>6.90</u>	<u>505</u>	<u>4</u>	<u>1.35</u>	<u>6.0</u>	<u>900</u>	<u>7.95</u>
<u>0916</u>	<u>8.05</u>	<u>6.85</u>	<u>502</u>	<u>3</u>	<u>1.44</u>	<u>2.7</u>	<u>1200</u>	<u>7.95</u>
<u>0919</u>	<u>8.05</u>	<u>6.81</u>	<u>502</u>	<u>3</u>	<u>1.42</u>	<u>0.4</u>	<u>1500</u>	<u>7.95</u>
<u>0922</u>	<u>8.01</u>	<u>6.79</u>	<u>501</u>	<u>3</u>	<u>1.37</u>	<u>-0.9</u>	<u>1800</u>	<u>7.95</u>

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 0925 Sampling Date: 6/16/21

Sample I.D.: MW-315 Laboratory: TA

Analyzed for: (TPH-C) (BTEX) MTBE (TPH-D) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-FK</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/16/21</u>
Well I.D.: <u>TX-03A</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.69</u>	Depth to Water (ft.): <u>5.72</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0940 Flow Rate: 100 mL/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
<u>0943</u>	<u>9.00</u>	<u>7.76</u>	<u>399</u>	<u>6</u>	<u>1.15</u>	<u>59.0</u>	<u>300</u>	<u>5.72</u>
<u>0946</u>	<u>9.01</u>	<u>7.70</u>	<u>429</u>	<u>4</u>	<u>1.77</u>	<u>51.8</u>	<u>600</u>	<u>5.72</u>
<u>0949</u>	<u>9.03</u>	<u>7.67</u>	<u>412</u>	<u>6</u>	<u>1.48</u>	<u>47.4</u>	<u>900</u>	<u>5.72</u>
<u>0952</u>	<u>9.01</u>	<u>7.64</u>	<u>415</u>	<u>4</u>	<u>1.40</u>	<u>44.1</u>	<u>1200</u>	<u>5.72</u>
<u>0955</u>	<u>8.97</u>	<u>7.62</u>	<u>415</u>	<u>3</u>	<u>1.38</u>	<u>41.0</u>	<u>1500</u>	<u>5.72</u>
<u>0958</u>	<u>9.02</u>	<u>7.60</u>	<u>416</u>	<u>3</u>	<u>1.35</u>	<u>39.3</u>	<u>1800</u>	<u>5.72</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1800 mL</u>
Sampling Time: <u>1001</u>	Sampling Date: <u>6/16/21</u>
Sample I.D.: <u>TX-03A</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: _____	
Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____	

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210614-Fk1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>6/19/21</u>
Well I.D.: FKAW <u>SH-04</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>17.95</u>	Depth to Water (ft.): <u>9.60</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0902 Flow Rate: 100 ml/min Pump Depth: 13

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0905	8.56	7.12	198	9	0.72	81.4	300	9.65
0908	8.67	7.09	198	6	0.74	67.8	600	9.65
0911	8.74	7.05	191	5	0.99	62.3	900	9.65
0914	8.78	7.01	190	6	0.97	59.8	1200	9.65
0917	8.75	7.00	190	6	0.94	57.0	1500	9.65

Did well dewater? Yes No Amount actually evacuated: 1500 mL

Sampling Time: 0920 Sampling Date: 6/15/21

Sample I.D.: ~~FKAW~~ SH-04 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____



LAB (LOCATION)

ACOTEST ()
 CALSCIENCE ()
 TESTAMERICA ()
 Other ()

SCW FDG
 PIPELINE
 RETAIL
 CHEMICALS
 CONSULTANT
 LUBES
 TRANSPORTATION
 OTHER

Print Bill To Contact Name:

PlanNet Site or Project ID

CHECK IF NO INCIDENT # APPLIES
 DATE: 6/14-6/16/21
 PAGE: 1 of 3

Blaine Tech Services, Inc
 ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112
 PROJECT CONTACT (hardcopy or PDF Report to):
 TELEPHONE: (707)523-1010 FAX: jacquelyn.england@ghd.com
 TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 LA - RMQCB REPORT FORMAT JUST AGENCY:

Lab Vendor # Dropdown
 Lab Vendor: Jacquelyn England
 BILL TO CONTACT E-MAIL: jacquelyn.england@ghd.com
 SAMP. CODE: BTSS
 SITE ADDRESS: Street and City
 2555 13th Avenue
 EDP DELIVERABLE TO (Name, Company, Office Location):
 Jacquelyn England, GHD, Santa Rosa (707)523-1010
 STATE: WA
 E-MAIL: jacquelyn.england@ghd.com
 GHD Project / Task Number: 11218519
 AECOM Other ID:

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____
 TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3
 SPECIAL INSTRUCTIONS OR NOTES:

SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED
 PROVIDE LEDD DISK

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.	UNIT COST	REQUESTED ANALYSIS					NON-UNIT COST	FIELD NOTES:	
	DATE	TIME	DATE	TIME		HCL	HNO3	H2SO4	NONE			OTHER	6200C BTEX	NWTPH-DX	300.0 Sulfate	6020A Total Lead			353.2 Nitrate & Nitrite
	MW-202	1406	6/14		W	6					6								
	MW-203	1029	6/15		W	6					6								
	MW-301	1139	6/15		W	4					4								
	MW-302	1303	6/15		W	4					4								
	MW-303	1209	6/15		W	4					4								
	MW-304	1239	6/15		W	4					4								
	MW-307	1139	6/14		W	6					6								
	MW-308	1102	6/14		W	4					4								
	MW-309	1112	6/15		W	4					4								
	MW-310	1331	6/15		W	4					4								
Relinquished by (Signature) 						Received by (Signature) Shipped via FedEx						Date: 6/16/21 Time: 1400							
Relinquished by (Signature)						Received by (Signature)						Date: _____ Time: _____							
Relinquished by (Signature)						Received by (Signature)						Date: _____ Time: _____							



Shell Oil Products US Chain Of Custody Record



LAB (LOCATION)

- ACCUTEST ()
- CALSCIENCE ()
- TESTAMERICA ()
- Other ()

Please Check Appropriate Box:

- SGW FDG
- PIPELINE
- RETAIL
- CHEMICALS
- CONSULTANT
- LUBES
- TRANSPORTATION
- OTHER

Lab Vendor # Dropdown

SAMPLING COMPANY:

Blaine Tech Services, Inc

ADDRESS:

1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (handcopy or PDF Report ID):

Jacquelyn England

TELEPHONE:

(707)523-1010

FAX:

jacquelyn.england@qghd.com

BILL TO CONTACT E-MAIL:

jacquelyn.england@qghd.com

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)

5 DAYS

3 DAYS

2 DAYS

24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT

UST AGENCY:

LEVEL 1

LEVEL 2

LEVEL 3

LEVEL 4

OTHER (SPECIFY) _____

Cooler #1

Cooler #2

Cooler #3

SPECIAL INSTRUCTIONS OR NOTES :

- SHELL CONTRACT RATE APPLIES
- STATE REIMBURSEMENT RATE APPLIES
- EDD NOT NEEDED
- RECEIPT VERIFICATION REQUESTED
- PROVIDE LEDD DISK

Print Bill To Contact Name:

PlaNat Site or Project ID

PO #

GSAP Project ID

SITE ADDRESS: Street and City

2555 13th Avenue

State

WA

PHONE NO.:

(707)523-1010

Jacquelyn England, GHD, Santa Rosa

SAMPLER NAME(S) (Print)

Foster Koetzel

GHD Project / Task Number:

11218519

E-MAIL

jacquelyn.england@qghd.com

LAB USE ONLY

CHECK IF NO INCIDENT # APPLIES

DATE: 6/14/16

PAGE: 2 of 3

REQUESTED ANALYSIS

CONTAINER TYPE	UNIT COST	NON-UNIT COST	FIELD NOTES:	
			TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
9260C BTEX	300.0 Sulfate	6020A Total Lead		
NWTPH-Dx	300.0 Nitrate	35.2 Nitrate & Nitrite		
8270D SIM PAHs	6020A Dis. Iron & Manganese (lab filter)			
		300.0 Chloride		
		2320B Alkalinity		

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE	NO. OF CONT.	
	DATE	TIME				HCL
MW-311	6/16	0833	W	4	4	
MW-312	6/16	0815	W	6	6	
MW-313	6/16	0825	W	6	6	
MW-314	6/16	1001	W	4	4	
MW-315	6/15	0851	W	6	6	
TX-03A	6/15	0752	W	6	6	
MW-05	6/15	0849	W	6	6	
MW-111	6/15	0800	W	6	6	
MW-112A						
SH-04						

Shipped via FedEx

Date: 6/16/16 Time: 1400

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)



Shell Oil Products US Chain Of Custody Record



LAB (LOCATION)

- ACCUTEST ()
- CALSCIENCE ()
- TESTAMERICA ()
- Other ()

Please Check Appropriate Box:

- SOW PDG
- PIPELINE
- CHEMICALS
- CONSULTANT
- TRANSPORTATION
- OTHER

Print Bill To Contact Name:

- CHECK IF NO INCIDENT # APPLIES
- DATE: 6/14-6/16/21
- PAGE: 3 of 3

Lab Vendor # Dropdown

SAMPLING COMPANY:
Blaine Tech Services, Inc

LOG CODE:
BTSS

1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to):

Jacquelyn England

TELEPHONE: (707)523-1010 FAX: jacquelyn_england@ghd.com

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 5 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

- SHELL CONTRACT RATE APPLIES
- STATE REIMBURSEMENT RATE APPLIES
- EDD NOT NEEDED
- RECEIPT VERIFICATION REQUESTED
- PROVIDE LEDD DISK

LAB USE ONLY

Field Sample Identification

DATE TIME

MW-104 6/15 0825

MW-213 6/14 1233

MW-214 6/14 1310

TB01 6/14 1200

MATRIX

W 6 1

W 6 2

W 6 2

W 2

NO. OF CONT.

7

8

8

2

PRESERVATIVE

HCL HNO3 H2SO4 NONE OTHER

6 1

6 2

6 2

2

REQUISITIONED BY (Signature)

REQUISITIONED BY (Signature)

REQUISITIONED BY (Signature)

REQUISITIONED BY (Signature)

Print Bill To Contact Name:

PlanNet Site or Project ID

PO #

GSAP Project ID

STATE ADDRESS: Street and City

2555 13th Avenue

EDF DELIVERABLE TO (Name, Company, Office Location):

Jacquelyn England, GHD, Santa Rosa

SAMPLER NAME(S) (Print)

Foster Korte

PHONE NO.:

(707)523-1010

STATE:

WA

REQUESTED ANALYSIS

UNIT COST

NON-UNIT COST

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

8280C BTEX

NWTPH-Dx

8270D SIM PAHs

300.0 Sulfate

6020A Total Lead

353.2 Nitrate & Nitrite

6020A Diss. Iron & Manganese (Lab Filter)

300.0 Chloride

2220B Alkalinity

Container PID Readings or Laboratory Notes

Container PID Readings or Laboratory Notes

Container PID Readings or Laboratory Notes

Container PID Readings or Laboratory Notes

Container PID Readings or Laboratory Notes

Container PID Readings or Laboratory Notes

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Container PID Readings or Laboratory Notes

Date: 6/16/21

Time: 1400

Date: 6/16/21

Time: 1400

Date: 6/16/21

Time: 1400

Date: 6/16/21

Time: 1400

Date: 6/16/21

Time: 1400

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 2555 13 th Ave SW Seattle WA		PROJECT NUMBER 210614-Fk1					
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	BTS #4	6/14/21 0520	pH 4 7 10	4.02	✓	12.62%	FK
				7.00		12.78%	
				10.05		12.68%	
YSI 556	BTS #4	6/15/21 0540	cond 300 us/cm DO 100% ORP 250.5 mv	3891 us/cm	✓	12.82%	FK
				98.6%		13.40%	
				247.9 mv		12.71%	
YSI 556	BTS #4	6/15/21 0540	pH 4 7 10	4.00	✓	12.92%	FK
				6.97		12.84%	
				9.95		12.45%	
YSI 556	BTS #4	6/16/21 0530	cond 300 us/cm DO 100% ORP 250.5 mv	3903 us/cm	✓	12.72%	FK
				99.2%		13.60%	
				249.3 mv		12.98%	
YSI 556	BTS #4	6/16/21 0530	pH 4 7 10	4.02	✓	12.95%	FK
				7.04		12.84%	
				10.01		12.98%	
YSI 556	BTS #4	6/16/21 0530	cond 300 us/cm DO 100% ORP 250.5 mv	3904 us/cm	✓	12.80%	FK
				98.6%		13.51%	
				249.3 mv		12.76%	

Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
 SAP: 357032
 PlaNet ID: MIGUS357032
 Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: N. Adams

Date: 7/15/21

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208	1003	-	5.31	
NW-210	1020	6.32	6.36	
MW-211	1009	-	5.60	
MW-212	1006	-	6.01	



Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
 SAP: 357032
 PlaNet ID: MIGUS357032
 Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: JRL

Date: 08/18/21

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208	0750	000 —	5.52	
NW-210	0810	SHREW	6.60	CHANGE SOCK, SOCK FULL
MW-211	0755	—	5.90	—
MW-212	0800	—	6.16	SOCK IS GOOD



3Q Groundwater Monitoring Program Field Form

Shell Harbor Island Terminal

Seattle, Washington

Well ID	3rd Quarter Program					Total Depth (ft bgs)	Screened Interval (ft bgs)	Comments (note if absorbant sock is changed)
	Date Gauged	Time Gauged	Depth to Water	Depth to Product	Sample Analytes			
TX-03A Area - North Tank Farm								
MW-201	9/22	0834	14.68	--	--	15	5.0 - 14.5	
MW-202	9/22	0829	14.20	--	--	15	5.0 - 14.5	
MW-203	9/22	0843	8.26	--	--	15	5.0 - 14.5	
MW-204	9/22	0829	11.65	--	--	15	5.0 - 14.5	
MW-206A	9/22	0848	10.05	--	--	15	5.0 - 14.5	
TX-03A Area - Excluding North Tank Farm								
MW-101	9/22	0955	12.00	--	--	15	5.0 - 14.5	
MW-102	9/22	0945	9.39	--	--	15	5.0 - 14.5	
MW-301	9/22	0927	6.57	--	BTEX, Gx	15	5.0 - 15.0	
MW-302	9/23	0749	6.84	--	BTEX, Gx	15	5.0 - 15.0	parked over 9/22
MW-303	9/22	0930	6.69	--	BTEX, Gx	15	5.0 - 15.0	
MW-304	9/22	0935	6.72	--	BTEX, Gx	15	5.0 - 15.0	
MW-307	9/22	1010	9.54	--	BTEX, Gx	15	5.0 - 15.0	
MW-308	9/22	1005	9.30	--	BTEX, Gx	15	5.0 - 15.0	
MW-309	9/22	0924	6.72	--	--	15	5.0 - 15.0	
MW-310	9/22	0939	7.62	--	BTEX, Gx	15	5.0 - 15.0	
MW-311	9/22	0919	8.79	--	BTEX, Gx	15	5.0 - 15.0	odor
MW-312	9/22	0915	8.25	--	BTEX, Gx	15	5.0 - 15.0	
MW-313	9/22	0909	6.83	--	BTEX, Gx, Dx	15	5.0 - 15.0	
MW-314				--	BTEX, Gx, Dx	15	5.0 - 15.0	unable to access parked over
MW-315	9/22	0905	8.34	--	BTEX, Gx, Dx	15	5.0 - 15.0	odor
TES-MW-1	9/22	1000	10.15	--	--	18	3.0 - 18.0	
TX-03A	9/23	0829	6.35	--	BTEX, Gx	16	6.0 - 16.0	parked over 9/22
Shoreline Manifold Area								
MW-208	9/22	0755	5.46	--	--	16.5	5.0 - 14.5	
MW-210	9/22	0810	6.50	--	--	15	unknown	Absorbant sock - sock changed 9/22
MW-211	9/22	0801	5.70	--	--	13	5.0 - 13.0	
MW-212	9/22	0807	6.10	--	--	12	unknown	Absorbant sock - sock changed 9/22

Notes:

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B

ft bgs = feet below ground surface

TPH-Gx = total petroleum hydrocarbons as gasoline by NWTPH-Gx

TPH-Dx = total petroleum hydrocarbons as diesel by NWTPH-Dx

Monitoring Well Gauging Field Log - Shoreline

Date:

Job No:

SAP:

Incident No 300036

Location: 2555 13th Ave SW, Seattle (Harbor Island Terminal)

Personnel:

Well ID	Time Gauged	Depth to Water	Depth to Product	Comments
MW-208	0755	5.46	—	
MW-210	0810	6.50	—	Absorbant sock
MW-211	0801	5.70	—	
MW-212	0807	6.10	—	Absorbant sock

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210922-Fk1</u>	Client: <u>GHD</u>
Sampler: <u>Fk</u>	Gauging Date: <u>9/22/21</u>
Well I.D.: <u>MW-301</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.62</u>	Depth to Water (ft.): <u>6.57</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1150 Flow Rate: 100 ml/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>(µS/cm)</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>(mL)</u>)	Depth to Water (ft.)
1153	18.33	6.45	638	96	2.56	11.9	300	6.57
1156	18.41	6.49	628	89	2.10	-3.0	600	6.57
1159	18.32	6.52	615	77	1.74	-18.3	900	6.57
1202	18.27	6.53	612	56	1.60	-28.7	1200	6.57
1205	18.23	6.54	615	57	1.49	-31.2	1500	6.57
1208	18.21	6.54	615	55	1.43	-35.6	1800	6.57

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1211 Sampling Date: 9/22/21

Sample I.D.: MW-301 Laboratory: TA

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210922-FK1	Client: GHD
Sampler: FK	Gauging Date: 9/23/21
Well I.D.: MW-302	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 14.95	Depth to Water (ft.): 6.84
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0757 Flow Rate: 100 ml/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0800	16.57	6.05	620	24	2.51	115.4	300	6.90
0803	16.40	6.00	626	20	2.10	92.8	600	6.92
0806	16.35	5.98	626	17	1.91	76.7	900	6.92
0809	16.30	5.95	630	17	1.82	71.3	1200	6.92
0812	16.29	5.97	630	17	1.77	70.0	1500	6.92

Did well dewater? Yes No Amount actually evacuated: 1500 mL

Sampling Time: 0815 Sampling Date: 9/23/21

Sample I.D.: MW-302 Laboratory: TA

Analyzed for: (TPH-C) (BTEX) MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210922-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>9/22/21</u>
Well I.D.: <u>MW-303</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>19.70</u>	Depth to Water (ft.): <u>6.69</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1222 Flow Rate: 100 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
<u>1224</u>	<u>17.75</u>	<u>6.43</u>	<u>1166</u>	<u>29</u>	<u>1.97</u>	<u>-19.2</u>	<u>300</u>	<u>6.72</u>
<u>1227</u>	<u>17.86</u>	<u>6.49</u>	<u>1164</u>	<u>16</u>	<u>1.51</u>	<u>-29.6</u>	<u>600</u>	<u>6.72</u>
<u>1230</u>	<u>18.09</u>	<u>6.52</u>	<u>1155</u>	<u>12</u>	<u>1.39</u>	<u>-41.1</u>	<u>900</u>	<u>6.72</u>
<u>1233</u>	<u>18.11</u>	<u>6.53</u>	<u>1150</u>	<u>12</u>	<u>1.30</u>	<u>-45.5</u>	<u>1200</u>	<u>6.72</u>
<u>1236</u>	<u>18.13</u>	<u>6.53</u>	<u>1158</u>	<u>11</u>	<u>1.25</u>	<u>-47.5</u>	<u>1500</u>	<u>6.72</u>

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>1500 mL</u>
Sampling Time: <u>1239</u>	Sampling Date: <u>9/22/21</u>
Sample I.D.: <u>MW-303</u>	Laboratory: <u>TA</u>
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> MTBE TPH-D Other: _____	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210922-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>9/22/21</u>
Well I.D.: <u>MW-304</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.70</u>	Depth to Water (ft.): <u>6.72</u>
Depth to Free Product: <u>_____</u>	Thickness of Free Product (feet): <u>_____</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1248 Flow Rate: 200 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
<u>1251</u>	<u>17.26</u>	<u>6.00</u>	<u>378</u>	<u>20</u>	<u>2.12</u>	<u>5.8</u>	<u>300</u>	<u>6.72</u>
<u>1254</u>	<u>17.50</u>	<u>5.91</u>	<u>378</u>	<u>18</u>	<u>1.70</u>	<u>8.9</u>	<u>600</u>	<u>6.72</u>
<u>1257</u>	<u>17.37</u>	<u>5.79</u>	<u>373</u>	<u>16</u>	<u>1.44</u>	<u>14.1</u>	<u>900</u>	<u>6.72</u>
<u>1300</u>	<u>17.42</u>	<u>5.74</u>	<u>373</u>	<u>15</u>	<u>1.38</u>	<u>17.0</u>	<u>1200</u>	<u>6.72</u>
<u>1303</u>	<u>17.36</u>	<u>5.72</u>	<u>370</u>	<u>15</u>	<u>1.33</u>	<u>19.8</u>	<u>1500</u>	<u>6.72</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1500 mL</u>
Sampling Time: <u>1306</u>	Sampling Date: <u>9/22/21</u>
Sample I.D.: <u>MW-304</u>	Laboratory: <u>TA</u>
Analyzed for: <u>(TPH-C)</u> <u>(BTEX)</u> MTBE TPH-D	Other: <u>_____</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: <u>_____</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210922-Fk1	Client:
Sampler: Fk	Gauging Date: 9/22/21
Well I.D.: MW-307	Well Diameter (in.): (2) 3 4 6 8
Total Well Depth (ft.): 17.45	Depth to Water (ft.): 9.54
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: Y51 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1025 Flow Rate: 100 ml/min Pump Depth: 13

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1028	16.75	6.20	725	24	1.87	102.9	300	9.67
1031	16.27	6.16	716	16	1.40	65.2	600	9.70
1034	16.09	6.13	708	15	1.31	40.3	900	9.70
1037	16.07	6.12	664	16	1.25	7.7	1200	9.70
1040	16.04	6.11	663	17	1.19	3.1	1500	9.70
1043	16.03	6.10	661	17	1.12	0.8	1800	9.70

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1046 Sampling Date: 9/22/21

Sample I.D.: MW-307 Laboratory: TA

Analyzed for: (TPH-C) (BTEX) MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210922-FK1</u>	Client: _____
Sampler: <u>FK</u>	Gauging Date: <u>9/22/21</u>
Well I.D.: <u>MW-308</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>19.41</u>	Depth to Water (ft.): <u>9.50</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 1058 Flow Rate: 100 mL/min Pump Depth: 19

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1101	16.42	6.27	633	13	2.10	-2.5	300	9.58
1104	16.05	6.32	604	8	1.75	-6.6	600	9.58
1107	15.98	6.34	593	6	1.57	-9.0	900	9.58
1110	15.92	6.36	590	6	1.50	-12.9	1200	9.58
1113	15.90	6.39	589	6	1.44	-17.2	1500	9.58

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>1500 mL</u>
Sampling Time: <u>1116</u>	Sampling Date: <u>9/22/21</u>
Sample I.D.: <u>MW-308</u>	Laboratory: <u>TA</u>
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210922-FK1	Client: GHD
Sampler: FK	Gauging Date: 9/22/21
Well I.D.: MW-310	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 14.53	Depth to Water (ft.): 7.62
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: PVC Grade	Flow Cell Type: Y51 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1319 Flow Rate: 100 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1322	18.02	6.02	864	51	1.65	1.9	300	7.74
1325	18.07	6.08	848	66	1.36	-4.4	600	7.74
1328	18.20	6.08	794	52	1.19	-12.9	900	7.74
1331	18.17	6.03	791	50	1.10	-14.8	1200	7.74
1334	18.17	6.02	789	51	1.05	-15.7	1500	7.74

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 1500 mL
Sampling Time: 1337	Sampling Date: 9/22/21
Sample I.D.: MW-310	Laboratory: TA
Analyzed for: <input checked="" type="radio"/> TPH-C <input checked="" type="radio"/> BTEX MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210922-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>9/22/21</u>
Well I.D.: <u>MW-311</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>15.00</u>	Depth to Water (ft.): <u>8.79</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1044 Flow Rate: 100 mL/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1047	17.51	6.57	809	9	2.03	-26.8	300	8.84
1050	17.44	6.61	811	10	1.80	-36.3	600	8.84
1053	17.40	6.65	809	10	1.69	-42.5	900	8.84
1056	17.35	6.66	810	9	1.60	-48.0	1200	8.84
1059	17.34	6.70	812	9	1.57	-50.1	1500	8.84

Did well dewater? Yes No Amount actually evacuated: 1500 mL

Sampling Time: 1102 Sampling Date: 9/23/21

Sample I.D.: MW-311 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210922-FK1	Client: GHD
Sampler: FK	Gauging Date: 9/22/21
Well I.D.: MW-312	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): 14.91	Depth to Water (ft.): 8.25
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1016 Flow Rate: 100 ml/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water (ft.)
1019	16.81	6.58	786	13	2.65	-4.9	300	8.34
1022	16.75	6.59	791	11	2.34	-10.5	600	8.34
1025	16.69	6.60	801	11	2.18	-23.2	900	8.34
1028	16.72	6.61	803	10	2.10	-28.9	1200	8.34
1031	16.72	6.62	805	10	2.04	-30.2	1500	8.34

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>1500 ml</u>
Sampling Time: <u>1034</u>	Sampling Date: <u>9/23/21</u>
Sample I.D.: <u>MW-312</u>	Laboratory: <u>TA</u>
Analyzed for: <u>(TPH-C)</u> <u>(BTEX)</u> MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210922-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>9/22/21</u>
Well I.D.: <u>MW-313</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>13.75</u>	Depth to Water (ft.): <u>6.83</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0939 Flow Rate: 100 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<u>0942</u>	<u>17.51</u>	<u>6.76</u>	<u>690</u>	<u>63</u>	<u>1.99</u>	<u>-30.0</u>	<u>300</u>	<u>6.90</u>
<u>0945</u>	<u>17.39</u>	<u>6.83</u>	<u>670</u>	<u>74</u>	<u>1.75</u>	<u>-33.1</u>	<u>600</u>	<u>6.90</u>
<u>0948</u>	<u>17.32</u>	<u>6.88</u>	<u>653</u>	<u>47</u>	<u>1.50</u>	<u>-35.9</u>	<u>900</u>	<u>6.90</u>
<u>0951</u>	<u>17.29</u>	<u>6.91</u>	<u>664</u>	<u>29</u>	<u>1.42</u>	<u>-38.0</u>	<u>1200</u>	<u>6.90</u>
<u>0954</u>	<u>17.26</u>	<u>6.93</u>	<u>667</u>	<u>28</u>	<u>1.37</u>	<u>-40.1</u>	<u>1500</u>	<u>6.90</u>
<u>0957</u>	<u>17.25</u>	<u>6.95</u>	<u>668</u>	<u>28</u>	<u>1.34</u>	<u>-41.6</u>	<u>1800</u>	<u>6.90</u>

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 1000 Sampling Date: 9/23/21

Sample I.D.: MW-313 Laboratory: TA

Analyzed for: (TPH-C) (BTEX) MTBE (TPH-D) Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210922-FK1	Client: GHD
Sampler: FK	Gauging Date: / /
Well I.D.: MW-314	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
— Well is parked over — unable to Access no sample taken								

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
Equipment Blank I.D.:	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 210922-FK1	Client: FA/22/21 GHD
Sampler: FK	Gauging Date: 9/22/21
Well I.D.: MW-315	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): 14.50	Depth to Water (ft.): 8.34
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: (Dedicated Tubing) New Tubing Other _____
 Start Purge Time: 0906 Flow Rate: 100 mL/min Pump Depth: 11

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>(µS/cm)</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>(mL)</u>)	Depth to Water (ft.)
0909	17.18	6.22	774	16	1.75	9.1	300	8.45
0912	17.45	6.33	778	12	1.58	-5.2	600	8.45
0915	17.54	6.37	782	11	1.29	-11.1	900	8.45
0918	17.60	6.42	784	10	1.19	-16.5	1200	8.45
0921	17.62	6.45	785	10	1.14	-19.0	1500	8.45

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: 1500 mL
Sampling Time: 0924	Sampling Date: 9/23/21
Sample I.D.: MW-315	Laboratory: TA
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> MTBE <u>(TPH-D)</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>210922-FK1</u>	Client: <u>GHD</u>
Sampler: <u>FK</u>	Gauging Date: <u>9/23/21</u>
Well I.D.: <u>TX-03A</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>19.83</u>	Depth to Water (ft.): <u>6.35</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0828 Flow Rate: 100 ml/min Pump Depth: 10

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0831	17.04	5.86	694	10	2.04	26.0	300	6.35
0834	17.21	6.00	689	9	1.65	13.8	600	6.35
0837	17.35	6.05	675	8	1.39	8.8	900	6.35
0840	17.39	6.07	635	7	1.30	3.2	1200	6.35
0843	17.43	6.08	632	7	1.23	-1.8	1500	6.35
0846	17.45	6.09	633	7	1.17	-5.6	1800	6.35

Did well dewater? Yes No Amount actually evacuated: 1800 mL

Sampling Time: 0849 Sampling Date: 9/23/21

Sample I.D.: TX-03A Laboratory: TA

Analyzed for: (PH-G) (BTEX) MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____



Shell Oil Products US Chain of Custody Record

LAB (LOCATION)
 ACCUTEST ()
 CALSCIENCE ()
 TESTAMERICA ()
 Other ()

Please Check Appropriate Box:
 SGW FDG
 PIPELINE
 RETAIL
 CHEMICALS
 CONSULTANT
 LUBES
 TRANSPORTATION
 OTHER

LOG CODE:
 BTSS
 1680 Rogers Ave, San Jose, CA, 95112
 Blaine Tech Services, Inc

Lab Vendor # _____
 Dropdown
 Telephone: (707)523-1010
 FAX: _____
 jacquelyn.england@ghd.com
 BILL TO CONTACT E-MAIL:
 PROJECT CONTACT (Hardcopy or PDF Report to):
 1680 Rogers Ave, San Jose, CA, 95112
 Blaine Tech Services, Inc

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (1-4 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 LA - RWQCB REPORT FORMAT UST AGENCY:
 DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____
 TEMPERATURE ON RECEIPT C° Cooler #1 _____ Cooler #2 _____ Cooler #3 _____

SPECIAL INSTRUCTIONS OR NOTES :
 SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDDO NOT NEEDED
 RECEIPT VERIFICATION REQUESTED
 PROVIDE LEDD DISK

Print Bill To Contact Name: _____
 PlayNet Site or Project ID: _____
 DATE: 9/22-9/23/21
 PAGE: 1 of 2
 PO # _____
 GSAP Project ID _____
 STATE: WA
 PHONE NO: (707)523-1010
 E-MAIL: jacquelyn.england@ghd.com
 AEGCOM Other ID: 11218519
 GHD Project / Task Number: _____

SITE ADDRESS: Street and City
 2555 13th Avenue
 EDI DELIVERABLE TO (Name, Company, Office Location):
 Jacquelyn England, GHD, Santa Rosa
 SAMPLER NAME(S) (Print):
 Foster Koetzel

UNIT COST		REQUESTED ANALYSIS		NON-UNIT COST		FIELD NOTES:
8260C BTEX		NWTPH-DX		6020A Total Lead		Container PID Readings or Laboratory Notes
8270D SIM PAHs		300 0 Sulfate		353.2 Nitrate & Nitrite		
		6020A Diss. Iron & Manganese (lab filter)		300 0 Chloride		
		2320B Alkalinity				

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.
		DATE	TIME		HCL	HN03	H2SO4	
	MW-301	9/22	1211	6W	6			6
	MW-302	9/23	0815		6			6
	MW-303	9/22	1239		6			6
	MW-304	9/22	1306		6			6
	MW-307	9/22	1046		6			6
	MW-308	9/22	1116		6			6
	MW-310	9/22	1337		6			6
	MW-311	9/23	1102		6			6
	MW-312	9/23	1034		6			6
	MW-313	9/23	1000	W	8			8

Requisitioned by (Signature): *[Signature]*
 Date: 9/22/21
 Received by (Signature): *[Signature]*
 Date: 9/23/21
 Time: 1600
 shipped via Fed Ex
 Received by (Signature): _____
 Date: _____
 Time: _____



Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)

- ACCUTEST ()
- CALSCIENCE ()
- TESTAMERICA ()
- Other ()

Lab Vendor # _____ Dropdown

Please Check Appropriate Box:

- SGW FDG
- PIPELINE
- RETAIL
- CHEMICALS
- CONSULTANT
- LUBES
- TRANSPORTATION
- OTHER

Print Bill To Contact Name:

PlanNet Site or Project ID

CHECK IF NO INCIDENT # APPLIES

DATE: 9/23/21

PAGE: 2 of 2

GHD Project / Task Number: 11218519

E-MAIL: jacquelyn.england@ghd.com

LAB USE ONLY

STATE: WA

PHONE NO: (707) 523-1010

SAMPLER NAME(S) (Print): Jacquelyn England, GHD, Santa Rosa

SITE ADDRESS: Street and City

2555 13th Avenue

Blaine Tech Services, Inc
1680 Rogers Ave, San Jose, CA, 95112

EDF DELIVERABLE TO (Name, Company, Office Location):

Jacquelyn England

TELEPHONE: (707) 523-1010 FAX: jacquelyn.england@ghd.com

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (1-4 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 _____ Cooler #2 _____ Cooler #3 _____

SPECIAL INSTRUCTIONS OR NOTES:

UNIT COST

NON-UNIT COST

FIELD NOTES:

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

LAB USE ONLY

Field Sample Identification

DATE

TIME

MW-315

9/23/21

6W

TX-03A

9/23/21

6

TB01

9/22/2020

2

NO. OF CONT.

