



Site Investigation Report

Shell Harbor Island Terminal
2555, 1835, 1711 13th Avenue Southwest
Seattle, Washington 95822

PlaNet Site ID MIGUS357032
PlaNet Project ID 86013
Consent Decree No 99-2-07176-OSEA

Equilon Enterprises dba Shell Oil Products US
October 14, 2022

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1. Introduction

GHD Services, Inc. (GHD) prepared this *Site Investigation Report* (SIR) for the Shell Harbor Island Terminal as referenced above (Figures 1 and 2) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). Following the October 1, 2020 release of gasoline from the Pump House, GHD oversaw a portion of the cleanup at the Shell Harbor Island Terminal. This included remedial soil excavation at the north and south ends of the Pump House where a total of 136.05 tons of impacted soil and 9,190 gallons of fuel and water were hauled off Site (Figure 3). To assess the groundwater quality and determine groundwater flow direction and hydraulic gradient in the vicinity of the Pump House area, GHD proposed the installation of four groundwater monitoring wells in our August 31, 2021 *Well Installation Work Plan* (Work Plan). The Work Plan was approved by the State of Washington Department of Ecology (Ecology) in their January 5, 2022 email.

Site background information, a summary of previous environmental assessment and remediation work, and a summary of the well installation activities are included below.

2. Site Description and Background

2.1 Site Description

The Shell Harbor Island Terminal is a petroleum distribution facility located on Harbor Island, which is approximately one mile southwest of downtown Seattle at the mouth of the Duwamish River (Figure 1). The site is comprised of three parcels located at 2555 13th Avenue Southwest, 1835 13th Avenue Southwest, and 1711 13th Avenue Southwest.

These parcels are designated as the Main Tank Farm, North Tank Farm, and Shoreline Manifold Area, respectively (Figure 2). This is a Model Toxics Control Act (MTCA) site and compliance monitoring activities are performed under *Consent Decree No. 99 2-07 176 SEA* with the Washington State Department of Ecology (Ecology, 1998). Three groundwater monitoring and cleanup areas are associated with the three parcels. Groundwater monitoring and cleanup area TX-03A Area, shown on Figure 2, encompasses the North Tank Farm and the northern portion of the Main Tank Farm. The SH-04 Area overlaps the southeastern portion of the Main Tank Farm. The boundaries for the Shoreline Manifold Area parcel and groundwater monitoring and cleanup area are identical.

2.2 Site Geology and Hydrogeology

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 1 foot to approximately 2 feet thick. The 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 not well defined due to similar properties of the two units. The dredge fill appears to vary from approximately 8 to 20 feet in thickness at the site. It consists of fine- to medium-grained sand with some gravel. Native estuarine deposit underlies the dredge fill at depths of approximately 8 to 20 feet below grade. These deposits are composed of primarily fine- to medium-grained sand with thin silt interbeds.

Groundwater occurs as a thin lens of fresh water overlying brackish water at depth. The groundwater table occurs within the dredge fill 4 to 8 feet below ground surface (ft bgs). Groundwater within the dredge fill unit occurs under unconfined conditions. The North Tank Farm and Main Tank Farm areas generally are unaffected by tides, whereas the Shoreline Manifold Area groundwater quality and elevations 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 can be 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.

2.3 Previous Environmental Work

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 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.

The estimated release volume was 580 gallons, and it appears that most of the fuel was released to secondary containment within the Manifold Pit East (Pit) area located on the eastern side of the Pump House. Between October 1 and 3, US Ecology (formerly NRC) used a vacuum truck to remove all standing fluids from the Pit and then pressure washed the Pit to remove potentially impacted sediments. A total of approximately 9,190 gallons of fuel and water were recovered and of this volume, approximately 387 gallons of gasoline was recovered. The recovered fuel/water/sediment mixture was stored in an on-Site Baker Tank, sampled, and profiled for proper disposal. Following initial recovery, additional excavation was completed north and south of the Pump House as described in the March 11, 2021 *Interim Action Report* (IAR) (GHD, 2021) and summarized below:

- The north excavation area was approximately 360 square feet and advanced to approximate depths of 2 to 3 ft bgs. Approximately 20 cubic yards of soil was removed and confirmation soil samples were below the Consent Decree 20,000 mg/kg TPH cleanup level.
- The south excavation area was approximately 1,065 square feet and advanced to approximate depths of 2 to 4 ft bgs. Approximately 65 cubic yards of soil was removed, and confirmation soil samples were below the Consent Decree 20,000 mg/kg TPH cleanup level.
- A total of 136.05 tons of impacted soil was excavated and hauled offsite for disposal.
- Prior to backfilling the excavation GHD oversaw the application of Gold Crew® to enhance bioremediation of the remaining residual impacts.

The extents of excavation are shown on Figure 3 with TPH and benzene concentrations in soil samples collected during excavation. Tabulated soil results are included in Table 1. Within the northern excavation, up to 19,600 mg/kg TPHg (N2) and 50.9 mg/kg benzene (N2) remain at a depth of approximately 2 ft bgs, and up to 11,200 mg/kg TPHg (N3) and 60.5 mg/kg benzene (N3) remain at a depth of 4 ft bgs. The highest concentrations were detected adjacent to the Pump House. Samples N5, N6, and N7, collected from depths ranging from 1.5 to 4 ft bgs approximately 15 feet north of the Pump House, were non-detect for TPHg and had a maximum benzene concentration of 0.0110 mg/kg.

Within the southern excavation, up to 17,700 mg/kg TPHg (S5) and 105 mg/kg benzene (S8) remain at a depth of approximately 2 ft bgs, and up to 9,150 mg/kg TPHg (S1) and 38.1 mg/kg benzene (S1) remain at a depth of approximately 4 ft bgs. Samples collected from the outer edges of the excavation (S3, S9, S11, S12, S13, and S20) were non-detect for TPHg; samples S3, S11, and S20 were non-detect for benzene; and samples S9, S12, and S13 contained 0.220, 0.00685, and 0.00637 mg/kg benzene, respectively.

Some of the remaining impacts within both excavations were left beneath the exposed utility lines and adjacent to the building foundations to prevent undermining of these structures during soil removal. The depth to groundwater is approximately 5 to 6 ft bgs, and it was unknown whether the release has impacted groundwater; therefore, GHD installed monitoring wells within the Pump House area. These activities are described below.

3. Investigation Activities

The objective of the investigation was to define the extent of dissolved contaminant plume in the area of the Pump House, and GHD proposed to install four groundwater monitoring wells MW-113 through MW-116 to the southwest, west, west-northwest, and north, respectively.

3.1 Prefield Activities

GHD prepared a Site-specific health and safety plan to protect Site workers. The health and safety plan was kept on Site at all times and reviewed and signed by all Site workers and visitors each day.

Prior to drilling activities, GHD notified the Washington State One Call Utility Notification Service (811 Call Before You Dig) more than 48 hours prior to field activities to clear the soil boring locations with public utility companies. GHD also contracted Underground Locating Services (ULS) to conduct a private utility survey to further identify potential subsurface utilities and underground obstructions in the vicinity of the proposed well locations; a copy of their report is included in Appendix A.

3.2 Well Installation Activities

Drilling and well construction fieldwork was conducted on June 21 and 22, 2022 by Holt Services, Inc. (Holt) of Milton, Washington, under the supervision of GHD field personnel. Three well borings were advanced in the vicinity of the Pump house: MW-113 to the south-southeast, MW-114 to the west-northwest, and MW-115 to the west. Figure 4 shows the well locations. Well boring locations were cleared to 6 ft bgs using an air knife and vacuum truck to ensure no unidentified underground utilities or obstructions were located beneath the ground surface. After air knifing, borings were advanced to a depth of 15 feet bgs using a direct push rig. Continuous soil cores were collected in acetate liners for lithologic observations and screening with a photo-ionization detector (PID). Soil encountered in the borings during drilling activities was logged in accordance with American Society for Testing and Materials' (ASTM) Unified Soil Classification System (USCS) standard by experienced environmental personnel. Soil samples were collected from the acetate liners by transferring to laboratory approved containers using EnCore samplers following the EPA 5035 method. Samples were appropriately stored for transport to under chain of custody to a certified analytical laboratory.

Permanent groundwater monitoring wells MW-113, MW-114, and MW-115 were installed in the borings. The wells were constructed with using threaded 2-inch polyvinyl chloride (PVC) schedule 40 casing and prepacked 0.010-inch slot screen from 5 to 15 ft bgs. The boring annulus was backfilled with a 10/20 sand pack to 2 feet above the screen and sealed with hydrated bentonite chips above the filter pack to approximately 2 ft bgs. The well was finished at the surface with flush mount, traffic rated well boxes set in a concrete surface seal. The three wells were then developed with an inertial down hole pump.

A depiction of the well construction details is presented on the boring logs in Appendix B.

3.3 Groundwater Monitoring and Sampling

On June 27, 2022, GHD subcontracted with Blaine Tech Services, Inc. (BTS) of Auburn, Washington to perform groundwater monitoring and sampling activities at the Site. The fieldwork included measuring depth to water using a multi-phase probe and collecting groundwater samples from wells. Groundwater samples were collected from the wells using low flow sampling procedures. Field water quality parameters including temperature, pH, specific conductance, turbidity, dissolved oxygen, and oxidation reduction potential were monitored during purging operations at each of the wells. After purging, groundwater samples were collected in appropriate laboratory-supplied containers, labelled, and placed immediately on ice and transported to Eurofins TestAmerica of Spokane, Washington, under strict chain of custody procedures. Field forms generated during the monitoring event are provided in Appendix C.

3.4 Investigation Derived Waste

Investigation derived waste (IDW) including soil cuttings and decontamination and purge water were placed in 55-gallon steel drums and labelled as pending analysis. Three 55-gallon drum of nonhazardous soil cuttings, and one 55-gallon drum of decontamination water and well development water were transported by DH Environmental, Inc. on October 7, 2022 to Chemical Waste Management in Arlington, Oregon for disposal. Waste manifest documentation is provided in Appendix D.

3.5 Deviations from Work Plan

3.5.1 Groundwater Monitoring Well Installation North of the Pump House

Proposed location MW-116 (to the north of the Pump House), as presented in the Work Plan, was not advanced during the investigation due to its proximity to multiple underground high voltage electric cables with insufficient space between the lines to safely drill.

The purpose of MW-116 was to delineate groundwater impacts to the north of the Pump House and source area. The project team reviewed various other locations to the north as an alternative; however, further north is the tank farm which also presents significant underground and atmospheric hazards for heavy machinery operation. Groundwater flow direction is generally radial away from the center of the tank farm. Therefore, downgradient from the Pump House is to the southeast, and north is generally crossgradient. The three wells successfully installed provide delineation to the south, west, and northwest, in the direction of the radial groundwater flow. Based on this, we recommend evaluating the need for a well north of the Pump House after review of several quarters of flow direction and dissolved constituent results in wells MW-113, MW-114, MW-115. Survey of the three new monitoring wells will be conducted in the fourth quarter of 2022.

3.5.2 Soil Sample Collection and Analysis During Well Installation

During well installation soil was screened in-field with a PID, and soil samples were collected at 3 and 5 ft bgs as standard practice. These soil samples were placed on ice and shipped to the laboratory on June 22, 2022. The samples were either lost in transit or at the laboratory facility; therefore, the soil could not be analyzed as recommended in our Work Plan.