PRESERVATIVE

HCL HNO3 H2SO4 NONE OTHER

MATRIX

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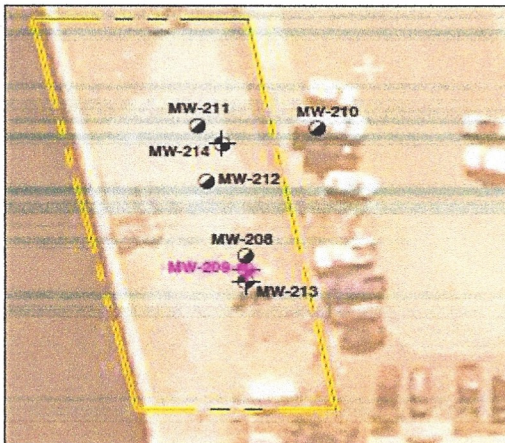
Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: JOE LEWANDOWSKI

Date: 10/21/21

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208	0945	—	5.32 5.32	
NW-210	0958	—	6.36	
MW-211	0955	—	5.50	
MW-212	0950	—	4.05	



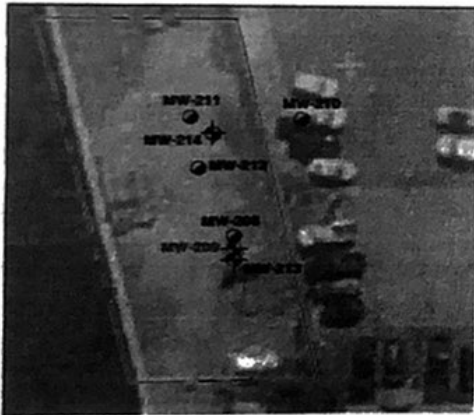
Monitoring Well Gauging Field Log - Shoreline

Project No: 11218519
SAP: 357032
PlaNet ID: MIGUS357032
Location: 2555 13th Avenue SW Seattle (Harbor Island Terminal)

Personnel: N Adamowski

Date: 11/23/21

Well ID	Time Gauged	Depth to Product	Depth to Water	Comments
MW-208	1510		4.28	
NW-210	1541	5.38	6.20	
MW-211	1441		4.42	
MW-212	1502		5.19	



4Q Groundwater Monitoring Program Field Form
Shell Harbor Island Terminal
Seattle, Washington

4th Quarter Program							Total Depth (ft bgs)	Screened Interval (ft bgs)	Comments
Time Gauged	Depth to GW	Depth to Product	Sample Analytes						
TX-03A Area - North Tank Farm									
MW-201	1150	dry	--	BTEX, Gx, Dx	15	5.0 - 14.5			
MW-202	1120	12.70	--	BTEX, Gx, Dx, NAP	15	5.0 - 14.5			
MW-203	1020	6.80	--	Gx, Dx, NAP	15	5.0 - 14.5			
MW-204	1030	10.42	--	BTEX, Gx, Dx	15	5.0 - 14.5			
MW-206A	1024	8.57	--	BTEX, Gx, Dx	15	5.0 - 14.5			
TX-03A Area - Excluding the North Tank Farm									
MW-101	0950	9.41	--	BTEX, Gx, Dx	15	5.0 - 14.5			
MW-102	1030	6.81	--	BTEX, Gx, Dx	15	5.0 - 14.5			
MW-301	1039	4.67	--	BTEX, Gx	15	5.0 - 15.0			
MW-302	1042	4.98	--	BTEX, Gx, Dx, NAP	15	5.0 - 15.0			
MW-303	1035	4.61	--	BTEX, Gx, Dx	15	5.0 - 15.0			
MW-304	1047	4.69	--	BTEX, Gx, Dx, NAP	15	5.0 - 15.0			
MW-307	0940	7.32	--	BTEX, Gx, Dx, NAP	15	5.0 - 15.0			
MW-308	0945	7.07	--	BTEX, Gx, NAP	15	5.0 - 15.0			
MW-309	1030	4.84	--	BTEX, Gx, Dx	15	5.0 - 15.0			
MW-310	1053	9.58	--	BTEX, Gx, Dx, NAP	15	5.0 - 15.0			
MW-311	1013	7.05	--	BTEX, Gx, NAP	15	5.0 - 15.0			
MW-312	1009	6.63	--	BTEX, Gx, NAP	15	5.0 - 15.0			
MW-313	0958	9.41	--	BTEX, Gx, Dx	15	5.0 - 15.0			
MW-314	--- Car parked over well ---		--	BTEX, Gx, Dx	15	5.0 - 15.0			
MW-315	1002	6.76	--	BTEX, Gx, Dx	15	5.0 - 15.0			
TES-MW-1	1000	7.87	--	BTEX, Gx, Dx	18	3.0 - 18.0			
TX-03A	--- Car parked over well ---		--	BTEX, Gx, Dx, NAP	16	6.0 - 16.0			
SH-04 Area									
MW-05	0855	5.00	--	BTEX, Gx, Dx	15	5.0 - 15.0			
MW-111	0904	4.14	--	BTEX, Gx, Dx	15	5.0 - 14.5			
MW-112A	0915	5.52	--	BTEX, Gx, Dx	15	5.5 - 15.0			
SH-04	0911	8.79	--	BTEX, Gx, Dx	16	6.0 - 16.0			
MW-104	0850	4.99	--	Total lead, Gx, Dx	15	5.0 - 14.5			
Additional Compliance Monitoring Wells									
MW-105	0900	3.99	--	Total lead, BTEX, Gx, Dx	15	5.0 - 14.5			
TX-04	0935	8.90	--	BTEX, Gx, Dx	16	6.0 - 16.0			
TX-06A	0920	2.90	--	BTEX, Gx, Dx	15.8	5.5 - 15.5			
Shoreline Manifold Area									
MW-208	0917	3.99	--	--	16.5	5.0 - 14.5			
MW-210	0940	5.12	screen	--	15	unknown			ABS sack installed
MW-211	0922	4.39	--	--	13	5.0 - 13.0			
MW-212	0933	4.79	--	--	12	unknown			ABS sack installed
MW-213	0913	5.76	--	BTEX, Gx, Dx, PAHs	30	30.0 - 40.0			
MW-214	0927	5.71	--	BTEX, Gx, Dx, PAHs	30	30.0 - 40.0			

LOW FLOW WELL MONITORING DATA SHEET

Project #: <i>Z11214 Mw-1</i>	Client: <i>Swell</i>
Sampler: <i>AM</i>	Gauging Date: <i>12/16/21</i>
Well I.D.: <i>Mw-201</i>	Well Diameter (in.): <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/> _____
Total Well Depth (ft.): <i>21.50</i>	Depth to Water (ft.): <i>Dry</i>
Depth to Free Product: <i>—</i>	Thickness of Free Product (feet): <i>—</i>
Referenced to: <input type="checkbox"/> PVC <input type="checkbox"/> Grade	Flow Cell Type: <i>—</i>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<div style="position: absolute; top: 10%; left: 15%; font-size: 2em; opacity: 0.5;"> </div> <div style="position: absolute; top: 45%; left: 30%; font-size: 1.5em;"> <i>well dry, not sampled</i> </div>								

Did well dewater? Yes No	Amount actually evacuated:
Sampling Time:	Sampling Date:
Sample I.D.:	Laboratory:
Analyzed for: <input type="checkbox"/> TPH-G <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TPH-D	Other: _____
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214 <i>Steel</i>	Client: <i>Steel</i>
Sampler: <i>AU</i>	Gauging Date: <i>12/16/21</i>
Well I.D.: <i>MU-202</i>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <i>21.75</i>	Depth to Water (ft.): <i>12.70</i>
Depth to Free Product:	Thickness of Free Product (feet): <i>-</i>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <i>XSI Plus</i>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1120 Flow Rate: 200 mL/min Pump Depth: 20'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1123	12.1	7.51	181	190	2.74	48.4	600	12.70
1126	12.0	7.56	180	172	1.58	21.1	1200	12.70
1129	11.4	7.70	179	132	0.89	4.6	1800	12.70
1132	11.4	7.72	177	127	0.82	4.1	2400	12.70
1135	11.4	7.76	174	125	0.81	3.8	3000	12.70

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <i>3000</i>
Sampling Time: <i>1140</i>	Sampling Date: <i>12/16/21</i>
Sample I.D.: <i>MU-202</i>	Laboratory: <i>TA</i>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <i>see loc</i>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>Z11214A-1</u>	Client: <u>Shell</u>
Sampler: <u>AM</u>	Gauging Date: <u>12/14/21</u>
Well I.D.: <u>MW-203</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>14.15</u>	Depth to Water (ft.): <u>6.80</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>VSE Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0940 Flow Rate: 200ml/min Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
0943	10.2	8.55	188	30	1.50	22.1	600	6.80
0946	11.2	8.35	190	24	0.29	19.5	1200	6.80
0949	11.5	8.32	191	17	0.19	17.9	1800	6.80
0952	11.5	8.31	191	16	0.20	16.5	2400	6.80
0955	11.6	8.30	193	16	0.21	16.1	3000	6.80

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>3000</u>
Sampling Time: <u>1000</u>	Sampling Date: <u>12/16/21</u>
Sample I.D.: <u>MW-203</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>see loc</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211214A-1</u>	Client: <u>Sell</u>
Sampler: <u>AM</u>	Gauging Date: <u>12/16/21</u>
Well I.D.: <u>MW-204</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>1767</u>	Depth to Water (ft.): <u>10.42</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>Yes Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1030 Flow Rate: 200 mL/min Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1033	9.7	7.82	151	57	1.48	5.3	600	10.45
1036	10.0	7.71	153	40	0.95	-8.1	1200	10.47
1039	10.4	7.73	150	27	0.30	-16.3	1800	10.48
1042	10.5	7.72	147	25	0.25	-17.0	2400	10.48
1045	10.5	7.70	144	25	0.22	-17.2	3000	10.48

Did well dewater? Yes No Amount actually evacuated: 3000
 Sampling Time: 1050 Sampling Date: 12/16/21
 Sample I.D.: MW-204 Laboratory: TA
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC
 Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214AK-1	Client: Shell
Sampler: Ah	Gauging Date: 12/14/21
Well I.D.: Mw-206A	Well Diameter (in.): (2) 3 4 6 8
Total Well Depth (ft.): 16.61	Depth to Water (ft.): 8.57
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: PVC Grade	Flow Cell Type: VSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 0916 Flow Rate: 200ml/min Pump Depth: 15'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0913	7.7	8.18	377	45	1.46	44.6	600	9.00
0916	8.1	8.15	383	31	1.18	35.5	1200	9.01
0919	8.5	8.17	393	23	0.70	17.5	1800	9.02
0922	8.5	8.19	393	22	0.63	16.3	2400	9.02
0923	8.6	8.20	394	21	0.61	15.9	3000	9.02

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 0930	Sampling Date: 12/16/21
Sample I.D.: MW-206A	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See Co
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214AU-1	Client: Shell
Sampler: AU	Gauging Date: 12/14/21
Well I.D.: MW-101	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 20.05	Depth to Water (ft.): 9.41
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YST pro PWS

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1405 Flow Rate: 200 mL/min Pump Depth: 15'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1408	10.3	7.02	286	41	1.88	62.2	600	9.45
1411	10.9	6.95	305	40	1.12	105.8	1200	9.46
1414	11.5	6.83	311	26	0.66	121.1	1800	9.47
1417	11.5	6.81	315	26	0.62	123.5	2400	9.47
1420	11.5	6.79	314	25	0.59	124.0	3000	9.47

Did well dewater? Yes No Amount actually evacuated: 3000

Sampling Time: 1430 Sampling Date: 12/14/21

Sample I.D.: MW-101 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214AK-1	Client: Shell
Sampler: AM	Gauging Date: 12/14/21
Well I.D.: MW-102	Well Diameter (in.): ② 3 4 6 8 _____
Total Well Depth (ft.): 17.41	Depth to Water (ft.): 6.81
Depth to Free Product: -	Thickness of Free Product (feet): ✓
Referenced to: PVC Grade	Flow Cell Type: Y&E R. Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0840 Flow Rate: 200 ml/min Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0843	11.7	7.97	297	26	1.30	111.0	600	6.81
0846	12.4	7.96	300	17	0.89	94.0	1200	6.81
0849	12.2	8.03	301	12	0.76	78.0	1800	6.81
0852	12.1	8.06	298	11	0.79	75.6	2400	6.81
0855	12.2	8.10	295	11	0.77	73.9	3000	6.81

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 0900	Sampling Date: 12/16/21
Sample I.D.: MW-102	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See Coc
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211214-AW</u>	Client: <u>Shell</u>
Sampler: <u>50</u>	Gauging Date: <u>12-16-21</u>
Well I.D.: <u>MW-301</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.65</u>	Depth to Water (ft.): <u>4.67</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0909 Flow Rate: 100 ml/m Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
0912	10.02	6.64	586	157	0.16	74.4	300	4.82
0915	10.10	6.62	537	140	0.15	74.2	600	4.82
0918	10.12	6.61	507	127	0.14	80.8	900	4.82
0921	10.18	6.60	500	118	0.14	81.3	1200	4.82
0924	10.17	6.60	502	112	0.14	82.3	1500	4.82

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: <u>1500ml</u>
Sampling Time: <u>0925</u>	Sampling Date: <u>12-16-21</u>
Sample I.D.: <u>MW-301</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-G BTEX MTBE TPH-D <u>Other: see COC</u>	
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211214-AK1</u>	Client: <u>Shell</u>
Sampler: <u>JD</u>	Gauging Date: <u>12-16-21</u>
Well I.D.: <u>MW-302</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>15.00</u>	Depth to Water (ft.): <u>5.03</u>
Depth to Free Product: <input checked="" type="checkbox"/>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1456 Flow Rate: 100 ml/m Pump Depth: 11M

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1459	10.38	7.83	541	55	0.23	22.2	300	5.21
1502	10.47	7.85	576	40	0.11	22.8	600	5.21
1505	10.62	7.74	593	37	0.10	21.7	900	5.21
1508	10.67	7.70	592	39	0.10	20.3	1200	5.21
1511	10.70	7.67	597	35	0.10	20.3	1500	5.21

Did well dewater? Yes No Amount actually evacuated: 1500 ml

Sampling Time: 1512 Sampling Date: 12-16-21

Sample I.D.: MW-302 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211214 Ah 1</u>	Client: <u>Shell</u>
Sampler: <u>AN</u>	Gauging Date: <u>12/14/21</u>
Well I.D.: <u>MW-303</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>14.74</u>	Depth to Water (ft.): <u>4.61</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>Vst Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1340 Flow Rate: 2ccm/min Pump Depth: 12

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1343	9.1	7.98	297	13	1.49	5.4	600	4.61
1346	9.3	7.76	279	10	1.13	7.6	1200	4.61
1349	9.0	7.66	263	8	0.52	13.9	1800	4.61
1352	8.9	7.62	255	8	0.47	14.6	2400	4.61
1355	9.0	7.58	251	8	0.43	14.9	3000	4.61

Did well dewater? Yes No Amount actually evacuated: 3000

Sampling Time: 1400 Sampling Date: 12/15/21

Sample I.D.: MW-303 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see CoC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>Z11214AK4</u>	Client: <u>shell</u>
Sampler: <u>JD</u>	Gauging Date: <u>12-16-21</u>
Well I.D.: <u>MW-304</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): <u>14.70</u>	Depth to Water (ft.): <u>4.70</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 0948 Flow Rate: 100 ml/m Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0951	8.12	6.64	232	53	0.09	98.2	300	5.01
0954	8.47	6.62	240	37	0.08	101.3	600	5.01
0957	8.89	6.60	244	28	0.08	104.7	900	5.01
1000	9.22	6.60	247	26	0.06	107.0	1200	5.01
1003	9.20	6.59	245	24	0.06	108.2	1500	5.01
1006	9.17	6.60	244	23	0.06	108.2	1800	5.01

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1007 Sampling Date: 12-16-21

Sample I.D.: MW-304 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D (Other): sec COC

Equipment Blank I.D.: @ Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214AK-1	Client: Shell
Sampler: AK	Gauging Date: 12/14/21
Well I.D.: MW-307	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): 17.50	Depth to Water (ft.): 7.32
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1200 Flow Rate: 200 mL/min Pump Depth: 15'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1203	6.2	9.08	388	30	0.59	1.5	600	7.32
1206	9.8	9.00	397	26	0.48	-16.9	1200	7.32
1209	10.9	9.03	409	19	0.37	-22.4	1800	7.32
1212	10.9	9.11	420	18	0.34	-23.9	2400	7.32
1215	11.0	9.10	423	18	0.30	-24.0	3000	7.32

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1220	Sampling Date: 12/14/21
Sample I.D.: MW-307	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See Loc
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214AK-1	Client: Shell
Sampler: AK	Gauging Date: 12/14/21
Well I.D.: MW-308	Well Diameter (in.): <u>3</u> 4 6 8
Total Well Depth (ft.): 19.40	Depth to Water (ft.): 7.07
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1250 Flow Rate: 200 ml/min Pump Depth: 17'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1253	7.1	7.41	411	20	1.52	135.8	600	7.07
1256	7.3	7.36	526	11	1.01	142.5	1200	7.07
1259	7.6	7.00	544	11	0.95	148.3	1800	7.07
1302	7.6	6.98	549	10	0.90	149.5	2400	7.07 7.07
1305	7.7	6.95	548	10	0.87	150.0	3000	7.07

Did well dewater? Yes No Amount actually evacuated: 3000
 Sampling Time: ~~1310~~ 1310 Sampling Date: 12/14/21
 Sample I.D.: MW-308 Laboratory: TA
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Log
 Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214ALC 1	Client: Shell
Sampler: AN	Gauging Date: 12/14/21
Well I.D.: MW-309	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 14.68	Depth to Water (ft.): 4.84
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>Y&I Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1410 Flow Rate: 200ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1413	11.6	7.78	323	16	1.46	23.5	600	4.87
1416	11.7	8.06	381	12	0.19	-10.9	1200	4.89
1419	12.7	8.09	385	12 7	0.12	-23.1	1800	4.90
1422	12.7	8.12	382	7	0.10	-22.4	2400	4.91
1425	12.8	8.17	384	6	0.07	-22.8	3000	4.91

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1430	Sampling Date: 12/15/21
Sample I.D.: MW-309	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 212 14 AK	Client: Shell
Sampler: JD	Gauging Date: 12-16-21
Well I.D.: MW-310	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 14.63	Depth to Water (ft.): 5.70
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: Y6-556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1047 Flow Rate: 100 ml/m Pump Depth: 11ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1050	11.64	6.69	617	80	0.13	-19.0	300	5.93
1053	11.85	6.68	640	72	0.07	-23.3	600	5.93
1056	12.25	6.67	649	80	0.07	-26.8	900	5.93
1059	12.19	6.66	648	83	0.07	-27.3	1200	5.93
1102	12.25	6.66	648	85	0.06	-28.1	1500	5.93

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 1500 ml
Sampling Time: 1103	Sampling Date: 12-16-21
Sample I.D.: MW-310	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see COC
Equipment Blank I.D.: @	Duplicate I.D.: —

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>Z11214-AK1</u>	Client: <u>Shell</u>
Sampler: <u>SD</u>	Gauging Date: <u>12-16-21</u>
Well I.D.: <u>MW-311</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth (ft.): <u>14.98</u>	Depth to Water (ft.): <u>7.10</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1145 Flow Rate: 100ml/m Pump Depth: 12ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>μS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1148	<u>10.82</u>	<u>7.45</u>	<u>468</u>	<u>45</u>	<u>0.63</u>	<u>30.4</u>	<u>300</u>	<u>7.10</u>
1151	<u>10.64</u>	<u>7.41</u>	<u>467</u>	<u>28</u>	<u>0.16</u>	<u>32.7</u>	<u>600</u>	<u>7.10</u>
1154	<u>10.50</u>	<u>7.48</u>	<u>467</u>	<u>18</u>	<u>0.08</u>	<u>34.5</u>	<u>900</u>	<u>7.10</u>
1157	<u>10.60</u>	<u>7.41</u>	<u>466</u>	<u>9</u>	<u>0.08</u>	<u>36.2</u>	<u>1200</u>	<u>7.10</u>
1200	<u>10.63</u>	<u>7.35</u>	<u>470</u>	<u>8</u>	<u>0.08</u>	<u>36.7</u>	<u>1500</u>	<u>7.10</u>
1203	<u>10.67</u>	<u>7.34</u>	<u>473</u>	<u>8</u>	<u>0.08</u>	<u>37.4</u>	<u>1800</u>	<u>7.10</u>

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1204 Sampling Date: 12-16-21

Sample I.D.: MW-311 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D (Other) See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211214-AK</u>	Client: <u>Shell</u>
Sampler: <u>JD</u>	Gauging Date: <u>12-16-21</u>
Well I.D.: <u>MW-312</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>14.87</u>	Depth to Water (ft.): <u>6.67</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>RVC</u> Grade	Flow Cell Type: <u>VSI-556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1224 Flow Rate: 100 ml/m Pump Depth: 12ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1227	10.89	7.08	334	10	0.08	34.6	300	7.03
1230	11.14	7.05	336	8	0.04	34.8	600	7.03
1233	10.79	7.04	333	6	0.04	35.5	960	7.03
1236	10.87	7.04	340	7	0.04	35.0	1200	7.03
1239	10.85	7.04	338	6	0.04	35.2	1500	7.03

Did well dewater? Yes No Amount actually evacuated: 1500 ml

Sampling Time: 1240 Sampling Date: 12-16-21

Sample I.D.: MW-312 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214-A14	Client: Shell
Sampler: 50	Gauging Date: 12-16-21
Well I.D.: MW 313	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 13.67	Depth to Water (ft.): 5.42
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVG</u> Grade	Flow Cell Type: 451-556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1401 Flow Rate: 100 ml/m Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1404	11.45	7.05	393	235	0.29	28.1	300	6.00
1407	11.80	7.21	398	152	0.22	28.9	500	6.00
1410	11.90	7.24	399	112	0.20	29.2	1200 900	6.00
1413	11.88	7.18	400	90	0.19	30.1	1500 ⁵⁰ 1200	6.00
1416	11.93	7.18	403	83	0.19	30.7	1800 ⁵⁰ 1500	6.00
1419	11.89	7.16	401	80	0.19	30.7	1800	6.00

Did well dewater? Yes No Amount actually evacuated: 1800 ml

Sampling Time: 1420 Sampling Date: 12-16-21

Sample I.D.: MW 313 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>211214. AK1</u>	Client: <u>Shell</u>
Sampler: <u>JD</u>	Gauging Date: <u>12-16-21</u>
Well I.D.: <u>MW-314</u>	Well Diameter (in.): <u>2 3 4 6 8</u>
Total Well Depth (ft.): _____	Depth to Water (ft.): _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PV2</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: ~~2" Grundfos Pump~~ Peristaltic Pump ~~Bladder Pump~~
 Sampling Method: ~~Dedicated Tubing~~ New Tubing ~~Other~~
 Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<i>Well was unaccessible, car parked over it on 12-16-21 @ 1500</i>								

Did well dewater? Yes No Amount actually evacuated: _____

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ Laboratory: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214-AK4	Client: Shell
Sampler: JO	Gauging Date: 12-16-21
Well I.D.: MW-315	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 14.90	Depth to Water (ft.): 6.80
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: 451-556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1310 Flow Rate: 100 ml/m Pump Depth: 12ft

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1313	10.51	7.26	323	18	1.15	-14.2	300	6.89
1316	10.37	7.25	313	14	1.20	-10.1	600	6.95
1319	10.47	7.26	309	12	1.30	-9.4	900	6.98
1322	10.40	7.28	307	10	1.33	-8.2	1200	6.98
1325	10.40	7.31	304	10	1.36	-8.2	1500	6.98

Did well dewater? Yes No Amount actually evacuated: 1500 ml

Sampling Time: 1326 Sampling Date: 12-16-21

Sample I.D.: MW-315 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see COC

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214AK-1	Client: Shell
Sampler: AK	Gauging Date: 12/14/21
Well I.D.: AK ES TES-MW-1	Well Diameter (in.): 2 3 <u>4</u> 6 8
Total Well Depth (ft.): 15.56	Depth to Water (ft.): 7.87
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tybing New Tubing Other _____
 Start Purge Time: 1330 Flow Rate: 200ml/min Pump Depth: 14'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1333	10.0	7.80	100	50	1.05	141.2	600	7.87
1336	10.5	7.83	103	42	0.83	140.1	1200	7.90
1339	11.1	7.75	90	37	0.79	137.9	1800	7.91
1342	11.2	7.72	92	36	0.75	134.5	2400	7.92
1345	11.2	7.71	93	34	0.70	132.1	3000	7.92

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1350	Sampling Date: 12/14/21
Sample I.D.: TES-MW-1	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see loc
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>Z11214-ALK1</u>	Client: <u>Shell</u>
Sampler: <u>JD</u>	Gauging Date: <u>12-16-21</u>
Well I.D.: <u>TX-03A</u>	Well Diameter (in.): <u>2</u> <u>3</u> <u>4</u> <u>6</u> <u>8</u> <u> </u>
Total Well Depth (ft.): <u> </u>	Depth to Water (ft.): <u> </u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>Y61-556</u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ ~~Bladder Pump~~
 Sampling Method: Dedicated Tubing ~~New Tubing~~ ~~Other~~
 Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u>Well is unaccessable, Car park on top</u>							<u> </u>
<u> </u>	<u>of it on 12-16-21</u>							<u> </u>
<u> </u>	<u>all Day</u>							<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u> </u>
Sampling Time: <u> </u>	Sampling Date: <u> </u>
Sample I.D.: <u> </u>	Laboratory: <u> </u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other: <u> </u>	
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214A-1	Client: Shell
Sampler: AM	Gauging Date: 12/14/21
Well I.D.: MW-05	Well Diameter (in.): (2) 3 4 6 8
Total Well Depth (ft.): 18.90	Depth to Water (ft.): 5.00
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 0820 Flow Rate: 200ml/min Pump Depth: 17'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0823	12.4	10.58	255	61	0.93	80.1	600	5.02
0826	13.6	10.52	262	48	0.52	-81.7	1200	5.03
0829	13.5	10.48	256	22	0.93	-82.1	1800	5.03
0832	13.4	10.44	244	21	0.55	-83.2	2400	5.03
0835	13.5	10.40	241	21	0.57	-83.3	3000	5.03

Did well dewater? Yes No Amount actually evacuated: 3000

Sampling Time: 0840 Sampling Date: 12/15/21

Sample I.D.: MW-05 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Coc

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 21124AA-1	Client: Shell
Sampler: XM	Gauging Date: 12/14/21
Well I.D.: MW-11	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): 14.70	Depth to Water (ft.): 4.14
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>1st for AUC</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1000 Flow Rate: 200 mL/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1003	14.5	9.93	206	15	1.37	-44.6	600	4.17
1006	14.7	9.86	221	11	0.70	-55.5	1200	4.19
1009	14.8	9.86	232	7	0.27	-69.0	1800	4.20
1012	14.9	9.85	237	7	0.19	-70.5	2400	4.20
1015	14.9	9.85	238	6	0.18	-72.1	3000	4.20

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1020	Sampling Date: 12/15/21
Sample I.D.: MW-111	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See LOC
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214AK-1	Client: Shell
Sampler: AH	Gauging Date: 12/14/21
Well I.D.: MW-112A	Well Diameter (in.): <u>(2)</u> 3 4 6 8
Total Well Depth (ft.): 14.62	Depth to Water (ft.): 5.52
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VST Pro Plus</u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1040 Flow Rate: 200 L/min Pump Depth: 13'

Time	Temp. (C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1043	14.7	9.81	236	25	0.91	-65.1	600	5.52
1046	14.4	9.84	238	19	0.66	-70.7	1200	5.52
1049	14.5	9.89	240	13	0.28	-81.2	1800	5.52
1052	14.5	9.91	242	12	0.20	-83.5	2400	5.52
1055	14.4	9.95	243	12	0.19	-85.8	3000	5.52

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 1100	Sampling Date: 12/15/21
Sample I.D.: MW-112A	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see COU
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214 AK - 1	Client: Shell
Sampler: AU	Gauging Date: 12/14/21
Well I.D.: 5H - 04	Well Diameter (in.): ② 3 4 6 8 ____
Total Well Depth (ft.): 18.03	Depth to Water (ft.): 8.77
Depth to Free Product: _____	Thickness of Free Product (feet): -
Referenced to: PVC Grade	Flow Cell Type: VSE Pro Plus

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other _____
Start Purge Time: 1120	Flow Rate: 200 mL/min	Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1123	11.4	9.59	141	10	1.97	-71.8	600	8.81
1126	11.9	9.70	141 143	7	0.99	-67.4	1200	8.81
1129	11.5	9.86	141	7	0.24	-74.7	1800	8.81
1132	11.6	9.85	141	6	0.18	-76.6	2400	8.81
1135	11.6	9.84	140	6	0.15	-77.1	3000	8.81

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 3000
Sampling Time: 1140	Sampling Date: 12/15/21
Sample I.D.: 5H-04	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see COC
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214A-1	Client: Shell
Sampler: AN	Gauging Date: 12/14/21
Well I.D.: MW-104	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 14.78	Depth to Water (ft.): 4.99
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YST Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0850 Flow Rate: 200 mL/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0853	11.8	10.57	246	17	1.27	-92.6	600	5.00
0856	14.0	10.23	265	12	0.42	-102.6	1200	5.01
0859	14.3	10.14	272	9	0.23	-110.8	1800	5.01
0902	14.4	10.09	275	9	0.18	-113.9	2400	5.01
0905	14.4	10.06	275	9	0.15	-115.0	3000	5.01

Did well dewater? Yes No Amount actually evacuated: 3000

Sampling Time: 0910 Sampling Date: 12/15/21

Sample I.D.: MW-104 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Col

Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 211214Aa-1	Client: Shell
Sampler: AM	Gauging Date: 12/14/21
Well I.D.: MW-105	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 13.90	Depth to Water (ft.): 3.99
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0920 Flow Rate: 200 mL/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
0923	13.3	9.98	173	39	0.50	-89.4	600	4.02
0926	13.5	9.93	175	21	0.34	-93.2	1200	4.03
0929	13.0	9.94	173	16	0.18	-99.1	1800	4.04
0932	13.1	9.92	172	15	0.15	-101.6	2400	4.05
0935	13.0	9.91	170	15	0.13	-101.9	3000	4.05

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 3000
Sampling Time: 0940	Sampling Date: 12/15/21
Sample I.D.: MW-105	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see loc
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 21121444-1	Client: Shell
Sampler: Au	Gauging Date: 12/14/21
Well I.D.: TX-04	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 17.94	Depth to Water (ft.): 8.90
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI for Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 1310 Flow Rate: 200m³/hr Pump Depth: 16'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1313	10.2	8.09	191	45	1.33	21.3	600	8.92
1316	11.2	8.14	199	30	0.58	13.6	1200	8.92
1319	10.4	8.25	283	17	0.28	-2.1	1800	8.93
1322	10.5	8.29	206	17	0.25	-2.7	2400	8.93
1325	10.4	8.32	207	17	0.21	-3.0	3000	8.93

Did well dewater? Yes No Amount actually evacuated: 3000

Sampling Time: 1330 Sampling Date: 12/15/21

Sample I.D.: TX-04 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see LOC

Equipment Blank I.D.: @ Duplicate I.D.:

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION) _____
 ACCURACY () _____
 CALSCIENCE () _____
 TESTAMERICA () _____
 Other () _____
 Lab Vendor # _____
 Dropdown

Print Bill To Contact Name: _____
 Project ID: _____
 DATE: 12/14/21
 PAGE: 1 of 3

State: _____
 WVA
 PHONE NO.: (707)523-1010
 E-MAIL: jacquelyn.england@ghd.com

LOG CODE: BTSS
 1680 Rogers Ave, San Jose, CA, 95112
 Blaine Tech Services, Inc
 ADDRESS: _____

PROJECT CONTACT (through or PDF Report to):
 TELEPHONE: (707)523-1010
 FAX: _____
 E-MAIL: jacquelyn.england@ghd.com

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY: _____
 DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____
 TEMPERATURE ON RECEIPT C° Cooler #1 _____ Cooler #2 _____ Cooler #3 _____

SPECIAL INSTRUCTIONS OR NOTES :
 SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED
 PROVIDE LEDD DISK

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	
	DATE	TIME	DATE	TIME		HCL	HNO3	H2SO4		NONE
	MW-307		12/14/21	1220	GW	X	X	X		9
	MW-308			1310		X	X	X		7
	TES-MW-1			1350		X	X	X		6
	MW-101			1430		X	X	X		6
	MW-05		12/16/21	0840		X	X	X		6
	MW-104			0910		X	X	X		7
	MW-105			0940		X	X	X		7
	MW-111			1020		X	X	X		6
	MW-112A			1100		X	X	X		6
	SA-04			1140		X	X	X		6

RECEIVED BY (Signature) _____
 RECEIVED BY (Signature) _____
 RECEIVED BY (Signature) _____
 Date: 12/16/21
 Date: _____
 Date: _____

UNIT COST: _____
 NON-UNIT COST: _____
 FIELD NOTES: _____
 TEMPERATURE ON RECEIPT C°: _____
 Container PID Readings or Laboratory Notes: _____

Requested Analysis: _____
 300.0 Sulfide
 82700 SIM PAHs
 MWTPH-DX
 8260C BTEX
 300.0 Chloride
 6020A Disc. Iron & Manganese (lab filter)
 353.2 Nitrate & Nitrite
 6020A Total Lead
 MWTPH-DX
 23208 Alkalinity

Requested Analysis: _____
 UNIT COST: _____
 NON-UNIT COST: _____
 FIELD NOTES: _____
 TEMPERATURE ON RECEIPT C°: _____
 Container PID Readings or Laboratory Notes: _____

Requested Analysis: _____
 UNIT COST: _____
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 TEMPERATURE ON RECEIPT C°: _____
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Requested Analysis: _____
 UNIT COST: _____
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 FIELD NOTES: _____
 TEMPERATURE ON RECEIPT C°: _____
 Container PID Readings or Laboratory Notes: _____

LAB (LOCATION)

- ACCUST ()
- CALSCIENCE ()
- TESTAMERICA ()
- Other ()



Shell Oil Products US Chain of Custody Record

Please Check Appropriate Box:

SOW FOG PIPELINE RETAIL

CHEMICALS CONSULTANT LUBES

TRANSPORTATION OTHER

Print Bill To Contact Name: **PlaNat Site or Project ID**

PO # **GSAP Project ID**

DATE: **2/16/21** CHECK IF NO INCIDENT # APPLIES

PAGE: **3** of **3**

SAMPLING COMPANY: **Blaine Tech Services, Inc**

ADDRESS: **1680 Rogers Ave, San Jose, CA, 95112**

TELEPHONE: **(707)523-1010** FAX: **Jacquelyn.england@ghd.com**

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) 5 DAYS 3 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LAB USE ONLY: **Jacquelyn England, GHD, Santa Rosa**

STATE: **WA** PHONE NO: **(707)523-1010**

SITE ADDRESS: **Sheet and City** **2555 13th Avenue**

STATE: **WA** PHONE NO: **(707)523-1010**

PROJECT CONTACT (Name, Title, Company, Office Location): **Jacquelyn England, GHD, Santa Rosa**

SAMPLER NAME(S) (Print): **Alex Kave**

GHG Project / Task Number: **11218519**

E-MAIL: **Jacquelyn.england@ghd.com**

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

PROVIDE LEDD DISK

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	UNIT COST	NON-UNIT COST	FIELD NOTES:
		DATE	TIME		HCL	HNO3/H2SO4	NONE				
	MW-301	2/16/21	0925	GW	X			4			
	MW-304		1007		X	X		9			
	MW-310		1103		X	X		9			
	MW-311		1209		X	X		7			
	MW-312		1240		X	X		7			
	MW-315		1326		X			6			
	MW-313		1420		X			6			
	MW-213		1410		X	X		8			
	MW-302		1512		X	X		9			

Container PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

Requested by (Signature): *[Signature]* Date: **2/16/21** Time: **1600**

Received by (Signature): *[Signature]* Date: _____ Time: _____

Received by (Signature): _____ Date: _____ Time: _____

Appendix B

Laboratory Analytical Results

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-14948-1
Laboratory SDG: 2555 13th Avenue SW, Seattle, WA
Client Project/Site: Triton West Consent Decree

For:
GHD Services Inc.
2235 Mercury Way
Suite 150
Santa Rosa, California 95407

Attn: Jacquelyn England

Roxanne Cisneros

Authorized for release by:
4/29/2021 8:36:34 AM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative	3
Sample Summary	5
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Client Sample Results	7
QC Sample Results	14
Chronicle	18
Certification Summary	21
Method Summary	22
Chain of Custody	23
Receipt Checklists	27

Case Narrative

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Job ID: 590-14948-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Job Narrative 590-14948-1

Comments

There is no volume remaining for Gx for sample MW-312 (590-14948-8). All vials were used for 8260.

Receipt

The samples were received on 4/13/2021 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° C.

GC/MS VOA

Method 8260D: Surrogate recovery for the following samples were outside control limits: MW-303 (590-14948-2), MW-307 (590-14948-4) and MW-310 (590-14948-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-303 (590-14948-2), MW-304 (590-14948-3) and MW-312 (590-14948-8). Elevated reporting limits (RLs) are provided.

Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-302 (590-14948-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-307 (590-14948-4). Elevated reporting limits (RLs) are provided.

Method 8260D: There is a possible high bias for benzene and ethylbenzene for the sample 590-14948-5 from carryover of a previous sample. There is insufficient sample volume for reanalysis. MW-308 (590-14948-5)

Method 8260D: There is a possible high bias for ethylbenzene for the sample 590-14948-3 from carryover of a previous sample. There is insufficient sample volume for reanalysis. MW-304 (590-14948-3)

Method 8260D: The following samples are reporting analytes over the calibration range due to dilutions that were run were over the calibration range and therefore does not represent the sample accurately. There is insufficient sample volume for reanalysis. MW-307 (590-14948-4), MW-315 (590-14948-11) and TX-03A (590-14948-12)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: MW-307 (590-14948-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: MW-315 (590-14948-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-313 (590-14948-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-354398, so a LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Job ID: 590-14948-1 (Continued)

Laboratory: Eurofins TestAmerica, Spokane (Continued)

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14948-1	MW-301	Water	04/13/21 08:29	04/13/21 15:10	
590-14948-2	MW-303	Water	04/13/21 08:57	04/13/21 15:10	
590-14948-3	MW-304	Water	04/13/21 07:46	04/13/21 15:10	
590-14948-4	MW-307	Water	04/12/21 12:43	04/13/21 15:10	
590-14948-5	MW-308	Water	04/12/21 12:12	04/13/21 15:10	
590-14948-6	MW-310	Water	04/12/21 13:34	04/13/21 15:10	
590-14948-7	MW-311	Water	04/13/21 10:13	04/13/21 15:10	
590-14948-8	MW-312	Water	04/13/21 10:46	04/13/21 15:10	
590-14948-9	MW-313	Water	04/13/21 11:13	04/13/21 15:10	
590-14948-10	MW-314	Water	04/13/21 09:33	04/13/21 15:10	
590-14948-11	MW-315	Water	04/13/21 11:50	04/13/21 15:10	
590-14948-12	TX-03A	Water	04/12/21 14:12	04/13/21 15:10	
590-14948-13	TB-01	Water	04/12/21 08:00	04/13/21 15:10	
590-14948-14	MW-302	Water	04/13/21 12:33	04/13/21 15:10	

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
S1-	Surrogate recovery exceeds control limits, low biased.