Field screening of the soil using a PID indicated readings ranging from 0.4 parts per million (ppm) (15 ft bgs at MW-113) to 103.8 ppm (5 ft bgs at MW-115). The highest concentrations were at 7 ft bgs at MW-113 (24 ppm), 3 ft bgs at MW-114 (58.2 PPM), and 5 ft bgs at MW-115 (103.8 ppm). PID readings reported in soil during the interim excavation activities following the Pump House release exceeded 1,000 ppm.

Because the soil impact associated with the Pump House release was previously delineated below Consent Decree clean up levels and in some cases to non-detect (as summarized in the IAR), GHD does not recommend an additional investigation to replace the soil samples collected during this investigation that were lost in transit.

4. Site Investigation Results

Depth to groundwater at the Pump House investigation wells ranged from 4.74 feet below top of casing (BTOC) in well MW-115 to 5.03 feet BTOC in well MW-114. Separate phase hydrocarbons (SPH) were not detected in the three Pump House investigation wells.

Groundwater analysis included TPHg, TPHd, TPHo, and BTEX. The analytical reports are included in Appendix E, and the groundwater results for MW-113, MW-114, and MW-115 are tabulated in Table 2. During the June 2022 event, only benzene was reported above the respective Consent Decree cleanup level of 0.071 milligrams for liter (mg/L) for groundwater in the sample collected from well MW-113, containing 0.156 mg/L. Well MW-113 is located southwest of the Pump House.

The remaining contaminants of concern were not detected above their respective laboratory method reporting limits or Consent Decree cleanup levels in the remaining Pump House investigation wells.

Cumulative groundwater analytical results are presented in Table 3, and the cumulative Site groundwater monitoring results will be assessed further in the next Annual Report.

5. Conclusions and Recommendations

Based on the information contained in the IAR, soil impacts exceeding the Consent Decree clean up levels were excavated, and confirmation samples indicated that remaining soil had TPH and benzene concentrations less than the Consent Decree clean up levels.

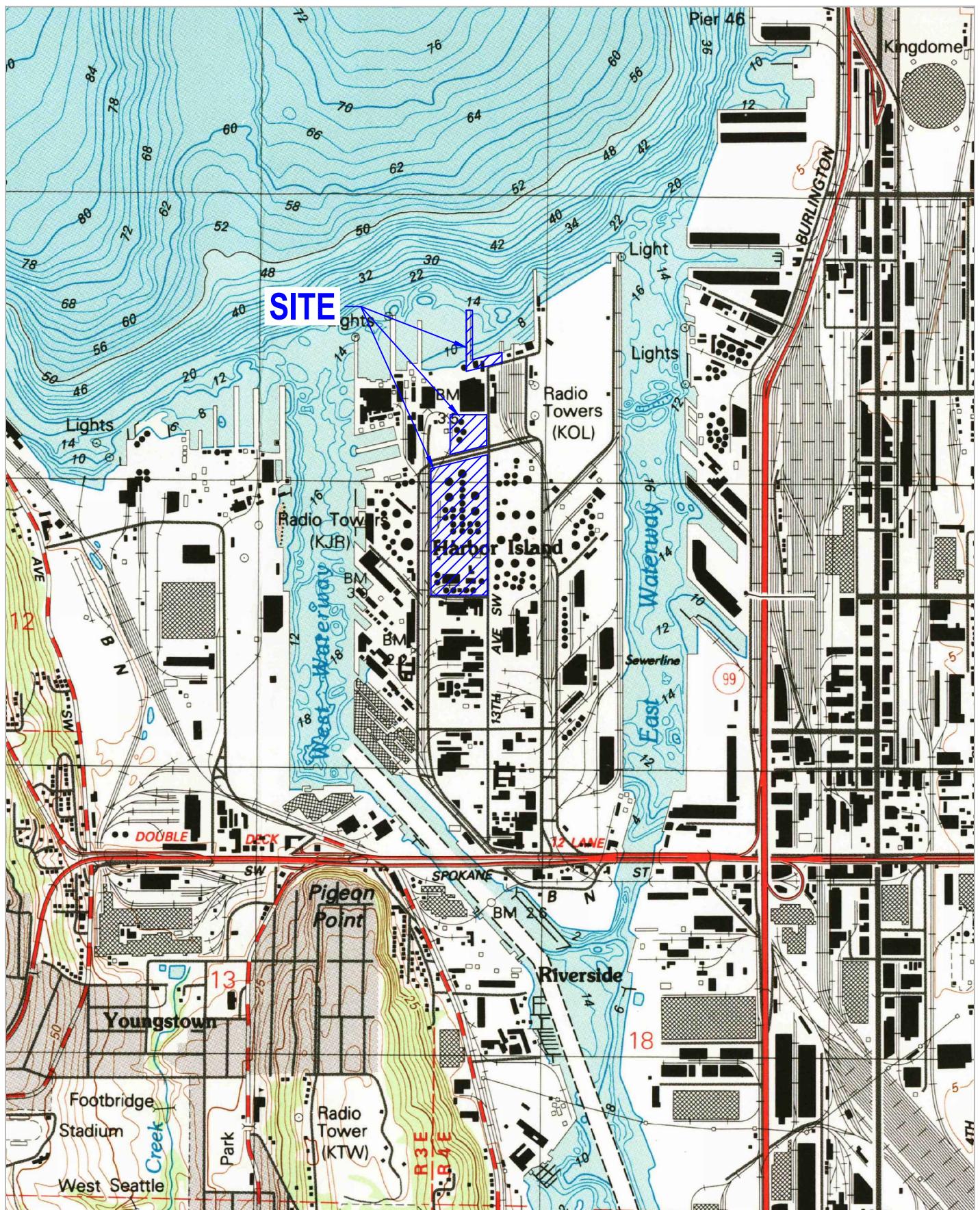
During the June 2022 groundwater investigation activities, summarized in this report, only benzene was detected in groundwater from the newly installed wells at a concentration exceeding the Consent Decree cleanup level of 0.071 mg/L, at a concentration of 0.156 mg/L in monitoring well MW-113 located southwest of the Pump House.

Except for the benzene detection noted above, all analyzed constituents were either not detected above the laboratory reporting limit or were reported at concentrations less than Consent Decree cleanup levels in wells MW-113, MW-114, and MW-115.

Based on results presented in the GHD February 15, 2022, *2021 Annual Compliance Monitoring Report*, groundwater from monitoring well MW-105 (downgradient and southwest of MW-113) did not have BTEX present above laboratory detection limits in December of 2021 (over a year after the gasoline release). Therefore, groundwater impact that exceeds the Consent Decree cleanup levels in well MW-113 is bound by results from wells MW-114, MW-115, and MW-105.

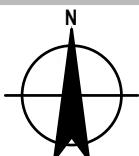
GHD recommends adding Pump House investigation wells MW-113, MW-114, and MW-115 to the established groundwater monitoring program for the Site, with gauging and sampling during the second and fourth quarters, in alignment with the SH-04 area wells. Well MW-105, also in the vicinity of the Pump House, will be sampled according to the established groundwater monitoring schedule for the Site.

Figures



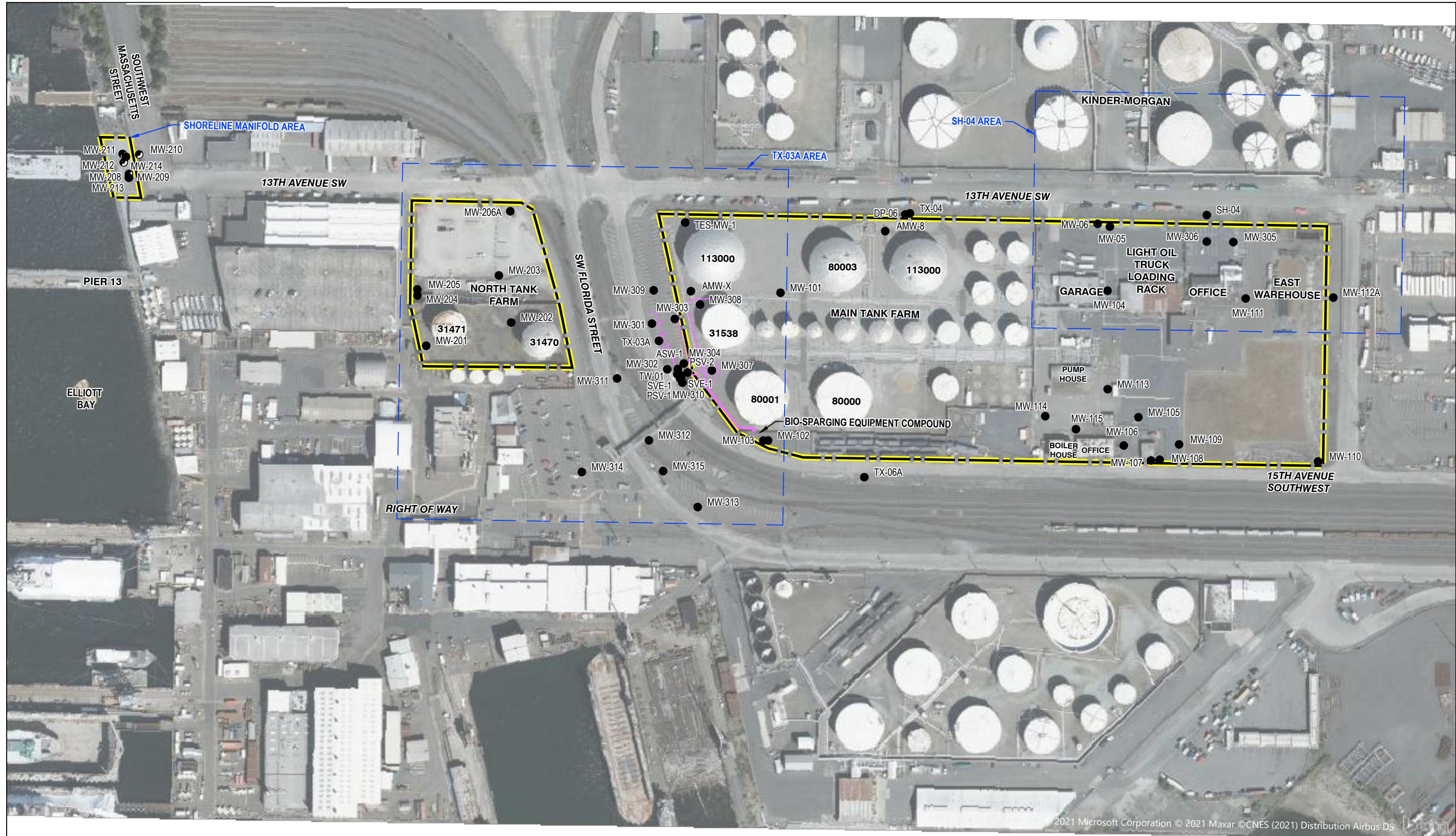
**SHELL DISTRIBUTION TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON**

Project No. 11218519
Date September 2022



SITE LOCATION MAP

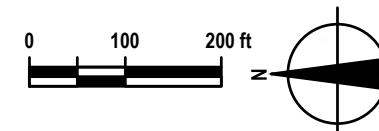
FIGURE 1



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LEGEND

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

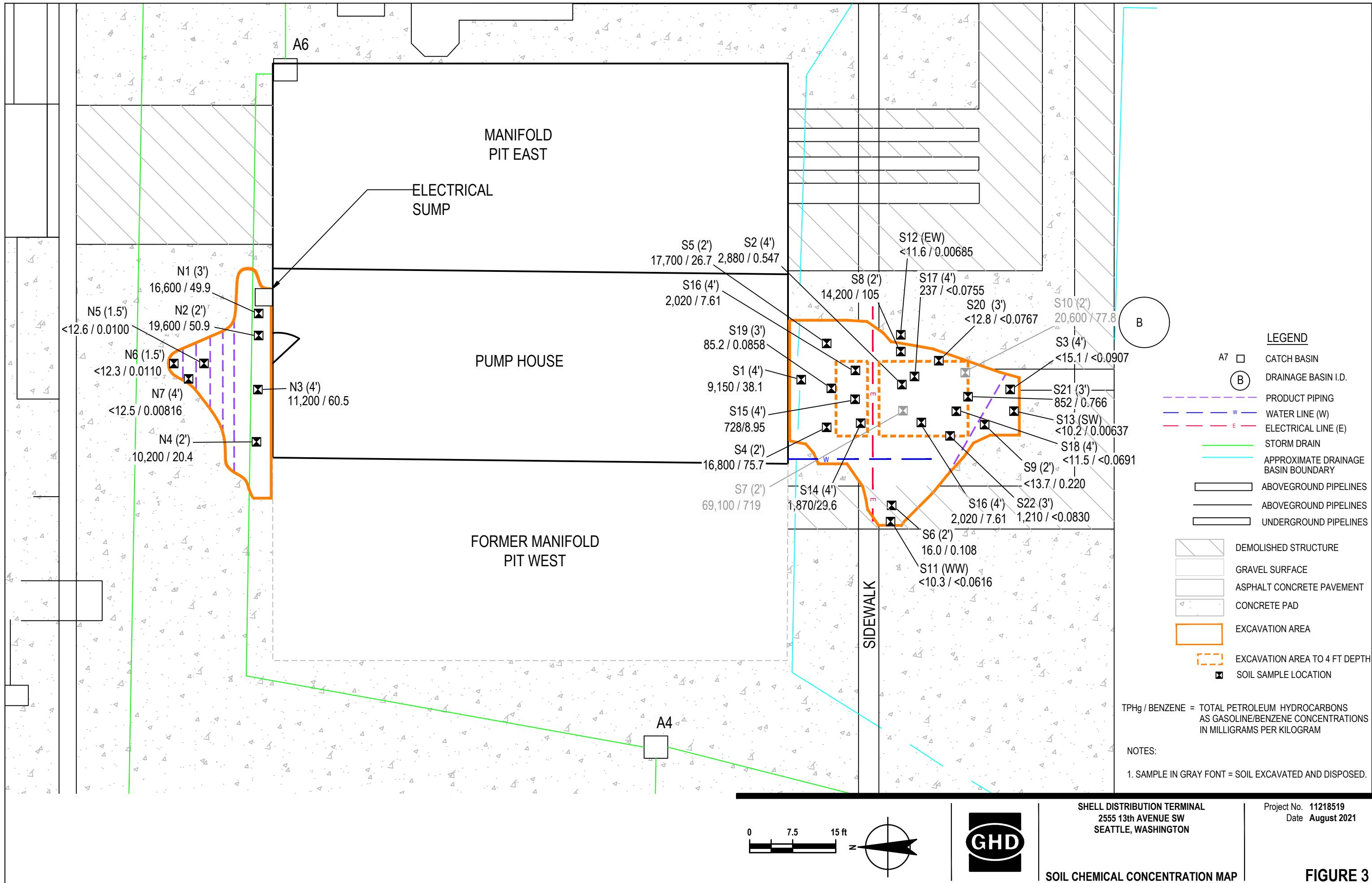


SHELL DISTRIBUTION TERMINAL
2555 13th AVENUE SW
SEATTLE, WASHINGTON

Project No. 11218519
Date September 2022

SITE PLAN

FIGURE 2



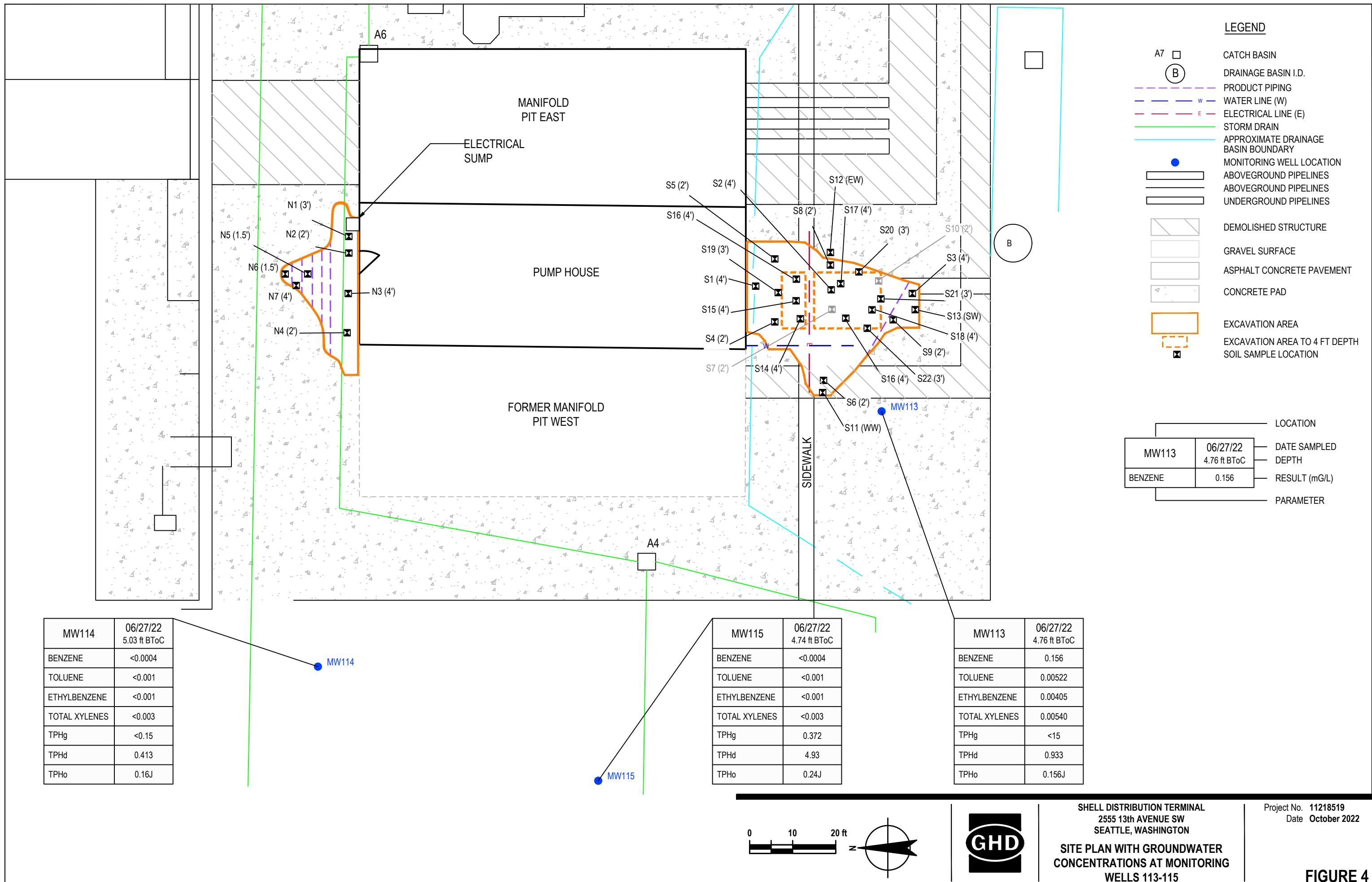


FIGURE 4

Tables

Table 1

**Summary of Soil Excavation Analytical Data
Shell Harbor Island Fuel Terminal
2555 13th Ave Southwest
Seattle, Washington**

Sample Name	Sample Date	Sample Depth Consent Decree Cleanup Level¹ ft	TPHg 20,000 (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylene
				-- (mg/kg)	-- (mg/kg)	-- (mg/kg)	-- (mg/kg)
S-101620-JRL-N1 (3)	10/16/2020	3	16600	49.9	1020	266	1530
S-101620-JRL-N2 (2)	10/16/2020	2	19600	50.9	1160	261	1480
S-101620-JRL-N3 (4)	10/16/2020	4	11200	60.5	890	185	1070
S-101620-JRL-N4 (2)	10/16/2020	2	10200	20.4	554	162	970
S-101620-JRL-N5 (2)	10/16/2020	2	<12.6	0.0110	0.0430	<0.00224	0.0126
S-101620-JRL-N6 (18)	10/16/2020	1.5	<12.3	0.0100	0.0331	<0.00218	<0.0109
S-101620-JRL-N7 (4)	10/16/2020	4	<12.5	0.00816	0.0284	<0.00216	<0.0108
S-101620-JRL-S1 (4)	10/16/2020	4	9150	38.1	761	176	1020
S-101620-JRL-S2 (4)	10/16/2020	4	2880	0.547	0.783	0.229	0.981
S-101620-JRL-S3 (4)	10/16/2020	4	<15.1	<0.0907	<0.454	<0.121	<0.605
S-101620-JRL-S4 (2)	10/16/2020	2	16800	75.7	1250	278	1600
S-101620-JRL-S5 (2)	10/16/2020	2	17700	26.7	1070	297	1690
S-101620-JRL-S6 (2)	10/16/2020	2	16.0	0.108	0.544	<0.101	0.883
S-101620-JRL-S7 (2)	10/16/2020	2	69100	719	9750	1430	9590
S-101620-JRL-S8 (2)	10/16/2020	2	14200	105	1350	280	1490
S-101620-JRL-S9 (2)	10/16/2020	2	<13.7	0.220	1.07	0.114	<0.547
S-101620-JRL-S10 (2)	10/16/2020	2	20600	77.8	1650	386	2200
S-101620-JRL-S11 (WW) ²	10/16/2020	--	<10.3	<0.0616	<0.308	<0.0821	<0.410
S-101620-JRL-S12 (EW) ²	10/16/2020	--	<11.6	0.00685	0.0324	<0.00203	<0.0102
S-101620-JRL-S13 (SW) ²	10/16/2020	--	<10.2	0.00637	0.0302	0.00189	<0.00928
S-102820-JRL-S14 (4)	10/28/2020	4	1870	29.6	119	<1.18	<5.88
S-102820-JRL-S15 (4)	10/28/2020	4	728	8.95	70.2	0.725	2.90

Table 1

**Summary of Soil Excavation Analytical Data
Shell Harbor Island Fuel Terminal
2555 13th Ave Southwest
Seattle, Washington**

Sample Name	Sample Date	Sample Depth Consent Decree Cleanup Level ¹ ft	TPHg 20,000 (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylene
				-- (mg/kg)	-- (mg/kg)	-- (mg/kg)	-- (mg/kg)
S-102820-JRL-S16 (4)	10/28/2020	4	2020	7.61	13.4	<1.23	<6.15
S-102820-JRL-S17 (4)	10/28/2020	4	237	<0.0755	0.384	0.00553	<0.0119
S-102820-JRL-S18 (4)	10/28/2020	4	<11.5	<0.0691	<0.345	<0.0921	<0.460
S-102820-JRL-S19 (3) ³	10/28/2020	3	85.2	0.0858	14.5	0.0331	0.122
S-102820-JRL-S20 (3) ³	10/28/2020	3	<12.8	<0.0767	<0.384	<0.102	<0.511
S-102820-JRL-S21 (3) ³	10/28/2020	3	852	0.766	14.5	0.0484	27.6
S-102820-JRL-S22 (3) ³	10/28/2020	3	1210	<0.083	<0.415	<0.111	<0.553

Notes/Abbreviations

TPHg = Total petroleum hydrocarbons as gasoline range organics analyzed by NWTPH-Gx

BTEX = Benzene, toluene, ethylbenzene, xylenes analyzed by EPA Method 8260B

mg/kg = milligrams per kilogram

<x = Not detected above reporting limit x

Concentrations in bold indicate the concentration value exceeded the MTCA Method A cleanup level

Samples S7 (2') and S10 (2') TPHg concentrations in gray font exceeded the TPH cleanup level and as a result these areas were overexcavated

1. Draft Cleanup Acton Plan dated 9/28/98 (Exhibit B of 4/2/99 Final Consent Decreee 99-2-07176-0 SEA) establishes a TPH cleanup level in subsurface soil (> 6 inches) of 20,000 mg/kg. BTEX cleanup levels were not established.