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-301

Lab Sample ID: 590-14948-1

Date Collected: 04/13/21 08:29

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	23.8		0.200		ug/L			04/21/21 03:33	1
Toluene	1.05		0.200		ug/L			04/21/21 03:33	1
Ethylbenzene	7.67		0.200		ug/L			04/21/21 03:33	1
Xylenes, Total	0.879		0.500		ug/L			04/21/21 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/21/21 03:33	1
Dibromofluoromethane (Surr)	91		80 - 120		04/21/21 03:33	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/21/21 03:33	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		04/21/21 03:33	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1690		250		ug/L			04/22/21 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		50 - 150		04/22/21 06:03	1

Client Sample ID: MW-303

Lab Sample ID: 590-14948-2

Date Collected: 04/13/21 08:57

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13.5		0.200		ug/L			04/21/21 03:58	1
Toluene	1.70		0.200		ug/L			04/21/21 03:58	1
Xylenes, Total	10.4		0.500		ug/L			04/21/21 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		04/21/21 03:58	1
Dibromofluoromethane (Surr)	84		80 - 120		04/21/21 03:58	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/21/21 03:58	1
1,2-Dichloroethane-d4 (Surr)	76	S1-	80 - 120		04/21/21 03:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	37.1		20.0		ug/L			04/23/21 17:20	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/23/21 17:20	100
Dibromofluoromethane (Surr)	95		80 - 120		04/23/21 17:20	100
4-Bromofluorobenzene (Surr)	97		80 - 120		04/23/21 17:20	100
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		04/23/21 17:20	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	4070		250		ug/L			04/22/21 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		50 - 150		04/22/21 06:28	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-304

Lab Sample ID: 590-14948-3

Date Collected: 04/13/21 07:46

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.94		0.200		ug/L			04/21/21 04:22	1
Toluene	ND		0.200		ug/L			04/21/21 04:22	1
Ethylbenzene	1.07		0.200		ug/L			04/21/21 04:22	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	102		80 - 120		04/21/21 04:22	1
<i>Dibromofluoromethane (Surr)</i>	88		80 - 120		04/21/21 04:22	1
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120		04/21/21 04:22	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	91		80 - 120		04/21/21 04:22	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	307		250		ug/L			04/22/21 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	95		50 - 150		04/22/21 06:52	1

Client Sample ID: MW-307

Lab Sample ID: 590-14948-4

Date Collected: 04/12/21 12:43

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	22.8		0.200		ug/L			04/21/21 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	105		80 - 120		04/21/21 04:47	1
<i>Dibromofluoromethane (Surr)</i>	79	S1-	80 - 120		04/21/21 04:47	1
<i>4-Bromofluorobenzene (Surr)</i>	102		80 - 120		04/21/21 04:47	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	69	S1-	80 - 120		04/21/21 04:47	1

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	133	E	0.200		ug/L			04/23/21 14:02	1
Ethylbenzene	93.0	E	0.200		ug/L			04/23/21 14:02	1
Xylenes, Total	95.0	E	0.500		ug/L			04/23/21 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	105		80 - 120		04/23/21 14:02	1
<i>Dibromofluoromethane (Surr)</i>	80		80 - 120		04/23/21 14:02	1
<i>4-Bromofluorobenzene (Surr)</i>	102		80 - 120		04/23/21 14:02	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	80		80 - 120		04/23/21 14:02	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	4060		250		ug/L			04/22/21 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	157	S1+	50 - 150		04/22/21 07:17	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-308

Lab Sample ID: 590-14948-5

Date Collected: 04/12/21 12:12

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	36.5		0.200		ug/L			04/21/21 05:12	1
Toluene	0.521		0.200		ug/L			04/21/21 05:12	1
Ethylbenzene	0.515		0.200		ug/L			04/21/21 05:12	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		04/21/21 05:12	1
Dibromofluoromethane (Surr)	92		80 - 120		04/21/21 05:12	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/21/21 05:12	1
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		04/21/21 05:12	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	267		250		ug/L			04/22/21 08:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		50 - 150		04/22/21 08:06	1

Client Sample ID: MW-310

Lab Sample ID: 590-14948-6

Date Collected: 04/12/21 13:34

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	22.1		0.200		ug/L			04/21/21 05:37	1
Toluene	0.414		0.200		ug/L			04/21/21 05:37	1
Ethylbenzene	2.69		0.200		ug/L			04/21/21 05:37	1
Xylenes, Total	0.570		0.500		ug/L			04/21/21 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		04/21/21 05:37	1
Dibromofluoromethane (Surr)	80		80 - 120		04/21/21 05:37	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/21/21 05:37	1
1,2-Dichloroethane-d4 (Surr)	78	S1-	80 - 120		04/21/21 05:37	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1610		250		ug/L			04/22/21 08:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		50 - 150		04/22/21 08:31	1

Client Sample ID: MW-311

Lab Sample ID: 590-14948-7

Date Collected: 04/13/21 10:13

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/21/21 06:02	1
Toluene	1.02		0.200		ug/L			04/21/21 06:02	1
Ethylbenzene	0.247		0.200		ug/L			04/21/21 06:02	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 06:02	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-311

Lab Sample ID: 590-14948-7

Date Collected: 04/13/21 10:13

Matrix: Water

Date Received: 04/13/21 15:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/21/21 06:02	1
Dibromofluoromethane (Surr)	93		80 - 120		04/21/21 06:02	1
4-Bromofluorobenzene (Surr)	101		80 - 120		04/21/21 06:02	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		04/21/21 06:02	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1320		250		ug/L			04/23/21 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138		50 - 150		04/23/21 20:23	1

Client Sample ID: MW-312

Lab Sample ID: 590-14948-8

Date Collected: 04/13/21 10:46

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	2.44		0.200		ug/L			04/21/21 06:26	1
Ethylbenzene	4.53		0.200		ug/L			04/21/21 06:26	1
Xylenes, Total	2.19		0.500		ug/L			04/21/21 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		04/21/21 06:26	1
Dibromofluoromethane (Surr)	92		80 - 120		04/21/21 06:26	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/21/21 06:26	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		04/21/21 06:26	1

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	121		20.0		ug/L			04/23/21 16:31	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/23/21 16:31	100
Dibromofluoromethane (Surr)	95		80 - 120		04/23/21 16:31	100
4-Bromofluorobenzene (Surr)	98		80 - 120		04/23/21 16:31	100
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		04/23/21 16:31	100

Client Sample ID: MW-313

Lab Sample ID: 590-14948-9

Date Collected: 04/13/21 11:13

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/23/21 14:51	1
Toluene	ND		0.200		ug/L			04/23/21 14:51	1
Ethylbenzene	ND		0.200		ug/L			04/23/21 14:51	1
Xylenes, Total	ND		0.500		ug/L			04/23/21 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		04/23/21 14:51	1
Dibromofluoromethane (Surr)	95		80 - 120		04/23/21 14:51	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-313

Lab Sample ID: 590-14948-9

Date Collected: 04/13/21 11:13

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		04/23/21 14:51	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		04/23/21 14:51	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		250		ug/L			04/23/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150		04/23/21 20:48	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C24)	272		110		ug/L		04/15/21 11:28	04/17/21 01:51	1
Motor Oil (>C24-C36)	ND		350		ug/L		04/15/21 11:28	04/17/21 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150	04/15/21 11:28	04/17/21 01:51	1

Client Sample ID: MW-314

Lab Sample ID: 590-14948-10

Date Collected: 04/13/21 09:33

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/23/21 15:17	1
Toluene	0.391		0.200		ug/L			04/23/21 15:17	1
Ethylbenzene	ND		0.200		ug/L			04/23/21 15:17	1
Xylenes, Total	ND		0.500		ug/L			04/23/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/23/21 15:17	1
Dibromofluoromethane (Surr)	92		80 - 120		04/23/21 15:17	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/23/21 15:17	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		04/23/21 15:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	363		250		ug/L			04/23/21 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		50 - 150		04/23/21 21:13	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C24)	2750		110		ug/L		04/15/21 11:28	04/17/21 02:11	1
Motor Oil (>C24-C36)	745		351		ug/L		04/15/21 11:28	04/17/21 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	04/15/21 11:28	04/17/21 02:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-315

Lab Sample ID: 590-14948-11

Date Collected: 04/13/21 11:50

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	66.6	E	0.200		ug/L			04/23/21 15:41	1
Toluene	4.93		0.200		ug/L			04/23/21 15:41	1
Ethylbenzene	1.41		0.200		ug/L			04/23/21 15:41	1
Xylenes, Total	2.56		0.500		ug/L			04/23/21 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		04/23/21 15:41	1
Dibromofluoromethane (Surr)	93		80 - 120		04/23/21 15:41	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/23/21 15:41	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		04/23/21 15:41	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2900		250		ug/L			04/23/21 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	50 - 150		04/23/21 21:37	1

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C24)	5040		111		ug/L		04/15/21 11:28	04/17/21 02:31	1
Motor Oil (>C24-C36)	691		354		ug/L		04/15/21 11:28	04/17/21 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	04/15/21 11:28	04/17/21 02:31	1

Client Sample ID: TX-03A

Lab Sample ID: 590-14948-12

Date Collected: 04/12/21 14:12

Matrix: Water

Date Received: 04/13/21 15:10

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	66.5	E	0.200		ug/L			04/23/21 13:37	1
Toluene	1.51		0.200		ug/L			04/23/21 13:37	1
Ethylbenzene	9.55		0.200		ug/L			04/23/21 13:37	1
Xylenes, Total	ND		0.500		ug/L			04/23/21 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		04/23/21 13:37	1
Dibromofluoromethane (Surr)	96		80 - 120		04/23/21 13:37	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/23/21 13:37	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		04/23/21 13:37	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	465		250		ug/L			04/22/21 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		50 - 150		04/22/21 08:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: TB-01
Date Collected: 04/12/21 08:00
Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-13
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/21/21 00:40	1
Toluene	0.271		0.200		ug/L			04/21/21 00:40	1
Ethylbenzene	ND		0.200		ug/L			04/21/21 00:40	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/21/21 00:40	1
Dibromofluoromethane (Surr)	97		80 - 120		04/21/21 00:40	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/21/21 00:40	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		04/21/21 00:40	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		250		ug/L			04/22/21 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150		04/22/21 05:14	1

Client Sample ID: MW-302
Date Collected: 04/13/21 12:33
Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-14
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.16		0.200		ug/L			04/23/21 16:06	1
Toluene	0.526		0.200		ug/L			04/23/21 16:06	1
Ethylbenzene	17.8		0.200		ug/L			04/23/21 16:06	1
Xylenes, Total	4.19		0.500		ug/L			04/23/21 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		04/23/21 16:06	1
Dibromofluoromethane (Surr)	79	S1-	80 - 120		04/23/21 16:06	1
4-Bromofluorobenzene (Surr)	97		80 - 120		04/23/21 16:06	1
1,2-Dichloroethane-d4 (Surr)	71	S1-	80 - 120		04/23/21 16:06	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1850		250		ug/L			04/23/21 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		50 - 150		04/23/21 22:02	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-354775/7
Matrix: Water
Analysis Batch: 354775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/21/21 00:15	1
Toluene	ND		0.200		ug/L			04/21/21 00:15	1
Ethylbenzene	ND		0.200		ug/L			04/21/21 00:15	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 00:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	102		80 - 120		04/21/21 00:15	1
<i>Dibromofluoromethane (Surr)</i>	97		80 - 120		04/21/21 00:15	1
<i>4-Bromofluorobenzene (Surr)</i>	99		80 - 120		04/21/21 00:15	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		80 - 120		04/21/21 00:15	1

Lab Sample ID: LCS 580-354775/4
Matrix: Water
Analysis Batch: 354775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.240		ug/L		105	73 - 120
Toluene	5.00	5.179		ug/L		104	80 - 126
Ethylbenzene	5.00	5.181		ug/L		104	80 - 130
m-Xylene & p-Xylene	5.00	5.318		ug/L		106	86 - 130
o-Xylene	5.00	5.057		ug/L		101	80 - 133
Xylenes, Total	10.0	10.38		ug/L		104	73 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	101		80 - 120
<i>Dibromofluoromethane (Surr)</i>	99		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		80 - 120

Lab Sample ID: LCSD 580-354775/5
Matrix: Water
Analysis Batch: 354775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.089		ug/L		102	73 - 120	3	10
Toluene	5.00	5.088		ug/L		102	80 - 126	2	20
Ethylbenzene	5.00	5.067		ug/L		101	80 - 130	2	10
m-Xylene & p-Xylene	5.00	5.170		ug/L		103	86 - 130	3	10
o-Xylene	5.00	4.947		ug/L		99	80 - 133	2	10
Xylenes, Total	10.0	10.12		ug/L		101	73 - 142	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	103		80 - 120
<i>Dibromofluoromethane (Surr)</i>	99		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-355100/7
Matrix: Water
Analysis Batch: 355100

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/23/21 12:48	1
Toluene	ND		0.200		ug/L			04/23/21 12:48	1
Ethylbenzene	ND		0.200		ug/L			04/23/21 12:48	1
Xylenes, Total	ND		0.500		ug/L			04/23/21 12:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	103		80 - 120		04/23/21 12:48	1
<i>Dibromofluoromethane (Surr)</i>	97		80 - 120		04/23/21 12:48	1
<i>4-Bromofluorobenzene (Surr)</i>	96		80 - 120		04/23/21 12:48	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	108		80 - 120		04/23/21 12:48	1

Lab Sample ID: LCS 580-355100/4
Matrix: Water
Analysis Batch: 355100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.370		ug/L		107	73 - 120
Toluene	5.00	5.454		ug/L		109	80 - 126
Ethylbenzene	5.00	5.517		ug/L		110	80 - 130
m-Xylene & p-Xylene	5.00	5.628		ug/L		113	86 - 130
o-Xylene	5.00	5.440		ug/L		109	80 - 133
Xylenes, Total	10.0	11.07		ug/L		111	73 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	103		80 - 120
<i>Dibromofluoromethane (Surr)</i>	101		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	96		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		80 - 120

Lab Sample ID: LCSD 580-355100/5
Matrix: Water
Analysis Batch: 355100

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.075		ug/L		101	73 - 120	6	10
Toluene	5.00	5.216		ug/L		104	80 - 126	4	20
Ethylbenzene	5.00	5.297		ug/L		106	80 - 130	4	10
m-Xylene & p-Xylene	5.00	5.443		ug/L		109	86 - 130	3	10
o-Xylene	5.00	5.267		ug/L		105	80 - 133	3	10
Xylenes, Total	10.0	10.71		ug/L		107	73 - 142	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	104		80 - 120
<i>Dibromofluoromethane (Surr)</i>	101		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	98		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-354853/4
Matrix: Water
Analysis Batch: 354853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		250		ug/L			04/22/21 03:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150					04/22/21 03:36	1

Lab Sample ID: LCS 580-354853/5
Matrix: Water
Analysis Batch: 354853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH as Gasoline	1000	923.3		ug/L		92	79 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		50 - 150						

Lab Sample ID: LCSD 580-354853/6
Matrix: Water
Analysis Batch: 354853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline	1000	926.0		ug/L		93	79 - 120	0	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		50 - 150						

Lab Sample ID: MB 580-354977/26
Matrix: Water
Analysis Batch: 354977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		250		ug/L			04/23/21 19:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150					04/23/21 19:10	1

Lab Sample ID: LCS 580-354977/27
Matrix: Water
Analysis Batch: 354977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH as Gasoline	1000	909.2		ug/L		91	79 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		50 - 150						

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-354977/28
Matrix: Water
Analysis Batch: 354977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline	1000	950.6		ug/L		95	79 - 120	4	10
Surrogate									
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		50 - 150						

Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Lab Sample ID: MB 580-354398/1-A
Matrix: Water
Analysis Batch: 354466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C24)	ND		110		ug/L		04/15/21 11:28	04/16/21 19:51	1
Motor Oil (>C24-C36)	ND		350		ug/L		04/15/21 11:28	04/16/21 19:51	1
Surrogate									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				04/15/21 11:28	04/16/21 19:51	1

Lab Sample ID: LCS 580-354398/2-A
Matrix: Water
Analysis Batch: 354466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DRO (C10-C24)	2000	1849		ug/L		92	50 - 120		
Motor Oil (>C24-C36)	2000	1959		ug/L		98	64 - 120		
Surrogate									
	%Recovery	Qualifier	Limits						
o-Terphenyl	99		50 - 150						

Lab Sample ID: LCSD 580-354398/3-A
Matrix: Water
Analysis Batch: 354466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 354398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C24)	2000	1699		ug/L		85	50 - 120	8	26
Motor Oil (>C24-C36)	2000	1788		ug/L		89	64 - 120	9	24
Surrogate									
	%Recovery	Qualifier	Limits						
o-Terphenyl	91		50 - 150						

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-301

Date Collected: 04/13/21 08:29

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 03:33	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 06:03	JSM	TAL SEA

Client Sample ID: MW-303

Date Collected: 04/13/21 08:57

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 03:58	K1G	TAL SEA
Total/NA	Analysis	8260D	DL	100	10 mL	10 mL	355100	04/23/21 17:20	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 06:28	JSM	TAL SEA

Client Sample ID: MW-304

Date Collected: 04/13/21 07:46

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 04:22	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 06:52	JSM	TAL SEA

Client Sample ID: MW-307

Date Collected: 04/12/21 12:43

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 04:47	K1G	TAL SEA
Total/NA	Analysis	8260D	RA	1	10 mL	10 mL	355100	04/23/21 14:02	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 07:17	JSM	TAL SEA

Client Sample ID: MW-308

Date Collected: 04/12/21 12:12

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 05:12	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 08:06	JSM	TAL SEA

Client Sample ID: MW-310

Date Collected: 04/12/21 13:34

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 05:37	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 08:31	JSM	TAL SEA

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-311

Lab Sample ID: 590-14948-7

Date Collected: 04/13/21 10:13

Matrix: Water

Date Received: 04/13/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 06:02	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 20:23	JSM	TAL SEA

Client Sample ID: MW-312

Lab Sample ID: 590-14948-8

Date Collected: 04/13/21 10:46

Matrix: Water

Date Received: 04/13/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 06:26	K1G	TAL SEA
Total/NA	Analysis	8260D	DL	100	10 mL	10 mL	355100	04/23/21 16:31	K1G	TAL SEA

Client Sample ID: MW-313

Lab Sample ID: 590-14948-9

Date Collected: 04/13/21 11:13

Matrix: Water

Date Received: 04/13/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 14:51	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 20:48	JSM	TAL SEA
Total/NA	Prep	3510C			250.2 mL	1 mL	354398	04/15/21 11:28	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1			354466	04/17/21 01:51	JKM	TAL SEA

Client Sample ID: MW-314

Lab Sample ID: 590-14948-10

Date Collected: 04/13/21 09:33

Matrix: Water

Date Received: 04/13/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 15:17	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 21:13	JSM	TAL SEA
Total/NA	Prep	3510C			249.2 mL	1 mL	354398	04/15/21 11:28	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1			354466	04/17/21 02:11	JKM	TAL SEA

Client Sample ID: MW-315

Lab Sample ID: 590-14948-11

Date Collected: 04/13/21 11:50

Matrix: Water

Date Received: 04/13/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 15:41	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 21:37	JSM	TAL SEA
Total/NA	Prep	3510C			247.5 mL	1 mL	354398	04/15/21 11:28	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1			354466	04/17/21 02:31	JKM	TAL SEA

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: TX-03A

Date Collected: 04/12/21 14:12

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 13:37	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 08:55	JSM	TAL SEA

Client Sample ID: TB-01

Date Collected: 04/12/21 08:00

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 00:40	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 05:14	JSM	TAL SEA

Client Sample ID: MW-302

Date Collected: 04/13/21 12:33

Date Received: 04/13/21 15:10

Lab Sample ID: 590-14948-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 16:06	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 22:02	JSM	TAL SEA

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	WA100007	11-05-21
Washington	State	C788	07-13-21

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12

Method Summary

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL SEA
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH-Dx	NWTPH	TAL SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SEA
5030B	Purge and Trap	SW846	TAL SEA

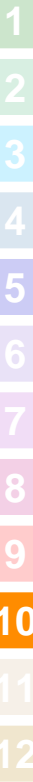
Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



LAB (LOCATION)

Shell Oil Products US Chain of Custody Record



ACCOUNT ()
 CALSCIENCE ()
 TESTAMERICA ()
 Other ()

Lab Vendor # _____ Dropdown _____

LOG CODE: BTSS

1680 Rogers Ave, San Jose, CA, 95112

Jacquelyn England

707523-1010

707523-1010

5 DAYS

24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT

LEVEL 1

LEVEL 2

LEVEL 3

LEVEL 4

OTHER (SPECIFY)

COOLER #1

COOLER #2

COOLER #3

SPECIAL INSTRUCTIONS OR NOTES:

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

PROVIDE LEDD DISK

FIELD SAMPLE IDENTIFICATION

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	
		DATE	TIME		HCL	HNO3	H2SO4		NONE
	MW-301	4/13	0829	GW					4
	MW-303	4/13	0957	GW					4
	MW-304	4/13	0746	GW					4
	MW-307	4/12	1243	GW					4
	MW-308	4/12	1212	GW					4
	MW-310	4/12	1334	GW					4
	MW-311	4/13	1013	GW					4
	MW-312	4/13	1046	GW					4
	MW-313	4/13	1113	GW					6
	MW-314	4/13	0933	GW					6

Received by: (Signature) *[Signature]* Date: 4/13/21

Received by: (Signature) *[Signature]* Date: 4/13/21

Received by: (Signature) _____ Date: _____

Received by: (Signature) _____ Date: _____

Therm. ID: J19 Cor: 0.4 ° Unc: 0.2 °

Cooler Disc: 90

Packing: 90

FedEx: 90

UPS: 90

Cust. Seal: Yes No X

Lab Cour: 90

Blue Ice: Wet Dry, None

Other: Clean





LAB (LOCATION)

ACCUST ()
 CALSCIENCE ()
 TESTAMERICA ()
 Other ()

SCW FDG
 PIPELINE
 RETAIL
 CHEMICALS
 CONSULTANT
 LUBES
 TRANSPORTATION
 OTHER

Print Bill To Contact Name: _____
 PlanNet Site or Project ID: _____
 PO # _____
 GSAP Project ID: _____

CHECK IF NO INCIDENT # APPLIES
 DATE: 4/12-4/13/21
 PAGE: 2 of 2

SAMPLING COMPANY: Blaine Tech Services, Inc
 ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112
 LOG CODE: BTSS
 PROJECT CONTACT (Hardcopy or PDF Report to): jacquelyn.england@ghd.com
 TELEPHONE: (707)523-1010
 FAC: jacquelyn.england@ghd.com
 TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (1-4 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 LA - RWQCB REPORT FORMAT UST AGENCY: _____
 DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____
 TEMPERATURE ON RECEIPT C° Cooler #1 _____ Cooler #2 _____

SITE ADDRESS: Street and city: 2555 13th Avenue
 STATE: WA
 ZIP: 98101
 PHONE NO: (707)523-1010
 EMAIL: jacquelyn.england@ghd.com
 GHD Project / Task Number: 11218519
 ACORN Char ID: _____
 SAMPPLER NAME(S) (Print): Foster Koetzel

SPECIAL INSTRUCTIONS OR NOTES:

- SHELL CONTRACT RATE APPLIES
- STATE REIMBURSEMENT RATE APPLIES
- EDD NOT NEEDED
- RECEIPT VERIFICATION REQUESTED
- PROVIDE LEDD DISK

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	UNIT COST	NON-UNIT COST	FIELD NOTES:
	DATE	TIME	HCL	HNO3		H2SO4	NONE	OTHER				
	MW-315	4/13	1150	6W	6				6	8280C BTEX		
	TX-03A	4/13	1412	6W	4				4	NWTPH-DX		
	TB-01	4/12	0800	6W	2				2	8270D SIM PAHs		
	MW-302	4/13	1233	6W	4				4	8280C BTEX		
										300.0 Sulfate		
										NWTPH-GX		
										8030A Total Lead		
										353.2 Nitrate & Nitrite		
										6020A Dis. Iron & Manganese (lab filter)		
										300.0 Chloride		
										2320B Alkalinity		
												Container PID Readings or Laboratory Notes

Received by (Signature): _____
 Date: 4/13/21
 Time: 1425
 Received by (Signature): _____
 Date: _____
 Time: _____
 Received by (Signature): _____
 Date: _____
 Time: _____



Eurofins TestAmerica, Spokane

11922 East 1st Ave
 Spokane, WA 99206
 Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 590-5917.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 2

Company: Eurofins Frontier Global Sciences LLC	Accreditations Required (See note): NELAP - Oregon; State Program - Washington	Job #: 590-14948-1
---	---	-----------------------

Address: 5755 8th Street East, City: Tacoma State, Zip: WA, 98424 Phone: 253-922-2310(Tel) 425-420-9210(Fax) Email:	Due Date Requested: 4/26/2021 TAT Requested (days):	<table border="1"> <tr> <th colspan="12">Analysis Requested</th> </tr> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>8260D_LL5030B (MOD) BTEX</td> <td>NWTPH_Gx5030B NWTPH-Gx</td> <td>NWTPH_Dx3510C_LVI_14d NWTPH-Dx w/o SGT LVI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="4">Total Number of containers</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	Analysis Requested												Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL5030B (MOD) BTEX	NWTPH_Gx5030B NWTPH-Gx	NWTPH_Dx3510C_LVI_14d NWTPH-Dx w/o SGT LVI								Total Number of containers																																					Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
Analysis Requested																																																																
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)		8260D_LL5030B (MOD) BTEX	NWTPH_Gx5030B NWTPH-Gx	NWTPH_Dx3510C_LVI_14d NWTPH-Dx w/o SGT LVI								Total Number of containers																																																			
Project Name: Triton West Consent Decree Site:	Project #: 59002120 SSOW#:																																																															

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL5030B (MOD) BTEX	NWTPH_Gx5030B NWTPH-Gx	NWTPH_Dx3510C_LVI_14d NWTPH-Dx w/o SGT LVI									Special Instructions/Note:
MW-301 (590-14948-1)	4/13/21	08:29 Pacific		Water			X	X										
MW-303 (590-14948-2)	4/13/21	08:57 Pacific		Water			X	X										
MW-304 (590-14948-3)	4/13/21	07:46 Pacific		Water			X	X										
MW-307 (590-14948-4)	4/12/21	12:43 Pacific		Water			X	X										
MW-308 (590-14948-5)	4/12/21	12:12 Pacific		Water			X	X										
MW-310 (590-14948-6)	4/12/21	13:34 Pacific		Water			X	X										
MW-311 (590-14948-7)	4/13/21	10:13 Pacific		Water			X	X										
MW-312 (590-14948-8)	4/13/21	10:46 Pacific		Water			X	X										
MW-313 (590-14948-9)	4/13/21	11:13 Pacific		Water			X	X	X									w/o SGT

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2
Empty Kit Relinquished by:	Special Instructions/QC Requirements:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:			<i>[Signature]</i>	4/13/21 1405	EFGS
Relinquished by:			Received by:	Date/Time:	Company:
Relinquished by:			Received by:	Date/Time:	Company:



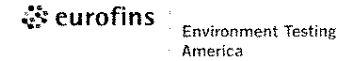
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
-------------------------------------	-------------------

Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Spokane

11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM: Cisneros, Roxanne		Carrier Tracking No(s):		COC No: 590-5917.2																																																																																																																																																																																																															
Client Contact: Shipping/Receiving		Phone:		E-Mail: roxanne.cisneros@Eurofinset.com		State of Origin: Washington		Page: Page 2 of 2																																																																																																																																																																																																															
Company: Eurofins Frontier Global Sciences LLC				Accreditations Required (See note): NELAP - Oregon; State Program - Washington				Job #: 590-14948-1																																																																																																																																																																																																															
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Email:		WO #:																																																																																																																																																																																																																					
Project Name: Triton West Consent Decree		Project #: 59002120		<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8260D_LL/5030B (MOD) BTEX</th> <th>NWTPH_Cx/5030B NWTPH-Gx</th> <th>NWTPH_Dz/3510C_L.VI_14d NWTPH-Dx w/o SGT LVI</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>MW-314 (590-14948-10)</td> <td>4/13/21</td> <td>09:33 Pacific</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>6</td> <td>w/o SGT</td> </tr> <tr> <td>MW-315 (590-14948-11)</td> <td>4/13/21</td> <td>11:50 Pacific</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>6</td> <td>w/o SGT</td> </tr> <tr> <td>TX-03A (590-14948-12)</td> <td>4/12/21</td> <td>14:12 Pacific</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> </tr> <tr> <td>TB-01 (590-14948-13)</td> <td>4/12/21</td> <td>08:00 Pacific</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>MW-302 (590-14948-14)</td> <td>4/13/21</td> <td>12:33 Pacific</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL/5030B (MOD) BTEX	NWTPH_Cx/5030B NWTPH-Gx	NWTPH_Dz/3510C_L.VI_14d NWTPH-Dx w/o SGT LVI	Total Number of Containers	Special Instructions/Note:	MW-314 (590-14948-10)	4/13/21	09:33 Pacific		Water	X	X	X			6	w/o SGT	MW-315 (590-14948-11)	4/13/21	11:50 Pacific		Water	X	X	X			6	w/o SGT	TX-03A (590-14948-12)	4/12/21	14:12 Pacific		Water	X	X				4		TB-01 (590-14948-13)	4/12/21	08:00 Pacific		Water	X	X				2		MW-302 (590-14948-14)	4/13/21	12:33 Pacific		Water	X	X				4																																																																																																																																					
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Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:			

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
-------------------------------------	-------------------	---

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-14948-1

SDG Number: 2555 13th Avenue SW, Seattle, WA

Login Number: 14948

List Source: Eurofins TestAmerica, Spokane

List Number: 1

Creator: Cisneros, Roxanne

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-14948-1
SDG Number: 2555 13th Avenue SW, Seattle, WA

Login Number: 14948
List Number: 2
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle
List Creation: 04/13/21 05:54 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-14948-1
SDG Number: 2555 13th Avenue SW, Seattle, WA

Login Number: 14948
List Number: 3
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle
List Creation: 04/13/21 05:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4/0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-15331-1

Laboratory SDG: 2555 13th Avenue SW, Seattle, WA
Client Project/Site: Shell - Triton West Consent Decree

For:

GHD Services Inc.
2235 Mercury Way
Suite 150
Santa Rosa, California 95407

Attn: Jacquelyn England

Roxanne Cisneros

Authorized for release by:
7/1/2021 1:42:04 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
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Case Narrative	3
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Client Sample Results	6
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Case Narrative

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Job ID: 590-15331-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Job Narrative 590-15331-1

Comments

No additional comments.

Receipt

The samples were received on 6/18/2021 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 2.3° C.

Receipt Exceptions

The following sample was listed on the Chain of Custody (COC); however, no sample was received: MW-311 (590-15331-11).

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 590-32135.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to gasoline overlap as well as weathered diesel. MW-202 (590-15331-1)

Method NWTPH-Dx: Detected hydrocarbons appear to be due to weathered diesel. MW-307 (590-15331-7), MW-315 (590-15331-14) and MW-112A (590-15331-18)

Method NWTPH-Dx: Detected hydrocarbons appear to be due to gasoline overlap. MW-104 (590-15331-20)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-359719, so a LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-15331-1	MW-202	Water	06/14/21 14:06	06/18/21 16:50	
590-15331-2	MW-203	Water	06/15/21 10:29	06/18/21 16:50	
590-15331-3	MW-301	Water	06/15/21 11:39	06/18/21 16:50	
590-15331-4	MW-302	Water	06/15/21 13:03	06/18/21 16:50	
590-15331-5	MW-303	Water	06/15/21 12:09	06/18/21 16:50	
590-15331-6	MW-304	Water	06/15/21 12:39	06/18/21 16:50	
590-15331-7	MW-307	Water	06/14/21 11:33	06/18/21 16:50	
590-15331-8	MW-308	Water	06/14/21 11:02	06/18/21 16:50	
590-15331-9	MW-309	Water	06/15/21 11:12	06/18/21 16:50	
590-15331-10	MW-310	Water	06/15/21 13:31	06/18/21 16:50	
590-15331-12	MW-312	Water	06/16/21 08:53	06/18/21 16:50	
590-15331-13	MW-313	Water	06/16/21 08:15	06/18/21 16:50	
590-15331-14	MW-315	Water	06/16/21 09:25	06/18/21 16:50	
590-15331-15	TX-03A	Water	06/16/21 10:01	06/18/21 16:50	
590-15331-16	MW-05	Water	06/15/21 08:51	06/18/21 16:50	
590-15331-17	MW-111	Water	06/15/21 07:52	06/18/21 16:50	
590-15331-18	MW-112A	Water	06/15/21 09:49	06/18/21 16:50	
590-15331-19	SH-04	Water	06/15/21 09:20	06/18/21 16:50	
590-15331-20	MW-104	Water	06/15/21 08:25	06/18/21 16:50	
590-15331-21	MW-213	Water	06/14/21 12:33	06/18/21 16:50	
590-15331-22	MW-214	Water	06/14/21 13:10	06/18/21 16:50	
590-15331-23	TB01	Water	06/14/21 12:00	06/18/21 16:50	

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-202
 Date Collected: 06/14/21 14:06
 Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-1
 Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1320		150	70.4	ug/L			06/24/21 21:36	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	101		68.7 - 141					06/24/21 21:36	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	4520		242	111	ug/L		06/28/21 13:07	06/28/21 17:32	1
RRO (C25-C36)	327	J	404	121	ug/L		06/28/21 13:07	06/28/21 17:32	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl	94		50 - 150				06/28/21 13:07	06/28/21 17:32	1
n-Triacontane-d62	100		50 - 150				06/28/21 13:07	06/28/21 17:32	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-203
Date Collected: 06/15/21 10:29
Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-2
Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			06/24/21 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141					06/24/21 22:18	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		246	113	ug/L		06/28/21 13:07	06/28/21 17:54	1
RRO (C25-C36)	267	J	411	123	ug/L		06/28/21 13:07	06/28/21 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150				06/28/21 13:07	06/28/21 17:54	1
n-Triacontane-d62	95		50 - 150				06/28/21 13:07	06/28/21 17:54	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-301
 Date Collected: 06/15/21 11:39
 Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-3
 Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16.8		0.400	0.0930	ug/L			06/24/21 23:21	1
Ethylbenzene	8.22		1.00	0.198	ug/L			06/24/21 23:21	1
Toluene	1.03		1.00	0.312	ug/L			06/24/21 23:21	1
Xylenes, Total	1.01	J	3.00	0.442	ug/L			06/24/21 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		06/24/21 23:21	1
Dibromofluoromethane (Surr)	107		80 - 120		06/24/21 23:21	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		06/24/21 23:21	1
Toluene-d8 (Surr)	92		80 - 120		06/24/21 23:21	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	439		150	70.4	ug/L			06/24/21 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141		06/24/21 23:21	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-302
 Date Collected: 06/15/21 13:03
 Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-4
 Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20.3		0.400	0.0930	ug/L			06/24/21 23:41	1
Ethylbenzene	61.4		1.00	0.198	ug/L			06/24/21 23:41	1
Toluene	1.93		1.00	0.312	ug/L			06/24/21 23:41	1
Xylenes, Total	10.1		3.00	0.442	ug/L			06/24/21 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		06/24/21 23:41	1
Dibromofluoromethane (Surr)	104		80 - 120		06/24/21 23:41	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		06/24/21 23:41	1
Toluene-d8 (Surr)	92		80 - 120		06/24/21 23:41	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	886		150	70.4	ug/L			06/24/21 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		06/24/21 23:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-303

Lab Sample ID: 590-15331-5

Date Collected: 06/15/21 12:09

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	25.8		0.400	0.0930	ug/L			06/25/21 00:02	1
Ethylbenzene	133		100	19.8	ug/L			06/28/21 11:41	100
Toluene	3.43		1.00	0.312	ug/L			06/25/21 00:02	1
Xylenes, Total	8.67		3.00	0.442	ug/L			06/25/21 00:02	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120			06/25/21 00:02	1
4-Bromofluorobenzene (Surr)	100		80 - 120			06/28/21 11:41	100
Dibromofluoromethane (Surr)	100		80 - 120			06/25/21 00:02	1
Dibromofluoromethane (Surr)	106		80 - 120			06/28/21 11:41	100
1,2-Dichloroethane-d4 (Surr)	103		80 - 120			06/25/21 00:02	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120			06/28/21 11:41	100
Toluene-d8 (Surr)	95		80 - 120			06/25/21 00:02	1
Toluene-d8 (Surr)	98		80 - 120			06/28/21 11:41	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1940		150	70.4	ug/L			06/25/21 00:02	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141			06/25/21 00:02	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-304
Date Collected: 06/15/21 12:39
Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	26.3		0.400	0.0930	ug/L			06/25/21 00:22	1
Ethylbenzene	0.697	J	1.00	0.198	ug/L			06/25/21 00:22	1
Toluene	ND		1.00	0.312	ug/L			06/25/21 00:22	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/25/21 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		06/25/21 00:22	1
Dibromofluoromethane (Surr)	107		80 - 120		06/25/21 00:22	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		06/25/21 00:22	1
Toluene-d8 (Surr)	90		80 - 120		06/25/21 00:22	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	230		150	70.4	ug/L			06/25/21 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		06/25/21 00:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-307