2. Samples designated as WW, EW, SW were collected at depths between 18 inches and 2 feet from the excavation sidewalls.

3. Samples S19, S20, S21, and S22 were collected from the north, east, south, and west sidewalls, respectively.

Table 2
Summary of Pump House Investigation Groundwater Monitoring Data
Shell Harbor Island Terminal
Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons		
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo
Consent Decree Cleanup Levels (Ecology, 1998)		0.071	200	29	NE	1	10	10
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-113	06/27/22	0.156	0.00522	0.00405	0.00540	<15	0.933	0.156 J
MW-114	06/27/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	0.413	0.16 J
MW-115	06/27/22	<0.000400	<0.00100	<0.00100	<0.00300	0.372	4.93	0.24 J

Note:

* = 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 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	< 0.003	< 0.005	< 0.003	< 0.007	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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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-05	04/18/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	<0.235	<0.392	--
MW-05	06/29/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	<0.243	<0.405	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	12/09/15	< 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	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	12/14/16	< 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	--
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

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	04/18/22	--	--	--	--	0.896	0.503	<0.393	<0.0600
MW-104	06/29/22	<0.000400	<0.00100	0.00106	<0.00300	0.648	0.381	<0.413	<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
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	< 0.00046	< 0.050	0.189	< 0.095	0.0179
MW-105	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 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

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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-111	04/18/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	<0.229	<0.381	--
MW-111	06/27/22	0.00274	<0.00100	<0.00100	<0.00300	0.11 J	0.118 J	<0.402	--
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	--
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	--

Table 3
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
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Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
MW-112A	04/18/22	0.00102	0.000759 J	0.0279	0.00269 J	1.87	1.39	<0.389	--
MW-112A	06/28/22	0.00139	0.000935 J	0.0106	0.00263 J	1.26	0.675	<0.407	--
MW-113	06/27/22	0.156	0.00522	0.00405	0.00540	<15	0.933	0.156 J	--
MW-114	06/27/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	0.413	0.16 J	--
MW-115	06/27/22	<0.000400	<0.00100	<0.00100	<0.00300	0.372	4.93	0.24 J	--
MW-201	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
MW-202	10/20/05	0.019	0.0021	0.058	0.0056	3.3	5.9	< 2.5	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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 3
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Consent Decree Cleanup Levels (Ecology, 1998)		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-202	06/29/22	--	--	--	--	3.33	2.84	1.09	--
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	--

Table 3
BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Consent Decree Cleanup Levels (Ecology, 1998)		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	05/20/08	--	--	--	--	0.6	0.32	< 0.5	--
MW-203	11/18/08	--	--	--	--	0.17	< 0.25	< 0.5	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
MW-203	12/16/21	--	--	--	--	0.129 J	0.138 J	0.273 J	--
MW-203	06/28/22	--	--	--	--	0.0343 J	0.645	1.56	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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-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	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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-213	06/29/22	< 0.000400	< 0.00100	< 0.00100	< 0.00300	< 0.15	0.163 J	< 0.475	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	< 0.000312	< 0.000198 J	< 0.000442 J	< 0.0704 J	0.305	< 0.128	--

Table 3
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Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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-214	06/29/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	0.181 J	0.135 J	--
MW-301	03/02/12	0.24	0.0138	0.0099	0.0212	3.37	--	--	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--	--	--
MW-301	09/19/19	0.0000937 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-301	03/29/22	0.0308	0.000663 J	0.00248	0.00113 J	0.572	--	--	--
MW-301	06/28/22	0.0215	0.000854 J	0.00316	0.000735 J	0.478	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	05/16/19	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-302	03/28/22	0.00516	0.000712 J	0.0122	0.00292 J	1.18	--	--	--
MW-302	06/28/22	0.00282	0.000505 J	0.0214	0.00456	0.414	--	--	--
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	--	--	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--	--	--
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-303	03/28/22	0.0270	0.00196	0.0638	0.00892	2.63	--	--	--
MW-303	06/28/22	0.107	0.00303	0.0272	0.00922	2.25	--	--	--
MW-304	03/01/12	0.686	0.0351	0.214	0.264	5.64	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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-304	03/28/22	0.0276	0.000750 J	0.00125	0.000843 J	0.624	--	--	--
MW-304	06/28/22	0.0169	0.000903 J	0.00318	0.00112 J	0.549	--	--	--
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 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	12/06/17	0.0501	0.00663	0.0479	0.0134	0.977	1.04	< 0.128	--
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-307	03/28/22	0.0982	0.0223	0.147	0.0988	3.69	--	--	--
MW-307	06/29/22	0.149	0.0318	0.176	0.158 J	2.87	4.02	0.33 J	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--	--	--
MW-308	12/09/15	0.146	0.00361	0.0284	0.00527	1.19	--	--	--
MW-308	02/23/16	0.00711	< 0.0000380	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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--	--	--
MW-308	03/28/22	0.00476	<0.00100	0.000244 J	<0.00300	0.106 J	--	--	--
MW-308	06/29/22	<0.000400	<0.00100	0.000281 J	0.000485 J	0.0545 J	--	--	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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-309	06/28/22	<0.000400	<0.00100	<0.00100	<0.00300	0.108 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	--	--	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--	--	--
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-310	03/29/22	0.0313	0.000978 J	0.00948	0.00296 J	1.55	--	--	--
MW-310	06/28/22	0.0392	0.000966 J	0.0179	0.00550	0.924	--	--	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--	--	--
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-311	03/29/22	0.000243 J	0.000909 J	0.000302 J	0.000828 J	1.66	--	--	--
MW-311	06/28/22	0.00253	0.00349	0.000596 J	0.000644 J	2.05	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--	--	--
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	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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-312	03/29/22	0.0136	0.00172	0.00240	0.00180 J	2.77	--	--	--
MW-312	06/29/22	0.0358	0.00269	0.00230	0.00205 J	2.28	--	--	--
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	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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-313	03/29/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	<0.237	<0.395	--
MW-313	06/28/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	0.177 J	0.14 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	--
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	--

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Seattle, Washington

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Consent Decree Cleanup Levels (Ecology, 1998)		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	04/13/21	<0.000200	0.000391 J+	<0.000200	<0.000500	0.363	2.75	0.745	--
MW-314	03/28/22	0.000477	0.000624 J	<0.00100	0.000682 J	0.253	0.682	<0.391	--
MW-314	06/28/22	<0.000400	0.000346 J	<0.00100	<0.00300	0.253	0.936	0.166 J	--
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	--

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BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Consent Decree Cleanup Levels (Ecology, 1998)		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	--
MW-315	03/29/22	0.0452	0.00420	0.000890 J	0.00252 J	2.41	2.44	0.136 J	--
MW-315	06/28/22	0.0177	0.00382	0.000548 J	0.00284 J	2.37	2.31	0.207 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	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	--
SH-04	04/18/22	0.00626	0.00105	0.00384	0.00457	1.17	0.549	< 0.392	--
SH-04	06/28/22	0.0117	0.00110	0.00263	0.00226 J	0.813	0.38	0.14 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	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	04/19/05	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	--	--	--
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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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-03A	03/28/22	0.121	0.00255	0.0120	0.00163 J	0.998	--	--	--
TX-03A	06/28/22	0.114	0.00632	0.0132	0.00356	1.39	--	--	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	< 0.000020	< 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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		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	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	--
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	< 0.000020	< 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	--

Table 3
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	
Consent Decree Cleanup Levels (Ecology, 1998)		0.071	200	29	NE	1	10	10	0.0058
MW-01	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--

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

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). F

mg/L = milligrams per liter

NA = not analyzed

NE = not established

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

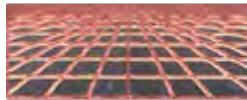
TPHd = Total petroleum hydrocarbons as diesel analyzed by Northwest Method NWTPH-Dx.

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

Appendices

Appendix A

ULS Report



SEATTLE based
ALASKA • HAWAII • PNW (206) 384-2857
 a division of ULS Services Corporation

www.geomarkout.com

CORPORATE ADDRESS / INQUIRIES
 P.O. Box 724, Pocatello, ID 83204 (Mail only)
 6742 W. Buckskin Rd, Pocatello, ID 83201 (Parcels only)

FIELD SERVICES:

SEATTLE/AK/HAW
 4206 Gay Road East, Tacoma WA 98443
 C : 206 384 2857



a Veteran Owned Operated Small Business

35 YEARS IN BUSINESS

Work Order Agreement

PROJECT / LOCATION SHELL TERMINAL SEATTLE , WA	Date 6/20/2022 0700-1215 (5.25) Report 1.	
CLIENT	GHD	LABOR HOURS W/REPORT/ HRS 6.25
WORK REQUESTED: UTILITY LOCATE-PRESCREENING AT FOUR PROPOSED MW LOCATIONS AROUND PUMP HOUSE. GENERATE REPORT.		
WORK PERFORMED		PRELIMINARY REVIEW OF CLIENT PROVIDED UTILITY DRAWINGS. NONE
VISUAL SITE INSPECTION (MANHOLES, DRAINS): SURFACE ONLY		EMPCL CONDUCTIVE UTILITY SURVEY: CHECK GAS: X ELECTRIC: X COMM.: X WATER: X
EMIMD METAL DETECTION SURVEY: EM AND MAG (LOW AMBIENT NOISE - HI SETTING = 7.5) GOOD		EM INSERTION : NF
GPR NON-CONDUCTIVE SURVEY: FAIR-GOOD RESPONSE. (POOR OVER SOME UTILITIES PIPING).		CLIENT ON-SITE REVIEW OF FINDINGS: YES

GENERAL LIMITATIONS

NOTE: The work described herein is performed to industry standards (or higher) using multiple methodology and QA/QC protocol. ULS cannot guarantee the accuracy or the ability to detect all underground facilities and potential interferences. Non-conductive or conductive utilities/facilities may not be detected due to variables and constraints beyond ULS control. Where known, constraints and limitations will be brought to the client's attention. Excavation work may result in injury to persons and/or damage to facilities. Client and/or excavator are advised to take all steps necessary to avoid contact with underground facilities. This includes, but is not limited to, safe digging practices, hand tooling in congested areas and within two feet on either side of marked utilities (distance may vary by law), utility drawing review, site facilities representative review, and "one-call" utilities notification. ULS and its representatives are not responsible for injury to persons or damage to facilities. This document and accompanying pages will be delivered to the client before commencement of intrusive work for the client's review. If any questions arise, please notify our office immediately.

NOTE: Specific comments/limitations/constraints, known and recognized will be recorded on attached pages (field notes). Caution – some facilities (conductive or non- conductive) may not be detected. Not all limitations and constraints may be recognized.

SIGNATURE OF ULS REPRESENTATIVE ON-SITE M BENEDICT	PAGE 1	OF
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ULS SERVICES CORPORATION



GEOMARKOUT LOCATING Co a tradename



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.....

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a trade name of ULS Services Corp

.....

SHELL OIL TERMINAL SEATTLE

PUMPHOUSE

6/20/2022

METHODS AND GENERAL OBSERVATIONS:

- COMPLETED HS MEETING AT FACILITY AND BEGAN MARKOUT WORK. MADE GENERAL SITE WALK TO REVIEW SURVEY AREAS. SITE IS MOSTLY GRAVEL AND SOIL..
- CHECKED FOR VALVES, METERS, AND CONDUITS, PIPING, TRENCHING SEAMS (SURFACE SCARS), VAULTS, AND USTS, OBSERVED EXISTING ONE CALL MARKOUTS. CHECKED AROUND CANOPY AND RACKS FOR UST, LINE AND VENT LAYOUT.

UTILIZED

- 1) **EM PIPE AND CABLE LOCATOR**
(USING AMBIENT, GROUND INDUCTION AND CONNECTION MODE SWEEPS)
- 2) **EM INDUCTION METAL DETECTOR**
(EMPCL TRANSMITTER BROADCAST AND EM INDUCTION BOTH HAVE GOOD SIGNAL)
- 3) **GPR** FAIR TO GOOD RESPONCE

SPECIFIC OBSERVATIONS AND COMMENTS OR CONCERNS:

SEE OBSERVATION COMMENTS TO RIGHT SIDE, ABOVE , BELOW AND PHOTOS BELOW.

X	VISUALS YES
X	ONECALL /DIG ALERT NEED TO CALL ?
X	ELECTRIC NUMEROUS PANELS TELEPHONE UNKNOWN
X	NAT GAS ***** NO METER ON SITE IN AREA. ALWAYS VERIFY WITH 811.
X	DOMESTIC AND OR FIRE WATER METER CAUTION WATER AND FIRE HYDRANT IN AREA HOWEVER NO RESPONSE OR DETECTION WITH EM OR GPR.
X	SEWER/STORM SEWER STORM DRAIN INLETS OBSERVED DO NOT APPEAR TO TREND INTO DIG ZONE.

GEOMARKOUT
a trade name of ULS Services Corp

SHELL TERMINAL PUMP HOUSE

SPECIFIC OBSERVATIONS AND NOTES:

⚠ SPECIAL NOTES CAUTION⚠ :

NUMEROUS ELECTRICAL CONDUITS IN AREA.

WATER NOT FOUND OR CONFIRMED.

USE SAFE DIG PRACTICE AT THIS SITE.

REFER TO PHOTOS

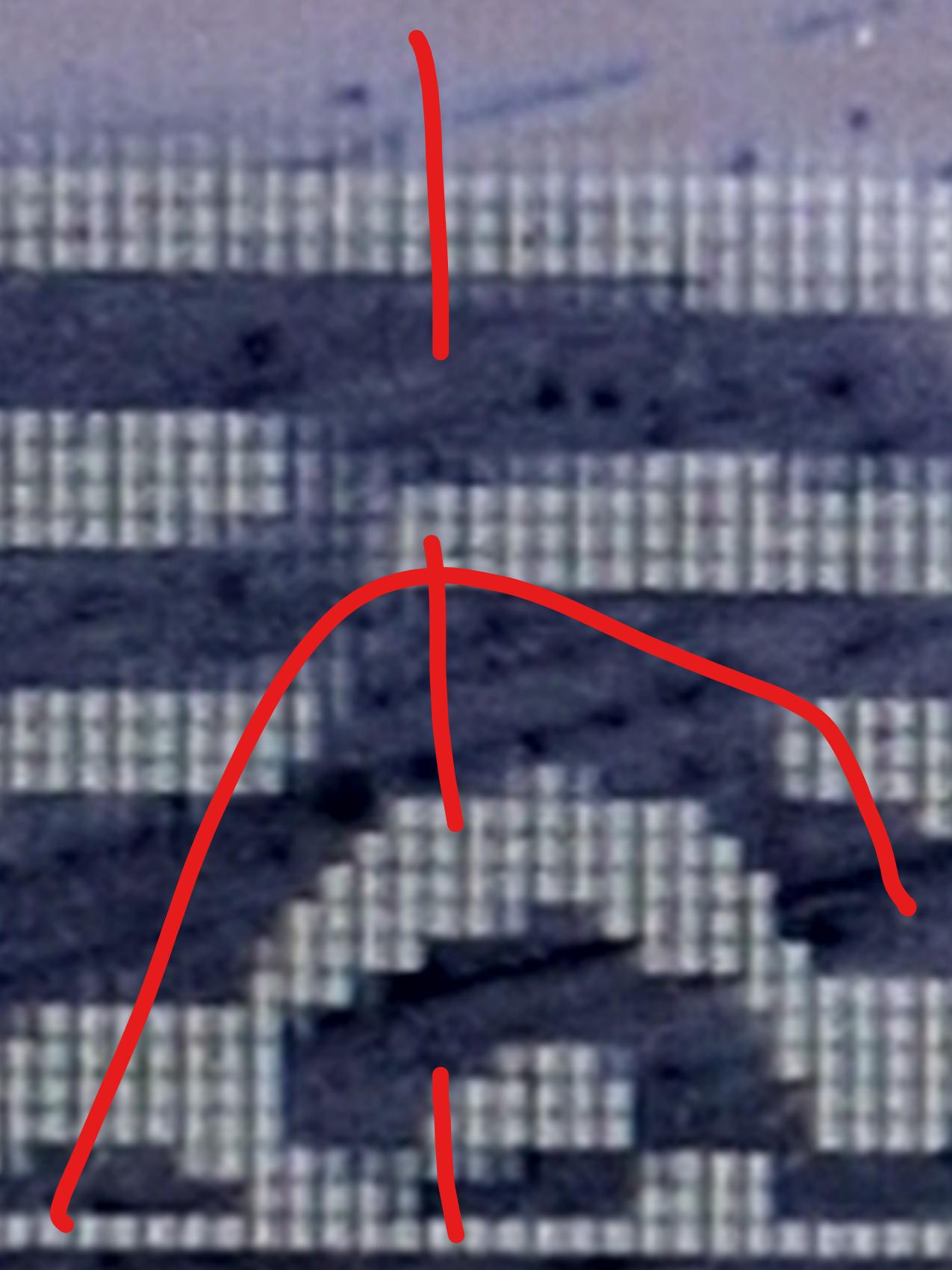
PROCEEED WITH CAUTION AND CARE AT THIS SITE.

END TEXT REPORT. PHOTOS BELOW.

THANK YOU

mwb 206 384-2857 m.geomarkout.com www.geomarkout.com

A
N



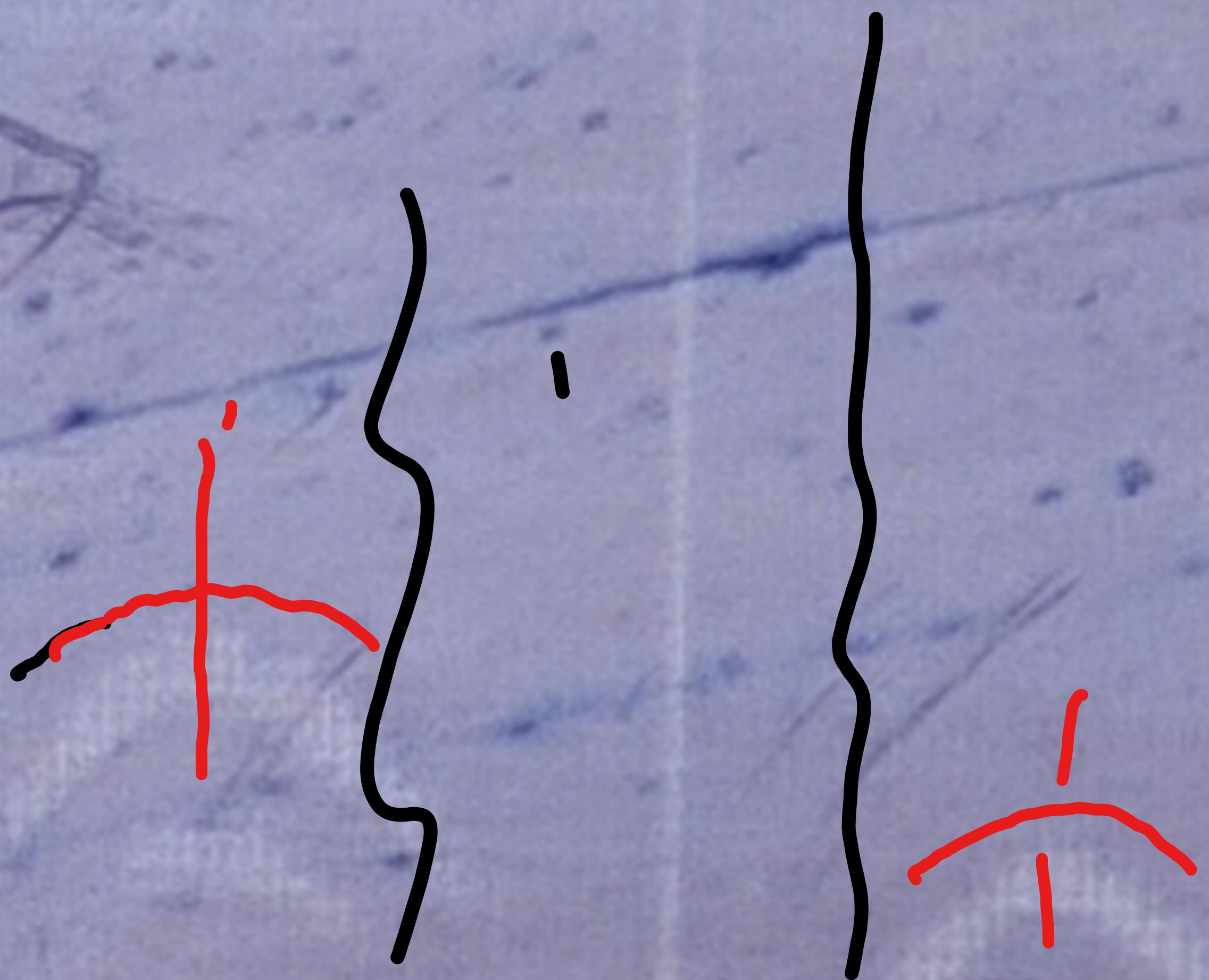
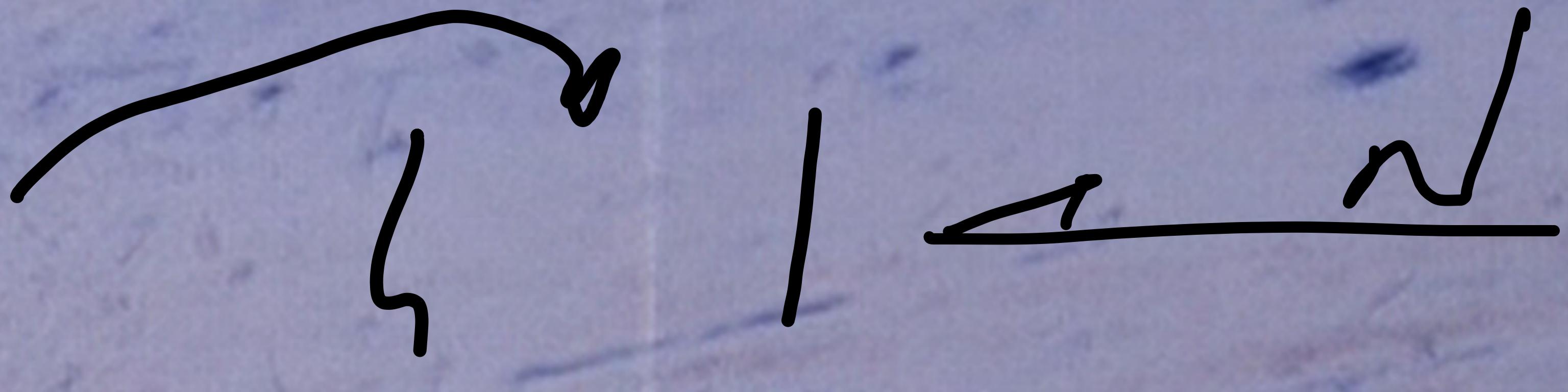
A
N

80 -



✓

WINDON
WHITE
SOX







window
box ↴





↗ North















A stack of four bags of "Rose Gold Sand" from Castle Sand & Gravel. The bags are white with blue text. The visible bag on the right has "ROSE GOLD SAND" at the top, followed by "1/2 CUFT.", and the brand name "castle" printed vertically along the bottom edge. The bags are resting on a dark surface next to a wooden structure.