Lab Sample ID: 590-15331-7

Date Collected: 06/14/21 11:33

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	230		40.0	9.30	ug/L			06/25/21 18:01	100
Ethylbenzene	282		100	19.8	ug/L			06/25/21 18:01	100
Toluene	18.0		1.00	0.312	ug/L			06/25/21 01:04	1
Xylenes, Total	88.5		3.00	0.442	ug/L			06/25/21 01:04	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120			06/25/21 01:04	1
4-Bromofluorobenzene (Surr)	101		80 - 120			06/25/21 18:01	100
Dibromofluoromethane (Surr)	100		80 - 120			06/25/21 01:04	1
Dibromofluoromethane (Surr)	99		80 - 120			06/25/21 18:01	100
1,2-Dichloroethane-d4 (Surr)	100		80 - 120			06/25/21 01:04	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120			06/25/21 18:01	100
Toluene-d8 (Surr)	95		80 - 120			06/25/21 01:04	1
Toluene-d8 (Surr)	98		80 - 120			06/25/21 18:01	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2020		150	70.4	ug/L			06/25/21 01:04	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141			06/25/21 01:04	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	6680		240	110	ug/L		06/28/21 13:07	06/28/21 18:37	1
RRO (C25-C36)	422		400	120	ug/L		06/28/21 13:07	06/28/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150		06/28/21 13:07	06/28/21 18:37	1
n-Triacontane-d62	96		50 - 150		06/28/21 13:07	06/28/21 18:37	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-308

Lab Sample ID: 590-15331-8

Date Collected: 06/14/21 11:02

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	57.2		0.400	0.0930	ug/L			06/25/21 01:24	1
Ethylbenzene	0.975	J	1.00	0.198	ug/L			06/25/21 01:24	1
Toluene	1.39		1.00	0.312	ug/L			06/25/21 01:24	1
Xylenes, Total	1.55	J	3.00	0.442	ug/L			06/25/21 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		06/25/21 01:24	1
Dibromofluoromethane (Surr)	106		80 - 120		06/25/21 01:24	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		06/25/21 01:24	1
Toluene-d8 (Surr)	91		80 - 120		06/25/21 01:24	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	793		150	70.4	ug/L			06/25/21 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		68.7 - 141		06/25/21 01:24	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-309
Date Collected: 06/15/21 11:12
Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/25/21 01:45	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/25/21 01:45	1
Toluene	ND		1.00	0.312	ug/L			06/25/21 01:45	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/25/21 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		06/25/21 01:45	1
Dibromofluoromethane (Surr)	103		80 - 120		06/25/21 01:45	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		06/25/21 01:45	1
Toluene-d8 (Surr)	89		80 - 120		06/25/21 01:45	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	150		150	70.4	ug/L			06/25/21 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		06/25/21 01:45	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-310

Lab Sample ID: 590-15331-10

Date Collected: 06/15/21 13:31

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	28.9		0.400	0.0930	ug/L			06/25/21 02:05	1
Ethylbenzene	3.59		1.00	0.198	ug/L			06/25/21 02:05	1
Toluene	0.421	J	1.00	0.312	ug/L			06/25/21 02:05	1
Xylenes, Total	1.17	J	3.00	0.442	ug/L			06/25/21 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		06/25/21 02:05	1
Dibromofluoromethane (Surr)	103		80 - 120		06/25/21 02:05	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		06/25/21 02:05	1
Toluene-d8 (Surr)	92		80 - 120		06/25/21 02:05	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	554		150	70.4	ug/L			06/25/21 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		06/25/21 02:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-312

Lab Sample ID: 590-15331-12

Date Collected: 06/16/21 08:53

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	47.2		0.400	0.0930	ug/L			06/25/21 02:46	1
Ethylbenzene	2.50		1.00	0.198	ug/L			06/25/21 02:46	1
Toluene	2.14		1.00	0.312	ug/L			06/25/21 02:46	1
Xylenes, Total	1.99	J	3.00	0.442	ug/L			06/25/21 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		06/25/21 02:46	1
Dibromofluoromethane (Surr)	101		80 - 120		06/25/21 02:46	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		06/25/21 02:46	1
Toluene-d8 (Surr)	91		80 - 120		06/25/21 02:46	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1570		150	70.4	ug/L			06/25/21 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141		06/25/21 02:46	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-313

Lab Sample ID: 590-15331-13

Date Collected: 06/16/21 08:15

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/25/21 03:07	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/25/21 03:07	1
Toluene	ND		1.00	0.312	ug/L			06/25/21 03:07	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/25/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		06/25/21 03:07	1
Dibromofluoromethane (Surr)	104		80 - 120		06/25/21 03:07	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		06/25/21 03:07	1
Toluene-d8 (Surr)	92		80 - 120		06/25/21 03:07	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			06/25/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141		06/25/21 03:07	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	156	J	241	110	ug/L		06/28/21 13:07	06/28/21 18:59	1
RRO (C25-C36)	ND		401	120	ug/L		06/28/21 13:07	06/28/21 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150	06/28/21 13:07	06/28/21 18:59	1
n-Triacontane-d62	98		50 - 150	06/28/21 13:07	06/28/21 18:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-315

Lab Sample ID: 590-15331-14

Date Collected: 06/16/21 09:25

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	57.8		0.400	0.0930	ug/L			06/25/21 03:27	1
Ethylbenzene	1.82		1.00	0.198	ug/L			06/25/21 03:27	1
Toluene	4.11		1.00	0.312	ug/L			06/25/21 03:27	1
Xylenes, Total	2.89	J	3.00	0.442	ug/L			06/25/21 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		06/25/21 03:27	1
Dibromofluoromethane (Surr)	102		80 - 120		06/25/21 03:27	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		06/25/21 03:27	1
Toluene-d8 (Surr)	88		80 - 120		06/25/21 03:27	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1660		150	70.4	ug/L			06/25/21 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141		06/25/21 03:27	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	3320		244	112	ug/L		06/28/21 13:07	06/28/21 19:21	1
RRO (C25-C36)	218	J	406	122	ug/L		06/28/21 13:07	06/28/21 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150	06/28/21 13:07	06/28/21 19:21	1
n-Triacontane-d62	92		50 - 150	06/28/21 13:07	06/28/21 19:21	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: TX-03A

Lab Sample ID: 590-15331-15

Date Collected: 06/16/21 10:01

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	41.6		0.400	0.0930	ug/L			06/25/21 03:47	1
Ethylbenzene	19.2		1.00	0.198	ug/L			06/25/21 03:47	1
Toluene	1.51		1.00	0.312	ug/L			06/25/21 03:47	1
Xylenes, Total	0.832	J	3.00	0.442	ug/L			06/25/21 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		06/25/21 03:47	1
Dibromofluoromethane (Surr)	104		80 - 120		06/25/21 03:47	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		06/25/21 03:47	1
Toluene-d8 (Surr)	91		80 - 120		06/25/21 03:47	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	285		150	70.4	ug/L			06/25/21 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141		06/25/21 03:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-05

Lab Sample ID: 590-15331-16

Date Collected: 06/15/21 08:51

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/25/21 04:08	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/25/21 04:08	1
Toluene	ND		1.00	0.312	ug/L			06/25/21 04:08	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/25/21 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		06/25/21 04:08	1
Dibromofluoromethane (Surr)	107		80 - 120		06/25/21 04:08	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		06/25/21 04:08	1
Toluene-d8 (Surr)	92		80 - 120		06/25/21 04:08	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			06/25/21 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		06/25/21 04:08	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		240	110	ug/L		06/28/21 13:07	06/28/21 19:43	1
RRO (C25-C36)	ND		401	120	ug/L		06/28/21 13:07	06/28/21 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150	06/28/21 13:07	06/28/21 19:43	1
n-Triacontane-d62	95		50 - 150	06/28/21 13:07	06/28/21 19:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-111

Lab Sample ID: 590-15331-17

Date Collected: 06/15/21 07:52

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.251	J	0.400	0.0930	ug/L			06/25/21 04:50	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/25/21 04:50	1
Toluene	0.593	J	1.00	0.312	ug/L			06/25/21 04:50	1
Xylenes, Total	1.00	J	3.00	0.442	ug/L			06/25/21 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		06/25/21 04:50	1
Dibromofluoromethane (Surr)	109		80 - 120		06/25/21 04:50	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		06/25/21 04:50	1
Toluene-d8 (Surr)	93		80 - 120		06/25/21 04:50	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	120	J	150	70.4	ug/L			06/25/21 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141		06/25/21 04:50	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		233	107	ug/L		06/28/21 13:07	06/28/21 20:05	1
RRO (C25-C36)	ND		389	117	ug/L		06/28/21 13:07	06/28/21 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	06/28/21 13:07	06/28/21 20:05	1
n-Triacontane-d62	90		50 - 150	06/28/21 13:07	06/28/21 20:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-112A

Lab Sample ID: 590-15331-18

Date Collected: 06/15/21 09:49

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.07		0.400	0.0930	ug/L			06/25/21 05:10	1
Ethylbenzene	7.02		1.00	0.198	ug/L			06/25/21 05:10	1
Toluene	0.659	J	1.00	0.312	ug/L			06/25/21 05:10	1
Xylenes, Total	1.89	J	3.00	0.442	ug/L			06/25/21 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		06/25/21 05:10	1
Dibromofluoromethane (Surr)	101		80 - 120		06/25/21 05:10	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		06/25/21 05:10	1
Toluene-d8 (Surr)	90		80 - 120		06/25/21 05:10	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	976		150	70.4	ug/L			06/25/21 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		68.7 - 141		06/25/21 05:10	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	2580		244	112	ug/L		06/28/21 13:07	06/28/21 20:26	1
RRO (C25-C36)	161	J	407	122	ug/L		06/28/21 13:07	06/28/21 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150	06/28/21 13:07	06/28/21 20:26	1
n-Triacontane-d62	91		50 - 150	06/28/21 13:07	06/28/21 20:26	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: SH-04
Date Collected: 06/15/21 09:20
Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-19
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.25		0.400	0.0930	ug/L			06/25/21 05:31	1
Ethylbenzene	2.94		1.00	0.198	ug/L			06/25/21 05:31	1
Toluene	0.511	J	1.00	0.312	ug/L			06/25/21 05:31	1
Xylenes, Total	1.62	J	3.00	0.442	ug/L			06/25/21 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		06/25/21 05:31	1
Dibromofluoromethane (Surr)	100		80 - 120		06/25/21 05:31	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		06/25/21 05:31	1
Toluene-d8 (Surr)	91		80 - 120		06/25/21 05:31	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	472		150	70.4	ug/L			06/25/21 05:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141		06/25/21 05:31	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	209	J	242	111	ug/L		06/28/21 13:07	06/28/21 20:48	1
RRO (C25-C36)	ND		404	121	ug/L		06/28/21 13:07	06/28/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	06/28/21 13:07	06/28/21 20:48	1
n-Triacontane-d62	94		50 - 150	06/28/21 13:07	06/28/21 20:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-104

Lab Sample ID: 590-15331-20

Date Collected: 06/15/21 08:25

Matrix: Water

Date Received: 06/18/21 16:50

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	948		150	70.4	ug/L			06/25/21 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141					06/25/21 05:51	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	753		237	109	ug/L		06/28/21 13:07	06/28/21 21:10	1
RRO (C25-C36)	ND		395	118	ug/L		06/28/21 13:07	06/28/21 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150				06/28/21 13:07	06/28/21 21:10	1
n-Triacontane-d62	92		50 - 150				06/28/21 13:07	06/28/21 21:10	1

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		60.0	5.10	ug/L		06/29/21 09:25	06/30/21 02:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-213

Lab Sample ID: 590-15331-21

Date Collected: 06/14/21 12:33

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/25/21 18:22	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/25/21 18:22	1
Toluene	ND		1.00	0.312	ug/L			06/25/21 18:22	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/25/21 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		06/25/21 18:22	1
Dibromofluoromethane (Surr)	102		80 - 120		06/25/21 18:22	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		06/25/21 18:22	1
Toluene-d8 (Surr)	95		80 - 120		06/25/21 18:22	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			06/25/21 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		06/25/21 18:22	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.101	0.0142	ug/L		06/19/21 13:14	06/21/21 19:54	1
Acenaphthylene	ND		0.0506	0.00911	ug/L		06/19/21 13:14	06/21/21 19:54	1
Anthracene	ND		0.101	0.0223	ug/L		06/19/21 13:14	06/21/21 19:54	1
Benzo[a]anthracene	ND		0.0506	0.0142	ug/L		06/19/21 13:14	06/21/21 19:54	1
Benzo[a]pyrene	ND		0.101	0.0111	ug/L		06/19/21 13:14	06/21/21 19:54	1
Benzo[b]fluoranthene	ND		0.0506	0.0111	ug/L		06/19/21 13:14	06/21/21 19:54	1
Benzo[g,h,i]perylene	ND		0.0506	0.0122	ug/L		06/19/21 13:14	06/21/21 19:54	1
Benzo[k]fluoranthene	ND		0.0506	0.0122	ug/L		06/19/21 13:14	06/21/21 19:54	1
Chrysene	ND		0.101	0.0162	ug/L		06/19/21 13:14	06/21/21 19:54	1
Dibenz(a,h)anthracene	ND		0.101	0.0152	ug/L		06/19/21 13:14	06/21/21 19:54	1
Fluoranthene	ND		0.203	0.0182	ug/L		06/19/21 13:14	06/21/21 19:54	1
Fluorene	ND		0.101	0.0172	ug/L		06/19/21 13:14	06/21/21 19:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0506	0.0142	ug/L		06/19/21 13:14	06/21/21 19:54	1
1-Methylnaphthalene	ND		0.101	0.0192	ug/L		06/19/21 13:14	06/21/21 19:54	1
2-Methylnaphthalene	0.0402	J	0.203	0.0395	ug/L		06/19/21 13:14	06/21/21 19:54	1
Naphthalene	0.0524	J	0.101	0.0314	ug/L		06/19/21 13:14	06/21/21 19:54	1
Phenanthrene	ND		0.101	0.0314	ug/L		06/19/21 13:14	06/21/21 19:54	1
Pyrene	ND		0.101	0.0334	ug/L		06/19/21 13:14	06/21/21 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	98		29 - 150	06/19/21 13:14	06/21/21 19:54	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		235	108	ug/L		06/28/21 13:07	06/28/21 21:31	1
RRO (C25-C36)	ND		392	118	ug/L		06/28/21 13:07	06/28/21 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150	06/28/21 13:07	06/28/21 21:31	1
n-Triacontane-d62	88		50 - 150	06/28/21 13:07	06/28/21 21:31	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-214

Lab Sample ID: 590-15331-22

Date Collected: 06/14/21 13:10

Matrix: Water

Date Received: 06/18/21 16:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/25/21 18:43	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/25/21 18:43	1
Toluene	ND		1.00	0.312	ug/L			06/25/21 18:43	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/25/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120		06/25/21 18:43	1
Dibromofluoromethane (Surr)	105		80 - 120		06/25/21 18:43	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		06/25/21 18:43	1
Toluene-d8 (Surr)	96		80 - 120		06/25/21 18:43	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			06/25/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141		06/25/21 18:43	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0999	0.0140	ug/L		06/19/21 13:14	06/21/21 20:20	1
Acenaphthylene	ND		0.0499	0.00899	ug/L		06/19/21 13:14	06/21/21 20:20	1
Anthracene	ND		0.0999	0.0220	ug/L		06/19/21 13:14	06/21/21 20:20	1
Benzo[a]anthracene	ND		0.0499	0.0140	ug/L		06/19/21 13:14	06/21/21 20:20	1
Benzo[a]pyrene	ND		0.0999	0.0110	ug/L		06/19/21 13:14	06/21/21 20:20	1
Benzo[b]fluoranthene	ND		0.0499	0.0110	ug/L		06/19/21 13:14	06/21/21 20:20	1
Benzo[g,h,i]perylene	ND		0.0499	0.0120	ug/L		06/19/21 13:14	06/21/21 20:20	1
Benzo[k]fluoranthene	ND		0.0499	0.0120	ug/L		06/19/21 13:14	06/21/21 20:20	1
Chrysene	ND		0.0999	0.0160	ug/L		06/19/21 13:14	06/21/21 20:20	1
Dibenz(a,h)anthracene	ND		0.0999	0.0150	ug/L		06/19/21 13:14	06/21/21 20:20	1
Fluoranthene	ND		0.200	0.0180	ug/L		06/19/21 13:14	06/21/21 20:20	1
Fluorene	ND		0.0999	0.0170	ug/L		06/19/21 13:14	06/21/21 20:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0499	0.0140	ug/L		06/19/21 13:14	06/21/21 20:20	1
1-Methylnaphthalene	ND		0.0999	0.0190	ug/L		06/19/21 13:14	06/21/21 20:20	1
2-Methylnaphthalene	ND		0.200	0.0390	ug/L		06/19/21 13:14	06/21/21 20:20	1
Naphthalene	ND		0.0999	0.0310	ug/L		06/19/21 13:14	06/21/21 20:20	1
Phenanthrene	ND		0.0999	0.0310	ug/L		06/19/21 13:14	06/21/21 20:20	1
Pyrene	ND		0.0999	0.0330	ug/L		06/19/21 13:14	06/21/21 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	109		29 - 150	06/19/21 13:14	06/21/21 20:20	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	122	J	237	109	ug/L		06/28/21 13:07	06/28/21 21:53	1
RRO (C25-C36)	ND		395	118	ug/L		06/28/21 13:07	06/28/21 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150	06/28/21 13:07	06/28/21 21:53	1
n-Triacontane-d62	98		50 - 150	06/28/21 13:07	06/28/21 21:53	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: TB01
Date Collected: 06/14/21 12:00
Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-23
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/25/21 19:24	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/25/21 19:24	1
Toluene	ND		1.00	0.312	ug/L			06/25/21 19:24	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/25/21 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		06/25/21 19:24	1
Dibromofluoromethane (Surr)	105		80 - 120		06/25/21 19:24	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		06/25/21 19:24	1
Toluene-d8 (Surr)	100		80 - 120		06/25/21 19:24	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-32094/6
Matrix: Water
Analysis Batch: 32094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/24/21 21:16	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/24/21 21:16	1
Toluene	ND		1.00	0.312	ug/L			06/24/21 21:16	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/24/21 21:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		80 - 120		06/24/21 21:16	1
Dibromofluoromethane (Surr)	103		80 - 120		06/24/21 21:16	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		06/24/21 21:16	1
Toluene-d8 (Surr)	98		80 - 120		06/24/21 21:16	1

Lab Sample ID: LCS 590-32094/1003
Matrix: Water
Analysis Batch: 32094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.09		ug/L		101	80 - 126
Ethylbenzene	10.0	10.33		ug/L		103	80 - 128
m-Xylene & p-Xylene	10.0	10.12		ug/L		101	80 - 127
o-Xylene	10.0	10.02		ug/L		100	80 - 126
Toluene	10.0	9.879		ug/L		99	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 590-15331-D-2 MS
Matrix: Water
Analysis Batch: 32094

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1.15		10.0	12.10		ug/L		109	80 - 126
Ethylbenzene	ND		10.0	10.05		ug/L		100	80 - 128
m-Xylene & p-Xylene	ND		10.0	9.691		ug/L		97	80 - 127
o-Xylene	ND		10.0	9.475		ug/L		95	80 - 126
Toluene	ND		10.0	10.77		ug/L		108	80 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
Toluene-d8 (Surr)	96		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-15331-E-2 MSD
Matrix: Water
Analysis Batch: 32094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	1.15		10.0	12.61		ug/L		115	80 - 126	4	18
Ethylbenzene	ND		10.0	9.836		ug/L		98	80 - 128	2	18
m-Xylene & p-Xylene	ND		10.0	8.982		ug/L		90	80 - 127	8	18
o-Xylene	ND		10.0	9.369		ug/L		94	80 - 126	1	17
Toluene	ND		10.0	10.53		ug/L		105	80 - 129	2	18

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: 590-15331-10 DU
Matrix: Water
Analysis Batch: 32094

Client Sample ID: MW-310
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	28.9		30.08		ug/L		4	18
Ethylbenzene	3.59		3.725		ug/L		4	18
Toluene	0.421	J	0.3740	J	ug/L		12	18
Xylenes, Total	1.17	J	1.193	J	ug/L		2	18

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: MB 590-32104/6
Matrix: Water
Analysis Batch: 32104

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			06/25/21 11:29	1
Ethylbenzene	ND		1.00	0.198	ug/L			06/25/21 11:29	1
Toluene	ND		1.00	0.312	ug/L			06/25/21 11:29	1
Xylenes, Total	ND		3.00	0.442	ug/L			06/25/21 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		06/25/21 11:29	1
Dibromofluoromethane (Surr)	105		80 - 120		06/25/21 11:29	1
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		06/25/21 11:29	1
Toluene-d8 (Surr)	97		80 - 120		06/25/21 11:29	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-32104/4
Matrix: Water
Analysis Batch: 32104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.749		ug/L		97	80 - 126
Ethylbenzene	10.0	10.16		ug/L		102	80 - 128
m-Xylene & p-Xylene	10.0	10.19		ug/L		102	80 - 127
o-Xylene	10.0	10.07		ug/L		101	80 - 126
Toluene	10.0	9.970		ug/L		100	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 590-32104/1003
Matrix: Water
Analysis Batch: 32104

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	10.84		ug/L		108	80 - 126	11	18
Ethylbenzene	10.0	10.45		ug/L		105	80 - 128	3	18
m-Xylene & p-Xylene	10.0	10.37		ug/L		104	80 - 127	2	18
o-Xylene	10.0	10.43		ug/L		104	80 - 126	4	17
Toluene	10.0	10.29		ug/L		103	80 - 129	3	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: 590-15336-H-2 MS
Matrix: Water
Analysis Batch: 32104

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		10.0	10.80		ug/L		108	80 - 126
Ethylbenzene	ND		10.0	10.40		ug/L		104	80 - 128
m-Xylene & p-Xylene	ND		10.0	10.35		ug/L		103	80 - 127
o-Xylene	ND		10.0	10.27		ug/L		103	80 - 126
Toluene	ND		10.0	10.20		ug/L		102	80 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
Toluene-d8 (Surr)	94		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-15336-I-2 MSD
Matrix: Water
Analysis Batch: 32104

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzene	ND		10.0	10.80		ug/L		108	80 - 126	0	18
Ethylbenzene	ND		10.0	11.17		ug/L		112	80 - 128	7	18
m-Xylene & p-Xylene	ND		10.0	10.88		ug/L		109	80 - 127	5	18
o-Xylene	ND		10.0	10.53		ug/L		105	80 - 126	3	17
Toluene	ND		10.0	10.76		ug/L		108	80 - 129	5	18
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		80 - 120								
Dibromofluoromethane (Surr)	104		80 - 120								
1,2-Dichloroethane-d4 (Surr)	102		80 - 120								
Toluene-d8 (Surr)	95		80 - 120								

Lab Sample ID: 590-15336-J-1 DU
Matrix: Water
Analysis Batch: 32104

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		ug/L		NC	18
Ethylbenzene	ND		ND		ug/L		NC	18
Toluene	ND		ND		ug/L		NC	18
Xylenes, Total	ND		ND		ug/L		NC	18
DU DU								
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	104		80 - 120					
Dibromofluoromethane (Surr)	107		80 - 120					
1,2-Dichloroethane-d4 (Surr)	105		80 - 120					
Toluene-d8 (Surr)	97		80 - 120					

Lab Sample ID: MB 590-32135/6
Matrix: Water
Analysis Batch: 32135

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.400	0.0930	ug/L		06/28/21 11:20	11:20	1
Ethylbenzene	ND		1.00	0.198	ug/L		06/28/21 11:20	11:20	1
Toluene	ND		1.00	0.312	ug/L		06/28/21 11:20	11:20	1
Xylenes, Total	ND		3.00	0.442	ug/L		06/28/21 11:20	11:20	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		80 - 120			06/28/21 11:20	11:20	1	
Dibromofluoromethane (Surr)	107		80 - 120			06/28/21 11:20	11:20	1	
1,2-Dichloroethane-d4 (Surr)	108		80 - 120			06/28/21 11:20	11:20	1	
Toluene-d8 (Surr)	98		80 - 120			06/28/21 11:20	11:20	1	

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-32135/4
Matrix: Water
Analysis Batch: 32135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.873		ug/L		99	80 - 126
Ethylbenzene	10.0	9.732		ug/L		97	80 - 128
m-Xylene & p-Xylene	10.0	10.09		ug/L		101	80 - 127
o-Xylene	10.0	9.904		ug/L		99	80 - 126
Toluene	10.0	9.749		ug/L		97	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: LCSD 590-32135/1003
Matrix: Water
Analysis Batch: 32135

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	10.15		ug/L		101	80 - 126	3	18
Ethylbenzene	10.0	10.08		ug/L		101	80 - 128	4	18
m-Xylene & p-Xylene	10.0	9.979		ug/L		100	80 - 127	1	18
o-Xylene	10.0	10.02		ug/L		100	80 - 126	1	17
Toluene	10.0	9.933		ug/L		99	80 - 129	2	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	108		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: 590-15355-C-2 DU
Matrix: Water
Analysis Batch: 32135

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	1.41		1.459		ug/L		4	18
Ethylbenzene	76.1		74.02		ug/L		3	18
Toluene	1.07		1.082		ug/L		1	18
Xylenes, Total	10.6		10.36		ug/L		2	18

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
Toluene-d8 (Surr)	92		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-32093/6
Matrix: Water
Analysis Batch: 32093

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L	-		06/24/21 21:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		68.7 - 141					06/24/21 21:16	1

Lab Sample ID: LCS 590-32093/1005
Matrix: Water
Analysis Batch: 32093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	1000	1083		ug/L	-	108	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		68.7 - 141				

Lab Sample ID: LCSD 590-32093/1016
Matrix: Water
Analysis Batch: 32093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline	1000	1008		ug/L	-	101	80 - 120	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		68.7 - 141						

Lab Sample ID: 590-15331-1 DU
Matrix: Water
Analysis Batch: 32093

Client Sample ID: MW-202
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
TPH as Gasoline	1320		1368		ug/L	-	4	35
Surrogate	DU %Recovery	DU Qualifier	Limits					
4-Bromofluorobenzene (Surr)	97		68.7 - 141					

Lab Sample ID: MB 590-32103/6
Matrix: Water
Analysis Batch: 32103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L	-		06/25/21 11:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141					06/25/21 11:29	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-32103/1005
Matrix: Water
Analysis Batch: 32103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	1000	1091		ug/L		109	80 - 120
Surrogate	%Recovery	LCS	LCS	Qualifier		Limits	
4-Bromofluorobenzene (Surr)	99					68.7 - 141	

Lab Sample ID: LCSD 590-32103/1016
Matrix: Water
Analysis Batch: 32103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline	1000	1068		ug/L		107	80 - 120	2	20
Surrogate	%Recovery	LCSD	LCSD	Qualifier		Limits			
4-Bromofluorobenzene (Surr)	98					68.7 - 141			

Lab Sample ID: 590-15336-J-1 DU
Matrix: Water
Analysis Batch: 32103

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TPH as Gasoline	ND		ND		ug/L		NC	35
Surrogate	%Recovery	DU	DU	Qualifier		Limits		
4-Bromofluorobenzene (Surr)	104					68.7 - 141		

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-359719/1-A
Matrix: Water
Analysis Batch: 359803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.100	0.0140	ug/L		06/19/21 13:14	06/21/21 17:20	1
Acenaphthylene	ND		0.0500	0.00900	ug/L		06/19/21 13:14	06/21/21 17:20	1
Anthracene	ND		0.100	0.0220	ug/L		06/19/21 13:14	06/21/21 17:20	1
Benzo[a]anthracene	ND		0.0500	0.0140	ug/L		06/19/21 13:14	06/21/21 17:20	1
Benzo[a]pyrene	ND		0.100	0.0110	ug/L		06/19/21 13:14	06/21/21 17:20	1
Benzo[b]fluoranthene	ND		0.0500	0.0110	ug/L		06/19/21 13:14	06/21/21 17:20	1
Benzo[g,h,i]perylene	ND		0.0500	0.0120	ug/L		06/19/21 13:14	06/21/21 17:20	1
Benzo[k]fluoranthene	ND		0.0500	0.0120	ug/L		06/19/21 13:14	06/21/21 17:20	1
Chrysene	ND		0.100	0.0160	ug/L		06/19/21 13:14	06/21/21 17:20	1
Dibenz(a,h)anthracene	ND		0.100	0.0150	ug/L		06/19/21 13:14	06/21/21 17:20	1
Fluoranthene	ND		0.200	0.0180	ug/L		06/19/21 13:14	06/21/21 17:20	1
Fluorene	ND		0.100	0.0170	ug/L		06/19/21 13:14	06/21/21 17:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0500	0.0140	ug/L		06/19/21 13:14	06/21/21 17:20	1
1-Methylnaphthalene	ND		0.100	0.0190	ug/L		06/19/21 13:14	06/21/21 17:20	1
2-Methylnaphthalene	ND		0.200	0.0390	ug/L		06/19/21 13:14	06/21/21 17:20	1
Naphthalene	ND		0.100	0.0310	ug/L		06/19/21 13:14	06/21/21 17:20	1

Eurofins TestAmerica, Spokane

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 580-359719/1-A
Matrix: Water
Analysis Batch: 359803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359719

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenanthrene	ND		0.100	0.0310	ug/L		06/19/21 13:14	06/21/21 17:20	1
Pyrene	ND		0.100	0.0330	ug/L		06/19/21 13:14	06/21/21 17:20	1
Surrogate	MB MB		Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
Terphenyl-d14	112		29 - 150				06/19/21 13:14	06/21/21 17:20	1

Lab Sample ID: LCS 580-359719/2-A
Matrix: Water
Analysis Batch: 359803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359719

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits	RPD	Limit	
		Result	Qualifier							
Acenaphthene	4.00	2.782		ug/L		70	33 - 120	11	32	
Acenaphthylene	4.00	2.956		ug/L		74	32 - 120	11	34	
Anthracene	4.00	3.265		ug/L		82	41 - 120	3	29	
Benzo[a]anthracene	4.00	3.843		ug/L		96	45 - 129	1	24	
Benzo[a]pyrene	4.00	3.722		ug/L		93	43 - 130	2	27	
Benzo[b]fluoranthene	4.00	3.333		ug/L		83	33 - 142	6	25	
Benzo[g,h,i]perylene	4.00	3.303		ug/L		83	45 - 127	4	27	
Benzo[k]fluoranthene	4.00	3.100		ug/L		77	41 - 132	9	25	
Chrysene	4.00	3.071		ug/L		77	47 - 126	4	23	
Dibenz(a,h)anthracene	4.00	3.682		ug/L		92	47 - 133	6	25	
Fluoranthene	4.00	3.556		ug/L		89	41 - 137			
Fluorene	4.00	2.961		ug/L		74	39 - 120			
Indeno[1,2,3-cd]pyrene	4.00	3.673		ug/L		92	51 - 135			
1-Methylnaphthalene	4.00	3.014		ug/L		75	29 - 120			
2-Methylnaphthalene	4.00	2.936		ug/L		73	33 - 120			
Naphthalene	4.00	2.969		ug/L		74	24 - 120			
Phenanthrene	4.00	3.017		ug/L		75	37 - 120			
Pyrene	4.00	3.613		ug/L		90	39 - 134			
Surrogate	LCS LCS		Limits			D	%Rec	Limits	RPD	Limit
	%Recovery	Qualifier								
Terphenyl-d14	108		29 - 150							

Lab Sample ID: LCSD 580-359719/3-A
Matrix: Water
Analysis Batch: 359803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 359719

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Acenaphthene	4.00	2.500		ug/L		62	33 - 120	11	32
Acenaphthylene	4.00	2.649		ug/L		66	32 - 120	11	34
Anthracene	4.00	3.176		ug/L		79	41 - 120	3	29
Benzo[a]anthracene	4.00	3.790		ug/L		95	45 - 129	1	24
Benzo[a]pyrene	4.00	3.812		ug/L		95	43 - 130	2	27
Benzo[b]fluoranthene	4.00	3.128		ug/L		78	33 - 142	6	25
Benzo[g,h,i]perylene	4.00	3.428		ug/L		86	45 - 127	4	27
Benzo[k]fluoranthene	4.00	3.397		ug/L		85	41 - 132	9	25
Chrysene	4.00	3.189		ug/L		80	47 - 126	4	23
Dibenz(a,h)anthracene	4.00	3.897		ug/L		97	47 - 133	6	25

Eurofins TestAmerica, Spokane

QC Sample Results

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-359719/3-A
Matrix: Water
Analysis Batch: 359803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 359719

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Fluoranthene	4.00	3.600		ug/L		90	41 - 137	1	24	
Fluorene	4.00	2.719		ug/L		68	39 - 120	9	29	
Indeno[1,2,3-cd]pyrene	4.00	3.646		ug/L		91	51 - 135	1	24	
1-Methylnaphthalene	4.00	2.783		ug/L		70	29 - 120	8	34	
2-Methylnaphthalene	4.00	2.617		ug/L		65	33 - 120	11	35	
Naphthalene	4.00	2.680		ug/L		67	24 - 120	10	35	
Phenanthrene	4.00	2.930		ug/L		73	37 - 120	3	26	
Pyrene	4.00	3.651		ug/L		91	39 - 134	1	24	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Terphenyl-d14	107		29 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-32139/1-A
Matrix: Water
Analysis Batch: 32128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32139

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
DRO (C10-C25)	ND		240	110	ug/L		06/28/21 13:07	06/28/21 16:26		1	
RRO (C25-C36)	ND		400	120	ug/L		06/28/21 13:07	06/28/21 16:26		1	

Surrogate	MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier						
o-Terphenyl	90		50 - 150	06/28/21 13:07	06/28/21 16:26		1	
n-Triacontane-d62	91		50 - 150	06/28/21 13:07	06/28/21 16:26		1	

Lab Sample ID: LCS 590-32139/2-A
Matrix: Water
Analysis Batch: 32128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
DRO (C10-C25)	1600	1123		ug/L		70	50 - 150	
RRO (C25-C36)	1600	1467		ug/L		92	50 - 150	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
o-Terphenyl	90		50 - 150
n-Triacontane-d62	98		50 - 150

Lab Sample ID: LCSD 590-32139/3-A
Matrix: Water
Analysis Batch: 32128

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32139

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
DRO (C10-C25)	1600	1071		ug/L		67	50 - 150	5	25	
RRO (C25-C36)	1600	1624		ug/L		102	50 - 150	10	25	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
o-Terphenyl	89		50 - 150

Eurofins TestAmerica, Spokane

QC Sample Results

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 590-32139/3-A
Matrix: Water
Analysis Batch: 32128

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32139

Surrogate	%Recovery	LCSD Qualifier	Limits
<i>n-Triacontane-d62</i>	87	LCSD	50 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-32148/2-A
Matrix: Water
Analysis Batch: 32166

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 32148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		60.0	5.10	ug/L		06/29/21 09:25	06/30/21 01:19	1

Lab Sample ID: LCS 590-32148/1-A
Matrix: Water
Analysis Batch: 32166

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 32148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1000	1144		ug/L		114	80 - 120

Lab Sample ID: 590-15320-A-21-C MS
Matrix: Water
Analysis Batch: 32166

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 32148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		1000	1146		ug/L		115	75 - 125

Lab Sample ID: 590-15320-A-21-D MSD
Matrix: Water
Analysis Batch: 32166

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 32148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1000	1140		ug/L		114	75 - 125	1	20

Lab Sample ID: 590-15320-A-21-B DU
Matrix: Water
Analysis Batch: 32166

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 32148

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		ug/L		NC	20

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-202

Date Collected: 06/14/21 14:06

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/24/21 21:36	JSP	TAL SPK
Total/NA	Prep	3510C			247.6 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 17:32	NMI	TAL SPK

Client Sample ID: MW-203

Date Collected: 06/15/21 10:29

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/24/21 22:18	JSP	TAL SPK
Total/NA	Prep	3510C			243.6 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 17:54	NMI	TAL SPK

Client Sample ID: MW-301

Date Collected: 06/15/21 11:39

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/24/21 23:21	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/24/21 23:21	JSP	TAL SPK

Client Sample ID: MW-302

Date Collected: 06/15/21 13:03

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/24/21 23:41	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/24/21 23:41	JSP	TAL SPK

Client Sample ID: MW-303

Date Collected: 06/15/21 12:09

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 00:02	JSP	TAL SPK
Total/NA	Analysis	8260D		100	43 mL	43 mL	32135	06/28/21 11:41	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 00:02	JSP	TAL SPK

Client Sample ID: MW-304

Date Collected: 06/15/21 12:39

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 00:22	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 00:22	JSP	TAL SPK

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-307

Date Collected: 06/14/21 11:33

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 01:04	JSP	TAL SPK
Total/NA	Analysis	8260D		100	43 mL	43 mL	32104	06/25/21 18:01	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 01:04	JSP	TAL SPK
Total/NA	Prep	3510C			250 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 18:37	NMI	TAL SPK

Client Sample ID: MW-308

Date Collected: 06/14/21 11:02

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 01:24	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 01:24	JSP	TAL SPK

Client Sample ID: MW-309

Date Collected: 06/15/21 11:12

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 01:45	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 01:45	JSP	TAL SPK