A large, faint, chalky red or pink 'RECYCLE' message is written on a paved surface next to a curb. The word 'RECYCLE' is written in a bold, sans-serif font, with each letter having a distinct stroke. A small, circular arrow symbol is positioned to the right of the 'E'. The message is partially obscured by a dark, textured object, possibly a car tire, in the top right corner. To the left, there is a curb made of grey concrete and a layer of small, light-colored pebbles. The overall scene suggests an environmental message painted on a city street.

Appendix B

Boring Logs



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Shell Seattle Terminal

HOLE DESIGNATION: MW113

PROJECT NUMBER: 11218519

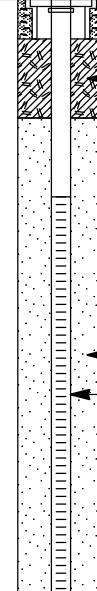
DATE COMPLETED: 22 June 2022

CLIENT: Shell

DRILLING METHOD: Direct Push

LOCATION: 2555 13th Avenue SW, Seattle, WA

FIELD PERSONNEL: Luca Piscitello

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	INTERVAL	REC (%)
2	SP-SAND, poorly graded, loose, brownish black, moist - slight odor from 5.00 to 6.00ft BGS	6.00		MW113		0.6
6	SP-SAND, poorly graded, loose, black, wet, strong odor - slight odor from 10.00 to 15.00ft BGS	6.00		MW113		0.7
10		15.00		MW113		2.8
15	END OF BOREHOLE @ 15.00ft BGS					24
16						14
20						8
24						1.0
26						0.4
28						
30						
32						
34						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Shell Seattle Terminal

HOLE DESIGNATION: MW114

PROJECT NUMBER: 11218519

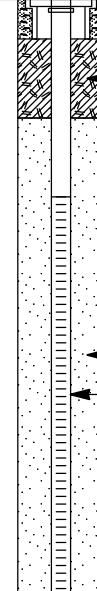
DATE COMPLETED: 22 June 2022

CLIENT: Shell

DRILLING METHOD: Direct Push

LOCATION: 2555 13th Avenue SW, Seattle, WA

FIELD PERSONNEL: Luca Piscitello

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	INTERVAL	REC (%)
				'N' Value	PID (ppm)	
2	GRAVEL, compacted ASPHALT SP-SAND, poorly graded, loose, black, moist, slight odor - wet, no odor at 6.00ft BGS	0.40 0.60		MW114		2.0
14	SM-SILTY SAND, loose, black, wet, no odor, intermittent silt layers at 13.5, 14.5ft BGS	13.00 15.00		MW114		58.2
16	END OF BOREHOLE @ 15.00ft BGS			MW114		22.1
18				MW114		2.0
20				MW114		7.0
22				MW114		2.0
24				MW114		1.0
26						
28						
30						
32						
34						
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE						
File: N:\\SSANTA ROSA\\PROJECTS\\56111218519\\TECH\\11218519-FIELD\\INT\\11218519-MI.GPJ Library File: GHD ENVIRO V04.GLB Report: OVERBURDEN LOG Date: 14/10/22						
CHEMICAL ANALYSIS 						

WELL DETAILS

Screened interval:
5.00 to 15.00ft BGS
Length: 10ft
Diameter: 2in
Slot Size: 0.010
Sand Pack:
3.00 to 15.00ft BGS
Material: #1020 Silica



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Shell Seattle Terminal

HOLE DESIGNATION: MW115

PROJECT NUMBER: 11218519

DATE COMPLETED: 22 June 2022

CLIENT: Shell

DRILLING METHOD: Direct Push

LOCATION: 2555 13th Avenue SW, Seattle, WA

FIELD PERSONNEL: Luca Piscitello

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	INTERVAL	REC (%)
2	ASPHALT SP-SAND, poorly graded, loose, brown/black, moist, no odor	0.50	Concrete Bentonite Chips	MW115		3.2
4	- strong odor at 5.00ft BGS					5.2
6	- strong odor, wet, sheen at 6.00ft BGS					103.8
8						70.0
10				MW115		55.0
12						40.0
14	SM-SILTY SAND, with wood chips, loose, black, wet, slight odor	13.50	Sand Pack Well Screen	MW115		23.0
16	END OF BOREHOLE @ 15.00ft BGS	15.00		MW115		14.0
18						5.0
20						1.0
22						
24						
26						
28						
30						
32						
34						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

Appendix C

Groundwater Field Sampling Logs

WELL GAUGING DATA

Project # 220627-LPS Date 6/27/22 Client GHD

Site SHELL HARBOR ISLAND TERMINAL

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-201	1002	2	—	—	—	—	14.06	21.54		
MW-202	0959	2	—	—	—	—	13.23	21.66		
MW-203	1008	2	—	—	—	—	7.02	14.08		
MW-204	0955	2	—	—	—	—	11.18	17.79		
MW-206A	1013	2	—	—	—	—	7.23	16.50		
MW-101	0852	2	—	—	—	—	11.22	20.13		
MW-102	0833	2	—	—	—	—	8.46	17.52		
MW-301	0919	2	odor	—	—	—	5.34	14.62		
MW-302	0911	2	—	—	—	—	5.68	14.99		
MW-303	0923	2	odor	—	—	—	5.38	14.69		
MW-304	0915	2	—	—	—	—	5.45	14.65		
MW-307	0841	2	—	—	—	—	8.61	17.31		
MW-308	0846	2	—	—	—	—	8.34	17.38		
MW-309	0927	2	—	—	—	—	5.51	14.65		
MW-310	0906	2	—	—	—	—	7.08	14.62		
MW-311	0946	2	—	—	—	—	7.69	14.96		
MW-312	0942	2	—	—	—	—	7.56	14.95	▼	

WELL GAUGING DATA

Project # 220627-LB1 Date 6/27/22 Client GHD

Site SHELL HARBOR ISLAND TERMINAL

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-313	0933	2	—	—	—	—	5.87	13.63		
MW-314	1503	2	—	—	—	—	6.93	14.81	*	
MW-315	0937	2	—	—	—	—	7.42	14.58		
TB-MH-1	0857	2	—	—	—	—	9.18	15.49		
TX-03A	1653	2	—	—	—	—	5.17	14.69		
MW-05	0810	2	—	—	—	—	5.73	18.89		
MW-111	0809	2	—	—	—	—	4.67	14.70		
MW-112A	1404	2	—	—	—	—	6.17	14.57		
SH-04	0822	2	—	—	—	—	9.33	18.06		
MW-104	0812	2	—	—	—	—	5.62	14.67		
MW-208	1026	2	—	—	—	—	5.02	13.63		
MW-210	1041	2	Y	6.06	0.15	—	6.21	—		
MW-211	1037	4	Y	—	—	—	5.28	12.94		
MW-212	1033	4	Y	—	—	—	5.90	11.33		
MW-213	1023	2	—	—	—	—	6.88	38.67		
MW-214	1028	2	—	—	—	—	7.74	39.48		
MW-113	0804	2	—	—	—	—	4.76	14.87		
MW-114	0755	2	—	—	—	—	5.03	14.92		
MW-115	0800	2	—	—	—	—	4.74	14.84	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #:	220627-LBI	Client:	GHD
Sampler:	LB	Gauging Date:	6/27/22
Well I.D.:	MW-113	Well Diameter (in.) :	(2) 3 4 6 8
Total Well Depth (ft.) :	14.87	Depth to Water (ft.) :	4.76
Depth to Free Product:		Thickness of Free Product (feet):	
Referenced to:	PVC	Grade	Flow Cell Type: YSL RZG DSS

Purge Method: 2" Grundfos Pump

Peristaltic Pump

Bladder Pump

Sampling Method: Dedicated Tubing

~~New Tubing~~

Other

Start Purge Time: 1218

Flow Rate: 200 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 m³)	Depth to Water (ft.)
1221	15.5	6.27	294	74	0.76	-32.7	600	4.83
1224	15.4	6.27	292	58	0.65	-35.9	1200	4.83
1227	15.5	6.26	286	40	0.57	-36.2	1800	4.83
1230	15.6	6.25	282	38	0.55	-35.8	2400	4.83
1233	15.5	6.26	284	37	0.55	-36.3	3000	4.83
1236	15.4	6.28	284	37	0.51	-38.4	3600	4.83

Did well dewater? Yes No

Amount actually evacuated: 3600 m³

Sampling Time: 1237

Sampling Date: 6/27/22

Sample I.D.: Mx-113

Laboratory: TA

Analyzed for:

TPH-G BTEX MTBE TPH-D

Other: SEE SEE

Equipment Blank I.D.:

Time

Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #:	220627-LB1	Client:	6HD
Sampler:	LB	Gauging Date:	6/27/22
Well I.D.:	MW-114	Well Diameter (in.) :	② 3 4 6 8
Total Well Depth (ft.) :	14.92	Depth to Water (ft.) :	5.03
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: 1141 Flow Rate: 200 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 m³)	Depth to Water (ft.)
1144	15.5	6.39	144	58	1.43	41.2	600	5.15
1147	15.4	6.28	142	38	1.28	46.6	1200	5.15
1150	15.4	6.19	141	32	1.24	49.2	1800	5.15
1153	15.3	6.17	140	32	1.28	49.6	2400	5.15
1156	15.4	6.16	140	33	1.30	52.2	3000	5.15
1159	15.4	6.16	139	33	1.32	53.6	3600	5.15

Did well dewater? Yes No Amount actually evacuated: 3600 mL

Sampling Time: 1200 Sampling Date: 6/27/22

Sample I.D.: MW-114 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other¹ SEE COC

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 220627-LBI	Client: 6HD
Sampler: LB	Gauging Date: 6/27/22
Well I.D.: MW-115	Well Diameter (in.) : <u>2</u> 3 4 6 8
Total Well Depth (ft.): 14.84	Depth to Water (ft.): 4.74
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC	Grade
Flow Cell Type: YSI ProDSS	

Purge Method: 2" Grundfos Pump

Sampling Method: Dedicated Tubing

Peristaltic Pump

New Tubing

Bladder Pump

Start Purge Time: 1108

Flow Rate: 200 mL/min

Pump Depth: 11'

Did well dewater? Yes

No.

Amount actually evacuated: 3000 m³

Sampling Time: 1/24

Sampling Date:

Sample I.D.: MW 115

Laboratory: TA

Analyzed for:

TPH-G BTEX MTBE TPH-D

Other: see see

Equipment Blank I.D.:

Time

Duplicate I.D.:

LAB (LOCATION)

<input type="checkbox"/> ACCUTEST	
<input type="checkbox"/> CALSCIENCE	
<input checked="" type="checkbox"/> TESTAMERICA	
<input type="checkbox"/> Other	
Lab Vendor #	Dropdown

Shell Oil Products US Chain Of Custody Record

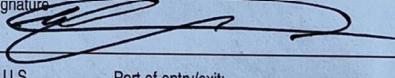
Please Check Appropriate Box:		Print Bill To Contact Name:		PlanNet Site or Project ID		<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES	
<input type="checkbox"/> SGW FOG	<input type="checkbox"/> PIPELINE	<input type="checkbox"/> RETAIL				DATE: <u>6/29/22</u>	PAGE: <u>1</u> of <u>3</u>
<input type="checkbox"/> CHEMICALS	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LIQUES					
<input type="checkbox"/> TRANSPORTATION	<input type="checkbox"/> OTHER		PO #	GSAP Project ID			
SAMPLING COMPANY: Blaine Tech Services, Inc		LOG CODE: BTSS	SITE ADDRESS: Street and City 2555 13th Avenue	State WA	GHD Project / Task Number: 11218519		
ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112		Jacquelyn England	EDD DELIVERABLE TO (Name, Company, Office Location): Jacquelyn England, GHD, Santa Rosa	PHONE NO.: (707)523-1010	E-MAIL: jacquelyn.england@ghd.com	AECOM Order ID <u>11218519</u>	LAB USE ONLY
PROJECT CONTACT (Handcopy or PDF Report #): TELEPHONE: (707)523-1010		FAX: Bill to Contact Email: jacquelyn.england@ghd.com	TURNAROUND TIME (CALENDAR DAYS): <input checked="" type="checkbox"/> STANDARD (14 DAY) <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 3 DAYS <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> RESULTS NEEDED <input type="checkbox"/> LA - RWQB REPORT FORMAT <input type="checkbox"/> UST AGENCY:	UNIT COST	REQUESTED ANALYSIS	FIELD NOTES:	
DELIVERABLES: TEMPERATURE ON RECEIPT °C		LEVEL 1 <input type="checkbox"/> LEVEL 2 <input type="checkbox"/> LEVEL 3 <input type="checkbox"/> LEVEL 4 <input type="checkbox"/> OTHER (SPECIFY) _____	6020A Diss. Iron & Manganese (lab filter) 6020B Total Sulfur 6020C Chloride 6020D Nitrate & Nitrite 6020E pH-GX 6260C BTX 6270D SIM PAHS 300.0 Surface	2220B Alkalinity 300.0 Chloride 353.2 Nitrate & Nitrite NWT-PH-GX	2220B Alkalinity 300.0 Chloride 353.2 Nitrate & Nitrite NWT-PH-GX	TEMPERATURE ON RECEIPT °C <u>3.1°C</u> <u>3.35°C</u> <u>Conn 100%</u>	
SPECIAL INSTRUCTIONS OR NOTES :		<input type="checkbox"/> SHELL CONTRACT RATE APPLIES <input type="checkbox"/> STATE REIMBURSEMENT RATE APPLIES <input type="checkbox"/> EDD NOT NEEDED <input type="checkbox"/> RECEIPT VERIFICATION REQUESTED <input type="checkbox"/> PROVIDE LEDD DISK					
LAB USE ONLY	Field Sample Identification	SAMPLING DATE	MATRIX TIME	PRESERVATIVE	NO. OF CONT.	Container PID Readings or Laboratory Notes	
MW-05	G/29/21 0821	W/G	6	HNO3 H2SO4 NONE OTHER	6	X X X X X X	
MW-104	G/29/21 0742	W/G	7		7	X X X X X X	
MW-111	G/29/21 1345	W/G	6		6	X X X X X X	
MW-112A	G/29/21 1412	W/G	6		6	X X X X X X	
MW-113	G/29/21 1723	W/G	6		6	X X X X X X	
MW-114	G/29/21 1200	W/G	6		6	X X X X X X	
MW-115	G/29/21 1124	W/G	6		6	X X X X X X	
MW-202	G/29/21 1038	W/G	6		6	X X X X X X	
MW-203	G/29/21 1131	W/G	6		6	X X X X X X	
MW-213	G/29/21 0908	W/G	6		6	X X X X X X	
Received by: (Signature) <u>Jacquelyn England</u>							
Relinquished by: (Signature) <u>Z</u>							
Relinquished by: (Signature) <u>Jacquelyn England</u>							
Relinquished by: (Signature) <u>Jacquelyn England</u>							
Relinquished by: (Signature) <u>Jacquelyn England</u>							
Date: <u>7/5/22</u> Time: <u>1450</u>							
Date: <u>7/5/22</u> Time: <u>1450</u>							
Date: <u>7/5/22</u> Time: <u>1450</u>							
Date: <u>7/5/22</u> Time: <u>1450</u>							

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME			PROJECT NUMBER			2200627-LB)	
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI ProDSS	RTS #2	6/27/22 09:15	pH 4.0 7.0 10.0 Cond 3510C	3.98 ✓ 7.02 ✓ 10.00 ✓ — 3900C ✓	— — — — —	20.3 20.4 20.4 — —	LB LB LB — —
YSI ProDSS	RTS #4	6/28/22 09:40	ORP 237.5 DO 100%	238.4V — 98.6%✓ —	— — — —	— — — —	LB LB LB —
YSI ProDSS	RTS #4	6/29/22 05:50	pH 4.0 7.0 10.0 Cond 3900C	4.01 ✓ 7.00 ✓ 9.99 ✓ 3901 ✓ —	— — — — —	20.4 20.5 20.4 — —	LB LB LB — —
YSI ProDSS	RTS #4	6/29/22 05:50	ORP 237.5 DO 100%	236.4V — 100.4%✓ —	— — — —	— — — —	LB LB LB —

Appendix D

Waste Manifest

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number Above Required - WA001684588	2. Page 1 of 1	3. Emergency Response Phone (866)812-9596-6HD	4. Waste Tracking Number HI-10112-01	
5. Generator's Name and Mailing Address Shell Oil Products US 6520 Corporate Drive Indianapolis, IN 46278 716-261-7339 Attn: Christian Boeve		Generator's Site Address if different than mailing address Shell Oil Products US 2555 13th Ave SW Seattle, WA 98134				
6. Transporter 1 Company Name DH Environmental, Inc.		U.S. EPA ID Number WAH000047217				
7. Transporter 2 Company Name Chemical Waste Management		U.S. EPA ID Number ORD089452353				
8. Designated Facility Name and Site Address Chemical Waste Management 17629 Cedar Springs Lane Arlington, OR 97312 (503)454-2643		U.S. EPA ID Number ORD089452353				
Facility's Phone:						
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
1. Non-DOT Regulated/Non-Hazardous Waste (Soil)		No.	Type			
003 DM 1700 P						
2. Non-DOT Regulated/Non-Hazardous Waste (Water)						
001 DM 50 G						
3.						
4.						
13. Special Handling Instructions and Additional Information 1) Profile-OR 352131 RWR-009801 2) Profile-OR 352132 RWR-009803						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offeror's Printed/Typed Name Nicholas Adamowski Employed by DH on behalf of Shell oil products US		Signature 		Month	Day	Year
15. International Shipments		<input type="checkbox"/> Import to U.S.	<input type="checkbox"/> Export from U.S.	Port of entry/exit:		
Transporter Signature (for exports only):		Date leaving U.S.:				
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Jacob Briere		Signature 		Month	Day	Year
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
17. Discrepancy						
17a. Discrepancy Indication Space		<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection
Manifest Reference Number:						
17b. Alternate Facility (or Generator)		U.S. EPA ID Number				
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name		Signature		Month	Day	Year

Appendix E

Groundwater Laboratory Analytical Reports



Environment Testing
America



ANALYTICAL REPORT

Eurofins Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-17941-1

Client Project/Site: 2555 13th Avenue, Seattle WA

For:

GHD Services Inc.
2235 Mercury Way
Suite 150
Santa Rosa, California 95407

Attn: Jacquelyn England

Roxanne Cisneros

Authorized for release by:

7/19/2022 8:44:38 AM

Roxanne Cisneros, Senior Project Manager

(615)301-5761

roxanne.cisneros@et.eurofinsus.com

Designee for

Tracy Dutton, Client Relations Manager

(253)248-4970

Tracy.Dutton@et.eurofinsus.com

LINKS

Review your project
results through



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.

1
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Case Narrative

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Job ID: 590-17941-1

Laboratory: Eurofins Spokane

Narrative

Job Narrative 590-17941-1

Comments

No additional comments.

Receipt

The samples were received on 7/5/2022 2:53 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 3.1° C and 3.3° C.

GC/MS VOA

Method NWTPH-Gx: The continuing calibration verification (CCV) associated with batch 590-36945 recovered above the upper control limit for TPH as Gasoline. The samples associated with this CCV were either non-detects or detected below the reporting limit 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.

GC/MS Semi VOA

Method 8270E SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 590-36918 and analytical batch 590-36915 recovered outside control limits for the following analytes: Benzo[b]fluoranthene.

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 in the diesel range appear to be due to gasoline overlap. MW-104 (590-17941-2) and MW-112A (590-17941-4)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to weathered diesel. MW-113 (590-17941-5), MW-114 (590-17941-6), MW-115 (590-17941-7) and SH-04 (590-17941-25)

Method NWTPH-Dx: Detected hydrocarbons appear to be due to a complex mixture of gasoline, weathered diesel and possible biogenic interference. MW-202 (590-17941-8)

Method NWTPH-Dx: Detected hydrocarbons appear to be due to oil as well as possible biogenic interference. MW-203 (590-17941-9)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel and/or possible biogenic interference. SH-04 (590-17941-25)

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

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: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
590-17941-1	MW-05	Water	06/29/22 08:21	07/05/22 14:53	1
590-17941-2	MW-104	Water	06/29/22 07:42	07/05/22 14:53	2
590-17941-3	MW-111	Water	06/27/22 13:46	07/05/22 14:53	3
590-17941-4	MW-112A	Water	06/28/22 14:26	07/05/22 14:53	4
590-17941-5	MW-113	Water	06/27/22 12:37	07/05/22 14:53	5
590-17941-6	MW-114	Water	06/27/22 12:00	07/05/22 14:53	6
590-17941-7	MW-115	Water	06/27/22 11:24	07/05/22 14:53	7
590-17941-8	MW-202	Water	06/29/22 10:38	07/05/22 14:53	8
590-17941-9	MW-203	Water	06/28/22 11:31	07/05/22 14:53	9
590-17941-10	MW-213	Water	06/29/22 09:08	07/05/22 14:53	10
590-17941-11	MW-214	Water	06/29/22 09:45	07/05/22 14:53	11
590-17941-12	MW-301	Water	06/28/22 10:27	07/05/22 14:53	12
590-17941-13	MW-302	Water	06/28/22 09:14	07/05/22 14:53	
590-17941-14	MW-303	Water	06/28/22 08:11	07/05/22 14:53	
590-17941-15	MW-304	Water	06/28/22 08:45	07/05/22 14:53	
590-17941-16	MW-307	Water	06/29/22 11:48	07/05/22 14:53	
590-17941-17	MW-308	Water	06/29/22 12:21	07/05/22 14:53	
590-17941-18	MW-309	Water	06/28/22 10:55	07/05/22 14:53	
590-17941-19	MW-310	Water	06/28/22 09:45	07/05/22 14:53	
590-17941-20	MW-311	Water	06/28/22 15:02	07/05/22 14:53	
590-17941-21	MW-312	Water	06/29/22 11:15	07/05/22 14:53	
590-17941-22	MW-313	Water	06/28/22 12:35	07/05/22 14:53	
590-17941-23	MW-314	Water	06/28/22 15:26	07/05/22 14:53	
590-17941-24	MW-315	Water	06/28/22 12:03	07/05/22 14:53	
590-17941-25	SH-04	Water	06/28/22 13:55	07/05/22 14:53	
590-17941-26	TX-03A	Water	06/28/22 15:54	07/05/22 14:53	
590-17941-27	TB-1	Water	06/27/22 08:00	07/05/22 14:53	

Definitions/Glossary

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

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
*1	LCS/LCSD 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.