Client Sample ID: MW-310

Date Collected: 06/15/21 13:31

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 02:05	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 02:05	JSP	TAL SPK

Client Sample ID: MW-312

Date Collected: 06/16/21 08:53

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 02:46	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 02:46	JSP	TAL SPK

Client Sample ID: MW-313

Date Collected: 06/16/21 08:15

Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 03:07	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 03:07	JSP	TAL SPK

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-313

Lab Sample ID: 590-15331-13

Date Collected: 06/16/21 08:15

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			249.2 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 18:59	NMI	TAL SPK

Client Sample ID: MW-315

Lab Sample ID: 590-15331-14

Date Collected: 06/16/21 09:25

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 03:27	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 03:27	JSP	TAL SPK
Total/NA	Prep	3510C			246.3 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 19:21	NMI	TAL SPK

Client Sample ID: TX-03A

Lab Sample ID: 590-15331-15

Date Collected: 06/16/21 10:01

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 03:47	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 03:47	JSP	TAL SPK

Client Sample ID: MW-05

Lab Sample ID: 590-15331-16

Date Collected: 06/15/21 08:51

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 04:08	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 04:08	JSP	TAL SPK
Total/NA	Prep	3510C			249.5 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 19:43	NMI	TAL SPK

Client Sample ID: MW-111

Lab Sample ID: 590-15331-17

Date Collected: 06/15/21 07:52

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 04:50	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 04:50	JSP	TAL SPK
Total/NA	Prep	3510C			257.2 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 20:05	NMI	TAL SPK

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-112A

Lab Sample ID: 590-15331-18

Date Collected: 06/15/21 09:49

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 05:10	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 05:10	JSP	TAL SPK
Total/NA	Prep	3510C			245.6 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 20:26	NMI	TAL SPK

Client Sample ID: SH-04

Lab Sample ID: 590-15331-19

Date Collected: 06/15/21 09:20

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32094	06/25/21 05:31	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 05:31	JSP	TAL SPK
Total/NA	Prep	3510C			247.7 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 20:48	NMI	TAL SPK

Client Sample ID: MW-104

Lab Sample ID: 590-15331-20

Date Collected: 06/15/21 08:25

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32093	06/25/21 05:51	JSP	TAL SPK
Total/NA	Prep	3510C			253.2 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 21:10	NMI	TAL SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	32148	06/29/21 09:25	AMB	TAL SPK
Total Recoverable	Analysis	6010D		1			32166	06/30/21 02:07	AMB	TAL SPK

Client Sample ID: MW-213

Lab Sample ID: 590-15331-21

Date Collected: 06/14/21 12:33

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32104	06/25/21 18:22	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32103	06/25/21 18:22	JSP	TAL SPK
Total/NA	Prep	3510C			246.9 mL	1 mL	359719	06/19/21 13:14	JBT	FGS SEA
Total/NA	Analysis	8270E SIM		1			359803	06/21/21 19:54	CJ	FGS SEA
Total/NA	Prep	3510C			254.8 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 21:31	NMI	TAL SPK

Client Sample ID: MW-214

Lab Sample ID: 590-15331-22

Date Collected: 06/14/21 13:10

Matrix: Water

Date Received: 06/18/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32104	06/25/21 18:43	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	32103	06/25/21 18:43	JSP	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: GHD Services Inc.
 Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-214
Date Collected: 06/14/21 13:10
Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250.3 mL	1 mL	359719	06/19/21 13:14	JBT	FGS SEA
Total/NA	Analysis	8270E SIM		1			359803	06/21/21 20:20	CJ	FGS SEA
Total/NA	Prep	3510C			253.2 mL	2 mL	32139	06/28/21 13:07	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			32128	06/28/21 21:53	NMI	TAL SPK

Client Sample ID: TB01
Date Collected: 06/14/21 12:00
Date Received: 06/18/21 16:50

Lab Sample ID: 590-15331-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	32104	06/25/21 19:24	JSP	TAL SPK

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
 TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Laboratory: Eurofins TestAmerica, Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4137	12-07-21
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
NWTPH-Dx	3510C	Water	RRO (C25-C36)

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	WA100007	11-05-21
Washington	State	C788	07-13-21

Method Summary

Client: GHD Services Inc.
Project/Site: Shell - Triton West Consent Decree

Job ID: 590-15331-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	FGS SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SPK
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	FGS SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SPK
5030C	Purge and Trap	SW846	TAL SPK

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Shell Oil Products US Chain Of Custody Record

AECOM

LAB (LOCATION) _____
 ACCURIST ()
 CALSCIENCE ()
 TESTAMERICA ()
 Other ()

Please Check Appropriate Box:
 SCW FOG PIPELINE RETAIL
 CHEMICALS CONSULTANT LUBES
 TRANSPORTATION OTHER _____

Blaine Tech Services, Inc
 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Name or POC Report to)
 Jacquelyn England
 TEL: (707)523-1010 FAX: _____
 B1 to Contact E-MAIL: jacquelyn.england@ghd.com

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 LA - RWQCB REPORT FORMAT UST AGENCY:

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____
 TEMPERATURE ON RECEIPT C° Cooler #1: _____ Cooler #2: _____ Cooler #3: _____

SPECIAL INSTRUCTIONS OR NOTES:
 SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 RECEIPT VERIFICATION REQUESTED
 PROVIDE LEDD DISK

Print Bill to Contact Name: _____
 Platelet Site or Project ID: _____
 PO #: _____
 GSAP Project ID: _____
 DATE: 6/14-6/16/21
 PAGE: 1 of 3

SITE ADDRESS: Street and City
 2555 13th Avenue
 EPO: DELIVERABLE TO (Name, Company, Other Location)
 Jacquelyn England, GHD, Santa Rosa
 STATE: WA
 PHONE NO: (707)523-1010
 GHD Project / Task Number: 11218519
 E-MAIL: jacquelyn.england@ghd.com

UNIT COST
 REQUESTED ANALYSIS
 NON-UNIT COST
 FIELD NOTES:
 TEMPERATURE ON RECEIPT C°
 Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.	8260C BTEX	NWTPH-Dx	82700 SIM PAHs	300.0 Sulfate	NWTPH-Gx	6020A Total Lead	353.2 Nitrate & Nitrite	6020A Dis. Iron & Manganese (lab filter)	300.0 Chloride	2320B Alkalinity
		DATE	TIME		HCL	HNO3	H2SO4	NONE											
	MW-202	6/14	1406	W					6										
	MW-203	6/15	1029	W					6										
	MW-301	6/15	1139	W					4										
	MW-302	6/15	1303	W					4										
	MW-303	6/15	1209	W					4										
	MW-304	6/15	1239	W					4										
	MW-307	6/14	1133	W					6										
	MW-308	6/14	1102	W					4										
	MW-309	6/15	1112	W					4										
	MW-310	6/15	1331	W					4										



Requested by (Signature)
 Requested by (Signature)

Received by (Signature)
 Received by (Signature)

Received by (Signature)
 Received by (Signature)

Date: 6/16/21
 Date: 6/17/21
 Date: 6/17/21
 Time: 1400
 Time: 16:50

Shipped via FedEx
 Montrose

O. B. C.

2.31



LAB (LOCATION)

- ACQUITS
- CALSCIENCE
- TESTAMERICA
- OTHER

- Please Check Appropriate Box:
- SCW TOG
 - PIPELINE
 - CHEMICALS
 - TRANSPORTATION
 - RETAIL
 - CONSULTANT
 - LUBES
 - OTHER

Blaine Tech Services, Inc

1680 Rogers Ave, San Jose, CA, 95112

LOG CODE: BTSS

PROJECT CONTACT (Please copy or PDF Report to): Jacquelyn England

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C°: _____ Cooler #1: _____ Cooler #2: _____ Cooler #3: _____

SPECIAL INSTRUCTIONS OR NOTES: SHELL CONTRACT RATE APPLIES STATE REBUNDSCHEMENT RATE APPLIES EDO NOT NEEDED RECEIPT VERIFICATION REQUESTED PROVIDE LEAD DISK

Print Bill To Contact Name:

PlatNet Site or Project ID

CHECK IF NO INCIDENT # APPLIES

PO #

GSAP Project ID

DATE: 6/19/21
PAGE: 2 of 3

SITE ADDRESS: Street and City
2555 13th Avenue

State: WA

PHONE NO.: (707) 523-1010

GHD Project/Task Number: 11218519

Jacquelyn England, GHD, Santa Rosa

PHONE NO.: (707) 523-1010

EMAIL: jacquelyn_england@ghd.com

Foster Koefel

LAB USE ONLY

UNIT COST	REQUESTED ANALYSIS	NON-UNIT COST	FIELD NOTES:
	8290C BTEX		TEMPERATURE ON RECEIPT C°
	NWTPH-Ds		Container PID Readings or Laboratory Notes
	8270D SIM PAHs		
	300.0 Sulfate		
	NWTPH-Gs		
	6020A Total Lead		
	353.2 Nitrate & Nitrite		
	6020A Diss. Iron & Manganese (lab filtered)		
	300.0 Chloride		
	2320B Alkalinity		

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.	UNIT COST	REQUESTED ANALYSIS	NON-UNIT COST	FIELD NOTES:
		DATE	TIME		HCL	HNO3	H2SO4	NONE					
	MW-311	6/16	0853	W					4	XX			
	MW-312	6/16	0853	W					4	XX			
	MW-313	6/16	0815	W					6	XX			
	MW-314	6/16	0825	W					6	XX			
	MW-315	6/16	0825	W					6	XX			
	TX-03A	6/16	1001	W					4	XX			
	MW-05	6/15	0851	W					6	XX			
	MW-111	6/15	0752	W					6	XX			
	MW-112A	6/15	0949	W					6	XX			
	SH-04	6/15	0820	W					6	XX			

Relinquished by (Signature): *[Signature]*

Received by (Signature): *[Signature]*

Shipped via Fed Ex

Date: 6/16/21

Time: 1400

Relinquished by (Signature):

Received by (Signature):

Maintain 100%

Date: 6/17/21

Time: 16:50

0.8°C

2.3°C

Version: 14Dec15



LAB (LOCATION)

ACQUIST
 CALSCECE
 TESTAMERICA
 Other

SCW FDG
 CHEMICALS
 TRANSPORTATION
 PIPELINE
 RETAIL
 CONSULTANT
 LUBES
 OTHER

Print Bill To Contact Name:
 Planet Site or Project ID
 PO #
 GSAP Project ID

DATE: 6/14-6/16/21
 PAGE: 3 of 3

Blaine Tech Services, Inc

1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Print Name or POC Report To)
 Jacquelyn England
 TEL: (707) 523-1010
 FAX: jacquelyn.england@qhd.com

TURNAROUND TIME (CALENDAR DAYS)
 STANDARD (14 DAY)

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

- SHELL CONTRACT RATE APPLIES
- STATE REIMBURSEMENT RATE APPLIES
- EDD NOT NEEDED
- RECEIPT VERIFICATION REQUESTED
- PROVIDE LEDD DISK

FIELD SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.	UNIT COST		NON-UNIT COST		FIELD NOTES:
	DATE	TIME		HCL	HNO3	H2SO4	NONE		OTHER	REQUESTED ANALYSIS	REQUESTED ANALYSIS	TEMPERATURE ON RECEIPT C°	
MW-104	6/15	0825	W	6	1			7	X	X	X		
MW-213	6/14	1233	W	6		2		8	X	X	X		
MW-214	6/14	1310	W	6		2		8	X	X	X		
TB01	6/14	1200	W			2		2	X				

Relinquished By (Signature)

Received By (Signature)

Shipped via Fed Ex

6/16/21

1400

Relinquished By (Signature)

Received By (Signature)

via airBOROC

6/17/21

1650

O.S.C 2.5°C

Shell Oil Products US Chain Of Custody Record



Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-15331-1

SDG Number: 2555 13th Avenue SW, Seattle, WA

Login Number: 15331

List Number: 1

Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	421743 421742
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-15331-1
SDG Number: 2555 13th Avenue SW, Seattle, WA

Login Number: 15331
List Number: 2
Creator: Vallelunga, Diana L

List Source: Eurofins FGS, Seattle
List Creation: 06/19/21 11:19 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-15985-1

Laboratory SDG: 2555 13th Avenue SW, Seattle, WA
Client Project/Site: Triton West Consent Decree

For:

GHD Services Inc.
2235 Mercury Way
Suite 150
Santa Rosa, California 95407

Attn: Jacquelyn England

Roxanne Cisneros

Authorized for release by:
10/1/2021 4:10:15 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

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results through
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Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Job ID: 590-15985-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Job Narrative 590-15985-1

Comments

No additional comments.

Receipt

The samples were received on 9/24/2021 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 590-33322.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to a light weight diesel. MW-315 (590-15985-11)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

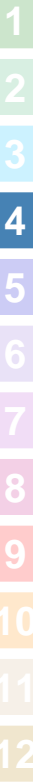
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-15985-1	MW-301	Water	09/22/21 12:11	09/24/21 15:19
590-15985-2	MW-302	Water	09/23/21 08:15	09/24/21 15:19
590-15985-3	MW-303	Water	09/22/21 12:39	09/24/21 15:19
590-15985-4	MW-304	Water	09/22/21 13:06	09/24/21 15:19
590-15985-5	MW-307	Water	09/22/21 10:46	09/24/21 15:19
590-15985-6	MW-308	Water	09/22/21 11:16	09/24/21 15:19
590-15985-7	MW-310	Water	09/22/21 13:37	09/24/21 15:19
590-15985-8	MW-311	Water	09/23/21 11:02	09/24/21 15:19
590-15985-9	MW-312	Water	09/23/21 10:34	09/24/21 15:19
590-15985-10	MW-313	Water	09/23/21 10:00	09/24/21 15:19
590-15985-11	MW-315	Water	09/23/21 09:24	09/24/21 15:19
590-15985-12	TX-03A	Water	09/23/21 08:49	09/24/21 15:19
590-15985-13	TB01	Water	09/22/21 08:00	09/24/21 15:19



Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-301

Lab Sample ID: 590-15985-1

Date Collected: 09/22/21 12:11

Matrix: Water

Date Received: 09/24/21 15:19

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.33		0.400	0.0930	ug/L			09/28/21 18:49	1
Ethylbenzene	2.00		1.00	0.198	ug/L			09/28/21 18:49	1
Toluene	ND		1.00	0.312	ug/L			09/28/21 18:49	1
Xylenes, Total	0.535	J	3.00	0.442	ug/L			09/28/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		09/28/21 18:49	1
Dibromofluoromethane (Surr)	104		80 - 120		09/28/21 18:49	1
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		09/28/21 18:49	1
Toluene-d8 (Surr)	95		80 - 120		09/28/21 18:49	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	226		150	70.4	ug/L			09/28/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141		09/28/21 18:49	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-302
 Date Collected: 09/23/21 08:15
 Date Received: 09/24/21 15:19

Lab Sample ID: 590-15985-2
 Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18.4		0.400	0.0930	ug/L			09/28/21 19:31	1
Ethylbenzene	58.5		1.00	0.198	ug/L			09/28/21 19:31	1
Toluene	3.73		1.00	0.312	ug/L			09/28/21 19:31	1
Xylenes, Total	8.83		3.00	0.442	ug/L			09/28/21 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		09/28/21 19:31	1
Dibromofluoromethane (Surr)	103		80 - 120		09/28/21 19:31	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		09/28/21 19:31	1
Toluene-d8 (Surr)	92		80 - 120		09/28/21 19:31	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	637		150	70.4	ug/L			09/28/21 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		68.7 - 141		09/28/21 19:31	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-303

Lab Sample ID: 590-15985-3

Date Collected: 09/22/21 12:39

Matrix: Water

Date Received: 09/24/21 15:19

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	252		40.0	9.30	ug/L			09/29/21 14:25	100
Ethylbenzene	344		100	19.8	ug/L			09/29/21 14:25	100
Toluene	7.24		1.00	0.312	ug/L			09/28/21 19:52	1
Xylenes, Total	19.4		3.00	0.442	ug/L			09/28/21 19:52	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120			09/28/21 19:52	1
4-Bromofluorobenzene (Surr)	94		80 - 120			09/29/21 14:25	100
Dibromofluoromethane (Surr)	100		80 - 120			09/28/21 19:52	1
Dibromofluoromethane (Surr)	109		80 - 120			09/29/21 14:25	100
1,2-Dichloroethane-d4 (Surr)	106		80 - 120			09/28/21 19:52	1
1,2-Dichloroethane-d4 (Surr)	109		80 - 120			09/29/21 14:25	100
Toluene-d8 (Surr)	81		80 - 120			09/28/21 19:52	1
Toluene-d8 (Surr)	98		80 - 120			09/29/21 14:25	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2290		150	70.4	ug/L			09/28/21 19:52	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141			09/28/21 19:52	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-304
 Date Collected: 09/22/21 13:06
 Date Received: 09/24/21 15:19

Lab Sample ID: 590-15985-4
 Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	38.9		0.400	0.0930	ug/L			09/28/21 20:13	1
Ethylbenzene	0.696	J	1.00	0.198	ug/L			09/28/21 20:13	1
Toluene	ND		1.00	0.312	ug/L			09/28/21 20:13	1
Xylenes, Total	ND		3.00	0.442	ug/L			09/28/21 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		09/28/21 20:13	1
Dibromofluoromethane (Surr)	105		80 - 120		09/28/21 20:13	1
1,2-Dichloroethane-d4 (Surr)	114		80 - 120		09/28/21 20:13	1
Toluene-d8 (Surr)	89		80 - 120		09/28/21 20:13	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	225		150	70.4	ug/L			09/28/21 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68.7 - 141		09/28/21 20:13	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-307

Lab Sample ID: 590-15985-5

Date Collected: 09/22/21 10:46

Matrix: Water

Date Received: 09/24/21 15:19

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	135		4.00	0.930	ug/L			09/29/21 14:46	10
Ethylbenzene	109		10.0	1.98	ug/L			09/29/21 14:46	10
Toluene	14.5		1.00	0.312	ug/L			09/28/21 20:54	1
Xylenes, Total	71.7		3.00	0.442	ug/L			09/28/21 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		09/28/21 20:54	1
4-Bromofluorobenzene (Surr)	98		80 - 120		09/29/21 14:46	10
Dibromofluoromethane (Surr)	98		80 - 120		09/28/21 20:54	1
Dibromofluoromethane (Surr)	107		80 - 120		09/29/21 14:46	10
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		09/28/21 20:54	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		09/29/21 14:46	10
Toluene-d8 (Surr)	94		80 - 120		09/28/21 20:54	1
Toluene-d8 (Surr)	91		80 - 120		09/29/21 14:46	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1830		150	70.4	ug/L			09/28/21 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		68.7 - 141		09/28/21 20:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-308

Lab Sample ID: 590-15985-6

Date Collected: 09/22/21 11:16

Matrix: Water

Date Received: 09/24/21 15:19

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	129		4.00	0.930	ug/L			09/29/21 15:07	10
Ethylbenzene	0.975	J	1.00	0.198	ug/L			09/28/21 21:15	1
Toluene	4.08		1.00	0.312	ug/L			09/28/21 21:15	1
Xylenes, Total	2.57	J	3.00	0.442	ug/L			09/28/21 21:15	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120			09/28/21 21:15	1
4-Bromofluorobenzene (Surr)	88		80 - 120			09/29/21 15:07	10
Dibromofluoromethane (Surr)	96		80 - 120			09/28/21 21:15	1
Dibromofluoromethane (Surr)	106		80 - 120			09/29/21 15:07	10
1,2-Dichloroethane-d4 (Surr)	95		80 - 120			09/28/21 21:15	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120			09/29/21 15:07	10
Toluene-d8 (Surr)	93		80 - 120			09/28/21 21:15	1
Toluene-d8 (Surr)	96		80 - 120			09/29/21 15:07	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1250		150	70.4	ug/L			09/28/21 21:15	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		68.7 - 141			09/28/21 21:15	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-310
Date Collected: 09/22/21 13:37
Date Received: 09/24/21 15:19

Lab Sample ID: 590-15985-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15.9		0.400	0.0930	ug/L			09/28/21 21:36	1
Ethylbenzene	1.37		1.00	0.198	ug/L			09/28/21 21:36	1
Toluene	ND		1.00	0.312	ug/L			09/28/21 21:36	1
Xylenes, Total	ND		3.00	0.442	ug/L			09/28/21 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		09/28/21 21:36	1
Dibromofluoromethane (Surr)	109		80 - 120		09/28/21 21:36	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		09/28/21 21:36	1
Toluene-d8 (Surr)	97		80 - 120		09/28/21 21:36	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	343		150	70.4	ug/L			09/28/21 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		68.7 - 141		09/28/21 21:36	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-311
 Date Collected: 09/23/21 11:02
 Date Received: 09/24/21 15:19

Lab Sample ID: 590-15985-8
 Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.07		0.400	0.0930	ug/L			09/28/21 21:57	1
Ethylbenzene	0.899	J	1.00	0.198	ug/L			09/28/21 21:57	1
Toluene	3.09		1.00	0.312	ug/L			09/28/21 21:57	1
Xylenes, Total	0.789	J	3.00	0.442	ug/L			09/28/21 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		09/28/21 21:57	1
Dibromofluoromethane (Surr)	96		80 - 120		09/28/21 21:57	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		09/28/21 21:57	1
Toluene-d8 (Surr)	97		80 - 120		09/28/21 21:57	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1200		150	70.4	ug/L			09/28/21 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		68.7 - 141		09/28/21 21:57	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-312
Date Collected: 09/23/21 10:34
Date Received: 09/24/21 15:19

Lab Sample ID: 590-15985-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	39.8		0.400	0.0930	ug/L			09/29/21 15:28	1
Ethylbenzene	3.29		1.00	0.198	ug/L			09/29/21 15:28	1
Toluene	2.64		1.00	0.312	ug/L			09/29/21 15:28	1
Xylenes, Total	2.26	J	3.00	0.442	ug/L			09/29/21 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		09/29/21 15:28	1
Dibromofluoromethane (Surr)	99		80 - 120		09/29/21 15:28	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		09/29/21 15:28	1
Toluene-d8 (Surr)	95		80 - 120		09/29/21 15:28	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1830		150	70.4	ug/L			09/29/21 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		68.7 - 141		09/29/21 15:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-313

Lab Sample ID: 590-15985-10

Date Collected: 09/23/21 10:00

Matrix: Water

Date Received: 09/24/21 15:19

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			09/29/21 16:31	1
Ethylbenzene	ND		1.00	0.198	ug/L			09/29/21 16:31	1
Toluene	ND		1.00	0.312	ug/L			09/29/21 16:31	1
Xylenes, Total	ND		3.00	0.442	ug/L			09/29/21 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		09/29/21 16:31	1
Dibromofluoromethane (Surr)	109		80 - 120		09/29/21 16:31	1
1,2-Dichloroethane-d4 (Surr)	110		80 - 120		09/29/21 16:31	1
Toluene-d8 (Surr)	93		80 - 120		09/29/21 16:31	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			09/29/21 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141		09/29/21 16:31	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	161	J	235	108	ug/L		09/28/21 13:27	09/28/21 21:27	1
RRO (C25-C36)	ND		392	117	ug/L		09/28/21 13:27	09/28/21 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150	09/28/21 13:27	09/28/21 21:27	1
n-Triacontane-d62	83		50 - 150	09/28/21 13:27	09/28/21 21:27	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-315

Lab Sample ID: 590-15985-11

Date Collected: 09/23/21 09:24

Matrix: Water

Date Received: 09/24/21 15:19

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.15		0.400	0.0930	ug/L			09/29/21 17:34	1
Ethylbenzene	0.428	J	1.00	0.198	ug/L			09/29/21 17:34	1
Toluene	3.92		1.00	0.312	ug/L			09/29/21 17:34	1
Xylenes, Total	2.76	J	3.00	0.442	ug/L			09/29/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		09/29/21 17:34	1
Dibromofluoromethane (Surr)	99		80 - 120		09/29/21 17:34	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		09/29/21 17:34	1
Toluene-d8 (Surr)	94		80 - 120		09/29/21 17:34	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1480		150	70.4	ug/L			09/29/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141		09/29/21 17:34	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	3270		233	107	ug/L		09/28/21 13:27	09/28/21 21:47	1
RRO (C25-C36)	180	J	389	117	ug/L		09/28/21 13:27	09/28/21 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150	09/28/21 13:27	09/28/21 21:47	1
n-Triacontane-d62	83		50 - 150	09/28/21 13:27	09/28/21 21:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: TX-03A

Lab Sample ID: 590-15985-12

Date Collected: 09/23/21 08:49

Matrix: Water

Date Received: 09/24/21 15:19

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18.3		0.400	0.0930	ug/L			09/29/21 17:54	1
Ethylbenzene	6.77		1.00	0.198	ug/L			09/29/21 17:54	1
Toluene	0.973	J	1.00	0.312	ug/L			09/29/21 17:54	1
Xylenes, Total	0.651	J	3.00	0.442	ug/L			09/29/21 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		09/29/21 17:54	1
Dibromofluoromethane (Surr)	105		80 - 120		09/29/21 17:54	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		09/29/21 17:54	1
Toluene-d8 (Surr)	93		80 - 120		09/29/21 17:54	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	221		150	70.4	ug/L			09/29/21 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		68.7 - 141		09/29/21 17:54	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
 SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: TB01
Date Collected: 09/22/21 08:00
Date Received: 09/24/21 15:19

Lab Sample ID: 590-15985-13
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			09/29/21 18:15	1
Ethylbenzene	ND		1.00	0.198	ug/L			09/29/21 18:15	1
Toluene	ND		1.00	0.312	ug/L			09/29/21 18:15	1
Xylenes, Total	ND		3.00	0.442	ug/L			09/29/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		09/29/21 18:15	1
Dibromofluoromethane (Surr)	106		80 - 120		09/29/21 18:15	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		09/29/21 18:15	1
Toluene-d8 (Surr)	96		80 - 120		09/29/21 18:15	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			09/29/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		68.7 - 141		09/29/21 18:15	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-33307/6
Matrix: Water
Analysis Batch: 33307

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			09/28/21 13:14	1
Ethylbenzene	ND		1.00	0.198	ug/L			09/28/21 13:14	1
Toluene	ND		1.00	0.312	ug/L			09/28/21 13:14	1
Xylenes, Total	ND		3.00	0.442	ug/L			09/28/21 13:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		09/28/21 13:14	1
Dibromofluoromethane (Surr)	112		80 - 120		09/28/21 13:14	1
1,2-Dichloroethane-d4 (Surr)	113		80 - 120		09/28/21 13:14	1
Toluene-d8 (Surr)	99		80 - 120		09/28/21 13:14	1

Lab Sample ID: LCS 590-33307/4
Matrix: Water
Analysis Batch: 33307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	11.27		ug/L		113	80 - 126
Ethylbenzene	10.0	10.03		ug/L		100	80 - 128
m-Xylene & p-Xylene	10.0	10.01		ug/L		100	80 - 127
o-Xylene	10.0	9.918		ug/L		99	80 - 126
Toluene	10.0	10.17		ug/L		102	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: LCSD 590-33307/1003
Matrix: Water
Analysis Batch: 33307

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	10.57		ug/L		106	80 - 126	6	18
Ethylbenzene	10.0	9.919		ug/L		99	80 - 128	1	18
m-Xylene & p-Xylene	10.0	9.566		ug/L		96	80 - 127	5	18
o-Xylene	10.0	9.646		ug/L		96	80 - 126	3	17
Toluene	10.0	9.744		ug/L		97	80 - 129	4	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
Toluene-d8 (Surr)	98		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-15985-1 DU
Matrix: Water
Analysis Batch: 33307

Client Sample ID: MW-301
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	3.33		3.056		ug/L		9	18
Ethylbenzene	2.00		1.945		ug/L		3	18
Toluene	ND		ND		ug/L		NC	18
Xylenes, Total	0.535	J	ND		ug/L		NC	18

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: MB 590-33322/6
Matrix: Water
Analysis Batch: 33322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.400	0.0930	ug/L		09/29/21 12:20	12:20	1
Ethylbenzene	ND		1.00	0.198	ug/L		09/29/21 12:20	12:20	1
Toluene	ND		1.00	0.312	ug/L		09/29/21 12:20	12:20	1
Xylenes, Total	ND		3.00	0.442	ug/L		09/29/21 12:20	12:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		80 - 120		09/29/21 12:20	1
Dibromofluoromethane (Surr)	106		80 - 120		09/29/21 12:20	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		09/29/21 12:20	1
Toluene-d8 (Surr)	97		80 - 120		09/29/21 12:20	1

Lab Sample ID: LCS 590-33322/1003
Matrix: Water
Analysis Batch: 33322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	10.0	10.14		ug/L		101	80 - 128
m-Xylene & p-Xylene	10.0	9.720		ug/L		97	80 - 127
o-Xylene	10.0	9.990		ug/L		100	80 - 126
Toluene	10.0	9.839		ug/L		98	80 - 129

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	108		80 - 120
Toluene-d8 (Surr)	98		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-33322/4
Matrix: Water
Analysis Batch: 33322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	10.70		ug/L		107	80 - 126	0	18
Ethylbenzene	10.0	9.858		ug/L		99	80 - 128	3	18
m-Xylene & p-Xylene	10.0	9.692		ug/L		97	80 - 127	0	18
o-Xylene	10.0	9.448		ug/L		94	80 - 126	6	17
Toluene	10.0	9.041		ug/L		90	80 - 129	8	18

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	109		80 - 120
Toluene-d8 (Surr)	88		80 - 120

Lab Sample ID: 590-15985-9 DU
Matrix: Water
Analysis Batch: 33322

Client Sample ID: MW-312
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	39.8		38.23		ug/L		4	18
Ethylbenzene	3.29		3.135		ug/L		5	18
Toluene	2.64		2.512		ug/L		5	18
Xylenes, Total	2.26	J	2.434	J	ug/L		7	18

Surrogate	DU %Recovery	DU Qualifier	DU Limits
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
Toluene-d8 (Surr)	82		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-33306/6
Matrix: Water
Analysis Batch: 33306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			09/28/21 13:14	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		68.7 - 141		09/28/21 13:14	1

Lab Sample ID: LCS 590-33306/1005
Matrix: Water
Analysis Batch: 33306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	1000	1017		ug/L		102	80 - 120

Eurofins TestAmerica, Spokane

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-33306/1005
Matrix: Water
Analysis Batch: 33306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

	LCS %Recovery	LCS Qualifier	Limits
<i>Surrogate</i> 4-Bromofluorobenzene (Surr)	96		68.7 - 141

Lab Sample ID: LCSD 590-33306/1016
Matrix: Water
Analysis Batch: 33306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Analyte TPH as Gasoline	1000	993.1		ug/L		99	80 - 120	2	20
<i>Surrogate</i> 4-Bromofluorobenzene (Surr)									

Lab Sample ID: 590-15985-1 DU
Matrix: Water
Analysis Batch: 33306

Client Sample ID: MW-301
Prep Type: Total/NA

	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Analyte TPH as Gasoline	226		208.6		ug/L		8	35
<i>Surrogate</i> 4-Bromofluorobenzene (Surr)								

Lab Sample ID: MB 590-33321/6
Matrix: Water
Analysis Batch: 33321

Client Sample ID: Method Blank
Prep Type: Total/NA

	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte TPH as Gasoline	ND		150	70.4	ug/L			09/29/21 12:20	1
<i>Surrogate</i> 4-Bromofluorobenzene (Surr)								09/29/21 12:20	1

Lab Sample ID: LCS 590-33321/1005
Matrix: Water
Analysis Batch: 33321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Analyte TPH as Gasoline	1000	948.6		ug/L		95	80 - 120
<i>Surrogate</i> 4-Bromofluorobenzene (Surr)							

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 590-33321/1016
Matrix: Water
Analysis Batch: 33321

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline	1000	1046		ug/L		105	80 - 120	10	20
Surrogate									
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	95		68.7 - 141						

Lab Sample ID: 590-15985-9 DU
Matrix: Water
Analysis Batch: 33321

Client Sample ID: MW-312
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TPH as Gasoline	1830		2008		ug/L		9	35
Surrogate								
	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	101		68.7 - 141					

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-33308/1-A
Matrix: Water
Analysis Batch: 33310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		240	110	ug/L		09/28/21 13:27	09/28/21 15:44	1
RRO (C25-C36)	ND		400	120	ug/L		09/28/21 13:27	09/28/21 15:44	1
Surrogate									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				09/28/21 13:27	09/28/21 15:44	1
n-Triacontane-d62	68		50 - 150				09/28/21 13:27	09/28/21 15:44	1

Lab Sample ID: LCS 590-33308/2-A
Matrix: Water
Analysis Batch: 33310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	1600	1158		ug/L		72	50 - 150
RRO (C25-C36)	1600	1412		ug/L		88	50 - 150
Surrogate							
	%Recovery	Qualifier	Limits				
o-Terphenyl	64		50 - 150				
n-Triacontane-d62	62		50 - 150				

Lab Sample ID: LCSD 590-33308/3-A
Matrix: Water
Analysis Batch: 33310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C25)	1600	1125		ug/L		70	50 - 150	3	25
RRO (C25-C36)	1600	1400		ug/L		88	50 - 150	1	25

Eurofins TestAmerica, Spokane

QC Sample Results

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

<i>Surrogate</i>	<i>LCS D LCS D</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>o-Terphenyl</i>	84		50 - 150
<i>n-Triacontane-d62</i>	80		50 - 150

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-301

Lab Sample ID: 590-15985-1

Date Collected: 09/22/21 12:11

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33307	09/28/21 18:49	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33306	09/28/21 18:49	JSP	TAL SPK

Client Sample ID: MW-302

Lab Sample ID: 590-15985-2

Date Collected: 09/23/21 08:15

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33307	09/28/21 19:31	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33306	09/28/21 19:31	JSP	TAL SPK

Client Sample ID: MW-303

Lab Sample ID: 590-15985-3

Date Collected: 09/22/21 12:39

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33307	09/28/21 19:52	JSP	TAL SPK
Total/NA	Analysis	8260D		100	43 mL	43 mL	33322	09/29/21 14:25	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33306	09/28/21 19:52	JSP	TAL SPK

Client Sample ID: MW-304

Lab Sample ID: 590-15985-4

Date Collected: 09/22/21 13:06

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33307	09/28/21 20:13	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33306	09/28/21 20:13	JSP	TAL SPK

Client Sample ID: MW-307

Lab Sample ID: 590-15985-5

Date Collected: 09/22/21 10:46

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33307	09/28/21 20:54	JSP	TAL SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	33322	09/29/21 14:46	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33306	09/28/21 20:54	JSP	TAL SPK

Client Sample ID: MW-308

Lab Sample ID: 590-15985-6

Date Collected: 09/22/21 11:16

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33307	09/28/21 21:15	JSP	TAL SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	33322	09/29/21 15:07	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33306	09/28/21 21:15	JSP	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: MW-310

Lab Sample ID: 590-15985-7

Date Collected: 09/22/21 13:37

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33307	09/28/21 21:36	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33306	09/28/21 21:36	JSP	TAL SPK

Client Sample ID: MW-311

Lab Sample ID: 590-15985-8

Date Collected: 09/23/21 11:02

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33307	09/28/21 21:57	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33306	09/28/21 21:57	JSP	TAL SPK

Client Sample ID: MW-312

Lab Sample ID: 590-15985-9

Date Collected: 09/23/21 10:34

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33322	09/29/21 15:28	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33321	09/29/21 15:28	JSP	TAL SPK

Client Sample ID: MW-313

Lab Sample ID: 590-15985-10

Date Collected: 09/23/21 10:00

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33322	09/29/21 16:31	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33321	09/29/21 16:31	JSP	TAL SPK
Total/NA	Prep	3510C			255.4 mL	2 mL	33308	09/28/21 13:27	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33310	09/28/21 21:27	NMI	TAL SPK

Client Sample ID: MW-315

Lab Sample ID: 590-15985-11

Date Collected: 09/23/21 09:24

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33322	09/29/21 17:34	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33321	09/29/21 17:34	JSP	TAL SPK
Total/NA	Prep	3510C			257.4 mL	2 mL	33308	09/28/21 13:27	KBZ	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			33310	09/28/21 21:47	NMI	TAL SPK

Client Sample ID: TX-03A

Lab Sample ID: 590-15985-12

Date Collected: 09/23/21 08:49

Matrix: Water

Date Received: 09/24/21 15:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33322	09/29/21 17:54	JSP	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Client Sample ID: TX-03A

Date Collected: 09/23/21 08:49

Date Received: 09/24/21 15:19

Lab Sample ID: 590-15985-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33321	09/29/21 17:54	JSP	TAL SPK

Client Sample ID: TB01

Date Collected: 09/22/21 08:00

Date Received: 09/24/21 15:19

Lab Sample ID: 590-15985-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	33322	09/29/21 18:15	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	33321	09/29/21 18:15	JSP	TAL SPK

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

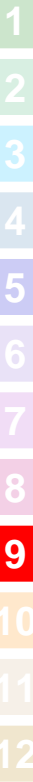
Laboratory: Eurofins TestAmerica, Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4137	12-07-22
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
NWTPH-Dx	3510C	Water	RRO (C25-C36)



Method Summary

Client: GHD Services Inc.
Project/Site: Triton West Consent Decree

Job ID: 590-15985-1
SDG: 2555 13th Avenue SW, Seattle, WA

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SPK
5030C	Purge and Trap	SW846	TAL SPK

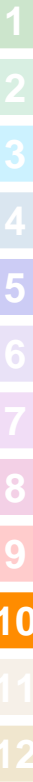
Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200





Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)

ACCUTEST ()

CALSCIENCE ()

TESTAMERICA ()

Other ()

Lab Vendor # Dropdown

Please Check Appropriate Box:

SGW FDG PIPELINE RETAIL

CHEMICALS CONSULTANT LUBES

TRANSPORTATION OTHER ()

Print Bill To Contact Name: _____

PlaNet Site or Project ID _____

PO # _____

GSAP Project ID _____

CHECK IF NO INCIDENT # APPLIES

DATE: 9/22/21 - 9/23/21

PAGE: 2 of 2

SAMPLING COMPANY: Blaine Tech Services, Inc LOG CODE: BTSS

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Jacquelyn England

TELEPHONE: (707)523-1010 FAX: _____ E-MAIL: jacquelyn.england@ghd.com

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

DELIVERABLES: LA - RWQCB REPORT FORMAT UST AGENCY:

TEMPERATURE ON RECEIPT C* Cooler #1 Cooler #2 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

PROVIDE LEDD DISK

SITE ADDRESS: Street and City: 2555 13th Avenue State: WA

EDF DELIVERABLE TO (Name, Company, Office Location): Jacquelyn England, GHD, Santa Rosa PHONE NO.: (707)523-1010 E-MAIL: jacquelyn.england@ghd.com AECOM Other ID: 11218519

SAMPLER NAME(S) (Print): Foster Koetzel

LAB USE ONLY

UNIT COST	REQUESTED ANALYSIS										NON-UNIT COST	FIELD NOTES:
	8260C BTEX	NWTPH-Gx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	8020A Total Lead	353.2 Nitrate & Nitrite	8020A Diss. Iron & Manganese (lab filter)	300.0 Chloride	2320B Alkalinity		
												TEMPERATURE ON RECEIPT C*
												Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	8260C BTEX	NWTPH-Gx	8270D SIM PAHs	300.0 Sulfate	NWTPH-Gx	8020A Total Lead	353.2 Nitrate & Nitrite	8020A Diss. Iron & Manganese (lab filter)	300.0 Chloride	2320B Alkalinity			
	DATE	TIME	HCL	HNO3		H2SO4	NONE	OTHER																
	MW-315		9/23/21	0924	GW	8					8	XX												
	TX-03A		9/23	0849	↓	6					6	X												
	TB01		9/22	0800	↓	2					2	X												

Reinquished by (Signature): 9/23/21 1600 shipped via Fed EX Date: 9/23/21 Time: 1600

Reinquished by (Signature): Received by (Signature): ETA 800 Date: 9/24/2021 Time: 14:30

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-15985-1

SDG Number: 2555 13th Avenue SW, Seattle, WA

Login Number: 15985

List Number: 1

Creator: Vaughan, Madison 1

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



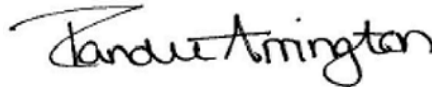
ANALYTICAL REPORT

Eurofins Northwest, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-16597-1
Laboratory SDG: Triton West Consent Decree
Client Project/Site: 2555 13th Avenue SW, Seattle WA

For:
GHD Services Inc.
2235 Mercury Way
Suite 150
Santa Rosa, California 95407

Attn: Jacquelyn England



Authorized for release by:
1/4/2022 5:30:15 PM
Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

Designee for
Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Job ID: 590-16597-1

Laboratory: Eurofins Northwest, Spokane

Narrative

Receipt

The samples were received on 12/17/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.1° C, 2.1° C, 3.4° C and 4.3° C.

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 590-34453.

Method NWTPH-Gx: The continuing calibration verification (CCV) associated with batch 590-34471 recovered above the upper control limit for TPH as Gasoline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 590-34482.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Methods 8270E SIM: The method blank for preparation batch 590-34493 and analytical batch 590-34479 contained Benzo[a]anthracene and Benzo[a]pyrene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to weathered diesel in the following sample: MW-307 (590-16597-1).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in the following samples: MW-101 (590-16597-4) and MW-104 (590-16597-6).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel in the following samples: MW-105 (590-16597-7), MW-111 (590-16597-8), TX-06A (590-16597-11), MW-204 (590-16597-18) and MW-313 (590-16597-27).

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to gasoline overlap in the following samples: MW-112A (590-16597-9), SH-04 (590-16597-10), MW-309 (590-16597-14) and MW-202 (590-16597-19).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010D: The low level initial calibration verification (ICVL) associated with batch 590-34575 recovered above the upper control limit for Lead. The samples associated with this ICV were either 10x spike amount or non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-377058 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 353.2: The sample duplicate (DUP) precision for analytical batch 580-377058 was outside control limits. Sample matrix interference is suspected.

Case Narrative

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Job ID: 590-16597-1 (Continued)

Laboratory: Eurofins Northwest, Spokane (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Sample Summary

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-16597-1	MW-307	Water	12/14/21 12:20	12/17/21 09:50
590-16597-2	MW-308	Water	12/14/21 13:10	12/17/21 09:50
590-16597-3	TES-MW-1	Water	12/14/21 13:50	12/17/21 09:50
590-16597-4	MW-101	Water	12/14/21 14:30	12/17/21 09:50
590-16597-5	MW-05	Water	12/15/21 08:40	12/17/21 09:50
590-16597-6	MW-104	Water	12/15/21 09:10	12/17/21 09:50
590-16597-7	MW-105	Water	12/15/21 09:40	12/17/21 09:50
590-16597-8	MW-111	Water	12/15/21 10:20	12/17/21 09:50
590-16597-9	MW-112A	Water	12/15/21 11:00	12/17/21 09:50
590-16597-10	SH-04	Water	12/15/21 11:40	12/17/21 09:50
590-16597-11	TX-06A	Water	12/15/21 13:00	12/17/21 09:50
590-16597-12	TX-04	Water	12/15/21 13:30	12/17/21 09:50
590-16597-13	MW-303	Water	12/15/21 14:00	12/17/21 09:50
590-16597-14	MW-309	Water	12/15/21 14:30	12/17/21 09:50
590-16597-15	MW-102	Water	12/16/21 09:00	12/17/21 09:50
590-16597-16	MW-206A	Water	12/16/21 09:30	12/17/21 09:50
590-16597-17	MW-203	Water	12/16/21 10:00	12/17/21 09:50
590-16597-18	MW-204	Water	12/16/21 10:50	12/17/21 09:50
590-16597-19	MW-202	Water	12/16/21 11:40	12/17/21 09:50
590-16597-20	MW-214	Water	12/16/21 13:20	12/17/21 09:50
590-16597-21	MW-301	Water	12/16/21 09:25	12/17/21 09:50
590-16597-22	MW-304	Water	12/16/21 10:07	12/17/21 09:50
590-16597-23	MW-310	Water	12/16/21 11:03	12/17/21 09:50
590-16597-24	MW-311	Water	12/16/21 12:04	12/17/21 09:50
590-16597-25	MW-312	Water	12/16/21 12:40	12/17/21 09:50
590-16597-26	MW-315	Water	12/16/21 13:26	12/17/21 09:50
590-16597-27	MW-313	Water	12/16/21 14:20	12/17/21 09:50
590-16597-28	MW-213	Water	12/16/21 14:10	12/17/21 09:50
590-16597-29	MW-302	Water	12/16/21 15:12	12/17/21 09:50

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-307

Lab Sample ID: 590-16597-1

Date Collected: 12/14/21 12:20

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	42.6		0.400	0.0930	ug/L			12/17/21 18:42	1
Ethylbenzene	92.1		1.00	0.198	ug/L			12/17/21 18:42	1
Toluene	4.93		1.00	0.312	ug/L			12/17/21 18:42	1
Xylenes, Total	40.2		3.00	0.442	ug/L			12/17/21 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		12/17/21 18:42	1
Dibromofluoromethane (Surr)	97		80 - 120		12/17/21 18:42	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		12/17/21 18:42	1
Toluene-d8 (Surr)	97		80 - 120		12/17/21 18:42	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2390		150	70.4	ug/L			12/17/21 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		12/17/21 18:42	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	4920		261	120	ug/L		12/28/21 15:44	12/28/21 17:36	1
RRO (C25-C36)	492		435	130	ug/L		12/28/21 15:44	12/28/21 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	12/28/21 15:44	12/28/21 17:36	1
n-Triacontane-d62	90		50 - 150	12/28/21 15:44	12/28/21 17:36	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	22.1		5.00	1.28	mg/L			12/22/21 11:13	10

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	172	J	500	66.7	ug/L		12/30/21 17:06	01/04/22 03:31	5
Manganese	764		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 03:31	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	110	J F1 F2	150	60.0	ug/L			12/29/21 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-308

Lab Sample ID: 590-16597-2

Date Collected: 12/14/21 13:10

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/17/21 19:24	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/17/21 19:24	1
Toluene	ND		1.00	0.312	ug/L			12/17/21 19:24	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/17/21 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		12/17/21 19:24	1
Dibromofluoromethane (Surr)	105		80 - 120		12/17/21 19:24	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		12/17/21 19:24	1
Toluene-d8 (Surr)	103		80 - 120		12/17/21 19:24	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/17/21 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		12/17/21 19:24	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	20.9		2.00	0.512	mg/L			12/22/21 11:25	4

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		500	66.7	ug/L		12/30/21 17:06	01/04/22 03:38	5
Manganese	219		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 03:38	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		150	60.0	ug/L			12/29/21 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: TES-MW-1

Lab Sample ID: 590-16597-3

Date Collected: 12/14/21 13:50

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/17/21 19:45	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/17/21 19:45	1
Toluene	ND		1.00	0.312	ug/L			12/17/21 19:45	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/17/21 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		12/17/21 19:45	1
Dibromofluoromethane (Surr)	108		80 - 120		12/17/21 19:45	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		12/17/21 19:45	1
Toluene-d8 (Surr)	101		80 - 120		12/17/21 19:45	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/17/21 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		12/17/21 19:45	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		237	109	ug/L		12/28/21 15:44	12/28/21 17:57	1
RRO (C25-C36)	162	J	396	119	ug/L		12/28/21 15:44	12/28/21 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	12/28/21 15:44	12/28/21 17:57	1
n-Triacontane-d62	82		50 - 150	12/28/21 15:44	12/28/21 17:57	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-101

Lab Sample ID: 590-16597-4

Date Collected: 12/14/21 14:30

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/17/21 20:48	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/17/21 20:48	1
Toluene	ND		1.00	0.312	ug/L			12/17/21 20:48	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/17/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120		12/17/21 20:48	1
Dibromofluoromethane (Surr)	104		80 - 120		12/17/21 20:48	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		12/17/21 20:48	1
Toluene-d8 (Surr)	96		80 - 120		12/17/21 20:48	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	433		150	70.4	ug/L			12/17/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		68.7 - 141		12/17/21 20:48	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	305		245	112	ug/L		12/28/21 15:44	12/28/21 18:17	1
RRO (C25-C36)	128	J	409	123	ug/L		12/28/21 15:44	12/28/21 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150	12/28/21 15:44	12/28/21 18:17	1
n-Triacontane-d62	77		50 - 150	12/28/21 15:44	12/28/21 18:17	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-05

Lab Sample ID: 590-16597-5

Date Collected: 12/15/21 08:40

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/17/21 21:29	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/17/21 21:29	1
Toluene	ND		1.00	0.312	ug/L			12/17/21 21:29	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/17/21 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		12/17/21 21:29	1
Dibromofluoromethane (Surr)	108		80 - 120		12/17/21 21:29	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		12/17/21 21:29	1
Toluene-d8 (Surr)	100		80 - 120		12/17/21 21:29	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/17/21 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141		12/17/21 21:29	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		254	117	ug/L		12/28/21 15:44	12/28/21 18:38	1
RRO (C25-C36)	ND		424	127	ug/L		12/28/21 15:44	12/28/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	12/28/21 15:44	12/28/21 18:38	1
n-Triacontane-d62	90		50 - 150	12/28/21 15:44	12/28/21 18:38	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
 SDG: Triton West Consent Decree

Client Sample ID: MW-104
Date Collected: 12/15/21 09:10
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-6
Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	300		150	70.4	ug/L			12/17/21 21:50	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	104		68.7 - 141					12/17/21 21:50	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	456		249	114	ug/L		12/28/21 15:44	12/28/21 18:59	1
RRO (C25-C36)	175	J	415	125	ug/L		12/28/21 15:44	12/28/21 18:59	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl	82		50 - 150				12/28/21 15:44	12/28/21 18:59	1
n-Triacontane-d62	79		50 - 150				12/28/21 15:44	12/28/21 18:59	1

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^1+	60.0	5.10	ug/L		12/28/21 09:03	12/29/21 14:53	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-105

Lab Sample ID: 590-16597-7

Date Collected: 12/15/21 09:40

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/17/21 22:11	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/17/21 22:11	1
Toluene	ND		1.00	0.312	ug/L			12/17/21 22:11	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/17/21 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		12/17/21 22:11	1
Dibromofluoromethane (Surr)	105		80 - 120		12/17/21 22:11	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		12/17/21 22:11	1
Toluene-d8 (Surr)	103		80 - 120		12/17/21 22:11	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/17/21 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141		12/17/21 22:11	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	523		252	116	ug/L		12/29/21 12:10	12/29/21 14:43	1
RRO (C25-C36)	670		421	126	ug/L		12/29/21 12:10	12/29/21 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		50 - 150	12/29/21 12:10	12/29/21 14:43	1
<i>n</i> -Triacontane-d62	67		50 - 150	12/29/21 12:10	12/29/21 14:43	1

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32.4	J	60.0	5.10	ug/L		12/28/21 09:03	12/30/21 13:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-111

Lab Sample ID: 590-16597-8

Date Collected: 12/15/21 10:20

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.37		0.400	0.0930	ug/L			12/17/21 22:32	1
Ethylbenzene	0.247	J	1.00	0.198	ug/L			12/17/21 22:32	1
Toluene	1.61		1.00	0.312	ug/L			12/17/21 22:32	1
Xylenes, Total	1.66	J	3.00	0.442	ug/L			12/17/21 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		12/17/21 22:32	1
Dibromofluoromethane (Surr)	100		80 - 120		12/17/21 22:32	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		12/17/21 22:32	1
Toluene-d8 (Surr)	98		80 - 120		12/17/21 22:32	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	421		150	70.4	ug/L			12/17/21 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		68.7 - 141		12/17/21 22:32	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	340		243	112	ug/L		12/29/21 12:10	12/29/21 15:04	1
RRO (C25-C36)	149	J	406	122	ug/L		12/29/21 12:10	12/29/21 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	12/29/21 12:10	12/29/21 15:04	1
n-Triacontane-d62	76		50 - 150	12/29/21 12:10	12/29/21 15:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-112A

Lab Sample ID: 590-16597-9

Date Collected: 12/15/21 11:00

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.35		0.400	0.0930	ug/L			12/20/21 16:59	1
Ethylbenzene	0.665	J	1.00	0.198	ug/L			12/20/21 16:59	1
Toluene	1.47		1.00	0.312	ug/L			12/20/21 16:59	1
Xylenes, Total	2.13	J	3.00	0.442	ug/L			12/20/21 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		12/20/21 16:59	1
Dibromofluoromethane (Surr)	98		80 - 120		12/20/21 16:59	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		12/20/21 16:59	1
Toluene-d8 (Surr)	96		80 - 120		12/20/21 16:59	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2340		150	70.4	ug/L			12/21/21 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		12/21/21 14:52	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	1100		237	109	ug/L		12/29/21 12:10	12/29/21 15:24	1
RRO (C25-C36)	215	J	395	119	ug/L		12/29/21 12:10	12/29/21 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	12/29/21 12:10	12/29/21 15:24	1
n-Triacontane-d62	75		50 - 150	12/29/21 12:10	12/29/21 15:24	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: SH-04
Date Collected: 12/15/21 11:40
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-10
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16.7		0.400	0.0930	ug/L			12/20/21 17:40	1
Ethylbenzene	1.50		1.00	0.198	ug/L			12/20/21 17:40	1
Toluene	1.72		1.00	0.312	ug/L			12/20/21 17:40	1
Xylenes, Total	3.80		3.00	0.442	ug/L			12/20/21 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		12/20/21 17:40	1
Dibromofluoromethane (Surr)	95		80 - 120		12/20/21 17:40	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		12/20/21 17:40	1
Toluene-d8 (Surr)	92		80 - 120		12/20/21 17:40	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1290		150	70.4	ug/L			12/21/21 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141		12/21/21 15:13	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	2670		248	114	ug/L		12/29/21 12:10	12/29/21 15:44	1
RRO (C25-C36)	400	J	414	124	ug/L		12/29/21 12:10	12/29/21 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	12/29/21 12:10	12/29/21 15:44	1
n-Triacontane-d62	73		50 - 150	12/29/21 12:10	12/29/21 15:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: TX-06A

Lab Sample ID: 590-16597-11

Date Collected: 12/15/21 13:00

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/20/21 18:42	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/20/21 18:42	1
Toluene	ND		1.00	0.312	ug/L			12/20/21 18:42	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/20/21 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		12/20/21 18:42	1
Dibromofluoromethane (Surr)	111		80 - 120		12/20/21 18:42	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		12/20/21 18:42	1
Toluene-d8 (Surr)	97		80 - 120		12/20/21 18:42	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND	*+	150	70.4	ug/L			12/20/21 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		12/20/21 18:42	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	589		248	114	ug/L		12/29/21 12:10	12/29/21 16:04	1
RRO (C25-C36)	146	J	414	124	ug/L		12/29/21 12:10	12/29/21 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150	12/29/21 12:10	12/29/21 16:04	1
<i>n</i> -Triacotane-d62	71		50 - 150	12/29/21 12:10	12/29/21 16:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: TX-04
Date Collected: 12/15/21 13:30
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-12
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/20/21 19:02	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/20/21 19:02	1
Toluene	ND		1.00	0.312	ug/L			12/20/21 19:02	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/20/21 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		12/20/21 19:02	1
Dibromofluoromethane (Surr)	108		80 - 120		12/20/21 19:02	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		12/20/21 19:02	1
Toluene-d8 (Surr)	95		80 - 120		12/20/21 19:02	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND	*+	150	70.4	ug/L			12/20/21 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		12/20/21 19:02	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		247	113	ug/L		12/29/21 12:10	12/29/21 16:24	1
RRO (C25-C36)	ND		411	123	ug/L		12/29/21 12:10	12/29/21 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	12/29/21 12:10	12/29/21 16:24	1
n-Triacontane-d62	71		50 - 150	12/29/21 12:10	12/29/21 16:24	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-303

Lab Sample ID: 590-16597-13

Date Collected: 12/15/21 14:00

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24.8		0.400	0.0930	ug/L			12/21/21 15:35	1
Ethylbenzene	14.2		1.00	0.198	ug/L			12/21/21 15:35	1
Toluene	0.620	J	1.00	0.312	ug/L			12/21/21 15:35	1
Xylenes, Total	4.35		3.00	0.442	ug/L			12/21/21 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		12/21/21 15:35	1
Dibromofluoromethane (Surr)	98		80 - 120		12/21/21 15:35	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		12/21/21 15:35	1
Toluene-d8 (Surr)	95		80 - 120		12/21/21 15:35	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2390		150	70.4	ug/L			12/21/21 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141		12/21/21 15:35	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	6510		249	114	ug/L		12/29/21 12:10	12/29/21 16:44	1
RRO (C25-C36)	385	J	415	125	ug/L		12/29/21 12:10	12/29/21 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	12/29/21 12:10	12/29/21 16:44	1
n-Triacontane-d62	77		50 - 150	12/29/21 12:10	12/29/21 16:44	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-309

Lab Sample ID: 590-16597-14

Date Collected: 12/15/21 14:30

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/21/21 15:56	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/21/21 15:56	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 15:56	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/21/21 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		12/21/21 15:56	1
Dibromofluoromethane (Surr)	104		80 - 120		12/21/21 15:56	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		12/21/21 15:56	1
Toluene-d8 (Surr)	97		80 - 120		12/21/21 15:56	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	113	J	150	70.4	ug/L			12/21/21 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		68.7 - 141		12/21/21 15:56	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	273		253	116	ug/L		12/29/21 12:10	12/29/21 17:21	1
RRO (C25-C36)	140	J	422	127	ug/L		12/29/21 12:10	12/29/21 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	12/29/21 12:10	12/29/21 17:21	1
n-Triacontane-d62	70		50 - 150	12/29/21 12:10	12/29/21 17:21	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
 SDG: Triton West Consent Decree

Client Sample ID: MW-102

Lab Sample ID: 590-16597-15

Date Collected: 12/16/21 09:00

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/21/21 16:17	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/21/21 16:17	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 16:17	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/21/21 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		12/21/21 16:17	1
Dibromofluoromethane (Surr)	107		80 - 120		12/21/21 16:17	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		12/21/21 16:17	1
Toluene-d8 (Surr)	101		80 - 120		12/21/21 16:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/21/21 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141		12/21/21 16:17	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		240	110	ug/L		12/29/21 12:10	12/29/21 17:41	1
RRO (C25-C36)	ND		401	120	ug/L		12/29/21 12:10	12/29/21 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	12/29/21 12:10	12/29/21 17:41	1
n-Triacontane-d62	66		50 - 150	12/29/21 12:10	12/29/21 17:41	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
 SDG: Triton West Consent Decree

Client Sample ID: MW-206A

Lab Sample ID: 590-16597-16

Date Collected: 12/16/21 09:30

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/21/21 16:38	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/21/21 16:38	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 16:38	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/21/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		12/21/21 16:38	1
Dibromofluoromethane (Surr)	110		80 - 120		12/21/21 16:38	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		12/21/21 16:38	1
Toluene-d8 (Surr)	99		80 - 120		12/21/21 16:38	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/21/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141		12/21/21 16:38	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	150	J	248	113	ug/L		12/29/21 12:10	12/29/21 18:01	1
RRO (C25-C36)	215	J	413	124	ug/L		12/29/21 12:10	12/29/21 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		50 - 150	12/29/21 12:10	12/29/21 18:01	1
<i>n</i> -Triacontane-d62	66		50 - 150	12/29/21 12:10	12/29/21 18:01	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-203

Lab Sample ID: 590-16597-17

Date Collected: 12/16/21 10:00

Matrix: Water

Date Received: 12/17/21 09:50

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	129	J	150	70.4	ug/L			12/21/21 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		12/21/21 17:00	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	138	J	244	112	ug/L		12/29/21 12:10	12/29/21 18:21	1
RRO (C25-C36)	273	J	407	122	ug/L		12/29/21 12:10	12/29/21 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150	12/29/21 12:10	12/29/21 18:21	1
n-Triacontane-d62	68		50 - 150	12/29/21 12:10	12/29/21 18:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	16.9		0.500	0.128	mg/L			12/22/21 11:38	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		500	66.7	ug/L		12/30/21 17:06	01/04/22 02:40	5
Manganese	50.5		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 02:40	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	195		150	60.0	ug/L			12/29/21 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-204

Lab Sample ID: 590-16597-18

Date Collected: 12/16/21 10:50

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.342	J	0.400	0.0930	ug/L			12/21/21 17:21	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/21/21 17:21	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 17:21	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/21/21 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		12/21/21 17:21	1
Dibromofluoromethane (Surr)	109		80 - 120		12/21/21 17:21	1
1,2-Dichloroethane-d4 (Surr)	110		80 - 120		12/21/21 17:21	1
Toluene-d8 (Surr)	92		80 - 120		12/21/21 17:21	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/21/21 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		12/21/21 17:21	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	379		248	114	ug/L		12/29/21 12:10	12/29/21 18:40	1
RRO (C25-C36)	413		413	124	ug/L		12/29/21 12:10	12/29/21 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	12/29/21 12:10	12/29/21 18:40	1
n-Triacontane-d62	74		50 - 150	12/29/21 12:10	12/29/21 18:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-202

Lab Sample ID: 590-16597-19

Date Collected: 12/16/21 11:40

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.75		0.400	0.0930	ug/L			12/21/21 18:25	1
Ethylbenzene	1.21		1.00	0.198	ug/L			12/21/21 18:25	1
Toluene	0.751	J	1.00	0.312	ug/L			12/21/21 18:25	1
Xylenes, Total	1.69	J	3.00	0.442	ug/L			12/21/21 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		12/21/21 18:25	1
Dibromofluoromethane (Surr)	95		80 - 120		12/21/21 18:25	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		12/21/21 18:25	1
Toluene-d8 (Surr)	103		80 - 120		12/21/21 18:25	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	3710		150	70.4	ug/L			12/21/21 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		12/21/21 18:25	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	17000		260	119	ug/L		12/29/21 12:10	12/29/21 19:00	1
RRO (C25-C36)	706		434	130	ug/L		12/29/21 12:10	12/29/21 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	12/29/21 12:10	12/29/21 19:00	1
n-Triacontane-d62	75		50 - 150	12/29/21 12:10	12/29/21 19:00	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4.00	J	5.00	1.28	mg/L			12/22/21 11:51	10

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	320	J	500	66.7	ug/L		12/30/21 17:06	01/04/22 02:44	5
Manganese	532		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 02:44	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	68.5	J	150	60.0	ug/L			12/29/21 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-214

Lab Sample ID: 590-16597-20

Date Collected: 12/16/21 13:20

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/21/21 18:46	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/21/21 18:46	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 18:46	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/21/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		12/21/21 18:46	1
Dibromofluoromethane (Surr)	110		80 - 120		12/21/21 18:46	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		12/21/21 18:46	1
Toluene-d8 (Surr)	104		80 - 120		12/21/21 18:46	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/21/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141		12/21/21 18:46	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.0905	0.0121	ug/L		12/21/21 13:14	12/21/21 16:08	1
Benzo[a]pyrene	ND		0.0905	0.0121	ug/L		12/21/21 13:14	12/21/21 16:08	1
Benzo[b]fluoranthene	ND		0.0905	0.0251	ug/L		12/21/21 13:14	12/21/21 16:08	1
Benzo[k]fluoranthene	ND		0.0905	0.0151	ug/L		12/21/21 13:14	12/21/21 16:08	1
Chrysene	ND		0.0905	0.0101	ug/L		12/21/21 13:14	12/21/21 16:08	1
Dibenz(a,h)anthracene	ND		0.0905	0.0131	ug/L		12/21/21 13:14	12/21/21 16:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0905	0.0221	ug/L		12/21/21 13:14	12/21/21 16:08	1
1-Methylnaphthalene	ND		0.0905	0.0231	ug/L		12/21/21 13:14	12/21/21 16:08	1
2-Methylnaphthalene	0.0488	J	0.0905	0.0442	ug/L		12/21/21 13:14	12/21/21 16:08	1
Naphthalene	ND		0.0905	0.0533	ug/L		12/21/21 13:14	12/21/21 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		36 - 120	12/21/21 13:14	12/21/21 16:08	1
p-Terphenyl-d14	74		51 - 121	12/21/21 13:14	12/21/21 16:08	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	172	J	252	115	ug/L		12/29/21 12:10	12/29/21 19:20	1
RRO (C25-C36)	129	J	420	126	ug/L		12/29/21 12:10	12/29/21 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150	12/29/21 12:10	12/29/21 19:20	1
n-Triacontane-d62	64		50 - 150	12/29/21 12:10	12/29/21 19:20	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
 SDG: Triton West Consent Decree

Client Sample ID: MW-301

Lab Sample ID: 590-16597-21

Date Collected: 12/16/21 09:25

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18.5		0.400	0.0930	ug/L			12/21/21 19:49	1
Ethylbenzene	4.39		1.00	0.198	ug/L			12/21/21 19:49	1
Toluene	0.723	J	1.00	0.312	ug/L			12/21/21 19:49	1
Xylenes, Total	0.768	J	3.00	0.442	ug/L			12/21/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		12/21/21 19:49	1
Dibromofluoromethane (Surr)	108		80 - 120		12/21/21 19:49	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		12/21/21 19:49	1
Toluene-d8 (Surr)	96		80 - 120		12/21/21 19:49	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	471		150	70.4	ug/L			12/21/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141		12/21/21 19:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-304

Lab Sample ID: 590-16597-22

Date Collected: 12/16/21 10:07

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.39		0.400	0.0930	ug/L			12/21/21 20:10	1
Ethylbenzene	1.32		1.00	0.198	ug/L			12/21/21 20:10	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 20:10	1
Xylenes, Total	0.646	J	3.00	0.442	ug/L			12/21/21 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		12/21/21 20:10	1
Dibromofluoromethane (Surr)	110		80 - 120		12/21/21 20:10	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		12/21/21 20:10	1
Toluene-d8 (Surr)	101		80 - 120		12/21/21 20:10	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	406		150	70.4	ug/L			12/21/21 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141		12/21/21 20:10	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	1860		245	112	ug/L		12/29/21 12:10	12/29/21 19:40	1
RRO (C25-C36)	292	J	408	122	ug/L		12/29/21 12:10	12/29/21 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150	12/29/21 12:10	12/29/21 19:40	1
n-Triacontane-d62	63		50 - 150	12/29/21 12:10	12/29/21 19:40	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	72.8		5.00	1.28	mg/L			12/22/21 12:03	10

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19000		500	66.7	ug/L		12/30/21 17:06	01/04/22 02:48	5
Manganese	1180		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 02:48	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	72.4	J	150	60.0	ug/L			12/29/21 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-310

Lab Sample ID: 590-16597-23

Date Collected: 12/16/21 11:03

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16.6		0.400	0.0930	ug/L			12/21/21 20:32	1
Ethylbenzene	1.70		1.00	0.198	ug/L			12/21/21 20:32	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 20:32	1
Xylenes, Total	0.730	J	3.00	0.442	ug/L			12/21/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		12/21/21 20:32	1
Dibromofluoromethane (Surr)	102		80 - 120		12/21/21 20:32	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		12/21/21 20:32	1
Toluene-d8 (Surr)	98		80 - 120		12/21/21 20:32	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1400		150	70.4	ug/L			12/21/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		68.7 - 141		12/21/21 20:32	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	6760		236	108	ug/L		12/29/21 12:10	12/29/21 20:00	1
RRO (C25-C36)	667		394	118	ug/L		12/29/21 12:10	12/29/21 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	12/29/21 12:10	12/29/21 20:00	1
n-Triacontane-d62	74		50 - 150	12/29/21 12:10	12/29/21 20:00	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	90.8		5.00	1.28	mg/L			12/22/21 12:16	10

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	339	J	500	66.7	ug/L		12/30/21 17:06	01/04/22 02:51	5
Manganese	2500		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 02:51	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	102	J	150	60.0	ug/L			12/29/21 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-311

Lab Sample ID: 590-16597-24

Date Collected: 12/16/21 12:04

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.347	J	0.400	0.0930	ug/L			12/21/21 20:53	1
Ethylbenzene	0.343	J	1.00	0.198	ug/L			12/21/21 20:53	1
Toluene	0.923	J	1.00	0.312	ug/L			12/21/21 20:53	1
Xylenes, Total	1.05	J	3.00	0.442	ug/L			12/21/21 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		12/21/21 20:53	1
Dibromofluoromethane (Surr)	102		80 - 120		12/21/21 20:53	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		12/21/21 20:53	1
Toluene-d8 (Surr)	101		80 - 120		12/21/21 20:53	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1630		150	70.4	ug/L			12/21/21 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		68.7 - 141		12/21/21 20:53	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4.42		0.500	0.128	mg/L			12/22/21 12:54	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	144	J	500	66.7	ug/L		12/30/21 17:06	01/04/22 02:55	5
Manganese	1770		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 02:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		150	60.0	ug/L			12/29/21 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-312

Lab Sample ID: 590-16597-25

Date Collected: 12/16/21 12:40

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	30.0		0.400	0.0930	ug/L			12/21/21 21:35	1
Ethylbenzene	2.90		1.00	0.198	ug/L			12/21/21 21:35	1
Toluene	2.25		1.00	0.312	ug/L			12/21/21 21:35	1
Xylenes, Total	2.37	J	3.00	0.442	ug/L			12/21/21 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		12/21/21 21:35	1
Dibromofluoromethane (Surr)	99		80 - 120		12/21/21 21:35	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		12/21/21 21:35	1
Toluene-d8 (Surr)	98		80 - 120		12/21/21 21:35	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2990		150	70.4	ug/L			12/21/21 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141		12/21/21 21:35	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.500	0.128	mg/L			12/22/21 13:07	1

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	115	J	500	66.7	ug/L		12/30/21 17:06	01/04/22 02:59	5
Manganese	830		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 02:59	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		150	60.0	ug/L			12/29/21 18:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-315

Lab Sample ID: 590-16597-26

Date Collected: 12/16/21 13:26

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.21		0.400	0.0930	ug/L			12/21/21 22:17	1
Ethylbenzene	0.543	J	1.00	0.198	ug/L			12/21/21 22:17	1
Toluene	3.75		1.00	0.312	ug/L			12/21/21 22:17	1
Xylenes, Total	2.51	J	3.00	0.442	ug/L			12/21/21 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		12/21/21 22:17	1
Dibromofluoromethane (Surr)	100		80 - 120		12/21/21 22:17	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		12/21/21 22:17	1
Toluene-d8 (Surr)	100		80 - 120		12/21/21 22:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2810		150	70.4	ug/L			12/21/21 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		68.7 - 141		12/21/21 22:17	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	3230		232	106	ug/L		12/29/21 12:10	12/29/21 20:19	1
RRO (C25-C36)	296	J	386	116	ug/L		12/29/21 12:10	12/29/21 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150	12/29/21 12:10	12/29/21 20:19	1
n-Triacontane-d62	71		50 - 150	12/29/21 12:10	12/29/21 20:19	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-313

Lab Sample ID: 590-16597-27

Date Collected: 12/16/21 14:20

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/21/21 22:39	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/21/21 22:39	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 22:39	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/21/21 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		12/21/21 22:39	1
Dibromofluoromethane (Surr)	105		80 - 120		12/21/21 22:39	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		12/21/21 22:39	1
Toluene-d8 (Surr)	101		80 - 120		12/21/21 22:39	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/21/21 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		68.7 - 141		12/21/21 22:39	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	359		251	115	ug/L		12/29/21 12:10	12/29/21 20:59	1
RRO (C25-C36)	185	J	419	126	ug/L		12/29/21 12:10	12/29/21 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		50 - 150	12/29/21 12:10	12/29/21 20:59	1
<i>n</i> -Triacontane-d62	77		50 - 150	12/29/21 12:10	12/29/21 20:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-213

Lab Sample ID: 590-16597-28

Date Collected: 12/16/21 14:10

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/21/21 23:00	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/21/21 23:00	1
Toluene	ND		1.00	0.312	ug/L			12/21/21 23:00	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/21/21 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		12/21/21 23:00	1
Dibromofluoromethane (Surr)	105		80 - 120		12/21/21 23:00	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		12/21/21 23:00	1
Toluene-d8 (Surr)	101		80 - 120		12/21/21 23:00	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/21/21 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141		12/21/21 23:00	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.0895	0.0119	ug/L		12/21/21 13:14	12/21/21 16:32	1
Benzo[a]pyrene	ND		0.0895	0.0119	ug/L		12/21/21 13:14	12/21/21 16:32	1
Benzo[b]fluoranthene	ND		0.0895	0.0249	ug/L		12/21/21 13:14	12/21/21 16:32	1
Benzo[k]fluoranthene	ND		0.0895	0.0149	ug/L		12/21/21 13:14	12/21/21 16:32	1
Chrysene	ND		0.0895	0.00995	ug/L		12/21/21 13:14	12/21/21 16:32	1
Dibenz(a,h)anthracene	ND		0.0895	0.0129	ug/L		12/21/21 13:14	12/21/21 16:32	1
Indeno[1,2,3-cd]pyrene	ND		0.0895	0.0219	ug/L		12/21/21 13:14	12/21/21 16:32	1
1-Methylnaphthalene	ND		0.0895	0.0229	ug/L		12/21/21 13:14	12/21/21 16:32	1
2-Methylnaphthalene	0.0558	J	0.0895	0.0438	ug/L		12/21/21 13:14	12/21/21 16:32	1
Naphthalene	ND		0.0895	0.0527	ug/L		12/21/21 13:14	12/21/21 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	69		36 - 120	12/21/21 13:14	12/21/21 16:32	1
p-Terphenyl-d14	82		51 - 121	12/21/21 13:14	12/21/21 16:32	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	158	J	240	110	ug/L		12/29/21 12:10	12/29/21 21:19	1
RRO (C25-C36)	199	J	400	120	ug/L		12/29/21 12:10	12/29/21 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150	12/29/21 12:10	12/29/21 21:19	1
n-Triacontane-d62	68		50 - 150	12/29/21 12:10	12/29/21 21:19	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-302

Lab Sample ID: 590-16597-29

Date Collected: 12/16/21 15:12

Matrix: Water

Date Received: 12/17/21 09:50

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.44		0.400	0.0930	ug/L			12/21/21 23:21	1
Ethylbenzene	21.1		1.00	0.198	ug/L			12/21/21 23:21	1
Toluene	0.755	J	1.00	0.312	ug/L			12/21/21 23:21	1
Xylenes, Total	3.74		3.00	0.442	ug/L			12/21/21 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		12/21/21 23:21	1
Dibromofluoromethane (Surr)	102		80 - 120		12/21/21 23:21	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		12/21/21 23:21	1
Toluene-d8 (Surr)	99		80 - 120		12/21/21 23:21	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1190		150	70.4	ug/L			12/21/21 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141		12/21/21 23:21	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	6390		226	104	ug/L		12/29/21 12:10	12/29/21 21:38	1
RRO (C25-C36)	622		377	113	ug/L		12/29/21 12:10	12/29/21 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	12/29/21 12:10	12/29/21 21:38	1
n-Triacontane-d62	74		50 - 150	12/29/21 12:10	12/29/21 21:38	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	104		5.00	1.28	mg/L			12/22/21 13:19	10

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	282	J	500	66.7	ug/L		12/30/21 17:06	01/04/22 03:03	5
Manganese	2740		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 03:03	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		150	60.0	ug/L			12/29/21 18:07	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-34453/6
Matrix: Water
Analysis Batch: 34453

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			12/17/21 13:17	1
Ethylbenzene	ND		1.00	0.198	ug/L			12/17/21 13:17	1
Toluene	ND		1.00	0.312	ug/L			12/17/21 13:17	1
Xylenes, Total	ND		3.00	0.442	ug/L			12/17/21 13:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		12/17/21 13:17	1
Dibromofluoromethane (Surr)	106		80 - 120		12/17/21 13:17	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		12/17/21 13:17	1
Toluene-d8 (Surr)	102		80 - 120		12/17/21 13:17	1

Lab Sample ID: LCS 590-34453/1003
Matrix: Water
Analysis Batch: 34453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.80		ug/L		108	80 - 126
Ethylbenzene	10.0	9.468		ug/L		95	80 - 128
m-Xylene & p-Xylene	10.0	9.044		ug/L		90	80 - 127
o-Xylene	10.0	8.737		ug/L		87	80 - 126
Toluene	10.0	10.00		ug/L		100	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 590-34453/4
Matrix: Water
Analysis Batch: 34453

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	10.93		ug/L		109	80 - 126	1	18
Ethylbenzene	10.0	9.374		ug/L		94	80 - 128	1	18
m-Xylene & p-Xylene	10.0	8.844		ug/L		88	80 - 127	2	18
o-Xylene	10.0	8.682		ug/L		87	80 - 126	1	17
Toluene	10.0	9.751		ug/L		98	80 - 129	3	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Toluene-d8 (Surr)	96		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-16597-1 DU
Matrix: Water
Analysis Batch: 34453

Client Sample ID: MW-307
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	42.6		41.84		ug/L		2	18
Ethylbenzene	92.1		89.99		ug/L		2	18
Toluene	4.93		4.874		ug/L		1	18
Xylenes, Total	40.2		39.43		ug/L		2	18

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 590-34472/10
Matrix: Water
Analysis Batch: 34472

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.400	0.0930	ug/L		12/20/21 15:57	1	
Ethylbenzene	ND		1.00	0.198	ug/L		12/20/21 15:57	1	
Toluene	ND		1.00	0.312	ug/L		12/20/21 15:57	1	
Xylenes, Total	ND		3.00	0.442	ug/L		12/20/21 15:57	1	

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		80 - 120		12/20/21 15:57	1
Dibromofluoromethane (Surr)	109		80 - 120		12/20/21 15:57	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		12/20/21 15:57	1
Toluene-d8 (Surr)	102		80 - 120		12/20/21 15:57	1

Lab Sample ID: LCS 590-34472/1007
Matrix: Water
Analysis Batch: 34472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	10.0	10.29		ug/L		103	80 - 128
m-Xylene & p-Xylene	10.0	9.885		ug/L		99	80 - 127
o-Xylene	10.0	9.541		ug/L		95	80 - 126
Toluene	10.0	10.39		ug/L		104	80 - 129

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	109		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Toluene-d8 (Surr)	97		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-34472/8
Matrix: Water
Analysis Batch: 34472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	10.72		ug/L		107	80 - 126	3	18
Ethylbenzene	10.0	9.600		ug/L		96	80 - 128	7	18
m-Xylene & p-Xylene	10.0	9.483		ug/L		95	80 - 127	4	18
o-Xylene	10.0	9.441		ug/L		94	80 - 126	1	17
Toluene	10.0	9.920		ug/L		99	80 - 129	5	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	107		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 590-16597-10 MS
Matrix: Water
Analysis Batch: 34472

Client Sample ID: SH-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	16.7		10.0	29.50	F1	ug/L		128	80 - 126
Ethylbenzene	1.50		10.0	11.73		ug/L		102	80 - 128
m-Xylene & p-Xylene	3.19		10.0	12.30		ug/L		91	80 - 127
o-Xylene	0.609	J	10.0	9.783		ug/L		92	80 - 126
Toluene	1.72		10.0	12.16		ug/L		104	80 - 129

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	109		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: 590-16597-10 MSD
Matrix: Water
Analysis Batch: 34472

Client Sample ID: SH-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	16.7		10.0	29.24		ug/L		126	80 - 126	1	18
Ethylbenzene	1.50		10.0	11.45		ug/L		100	80 - 128	2	18
m-Xylene & p-Xylene	3.19		10.0	12.47		ug/L		93	80 - 127	1	18
o-Xylene	0.609	J	10.0	9.504		ug/L		89	80 - 126	3	17
Toluene	1.72		10.0	11.79		ug/L		101	80 - 129	3	18

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
Toluene-d8 (Surr)	91		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-16597-9 DU
Matrix: Water
Analysis Batch: 34472

Client Sample ID: MW-112A
Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	2.35		2.437		ug/L		4	18
Ethylbenzene	0.665	J	0.6591	J	ug/L		0.8	18
Toluene	1.47		1.424		ug/L		3	18
Xylenes, Total	2.13	J	1.852	J	ug/L		14	18

Surrogate	DU		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: MB 590-34482/7
Matrix: Water
Analysis Batch: 34482

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.400	0.0930	ug/L		12/21/21 14:31	14:31	1
Ethylbenzene	ND		1.00	0.198	ug/L		12/21/21 14:31	14:31	1
Toluene	ND		1.00	0.312	ug/L		12/21/21 14:31	14:31	1
Xylenes, Total	ND		3.00	0.442	ug/L		12/21/21 14:31	14:31	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		80 - 120		12/21/21 14:31	1
Dibromofluoromethane (Surr)	110		80 - 120		12/21/21 14:31	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		12/21/21 14:31	1
Toluene-d8 (Surr)	102		80 - 120		12/21/21 14:31	1

Lab Sample ID: LCS 590-34482/1004
Matrix: Water
Analysis Batch: 34482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	10.0	9.582		ug/L		96	80 - 128
m-Xylene & p-Xylene	10.0	9.423		ug/L		94	80 - 127
o-Xylene	10.0	8.795		ug/L		88	80 - 126
Toluene	10.0	9.662		ug/L		97	80 - 129

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
Toluene-d8 (Surr)	95		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-34482/5
Matrix: Water
Analysis Batch: 34482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	10.46		ug/L		105	80 - 126	7	18
Ethylbenzene	10.0	9.550		ug/L		95	80 - 128	0	18
m-Xylene & p-Xylene	10.0	9.106		ug/L		91	80 - 127	3	18
o-Xylene	10.0	8.738		ug/L		87	80 - 126	1	17
Toluene	10.0	9.412		ug/L		94	80 - 129	3	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 590-16597-18 DU
Matrix: Water
Analysis Batch: 34482

Client Sample ID: MW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	0.342	J	0.3553	J	ug/L		4	18
Ethylbenzene	ND		ND		ug/L		NC	18
Toluene	ND		ND		ug/L		NC	18
Xylenes, Total	ND		ND		ug/L		NC	18

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	115		80 - 120
1,2-Dichloroethane-d4 (Surr)	113		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: 590-16597-24 DU
Matrix: Water
Analysis Batch: 34482

Client Sample ID: MW-311
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	0.347	J	0.3706	J	ug/L		7	18
Ethylbenzene	0.343	J	0.3221	J	ug/L		6	18
Toluene	0.923	J	0.9838	J	ug/L		6	18
Xylenes, Total	1.05	J	0.7173	J F5	ug/L		37	18

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-34454/6
Matrix: Water
Analysis Batch: 34454

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L	-		12/17/21 13:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		68.7 - 141					12/17/21 13:17	1

Lab Sample ID: LCS 590-34454/1005
Matrix: Water
Analysis Batch: 34454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	1000	1069		ug/L	-	107	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		68.7 - 141				

Lab Sample ID: LCSD 590-34454/1016
Matrix: Water
Analysis Batch: 34454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline	1000	1135		ug/L	-	113	80 - 120	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		68.7 - 141						

Lab Sample ID: 590-16597-1 DU
Matrix: Water
Analysis Batch: 34454

Client Sample ID: MW-307
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
TPH as Gasoline	2390		2532		ug/L	-	6	35
Surrogate	DU %Recovery	DU Qualifier	Limits					
4-Bromofluorobenzene (Surr)	99		68.7 - 141					

Lab Sample ID: MB 590-34471/10
Matrix: Water
Analysis Batch: 34471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L	-		12/20/21 15:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68.7 - 141					12/20/21 15:57	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-34471/1009
Matrix: Water
Analysis Batch: 34471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	1000	1186		ug/L		118	80 - 120
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	99		68.7 - 141				

Lab Sample ID: LCSD 590-34471/1020
Matrix: Water
Analysis Batch: 34471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline	1000	1234	*+	ug/L		123	80 - 120	4	20
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		68.7 - 141						

Lab Sample ID: MB 590-34483/7
Matrix: Water
Analysis Batch: 34483

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	70.4	ug/L			12/21/21 14:31	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	102		68.7 - 141		12/21/21 14:31	1			

Lab Sample ID: LCS 590-34483/1006
Matrix: Water
Analysis Batch: 34483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	1000	1131		ug/L		113	80 - 120
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	103		68.7 - 141				

Lab Sample ID: LCSD 590-34483/1018
Matrix: Water
Analysis Batch: 34483

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline	1000	1134		ug/L		113	80 - 120	0	20
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		68.7 - 141						

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: 590-16597-18 DU
Matrix: Water
Analysis Batch: 34483

Client Sample ID: MW-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
TPH as Gasoline	ND		ND		ug/L		NC	35
Surrogate	%Recovery	DU Qualifier	DU	Limits				
4-Bromofluorobenzene (Surr)	102			68.7 - 141				

Lab Sample ID: 590-16597-24 DU
Matrix: Water
Analysis Batch: 34483

Client Sample ID: MW-311
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
TPH as Gasoline	1630		1679		ug/L		3	35
Surrogate	%Recovery	DU Qualifier	DU	Limits				
4-Bromofluorobenzene (Surr)	98			68.7 - 141				

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-34493/1-A
Matrix: Water
Analysis Batch: 34479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.01545	J	0.0900	0.0120	ug/L		12/21/21 13:14	12/21/21 14:36	1
Benzo[a]pyrene	0.01509	J	0.0900	0.0120	ug/L		12/21/21 13:14	12/21/21 14:36	1
Benzo[b]fluoranthene	ND		0.0900	0.0250	ug/L		12/21/21 13:14	12/21/21 14:36	1
Benzo[k]fluoranthene	ND		0.0900	0.0150	ug/L		12/21/21 13:14	12/21/21 14:36	1
Chrysene	ND		0.0900	0.0100	ug/L		12/21/21 13:14	12/21/21 14:36	1
Dibenz(a,h)anthracene	ND		0.0900	0.0130	ug/L		12/21/21 13:14	12/21/21 14:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0900	0.0220	ug/L		12/21/21 13:14	12/21/21 14:36	1
1-Methylnaphthalene	ND		0.0900	0.0230	ug/L		12/21/21 13:14	12/21/21 14:36	1
2-Methylnaphthalene	ND		0.0900	0.0440	ug/L		12/21/21 13:14	12/21/21 14:36	1
Naphthalene	ND		0.0900	0.0530	ug/L		12/21/21 13:14	12/21/21 14:36	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		36 - 120				12/21/21 13:14	12/21/21 14:36	1
p-Terphenyl-d14	83		51 - 121				12/21/21 13:14	12/21/21 14:36	1

Lab Sample ID: LCS 590-34493/2-A
Matrix: Water
Analysis Batch: 34479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	1.60	1.351		ug/L		84	51 - 128
Benzo[a]pyrene	1.60	1.340		ug/L		84	54 - 120
Benzo[b]fluoranthene	1.60	1.327		ug/L		83	51 - 137
Benzo[k]fluoranthene	1.60	1.415		ug/L		88	58 - 120
Chrysene	1.60	1.426		ug/L		89	58 - 126
Dibenz(a,h)anthracene	1.60	1.366		ug/L		85	51 - 120

Eurofins Northwest, Spokane

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-34493/2-A
Matrix: Water
Analysis Batch: 34479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Indeno[1,2,3-cd]pyrene	1.60	1.336		ug/L		83	46 - 120
1-Methylnaphthalene	1.60	1.178		ug/L		74	49 - 120
2-Methylnaphthalene	1.60	1.211		ug/L		76	44 - 120
Naphthalene	1.60	1.209		ug/L		76	52 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		36 - 120
p-Terphenyl-d14	80		51 - 121

Lab Sample ID: LCSD 590-34493/3-A
Matrix: Water
Analysis Batch: 34479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34493

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzo[a]anthracene	1.60	1.376		ug/L		86	51 - 128	2	15
Benzo[a]pyrene	1.60	1.327		ug/L		83	54 - 120	1	15
Benzo[b]fluoranthene	1.60	1.309		ug/L		82	51 - 137	1	15
Benzo[k]fluoranthene	1.60	1.407		ug/L		88	58 - 120	1	15
Chrysene	1.60	1.416		ug/L		89	58 - 126	1	15
Dibenz(a,h)anthracene	1.60	1.329		ug/L		83	51 - 120	3	18
Indeno[1,2,3-cd]pyrene	1.60	1.345		ug/L		84	46 - 120	1	18
1-Methylnaphthalene	1.60	1.251		ug/L		78	49 - 120	6	15
2-Methylnaphthalene	1.60	1.298		ug/L		81	44 - 120	7	16
Naphthalene	1.60	1.276		ug/L		80	52 - 120	5	21

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	65		36 - 120
p-Terphenyl-d14	79		51 - 121

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-34563/1-A
Matrix: Water
Analysis Batch: 34562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		240	110	ug/L		12/28/21 15:44	12/28/21 16:33	1
RRO (C25-C36)	ND		400	120	ug/L		12/28/21 15:44	12/28/21 16:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150	12/28/21 15:44	12/28/21 16:33	1
n-Triacontane-d62	95		50 - 150	12/28/21 15:44	12/28/21 16:33	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 590-34563/2-A
Matrix: Water
Analysis Batch: 34562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	1600	1344		ug/L		84	50 - 150
RRO (C25-C36)	1600	1566		ug/L		98	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	90		50 - 150
<i>n</i> -Triacontane-d62	86		50 - 150

Lab Sample ID: LCSD 590-34563/3-A
Matrix: Water
Analysis Batch: 34562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34563

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C25)	1600	1290		ug/L		81	50 - 150	4	25
RRO (C25-C36)	1600	1506		ug/L		94	50 - 150	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	87		50 - 150
<i>n</i> -Triacontane-d62	86		50 - 150

Lab Sample ID: MB 590-34571/1-A
Matrix: Water
Analysis Batch: 34566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		240	110	ug/L		12/29/21 12:10	12/29/21 13:43	1
RRO (C25-C36)	ND		400	120	ug/L		12/29/21 12:10	12/29/21 13:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		50 - 150	12/29/21 12:10	12/29/21 13:43	1
<i>n</i> -Triacontane-d62	77		50 - 150	12/29/21 12:10	12/29/21 13:43	1

Lab Sample ID: LCS 590-34571/2-A
Matrix: Water
Analysis Batch: 34566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	1600	1282		ug/L		80	50 - 150
RRO (C25-C36)	1600	1542		ug/L		96	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	83		50 - 150
<i>n</i> -Triacontane-d62	77		50 - 150

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 590-34571/3-A
Matrix: Water
Analysis Batch: 34566

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34571

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
DRO (C10-C25)	1600	1320		ug/L		82	50 - 150	3	25	
RRO (C25-C36)	1600	1615		ug/L		101	50 - 150	5	25	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	87		50 - 150
<i>n</i> -Triacontane-d62	84		50 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 590-34505/1003
Matrix: Water
Analysis Batch: 34505

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	ND		0.500	0.128	mg/L			12/22/21 09:57	1

Lab Sample ID: LCS 590-34505/1004
Matrix: Water
Analysis Batch: 34505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							RPD	Limit
Sulfate	12.5	12.08		mg/L		97	90 - 110	

Lab Sample ID: 590-16617-A-1 MS
Matrix: Water
Analysis Batch: 34505

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									RPD	Limit
Sulfate	195		114	310.2		mg/L		101	80 - 120	

Lab Sample ID: 590-16617-A-1 MSD
Matrix: Water
Analysis Batch: 34505

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit		
Sulfate	195		114	310.9		mg/L		102	80 - 120	0	10	

Lab Sample ID: 590-16617-A-1 DU
Matrix: Water
Analysis Batch: 34505

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	%Rec. Limits	
								RPD	Limit
Sulfate	195		187.8		mg/L		4	15.7	

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-34543/2-A
Matrix: Water
Analysis Batch: 34575

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 34543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^1+	60.0	5.10	ug/L		12/28/21 08:59	12/29/21 14:42	1

Lab Sample ID: LCS 590-34543/1-A
Matrix: Water
Analysis Batch: 34575

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 34543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1000	1080	^1+	ug/L		108	80 - 120

Lab Sample ID: 590-16597-6 MS
Matrix: Water
Analysis Batch: 34575

Client Sample ID: MW-104
Prep Type: Total Recoverable
Prep Batch: 34543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND	^1+	1000	1073	^1+	ug/L		107	75 - 125

Lab Sample ID: 590-16597-6 MSD
Matrix: Water
Analysis Batch: 34575

Client Sample ID: MW-104
Prep Type: Total Recoverable
Prep Batch: 34543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND	^1+	1000	1069	^1+	ug/L		107	75 - 125	0	20

Lab Sample ID: 590-16597-6 DU
Matrix: Water
Analysis Batch: 34575

Client Sample ID: MW-104
Prep Type: Total Recoverable
Prep Batch: 34543

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND	^1+	ND	^1+	ug/L		NC	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-377006/12-B
Matrix: Water
Analysis Batch: 377419

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 377146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		500	66.7	ug/L		12/30/21 17:06	01/04/22 03:27	5
Manganese	ND		10.0	2.30	ug/L		12/30/21 17:06	01/04/22 03:27	5

Lab Sample ID: LCS 580-377006/13-B
Matrix: Water
Analysis Batch: 377419

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 377146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	20000	20680		ug/L		103	80 - 120
Manganese	1000	1064		ug/L		106	80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-377006/14-B
Matrix: Water
Analysis Batch: 377419

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 377146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Iron	20000	20470		ug/L		102	80 - 120	1	20	
Manganese	1000	1046		ug/L		105	80 - 120	2	20	

Lab Sample ID: 590-16597-2 MS
Matrix: Water
Analysis Batch: 377419

Client Sample ID: MW-308
Prep Type: Dissolved
Prep Batch: 377146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Iron	ND		20000	21360		ug/L		107	80 - 120			
Manganese	219		1000	1332		ug/L		111	80 - 120			

Lab Sample ID: 590-16597-2 MSD
Matrix: Water
Analysis Batch: 377419

Client Sample ID: MW-308
Prep Type: Dissolved
Prep Batch: 377146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Iron	ND		20000	20770		ug/L		104	80 - 120	3	20	
Manganese	219		1000	1304		ug/L		109	80 - 120	2	20	

Lab Sample ID: 590-16597-1 DU
Matrix: Water
Analysis Batch: 377419

Client Sample ID: MW-307
Prep Type: Dissolved
Prep Batch: 377146

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit	
								Limits	RPD
Iron	172	J	184.5	J	ug/L		7	20	
Manganese	764		769.8		ug/L		0.7	20	

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-377058/3
Matrix: Water
Analysis Batch: 377058

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: LCS 580-377058/4
Matrix: Water
Analysis Batch: 377058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
Nitrate Nitrite as N	500	514.2		ug/L		103	90 - 110	

Lab Sample ID: LCSD 580-377058/5
Matrix: Water
Analysis Batch: 377058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Nitrate Nitrite as N	500	513.9		ug/L		103	90 - 110	0	20	

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QC Sample Results

Client: GHD Services Inc.
 Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
 SDG: Triton West Consent Decree

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 590-16597-1 MS
Matrix: Water
Analysis Batch: 377058

Client Sample ID: MW-307
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	110	J F1 F2	500	93.90	J F1	ug/L		-3	90 - 110

Lab Sample ID: 590-16597-1 MSD
Matrix: Water
Analysis Batch: 377058

Client Sample ID: MW-307
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	110	J F1 F2	500	169.8	F1 F2	ug/L		12	90 - 110	58	20

Lab Sample ID: 580-108377-G-1 DU
Matrix: Water
Analysis Batch: 377058

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	115	J F1 F2	ND		ug/L		NC	20

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-307

Lab Sample ID: 590-16597-1

Date Collected: 12/14/21 12:20

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34453	12/17/21 18:42	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34454	12/17/21 18:42	JSP	TAL SPK
Total/NA	Prep	3510C			229.9 mL	2 mL	34563	12/28/21 15:44	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34562	12/28/21 17:36	NMI	TAL SPK
Total/NA	Analysis	300.0		10			34505	12/22/21 11:13	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 03:31	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Client Sample ID: MW-308

Lab Sample ID: 590-16597-2

Date Collected: 12/14/21 13:10

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34453	12/17/21 19:24	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34454	12/17/21 19:24	JSP	TAL SPK
Total/NA	Analysis	300.0		4			34505	12/22/21 11:25	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 03:38	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Client Sample ID: TES-MW-1

Lab Sample ID: 590-16597-3

Date Collected: 12/14/21 13:50

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34453	12/17/21 19:45	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34454	12/17/21 19:45	JSP	TAL SPK
Total/NA	Prep	3510C			252.7 mL	2 mL	34563	12/28/21 15:44	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34562	12/28/21 17:57	NMI	TAL SPK

Client Sample ID: MW-101

Lab Sample ID: 590-16597-4

Date Collected: 12/14/21 14:30

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34453	12/17/21 20:48	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34454	12/17/21 20:48	JSP	TAL SPK
Total/NA	Prep	3510C			244.6 mL	2 mL	34563	12/28/21 15:44	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34562	12/28/21 18:17	NMI	TAL SPK

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-05
Date Collected: 12/15/21 08:40
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34453	12/17/21 21:29	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34454	12/17/21 21:29	JSP	TAL SPK
Total/NA	Prep	3510C			236 mL	2 mL	34563	12/28/21 15:44	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34562	12/28/21 18:38	NMI	TAL SPK

Client Sample ID: MW-104
Date Collected: 12/15/21 09:10
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34454	12/17/21 21:50	JSP	TAL SPK
Total/NA	Prep	3510C			240.8 mL	2 mL	34563	12/28/21 15:44	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34562	12/28/21 18:59	NMI	TAL SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	34543	12/28/21 09:03	AMB	TAL SPK
Total Recoverable	Analysis	6010D		1			34575	12/29/21 14:53	AMB	TAL SPK

Client Sample ID: MW-105
Date Collected: 12/15/21 09:40
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34453	12/17/21 22:11	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34454	12/17/21 22:11	JSP	TAL SPK
Total/NA	Prep	3510C			237.8 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 14:43	NMI	TAL SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	34543	12/28/21 09:03	AMB	TAL SPK
Total Recoverable	Analysis	6010D		1			34589	12/30/21 13:04	AMB	TAL SPK

Client Sample ID: MW-111
Date Collected: 12/15/21 10:20
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34453	12/17/21 22:32	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34454	12/17/21 22:32	JSP	TAL SPK
Total/NA	Prep	3510C			246.5 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 15:04	NMI	TAL SPK

Client Sample ID: MW-112A
Date Collected: 12/15/21 11:00
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34472	12/20/21 16:59	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 14:52	JSP	TAL SPK

Eurofins Northwest, Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-112A

Lab Sample ID: 590-16597-9

Date Collected: 12/15/21 11:00

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			253 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 15:24	NMI	TAL SPK

Client Sample ID: SH-04

Lab Sample ID: 590-16597-10

Date Collected: 12/15/21 11:40

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34472	12/20/21 17:40	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 15:13	JSP	TAL SPK
Total/NA	Prep	3510C			241.7 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 15:44	NMI	TAL SPK

Client Sample ID: TX-06A

Lab Sample ID: 590-16597-11

Date Collected: 12/15/21 13:00

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34472	12/20/21 18:42	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34471	12/20/21 18:42	JSP	TAL SPK
Total/NA	Prep	3510C			241.7 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 16:04	NMI	TAL SPK

Client Sample ID: TX-04

Lab Sample ID: 590-16597-12

Date Collected: 12/15/21 13:30

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34472	12/20/21 19:02	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34471	12/20/21 19:02	JSP	TAL SPK
Total/NA	Prep	3510C			243.4 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 16:24	NMI	TAL SPK

Client Sample ID: MW-303

Lab Sample ID: 590-16597-13

Date Collected: 12/15/21 14:00

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 15:35	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 15:35	JSP	TAL SPK
Total/NA	Prep	3510C			240.9 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 16:44	NMI	TAL SPK

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-309

Lab Sample ID: 590-16597-14

Date Collected: 12/15/21 14:30

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 15:56	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 15:56	JSP	TAL SPK
Total/NA	Prep	3510C			237.1 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 17:21	NMI	TAL SPK

Client Sample ID: MW-102

Lab Sample ID: 590-16597-15

Date Collected: 12/16/21 09:00

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 16:17	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 16:17	JSP	TAL SPK
Total/NA	Prep	3510C			249.6 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 17:41	NMI	TAL SPK

Client Sample ID: MW-206A

Lab Sample ID: 590-16597-16

Date Collected: 12/16/21 09:30

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 16:38	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 16:38	JSP	TAL SPK
Total/NA	Prep	3510C			242.4 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 18:01	NMI	TAL SPK

Client Sample ID: MW-203

Lab Sample ID: 590-16597-17

Date Collected: 12/16/21 10:00

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 17:00	JSP	TAL SPK
Total/NA	Prep	3510C			245.7 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 18:21	NMI	TAL SPK
Total/NA	Analysis	300.0		1			34505	12/22/21 11:38	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 02:40	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Client Sample ID: MW-204

Lab Sample ID: 590-16597-18

Date Collected: 12/16/21 10:50

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 17:21	JSP	TAL SPK

Eurofins Northwest, Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-204
Date Collected: 12/16/21 10:50
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 17:21	JSP	TAL SPK
Total/NA	Prep	3510C			242.1 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 18:40	NMI	TAL SPK

Client Sample ID: MW-202
Date Collected: 12/16/21 11:40
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 18:25	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 18:25	JSP	TAL SPK
Total/NA	Prep	3510C			230.4 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 19:00	NMI	TAL SPK
Total/NA	Analysis	300.0		10			34505	12/22/21 11:51	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 02:44	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Client Sample ID: MW-214
Date Collected: 12/16/21 13:20
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 18:46	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 18:46	JSP	TAL SPK
Total/NA	Prep	3510C			248.6 mL	2 mL	34493	12/21/21 13:14	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			34479	12/21/21 16:08	NMI	TAL SPK
Total/NA	Prep	3510C			238.1 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 19:20	NMI	TAL SPK

Client Sample ID: MW-301
Date Collected: 12/16/21 09:25
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 19:49	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 19:49	JSP	TAL SPK

Client Sample ID: MW-304
Date Collected: 12/16/21 10:07
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 20:10	JSP	TAL SPK

Eurofins Northwest, Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-304
Date Collected: 12/16/21 10:07
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 20:10	JSP	TAL SPK
Total/NA	Prep	3510C			245.1 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 19:40	NMI	TAL SPK
Total/NA	Analysis	300.0		10			34505	12/22/21 12:03	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 02:48	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Client Sample ID: MW-310
Date Collected: 12/16/21 11:03
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 20:32	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 20:32	JSP	TAL SPK
Total/NA	Prep	3510C			253.9 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 20:00	NMI	TAL SPK
Total/NA	Analysis	300.0		10			34505	12/22/21 12:16	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 02:51	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Client Sample ID: MW-311
Date Collected: 12/16/21 12:04
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 20:53	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 20:53	JSP	TAL SPK
Total/NA	Analysis	300.0		1			34505	12/22/21 12:54	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 02:55	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Client Sample ID: MW-312
Date Collected: 12/16/21 12:40
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 21:35	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 21:35	JSP	TAL SPK

Eurofins Northwest, Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Client Sample ID: MW-312
Date Collected: 12/16/21 12:40
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			34505	12/22/21 13:07	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 02:59	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Client Sample ID: MW-315
Date Collected: 12/16/21 13:26
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 22:17	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 22:17	JSP	TAL SPK
Total/NA	Prep	3510C			259.1 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 20:19	NMI	TAL SPK

Client Sample ID: MW-313
Date Collected: 12/16/21 14:20
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 22:39	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 22:39	JSP	TAL SPK
Total/NA	Prep	3510C			238.7 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 20:59	NMI	TAL SPK

Client Sample ID: MW-213
Date Collected: 12/16/21 14:10
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 23:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 23:00	JSP	TAL SPK
Total/NA	Prep	3510C			251.3 mL	2 mL	34493	12/21/21 13:14	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			34479	12/21/21 16:32	NMI	TAL SPK
Total/NA	Prep	3510C			250.3 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 21:19	NMI	TAL SPK

Client Sample ID: MW-302
Date Collected: 12/16/21 15:12
Date Received: 12/17/21 09:50

Lab Sample ID: 590-16597-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	34482	12/21/21 23:21	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	34483	12/21/21 23:21	JSP	TAL SPK

Eurofins Northwest, Spokane

Lab Chronicle

Client: GHD Services Inc.
 Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
 SDG: Triton West Consent Decree

Client Sample ID: MW-302

Lab Sample ID: 590-16597-29

Date Collected: 12/16/21 15:12

Matrix: Water

Date Received: 12/17/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			265.3 mL	2 mL	34571	12/29/21 12:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			34566	12/29/21 21:38	NMI	TAL SPK
Total/NA	Analysis	300.0		10			34505	12/22/21 13:19	AMB	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	377006	12/29/21 11:49	TMH	FGS SEA
Dissolved	Prep	3005A			50 mL	50 mL	377146	12/30/21 17:06	JLS	FGS SEA
Dissolved	Analysis	6020B		5	50 mL	50 mL	377419	01/04/22 03:03	FCW	FGS SEA
Total/NA	Analysis	353.2		1	50 mL	50 mL	377058	12/29/21 18:07	R1K	FGS SEA

Laboratory References:

FGS SEA = Eurofins Northwest, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins Northwest, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Laboratory: Eurofins Northwest, Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4137	12-08-22
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
NWTPH-Dx	3510C	Water	RRO (C25-C36)

Laboratory: Eurofins Northwest, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-22
Washington	State	C788	07-13-22

Method Summary

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue SW, Seattle WA

Job ID: 590-16597-1
SDG: Triton West Consent Decree

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
300.0	Anions, Ion Chromatography	MCAWW	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
6020B	Metals (ICP/MS)	SW846	FGS SEA
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	FGS SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	FGS SEA
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SPK
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SPK
5030C	Purge and Trap	SW846	TAL SPK
FILTRATION	Sample Filtration	None	FGS SEA

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

FGS SEA = Eurofins Northwest, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins Northwest, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

LAB (LOCATION)

- ACCUTEST ()
- CALSCIENCE ()
- TESTAMERICA ()
- Other ()



Shell Oil Products US Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> SGW FDG	<input type="checkbox"/> PIPELINE	<input type="checkbox"/> RETAIL
<input type="checkbox"/> CHEMICALS	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> TRANSPORTATION	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name:	PlaNNet Site or Project ID	<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES
PO #	GSAP Project ID	DATE: 12/14/21
		PAGE: 1 of 3

SAMPLING COMPANY:
Blaine Tech Services, Inc

LOG CODE:
BTSS

ADDRESS:
1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to):
Jacquelyn England

TELEPHONE: (707)523-1010 **FAK:** _____ **Bill To Contact E-MAIL:** jacquelyn_england@ghd.com

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____

TEMPERATURE ON RECEIPT C°: Cooler #1: _____ Cooler #2: _____ Cooler #3: _____

SPECIAL INSTRUCTIONS OR NOTES:

- SHELL CONTRACT RATE APPLIES
- STATE REIMBURSEMENT RATE APPLIES
- EDD NOT NEEDED
- RECEIPT VERIFICATION REQUESTED
- PROVIDE LEDD DISK

SITE ADDRESS: Street and City:
2555 13th Avenue

State: WA

GHD Project / Task Number: 11218519

EDF DELIVERABLE TO (Name, Company, Office Location): Jacquelyn England, GHD, Santa Rosa

PHONE NO: (707)523-1010

E-MAIL: jacquelyn_england@ghd.com

ACCOM Other ID: _____

SAMPLER NAME(S) (Print): Alex Kova

LAB USE ONLY

REQUESTED ANALYSIS												FIELD NOTES:
UNIT COST						NON-UNIT COST						
8290C BTEX	NWTPH-DI	8270D SIM PAHs	300.0 Sulfate			NWTPH-GI	8020A Total Lead	353.2 Nitrate & Nitrite	8020A Dis. Iron & Manganese (lab filter)	300.0 Chloride	2320B Alkalinity	TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS													
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		8290C BTEX	NWTPH-DI	8270D SIM PAHs	300.0 Sulfate	NWTPH-GI	8020A Total Lead	353.2 Nitrate & Nitrite	8020A Dis. Iron & Manganese (lab filter)	300.0 Chloride	2320B Alkalinity				
	Mw-307	12/14/21	1220	GW	X	X	X			9	X	X	X			X	X	X						
	Mw-308		1310		X	X	X			7	X		X			X	X	X						
	TES-Mw-1		1350		X					6	X	X				X								
	Mw-101		1430		X					6	X	X				X								
	Mw-05	12/15/21	0940		X					6	X	X				X								
	Mw-104		0910		X	X				7		X				X	X							
	Mw-105		0940		X	X				7	X	X				X	X							
	Mw-111		1020		X					6	X	X				X								
	Mw-112A		1100		X					6	X	X				X								
	SH-04		1140		X					6	X	X				X								



Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature): Shipped via UPS	Date: 12/16/21	Time: 1600
Relinquished by (Signature):	Received by (Signature): <i>[Signature]</i>	Date: 12/17/21	Time: 9:50
Relinquished by (Signature):	Received by (Signature):	Date:	Time:

1.1°C
4.3°C

3.4°C
2.1°C

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-16597-1

SDG Number: Triton West Consent Decree

Login Number: 16597

List Number: 1

Creator: Vaughan, Madison 1

List Source: Eurofins Northwest, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-16597-1

SDG Number: Triton West Consent Decree

Login Number: 16597

List Number: 2

Creator: Presley, Kim A

List Source: Eurofins Northwest, Seattle

List Creation: 12/18/21 01:31 PM

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR8=1.1c/0.9c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-16597-1

SDG Number: Triton West Consent Decree

Login Number: 16597

List Number: 3

Creator: Hua, Tammy M

List Source: Eurofins Northwest, Seattle

List Creation: 12/29/21 12:40 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	False	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C

Data Validation



Memorandum

May 7, 2021

To: Jacquelyn England Ref. No.: 11218519

From: Jeffrey Cloud/eew/3-NF Tel: 206-914-3141

CC: Heather Gadwa

**Subject: Analytical Results and Reduced Validation of Report J14948
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
April 2021**

1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during April 2021. Samples were submitted to Eurofins TestAmerica, located in Spokane, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540 R 2016 002, September 2016.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).



3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria with a few exceptions. Where high recoveries were found the associated sample results were qualified as estimated due to the implied high bias. Where low recoveries were found the associated sample results were qualified as estimated due to the implied low bias. A summary of the qualifications is presented in Table 4.

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS/LCSD contained all analytes of interest. All LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision.

6. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.



To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest with the exception of toluene. The associated sample results with concentrations similar to the blank were qualified as estimated due to the implied high bias (see Table 5).

7. Analyte Reporting

The laboratory did not report any detected concentrations below the laboratory's reporting limit (RL). Non-detect results were presented as non-detect at the RL in Table 3.

Several sample results were reported outside of the upper end of the instrument calibration range and were qualified as estimated (see Table 6).

Several sample results were potentially impacted by suspected instrumental carryover and qualified as estimated due to the implied high bias (see Table 7).

If multiple QC results exhibit variability and/or high/low directional biases as related to a sample result, then any directional bias indicators are removed from the final sample result qualification.

8. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Harbor Island Triton West
Seattle, Washington
April 2021

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					DRO/ORO	GRO	VOCs	
MW-301	MW-301	Water	04/13/2021	08:29		X	X	
MW-302	MW-302	Water	04/13/2021	12:33		X	X	
MW-303	MW-303	Water	04/13/2021	08:57		X	X	
MW-304	MW-304	Water	04/13/2021	07:46		X	X	
MW-307	MW-307	Water	04/12/2021	12:43		X	X	
MW-308	MW-308	Water	04/12/2021	12:12		X	X	
MW-310	MW-310	Water	04/12/2021	13:34		X	X	
MW-311	MW-311	Water	04/13/2021	10:13		X	X	
MW-312	MW-312	Water	04/13/2021	10:46		X	X	
MW-313	MW-313	Water	04/13/2021	11:13	X	X	X	
MW-314	MW-314	Water	04/13/2021	09:33	X	X	X	
MW-315	MW-315	Water	04/13/2021	11:50	X	X	X	
TX-03A	TX-03A	Water	04/12/2021	14:12		X	X	
TB-01	--	Water	04/12/2021	--			X	Trip Blank

Notes:

- VOCs - Volatile Organic Compounds
GRO - Gasoline Range Organics
DRO/ORO - Diesel Range Organics/Motor Oil Range Organics
"--" - Not Applicable

Table 2

Analytical Methods
Quarterly Groundwater Sampling
Shell International Petroleum - Harbor Island Triton West
Seattle, Washington
April 2021

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260D ⁽¹⁾	Water
Gasoline Range Organics (GRO)	NWTPH-Gx ⁽²⁾	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx ⁽²⁾	Water

Notes:

- (1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- (2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997

**Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Harbor Island Triton West
Seattle, Washington
April 2021**

Location ID:	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-310
Sample Name:	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-310
Sample Date:	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/12/2021	04/12/2021	04/12/2021

Parameters	Unit							
Volatile Organic Compounds								
Benzene	µg/L	23.8	6.16 J-	13.5 J-	1.94	133 J	36.5 J+	22.1 J-
Ethylbenzene	µg/L	7.67	17.8 J-	37.1 J-	1.07 J+	93.0 J	0.515 J+	2.69 J-
Toluene	µg/L	1.05	0.526 J	1.70 J-	0.200 U	22.8 J-	0.521 J+	0.414 J
Xylenes (total)	µg/L	0.879	4.19 J-	10.4 J-	0.500 U	95.0 J	0.500 U	0.570 J-
Total Petroleum Hydrocarbons								
Gasoline	µg/L	1690	1850	4070	307	4060 J+	267	1610
Motor oil	µg/L	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	--	--	--	--

Table 3

**Analytical Results Summary
 Quarterly Groundwater Sampling
 Shell International Petroleum - Harbor Island Triton West
 Seattle, Washington
 April 2021**

Location ID:	MW-311	MW-312	MW-313	MW-314	MW-315	TX-03A
Sample Name:	MW-311	MW-312	MW-313	MW-314	MW-315	TX-03A
Sample Date:	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/13/2021	04/12/2021

Parameters

Unit

Volatile Organic Compounds

Benzene	µg/L	0.200 U	121	0.200 U	0.200 U	66.6 J	66.5 J
Ethylbenzene	µg/L	0.247	4.53	0.200 U	0.200 U	1.41	9.55
Toluene	µg/L	1.02	2.44	0.200 U	0.391 J+	4.93	1.51
Xylenes (total)	µg/L	0.500 U	2.19	0.500 U	0.500 U	2.56	0.500 U

Total Petroleum Hydrocarbons

Gasoline	µg/L	1320	--	250 U	363	2900 J+	465
Motor oil	µg/L	--	--	350 U	745	691	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	272	2750	5040	--

Notes:

- U - Not detected at the associated reporting limit
- DRO - Diesel Range Organics
- J - Estimated concentration
- J+ - Estimated concentration; implied high bias
- J- - Estimated concentration; implied low bias
- "--" - Not analyzed

Table 4

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Quarterly Groundwater Sampling
Shell International Petroleum - Harbor Island Triton West
Seattle, Washington
April 2021

Parameter	Sample ID	Surrogate	Surrogate	Control Limits	Analyte	Qualified	Units	
			% Recovery	% Recovery		Result		
VOCs	MW-302	1,2-Dichloroethane-d4	71	80-120	Benzene	6.16 J-	µg/L	
		Dibromofluoromethane	79	80-120	Ethylbenzene	17.8 J-	µg/L	
					Toluene	0.526 J	µg/L	
					Xylenes (total)	4.19 J-	µg/L	
	MW-303	1,2-Dichloroethane-d4		76	80-120	Benzene	13.5 J-	µg/L
						Ethylbenzene	37.1 J-	µg/L
						Toluene	1.70 J-	µg/L
						Xylenes (total)	10.4 J-	µg/L
	MW-307	1,2-Dichloroethane-d4		69	80-120	Benzene	133 J	µg/L
						Ethylbenzene	93.0 J	µg/L
						Toluene	22.8 J-	µg/L
						Xylenes (total)	95.0 J	µg/L
MW-310	1,2-Dichloroethane-d4		78	80-120	Benzene	22.1 J-	µg/L	
					Ethylbenzene	2.69 J-	µg/L	
					Toluene	0.414 J	µg/L	
					Xylenes (total)	0.570 J-	µg/L	
TPH	MW-315	p-Bromofluorobenzene	186	50-150	Gasoline	2900 J+	µg/L	
	MW-307	p-Bromofluorobenzene	157	50-150	Gasoline	4060 J+	µg/L	

Notes:

- J - Estimated concentration
- J+ - Estimated concentration; implied high bias
- J- - Estimated concentration; implied low bias
- VOCs - Volatile Organic Compounds
- TPH - Total Petroleum Hydrocarbons

Table 5

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Quarterly Groundwater Sampling
Shell International Petroleum - Harbor Island Triton West
Seattle, Washington
April 2021

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result *	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	04/12/2021	Toluene	0.271	MW-314	0.391	0.391 J+	µg/L
				MW-302	0.526	0.526 J	µg/L
				MW-308	0.521	0.521 J+	µg/L
				MW-310	0.414	0.414 J	µg/L

Notes:

- * - Blank result adjusted for sample factors where applicable
- J - Estimated concentration
- J+ - Estimated concentration; implied high bias
- VOCs - Volatile Organic Compounds

Table 6

**Qualified Sample Data Due to Exceedance of Calibration Range
Quarterly Groundwater Sampling
Shell International Petroleum - Harbor Island Triton West
Seattle, Washington
April 2021**

Parameter	Sample ID	Analyte	Qualified Result	Units
VOCs	MW-315	Benzene	66.6 J	µg/L
	TX-03A	Benzene	66.5 J	µg/L
	MW-307	Benzene	133 J	µg/L
		Ethylbenzene	93.0 J	µg/L
		Xylenes (total)	95.0 J	µg/L

Notes:

J - Estimated concentration

VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Data Due to Suspected Instrumental Carryover
Quarterly Groundwater Sampling
Shell International Petroleum - Harbor Island Triton West
Seattle, Washington
April 2021

Parameter	Sample ID	Analyte	Qualified Result	Units
VOCs	MW-308	Benzene	36.5 J+	µg/L
		Ethylbenzene	0.515 J+	µg/L
	MW-304	Ethylbenzene	1.07 J+	µg/L

Notes:

- J+ - Estimated concentration; implied high bias
VOCs - Volatile Organic Compounds

Technical Memorandum

July 09, 2021

To	Jacquelyn England	Tel	1 206 914 3141
Copy to	Jeff Gaarder	Email	Jeffrey.Cloud@ghd.com
From	Jeffrey Cloud/eew/4-NF	Ref. No.	11218519
Subject	Analytical Results and Reduced Validation of Report J15331 Quarterly Groundwater Sampling Shell International Petroleum – Triton West Consent Decree Seattle, Washington June 2021		

1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during June 2021. Samples were submitted to Eurofins TestAmerica, located in Spokane, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, laboratory duplicate data, recovery data from surrogate spikes, laboratory control samples and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the documents entitled:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540 R 2016 002, September 2016
2. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540 R 2016 001, September 2016

These items will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices. Due to necessary sample dilutions, surrogate recoveries were not assessed for some samples.

All samples submitted for volatile organic compound (VOC), semivolatile organic compound (SVOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

5.1 Organic Analyses

The LCS and LCS/LCSD contained all analytes of interest. All LCS and LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision (where applicable).

5.2 Inorganic Analyses

The LCS contained the analyte of interest. LCS recovery was assessed per the "Guidelines". The LCS recovery was within the control limits, demonstrating acceptable analytical accuracy.

6. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

7. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

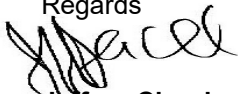
8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the reporting limit (RL) but greater than the MDL were reported as estimated (J) in Table 3. Non-detect results were presented as non-detect at the RL in Table 3.

9. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable without qualification.

Regards



Jeffrey Cloud

Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
June 2021

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>					Comments
					DRO/ORO	GRO	Lead	VOCs	SVOCs	
MW-05	MW-05	Water	06/15/2021	08:51	X	X		X		
MW-104	MW-104	Water	06/15/2021	08:25	X	X	X			
MW-111	MW-111	Water	06/15/2021	07:52	X	X		X		
MW-112A	MW-112A	Water	06/15/2021	09:49	X	X		X		
MW-202	MW-202	Water	06/14/2021	14:06	X	X				DUP
MW-203	MW-203	Water	06/15/2021	10:29	X	X				
MW-213	MW-213	Water	06/14/2021	12:33	X	X		X	X	
MW-214	MW-214	Water	06/14/2021	13:10	X	X		X	X	
MW-301	MW-301	Water	06/15/2021	11:39		X		X		
MW-302	MW-302	Water	06/15/2021	13:03		X		X		
MW-303	MW-303	Water	06/15/2021	12:09		X		X		
MW-304	MW-304	Water	06/15/2021	12:39		X		X		
MW-307	MW-307	Water	06/14/2021	11:33	X	X		X		
MW-308	MW-308	Water	06/14/2021	11:02		X		X		
MW-309	MW-309	Water	06/15/2021	11:12		X		X		
MW-310	MW-310	Water	06/15/2021	13:31		X		X		DUP
MW-312	MW-312	Water	06/16/2021	08:53		X		X		
MW-313	MW-313	Water	06/16/2021	08:15	X	X		X		
MW-315	MW-315	Water	06/16/2021	09:25	X	X		X		
SH-04	SH-04	Water	06/15/2021	09:20	X	X		X		
TB01	--	Water	06/14/2021	--				X		TRIP BLANK
TX-03A	TX-03A	Water	06/16/2021	10:01		X		X		

Notes:

- DUP - Laboratory Duplicate
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
GRO - Gasoline Range Organics
DRO/ORO - Diesel Range Organics/Motor Oil Range Organics
"--" - Not Applicable

Table 2

Analytical Methods
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
June 2021

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260D ⁽¹⁾	Water
Semivolatile Organic Compounds (SVOCs)	SW-846 8270E SIM ⁽¹⁾	Water
Gasoline Range Organics (GRO)	NWTPH-Gx ⁽²⁾	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx ⁽²⁾	Water
Lead	SW-846 6010D ⁽¹⁾	Water

Notes:

- (1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- (2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
June 2021

	Location ID:	MW-05	MW-104	MW-111	MW-112A	MW-202	MW-203	MW-213
	Sample Name:	MW-05	MW-104	MW-111	MW-112A	MW-202	MW-203	MW-213
	Sample Date:	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/14/2021	06/15/2021	06/14/2021
Parameters	Unit							
Volatile Organic Compounds								
Benzene	µg/L	0.400 U	--	0.251 J	2.07	--	--	0.400 U
Ethylbenzene	µg/L	1.00 U	--	1.00 U	7.02	--	--	1.00 U
Toluene	µg/L	1.00 U	--	0.593 J	0.659 J	--	--	1.00 U
Xylenes (total)	µg/L	3.00 U	--	1.00 J	1.89 J	--	--	3.00 U
Semi-volatile Organic Compounds, SIM								
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	0.101 U
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	0.0402 J
Acenaphthene	µg/L	--	--	--	--	--	--	0.101 U
Acenaphthylene	µg/L	--	--	--	--	--	--	0.0506 U
Anthracene	µg/L	--	--	--	--	--	--	0.101 U
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	0.0506 U
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	0.101 U
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	0.0506 U
Benzo(g,h,i)perylene	µg/L	--	--	--	--	--	--	0.0506 U
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	0.0506 U
Chrysene	µg/L	--	--	--	--	--	--	0.101 U
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	0.101 U
Fluoranthene	µg/L	--	--	--	--	--	--	0.203 U
Fluorene	µg/L	--	--	--	--	--	--	0.101 U
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	0.0506 U
Naphthalene	µg/L	--	--	--	--	--	--	0.0524 J
Phenanthrene	µg/L	--	--	--	--	--	--	0.101 U
Pyrene	µg/L	--	--	--	--	--	--	0.101 U

Table 3
Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
June 2021

	Location ID:	MW-05	MW-104	MW-111	MW-112A	MW-202	MW-203	MW-213
	Sample Name:	MW-05	MW-104	MW-111	MW-112A	MW-202	MW-203	MW-213
	Sample Date:	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/14/2021	06/15/2021	06/14/2021
Parameters	Unit							
Metals								
Lead	µg/L	--	60.0 U	--	--	--	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)								
Gasoline	µg/L	150 U	948	120 J	976	1320	150 U	150 U
Motor oil	µg/L	401 U	395 U	389 U	161 J	327 J	267 J	392 U
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	240 U	753	233 U	2580	4520	246 U	235 U

Table 3
Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
June 2021

	Location ID:	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
	Sample Name:	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
	Sample Date:	06/14/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/14/2021	06/14/2021
Parameters	Unit							
Volatile Organic Compounds								
Benzene	µg/L	0.400 U	16.8	20.3	25.8	26.3	230	57.2
Ethylbenzene	µg/L	1.00 U	8.22	61.4	133	0.697 J	282	0.975 J
Toluene	µg/L	1.00 U	1.03	1.93	3.43	1.00 U	18.0	1.39
Xylenes (total)	µg/L	3.00 U	1.01 J	10.1	8.67	3.00 U	88.5	1.55 J
Semi-volatile Organic Compounds, SIM								
1-Methylnaphthalene	µg/L	0.0999 U	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	0.200 U	--	--	--	--	--	--
Acenaphthene	µg/L	0.0999 U	--	--	--	--	--	--
Acenaphthylene	µg/L	0.0499 U	--	--	--	--	--	--
Anthracene	µg/L	0.0999 U	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	0.0499 U	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	0.0999 U	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	0.0499 U	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	0.0499 U	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	0.0499 U	--	--	--	--	--	--
Chrysene	µg/L	0.0999 U	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.0999 U	--	--	--	--	--	--
Fluoranthene	µg/L	0.200 U	--	--	--	--	--	--
Fluorene	µg/L	0.0999 U	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.0499 U	--	--	--	--	--	--
Naphthalene	µg/L	0.0999 U	--	--	--	--	--	--
Phenanthrene	µg/L	0.0999 U	--	--	--	--	--	--
Pyrene	µg/L	0.0999 U	--	--	--	--	--	--

Table 3
Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
June 2021

	Location ID:	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
	Sample Name:	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
	Sample Date:	06/14/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/14/2021	06/14/2021
Parameters	Unit							
Metals								
Lead	µg/L	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)								
Gasoline	µg/L	150 U	439	886	1940	230	2020	793
Motor oil	µg/L	395 U	--	--	--	--	422	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	122 J	--	--	--	--	6680	--

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
June 2021

	Location ID:	MW-309	MW-310	MW-312	MW-313	MW-315	SH-04	TX-03A
	Sample Name:	MW-309	MW-310	MW-312	MW-313	MW-315	SH-04	TX-03A
	Sample Date:	06/15/2021	06/15/2021	06/16/2021	06/16/2021	06/16/2021	06/15/2021	06/16/2021
Parameters	Unit							
Volatile Organic Compounds								
Benzene	µg/L	0.400 U	28.9	47.2	0.400 U	57.8	5.25	41.6
Ethylbenzene	µg/L	1.00 U	3.59	2.50	1.00 U	1.82	2.94	19.2
Toluene	µg/L	1.00 U	0.421 J	2.14	1.00 U	4.11	0.511 J	1.51
Xylenes (total)	µg/L	3.00 U	1.17 J	1.99 J	3.00 U	2.89 J	1.62 J	0.832 J
Semi-volatile Organic Compounds, SIM								
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--
Acenaphthene	µg/L	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--	--	--	--
Anthracene	µg/L	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--
Fluoranthene	µg/L	--	--	--	--	--	--	--
Fluorene	µg/L	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--
Phenanthrene	µg/L	--	--	--	--	--	--	--
Pyrene	µg/L	--	--	--	--	--	--	--

Table 3
Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
June 2021

	Location ID:	MW-309	MW-310	MW-312	MW-313	MW-315	SH-04	TX-03A
	Sample Name:	MW-309	MW-310	MW-312	MW-313	MW-315	SH-04	TX-03A
	Sample Date:	06/15/2021	06/15/2021	06/16/2021	06/16/2021	06/16/2021	06/15/2021	06/16/2021
Parameters	Unit							
Metals								
Lead	µg/L	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)								
Gasoline	µg/L	150	554	1570	150 U	1660	472	285
Motor oil	µg/L	--	--	--	401 U	218 J	404 U	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	156 J	3320	209 J	--

Notes:
 "--" - Not analyzed
 DRO - Diesel Range Organics
 J - Estimated concentration
 SIM - Selective Ion Monitoring
 U - Not detected at the associated reporting limit

Technical Memorandum

October 20, 2021

To	Jacquelyn England	Tel	1 206 914 3141
Copy to	Jeff Gaarder	Email	Jeffrey.Cloud@ghd.com
From	Jeffrey Cloud/eew/5-NF	Ref. No.	11218519
Subject	Analytical Results and Reduced Validation of Report J15985 Quarterly Groundwater Sampling Shell International Petroleum – Triton West Consent Decree Seattle, Washington September 2021		

1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during September 2021. Samples were submitted to Eurofins TestAmerica, located in Spokane, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, laboratory duplicate data, recovery data from surrogate spikes, laboratory control samples and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540 R 2016 002, September 2016.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices. Due to necessary sample dilutions, surrogate recoveries were not assessed for some samples.

All samples submitted for volatile organic compound (VOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS/LCSD contained all analytes of interest. All LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision.

6. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

7. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

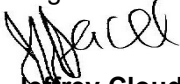
8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the reporting limit (RL) but greater than the MDL were reported as estimated (J) in Table 3. Non-detect results were presented as non-detect at the RL in Table 3.

9. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable without qualification.

Regards



Jeffrey Cloud

Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
September 2021

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					DRO/ORO	GRO	VOCs	
MW-301	MW-301	Water	09/22/2021	12:11		X	X	DUP
MW-302	MW-302	Water	09/23/2021	08:15		X	X	
MW-303	MW-303	Water	09/22/2021	12:39		X	X	
MW-304	MW-304	Water	09/22/2021	13:06		X	X	
MW-307	MW-307	Water	09/22/2021	10:46		X	X	
MW-308	MW-308	Water	09/22/2021	11:16		X	X	
MW-310	MW-310	Water	09/22/2021	13:37		X	X	
MW-311	MW-311	Water	09/23/2021	11:02		X	X	
MW-312	MW-312	Water	09/23/2021	10:34		X	X	DUP
MW-313	MW-313	Water	09/23/2021	10:00	X	X	X	
MW-315	MW-315	Water	09/23/2021	09:24	X	X	X	
TX-03A	TX-03A	Water	09/23/2021	08:49		X	X	
TB01	--	Water	09/22/2021	--		X	X	Trip Blank

Notes:

- DUP - Laboratory Duplicate
VOCs - Volatile Organic Compounds
GRO - Gasoline Range Organics
DRO/ORO - Diesel Range Organics/Motor Oil Range Organics
"--" - Not Applicable

Table 2

Analytical Methods
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
September 2021

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260D ⁽¹⁾	Water
Gasoline Range Organics (GRO)	NWTPH-Gx ⁽²⁾	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx ⁽²⁾	Water

Notes:

- (1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- (2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997

Table 3
Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
September 2021

Location ID:	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
Sample Name:	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308
Sample Date:	09/22/2021	09/23/2021	09/22/2021	09/22/2021	09/22/2021	09/22/2021

Parameters

Unit

Volatile Organic Compounds

Benzene	µg/L	3.33	18.4	252	38.9	135	129
Ethylbenzene	µg/L	2.00	58.5	344	0.696 J	109	0.975 J
Toluene	µg/L	1.00 U	3.73	7.24	1.00 U	14.5	4.08
Xylenes (total)	µg/L	0.535 J	8.83	19.4	3.00 U	71.7	2.57 J

Total Petroleum Hydrocarbons

Gasoline	µg/L	226	637	2290	225	1830	1250
Motor oil	µg/L	--	--	--	--	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	--	--	--

Table 3
Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
September 2021

Location ID:	MW-310	MW-311	MW-312	MW-313	MW-315	TX-03A
Sample Name:	MW-310	MW-311	MW-312	MW-313	MW-315	TX-03A
Sample Date:	09/22/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021	09/23/2021

Parameters	Unit						
Volatile Organic Compounds							
Benzene	µg/L	15.9	2.07	39.8	0.400 U	9.15	18.3
Ethylbenzene	µg/L	1.37	0.899 J	3.29	1.00 U	0.428 J	6.77
Toluene	µg/L	1.00 U	3.09	2.64	1.00 U	3.92	0.973 J
Xylenes (total)	µg/L	3.00 U	0.789 J	2.26 J	3.00 U	2.76 J	0.651 J
Total Petroleum Hydrocarbons							
Gasoline	µg/L	343	1200	1830	150 U	1480	221
Motor oil	µg/L	--	--	--	392 U	180 J	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	161 J	3270	--

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

"--" - Not analyzed

DRO - Diesel Range Organics

Technical Memorandum

January 21, 2022

To	Jacquelyn England	Tel	1 206 914 3141
Copy to	Heather Gadwa	Email	Jeffrey.Cloud@ghd.com
From	Jeffrey Cloud/eew/6-NF	Ref. No.	11218519
Subject	Analytical Results and Reduced Validation of Report J16597 Quarterly Groundwater Sampling Shell International Petroleum - Triton West Consent Decree Seattle, Washington December 2021		

1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during December 2021. Samples were submitted to Eurofins Northwest, located in Spokane, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, laboratory duplicate data, recovery data from surrogate spikes, laboratory control samples and matrix spikes.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the documents entitled:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540 R 2016 002, September 2016
2. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540 R 2016 001, September 2016

These items will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of two analytes present at low concentrations. The associated sample results were non-detect and were not impacted. No qualification of the data was deemed necessary.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), semivolatile organic compound (SVOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

5.1 Organic Analyses

The LCS/LCSD contained all analytes of interest. All LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision with the exception of one high GRO RPD. The associated sample results were non-detect and were not impacted. No qualification of the data was deemed necessary.

5.2 Inorganic Analyses

The LCS and LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS and LCS/LCSD recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision (where applicable).

6. Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed

as matrix spike (MS)/matrix spike duplicate (MSD) samples. The RPD between the MS and MSD is used to assess analytical precision. MS/MSD analyses were performed as specified in Table 1.

6.1 Organic Analyses

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the associated control limits, demonstrating acceptable analytical accuracy and precision with the exception of one high recovery. Only the MS was outside of the control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

6.2 Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision with the exception of two extremely low nitrate/nitrite recoveries. The associated sample detections were qualified as estimated and the associated non-detect results were rejected due to the poor analytical efficiency demonstrated (see Table 4).

7. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision with one exception. The original sample result was less than five times the reporting limit (RL) and the associated RPD was not assessed. No qualification of the data was deemed necessary.

8. Analyte Reporting

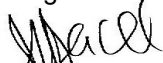
Data were reported down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Table 3. Non-detect results were presented as non-detect at the RL in Table 3.

If multiple QC results exhibit variability and/or high/low directional biases as related to a sample result, then any directional bias indicators are removed from the final sample result qualification.

9. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications and exceptions noted herein.

Regards



Jeffrey Cloud

Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
December 2021

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters						Comments	
					Anions	DRO/ORO	GRO	Lead	Dissolved Metals	VOCs		SVOCs
MW-05	MW-05	Water	12/15/2021	08:40		X	X			X		
MW-101	MW-101	Water	12/14/2021	14:30		X	X			X		
MW-102	MW-102	Water	12/16/2021	09:00		X	X			X		
MW-104	MW-104	Water	12/15/2021	09:10		X	X	X				MS/MSD - DUP
MW-105	MW-105	Water	12/15/2021	09:40		X	X	X		X		
MW-111	MW-111	Water	12/15/2021	10:20		X	X			X		
MW-112A	MW-112A	Water	12/15/2021	11:00		X	X			X		DUP
MW-202	MW-202	Water	12/16/2021	11:40	X	X	X		X	X		
MW-203	MW-203	Water	12/16/2021	10:00	X	X	X		X			
MW-204	MW-204	Water	12/16/2021	10:50		X	X			X		DUP
MW-206A	MW-206A	Water	12/16/2021	09:30		X	X			X		
MW-213	MW-213	Water	12/16/2021	14:10		X	X			X	X	
MW-214	MW-214	Water	12/16/2021	13:20		X	X			X	X	

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
December 2021

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters						Comments
					Anions	DRO/ORO	GRO	Lead	Dissolved Metals	VOCs	
MW-301	MW-301	Water	12/16/2021	09:25			X			X	
MW-302	MW-302	Water	12/16/2021	15:12	X	X	X		X	X	
MW-303	MW-303	Water	12/15/2021	14:00		X	X			X	
MW-304	MW-304	Water	12/16/2021	10:07	X	X	X		X	X	
MW-307	MW-307	Water	12/14/2021	12:20	X	X	X		X	X	MS/MSD - DUP
MW-308	MW-308	Water	12/14/2021	13:10	X		X		X	X	MS/MSD
MW-309	MW-309	Water	12/15/2021	14:30		X	X			X	
MW-310	MW-310	Water	12/16/2021	11:03	X	X	X		X	X	
MW-311	MW-311	Water	12/16/2021	12:04	X		X		X	X	DUP
MW-312	MW-312	Water	12/16/2021	12:40	X		X		X	X	
MW-313	MW-313	Water	12/16/2021	14:20		X	X			X	
MW-315	MW-315	Water	12/16/2021	13:26		X	X			X	
SH-04	SH-04	Water	12/15/2021	11:40		X	X			X	MS/MSD

Table 1

Sample Collection and Analysis Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
December 2021

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters						Comments
					Anions	DRO/ORO	GRO	Lead	Dissolved Metals	VOCs	
TES-MW-1	TES-MW-1	Water	12/14/2021	13:50		X	X			X	
TX-04	TX-04	Water	12/15/2021	13:30		X	X			X	
TX-06A	TX-06A	Water	12/15/2021	13:00		X	X			X	

Notes:

- DUP - Laboratory Duplicate
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- VOCs - Volatile Organic Compounds
- SVOCs - Semivolatile Organic Compounds
- GRO - Gasoline Range Organics
- DRO/ORO - Diesel Range Organics/Motor Oil Range Organics

Table 2

Analytical Methods
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
December 2021

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260D ⁽¹⁾	Water
Semivolatile Organic Compounds (SVOCs)	SW-846 8270E SIM ⁽¹⁾	Water
Gasoline Range Organics (GRO)	NWTPH-Gx ⁽²⁾	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx ⁽²⁾	Water
Lead	SW-846 6010D ⁽¹⁾	Water
Dissolved Metals	SW-846 6020B ⁽¹⁾	Water
Anions	EPA 300.0 ⁽³⁾	Water
	EPA 353.2 ⁽³⁾	Water

Notes:

- (1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- (2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997
- (3) - EPA - MCAWW - "Methods for Chemical Analysis of Water and Waste," EPA-600/4-79-020, revised March 1983, with subsequent revisions
- SIM - Selective Ion Monitoring

Table 3

Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
December 2021

Location ID:	MW-05	MW-101	MW-102	MW-104	MW-105	MW-111	MW-112A	MW-202	MW-203	MW-204
Sample Name:	MW-05	MW-101	MW-102	MW-104	MW-105	MW-111	MW-112A	MW-202	MW-203	MW-204
Sample Date:	12/15/2021	12/14/2021	12/16/2021	12/15/2021	12/15/2021	12/15/2021	12/15/2021	12/16/2021	12/16/2021	12/16/2021

Parameters	Unit										
Volatile Organic Compounds											
Benzene	µg/L	0.400 U	0.400 U	0.400 U	--	0.400 U	3.37	2.35	2.75	--	0.342 J
Ethylbenzene	µg/L	1.00 U	1.00 U	1.00 U	--	1.00 U	0.247 J	0.665 J	1.21	--	1.00 U
Toluene	µg/L	1.00 U	1.00 U	1.00 U	--	1.00 U	1.61	1.47	0.751 J	--	1.00 U
Xylenes (total)	µg/L	3.00 U	3.00 U	3.00 U	--	3.00 U	1.66 J	2.13 J	1.69 J	--	3.00 U
Semivolatile Organic Compounds, SIM											
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--	--
Metals											
Lead	µg/L	--	--	--	60.0 U	32.4 J	--	--	--	--	--
Iron (dissolved)	µg/L	--	--	--	--	--	--	--	320 J	500 U	--
Manganese (dissolved)	µg/L	--	--	--	--	--	--	--	532	50.5	--

Table 3

**Analytical Results Summary
 Quarterly Groundwater Sampling
 Shell International Petroleum - Triton West Consent Decree
 Seattle, Washington
 December 2021**

Location ID:	MW-05	MW-101	MW-102	MW-104	MW-105	MW-111	MW-112A	MW-202	MW-203	MW-204
Sample Name:	MW-05	MW-101	MW-102	MW-104	MW-105	MW-111	MW-112A	MW-202	MW-203	MW-204
Sample Date:	12/15/2021	12/14/2021	12/16/2021	12/15/2021	12/15/2021	12/15/2021	12/15/2021	12/16/2021	12/16/2021	12/16/2021

Parameters	Unit										
Total Petroleum Hydrocarbons											
Gasoline	µg/L	150 U	433	150 U	300	150 U	421	2340	3710	129 J	150 U
Motor oil	µg/L	424 U	128 J	401 U	175 J	670	149 J	215 J	706	273 J	413
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	254 U	305	240 U	456	523	340	1100	17000	138 J	379
General Chemistry											
Sulfate	mg/L	--	--	--	--	--	--	--	4.00 J	16.9	--
Nitrite/Nitrate	µg/L	--	--	--	--	--	--	--	68.5 J	195 J-	--

Table 3

**Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
December 2021**

Location ID:	MW-206A	MW-213	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-309
Sample Name:	MW-206A	MW-213	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-309
Sample Date:	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/15/2021	12/16/2021	12/14/2021	12/14/2021	12/15/2021

Parameters	Unit										
Volatile Organic Compounds											
Benzene	µg/L	0.400 U	0.400 U	0.400 U	18.5	6.44	24.8	3.39	42.6	0.400 U	0.400 U
Ethylbenzene	µg/L	1.00 U	1.00 U	1.00 U	4.39	21.1	14.2	1.32	92.1	1.00 U	1.00 U
Toluene	µg/L	1.00 U	1.00 U	1.00 U	0.723 J	0.755 J	0.620 J	1.00 U	4.93	1.00 U	1.00 U
Xylenes (total)	µg/L	3.00 U	3.00 U	3.00 U	0.768 J	3.74	4.35	0.646 J	40.2	3.00 U	3.00 U
Semivolatile Organic Compounds, SIM											
1-Methylnaphthalene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	0.0558 J	0.0488 J	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
Chrysene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
Naphthalene	µg/L	--	0.0895 U	0.0905 U	--	--	--	--	--	--	--
Metals											
Lead	µg/L	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	µg/L	--	--	--	--	282 J	--	19000	172 J	500 U	--
Manganese (dissolved)	µg/L	--	--	--	--	2740	--	1180	764	219	--

Table 3

**Analytical Results Summary
 Quarterly Groundwater Sampling
 Shell International Petroleum - Triton West Consent Decree
 Seattle, Washington
 December 2021**

Location ID:	MW-206A	MW-213	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-309
Sample Name:	MW-206A	MW-213	MW-214	MW-301	MW-302	MW-303	MW-304	MW-307	MW-308	MW-309
Sample Date:	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/15/2021	12/16/2021	12/14/2021	12/14/2021	12/15/2021

Parameters	Unit										
Total Petroleum Hydrocarbons											
Gasoline	µg/L	150 U	150 U	150 U	471	1190	2390	406	2390	150 U	113 J
Motor oil	µg/L	215 J	199 J	129 J	--	622	385 J	292 J	492	--	140 J
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	150 J	158 J	172 J	--	6390	6510	1860	4920	--	273
General Chemistry											
Sulfate	mg/L	--	--	--	--	104	--	72.8	22.1	20.9	--
Nitrite/Nitrate	µg/L	--	--	--	--	R	--	72.4 J	110 J	R	--

Table 3

**Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
December 2021**

Location ID:	MW-310	MW-311	MW-312	MW-313	MW-315	SH-04	TES-MW-1	TX-04	TX-06A
Sample Name:	MW-310	MW-311	MW-312	MW-313	MW-315	SH-04	TES-MW-1	TX-04	TX-06A
Sample Date:	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/15/2021	12/14/2021	12/15/2021	12/15/2021

Parameters

Unit

Volatile Organic Compounds

Benzene	µg/L	16.6	0.347 J	30.0	0.400 U	4.21	16.7	0.400 U	0.400 U	0.400 U
Ethylbenzene	µg/L	1.70	0.343 J	2.90	1.00 U	0.543 J	1.50	1.00 U	1.00 U	1.00 U
Toluene	µg/L	1.00 U	0.923 J	2.25	1.00 U	3.75	1.72	1.00 U	1.00 U	1.00 U
Xylenes (total)	µg/L	0.730 J	1.05 J	2.37 J	3.00 U	2.51 J	3.80	3.00 U	3.00 U	3.00 U

Semivolatile Organic Compounds, SIM

1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--

Metals

Lead	µg/L	--	--	--	--	--	--	--	--	--
Iron (dissolved)	µg/L	339 J	144 J	115 J	--	--	--	--	--	--
Manganese (dissolved)	µg/L	2500	1770	830	--	--	--	--	--	--

Table 3

**Analytical Results Summary
Quarterly Groundwater Sampling
Shell International Petroleum - Triton West Consent Decree
Seattle, Washington
December 2021**

Location ID:	MW-310	MW-311	MW-312	MW-313	MW-315	SH-04	TES-MW-1	TX-04	TX-06A
Sample Name:	MW-310	MW-311	MW-312	MW-313	MW-315	SH-04	TES-MW-1	TX-04	TX-06A
Sample Date:	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/16/2021	12/15/2021	12/14/2021	12/15/2021	12/15/2021

Parameters	Unit									
Total Petroleum Hydrocarbons										
Gasoline	µg/L	1400	1630	2990	150 U	2810	1290	150 U	150 U	150 U
Motor oil	µg/L	667	--	--	185 J	296 J	400 J	162 J	411 U	146 J
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	6760	--	--	359	3230	2670	237 U	247 U	589
General Chemistry										
Sulfate	mg/L	90.8	4.42	0.500 U	--	--	--	--	--	--
Nitrite/Nitrate	µg/L	102 J	R	R	--	--	--	--	--	--

Notes:

- U - Not detected at the associated reporting limit
- J - Estimated concentration
- J- - Estimated concentration; implied low bias
- R - Rejected
- " - Not applicable
- DRO - Diesel Range Organics
- SIM - Selective Ion Monitoring

Table 4

**Qualified Sample Results Due to Outlying MS/MSD Results
 Quarterly Groundwater Sampling
 Shell International Petroleum - Triton West Consent Decree
 Seattle, Washington
 December 2021**

Parameter	Sample ID	Analyte	MS	MSD	RPD (percent)	Control Limits		Associated Sample IDs	Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD			
General Chemistry	MW-307	Nitrite/Nitrate	-3	12	58	90-110	20	MW-307	110 J	µg/L
								MW-203	195 J-	µg/L
								MW-202	68.5 J	µg/L
								MW-308	R	
								MW-304	72.4 J	µg/L
								MW-310	102 J	µg/L
								MW-311	R	
								MW-312	R	
					MW-302	R				

Notes:

- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- RPD - Relative Percent Difference
- J - Estimated concentration
- J- - Estimated concentration; implied low bias
- R - Rejected