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.

Metals

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: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-05

Date Collected: 06/29/22 08:21

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-1

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			07/07/22 15:52	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/07/22 15:52	1
Toluene	ND		1.00	0.312	ug/L			07/07/22 15:52	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/07/22 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		07/07/22 15:52	1
Dibromofluoromethane (Surr)	110		80 - 120		07/07/22 15:52	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		07/07/22 15:52	1
Toluene-d8 (Surr)	98		80 - 120		07/07/22 15:52	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	30.5	ug/L			07/07/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141					07/07/22 15:52	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		243	111	ug/L		07/08/22 11:15	07/08/22 14:46	1
RRO (C25-C36)	ND		405	121	ug/L		07/08/22 11:15	07/08/22 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		50 - 150				07/08/22 11:15	07/08/22 14:46	1
<i>n</i> -Triaccontane-d62	87		50 - 150				07/08/22 11:15	07/08/22 14:46	1

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-104

Date Collected: 06/29/22 07:42

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-2

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			07/07/22 16:36	1
Ethylbenzene	1.06		1.00	0.198	ug/L			07/07/22 16:36	1
Toluene	ND		1.00	0.312	ug/L			07/07/22 16:36	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/07/22 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		07/07/22 16:36	1
Dibromofluoromethane (Surr)	109		80 - 120		07/07/22 16:36	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		07/07/22 16:36	1
Toluene-d8 (Surr)	99		80 - 120		07/07/22 16:36	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	648		150	30.5	ug/L			07/07/22 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		68.7 - 141					07/07/22 16:36	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	381		248	114	ug/L		07/08/22 11:15	07/08/22 15:06	1
RRO (C25-C36)	ND		413	124	ug/L		07/08/22 11:15	07/08/22 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		50 - 150				07/08/22 11:15	07/08/22 15:06	1
<i>n</i> -Triacantane-d62	85		50 - 150				07/08/22 11:15	07/08/22 15:06	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		07/12/22 18:34	07/18/22 13:20	1

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-111

Date Collected: 06/27/22 13:46

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-3

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.74		0.400	0.0930	ug/L			07/07/22 18:02	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/07/22 18:02	1
Toluene	ND		1.00	0.312	ug/L			07/07/22 18:02	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/07/22 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		07/07/22 18:02	1
Dibromofluoromethane (Surr)	106		80 - 120		07/07/22 18:02	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/07/22 18:02	1
Toluene-d8 (Surr)	99		80 - 120		07/07/22 18:02	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	110	J	150	30.5	ug/L			07/08/22 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		68.7 - 141					07/08/22 12:16	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	118	J	241	111	ug/L		07/08/22 11:15	07/08/22 15:27	1
RRO (C25-C36)	ND		402	121	ug/L		07/08/22 11:15	07/08/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		50 - 150				07/08/22 11:15	07/08/22 15:27	1
<i>n</i> -Triaccontane-d62	91		50 - 150				07/08/22 11:15	07/08/22 15:27	1

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-112A

Date Collected: 06/28/22 14:26

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-4

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.39		0.400	0.0930	ug/L			07/07/22 18:23	1
Ethylbenzene	10.6		1.00	0.198	ug/L			07/07/22 18:23	1
Toluene	0.935	J	1.00	0.312	ug/L			07/07/22 18:23	1
Xylenes, Total	2.63	J	3.00	0.442	ug/L			07/07/22 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		07/07/22 18:23	1
Dibromofluoromethane (Surr)	105		80 - 120		07/07/22 18:23	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		07/07/22 18:23	1
Toluene-d8 (Surr)	93		80 - 120		07/07/22 18:23	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1260		150	30.5	ug/L			07/08/22 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		68.7 - 141					07/08/22 12:38	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	675		244	112	ug/L		07/08/22 11:15	07/08/22 15:47	1
RRO (C25-C36)	ND		407	122	ug/L		07/08/22 11:15	07/08/22 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86		50 - 150				07/08/22 11:15	07/08/22 15:47	1
<i>n</i> -Triaccontane-d62	101		50 - 150				07/08/22 11:15	07/08/22 15:47	1

Eurofins Spokane

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-113

Date Collected: 06/27/22 12:37

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-5

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	156		40.0	9.30	ug/L			07/08/22 13:00	100
Ethylbenzene	4.05		1.00	0.198	ug/L			07/07/22 18:45	1
Toluene	5.22		1.00	0.312	ug/L			07/07/22 18:45	1
Xylenes, Total	5.40		3.00	0.442	ug/L			07/07/22 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		07/07/22 18:45	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/08/22 13:00	100
Dibromofluoromethane (Surr)	109		80 - 120		07/07/22 18:45	1
Dibromofluoromethane (Surr)	112		80 - 120		07/08/22 13:00	100
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		07/07/22 18:45	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/08/22 13:00	100
Toluene-d8 (Surr)	100		80 - 120		07/07/22 18:45	1
Toluene-d8 (Surr)	97		80 - 120		07/08/22 13:00	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		15000	3050	ug/L			07/08/22 13:00	100
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	94		68.7 - 141		07/08/22 13:00	100			

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	933		241	110	ug/L		07/08/22 11:15	07/08/22 16:07	1
RRO (C25-C36)	156	J	402	121	ug/L		07/08/22 11:15	07/08/22 16:07	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	77		50 - 150	07/08/22 11:15	07/08/22 16:07	1			
<i>n</i> -Triaccontane-d62	85		50 - 150	07/08/22 11:15	07/08/22 16:07	1			

Eurofins Spokane

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-114

Date Collected: 06/27/22 12:00

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-6

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			07/07/22 19:06	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/07/22 19:06	1
Toluene	ND		1.00	0.312	ug/L			07/07/22 19:06	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/07/22 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		07/07/22 19:06	1
Dibromofluoromethane (Surr)	110		80 - 120		07/07/22 19:06	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		07/07/22 19:06	1
Toluene-d8 (Surr)	100		80 - 120		07/07/22 19:06	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	30.5	ug/L			07/07/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		68.7 - 141				07/07/22 19:06		1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	413		247	113	ug/L		07/08/22 11:15	07/08/22 16:27	1
RRO (C25-C36)	160	J		412	ug/L		07/08/22 11:15	07/08/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150				07/08/22 11:15	07/08/22 16:27	1
<i>n</i> -Triaccontane-d62	90		50 - 150				07/08/22 11:15	07/08/22 16:27	1

Eurofins Spokane

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-115

Date Collected: 06/27/22 11:24

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-7

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			07/07/22 19:27	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/07/22 19:27	1
Toluene	ND		1.00	0.312	ug/L			07/07/22 19:27	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/07/22 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		07/07/22 19:27	1
Dibromofluoromethane (Surr)	110		80 - 120		07/07/22 19:27	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		07/07/22 19:27	1
Toluene-d8 (Surr)	97		80 - 120		07/07/22 19:27	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	372		150	30.5	ug/L			07/08/22 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		68.7 - 141					07/08/22 13:22	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	4930		246	113	ug/L		07/08/22 11:15	07/08/22 17:07	1
RRO (C25-C36)	240	J	410	123	ug/L		07/08/22 11:15	07/08/22 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	101		50 - 150				07/08/22 11:15	07/08/22 17:07	1
<i>n</i> -Triaccontane-d62	102		50 - 150				07/08/22 11:15	07/08/22 17:07	1

Eurofins Spokane

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-202

Date Collected: 06/29/22 10:38

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-8

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	3330		150	30.5	ug/L			07/08/22 13:44	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		91		68.7 - 141				07/08/22 13:44	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	2840		241	111	ug/L		07/08/22 11:15	07/08/22 17:27	1
RRO (C25-C36)	1090		402	121	ug/L		07/08/22 11:15	07/08/22 17:27	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		77		50 - 150			07/08/22 11:15	07/08/22 17:27	1
<i>n-Triacontane-d62</i>		88		50 - 150			07/08/22 11:15	07/08/22 17:27	1

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-203

Date Collected: 06/28/22 11:31

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-9

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	34.3	J	150	30.5	ug/L			07/07/22 20:10	1
Surrogate									
4-Bromofluorobenzene (Surr)	89		68.7 - 141				Prepared	Analyzed	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	645		245	113	ug/L		07/08/22 11:15	07/08/22 17:47	1
RRO (C25-C36)	1560		409	123	ug/L		07/08/22 11:15	07/08/22 17:47	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	91		50 - 150				07/08/22 11:15	07/08/22 17:47	1
<i>n-Triacontane-d62</i>	104		50 - 150				07/08/22 11:15	07/08/22 17:47	1

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-213

Lab Sample ID: 590-17941-10

Matrix: Water

Date Collected: 06/29/22 09:08

Date Received: 07/05/22 14:53

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			07/07/22 20:31	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/07/22 20:31	1
Toluene	ND		1.00	0.312	ug/L			07/07/22 20:31	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/07/22 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		07/07/22 20:31	1
Dibromofluoromethane (Surr)	111		80 - 120		07/07/22 20:31	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		07/07/22 20:31	1
Toluene-d8 (Surr)	98		80 - 120		07/07/22 20:31	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	30.5	ug/L			07/07/22 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		68.7 - 141		07/07/22 20:31	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		07/06/22 11:22	07/06/22 14:21	1
Benzo[a]pyrene	ND		0.0905	0.0121	ug/L		07/06/22 11:22	07/06/22 14:21	1
Benzo[b]fluoranthene	ND *1		0.0905	0.0252	ug/L		07/06/22 11:22	07/06/22 14:21	1
Benzo[k]fluoranthene	ND *1		0.0905	0.0151	ug/L		07/06/22 11:22	07/06/22 14:21	1
Chrysene	ND		0.0905	0.0101	ug/L		07/06/22 11:22	07/06/22 14:21	1
Dibenz(a,h)anthracene	ND		0.0905	0.0131	ug/L		07/06/22 11:22	07/06/22 14:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0905	0.0221	ug/L		07/06/22 11:22	07/06/22 14:21	1
1-Methylnaphthalene	0.0494 J		0.0905	0.0231	ug/L		07/06/22 11:22	07/06/22 14:21	1
2-Methylnaphthalene	ND		0.0905	0.0443	ug/L		07/06/22 11:22	07/06/22 14:21	1
Naphthalene	ND		0.0905	0.0533	ug/L		07/06/22 11:22	07/06/22 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		50 - 120		07/06/22 11:22	07/06/22 14:21
p-Terphenyl-d14	71		51 - 121		07/06/22 11:22	07/06/22 14:21

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	163 J		285	131	ug/L		07/08/22 11:15	07/08/22 18:07	1
RRO (C25-C36)	ND		475	143	ug/L		07/08/22 11:15	07/08/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	86		50 - 150		07/08/22 11:15	07/08/22 18:07
n-Triacontane-d62	98		50 - 150		07/08/22 11:15	07/08/22 18:07

Eurofins Spokane

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-214

Date Collected: 06/29/22 09:45

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-11

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			07/07/22 21:13	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/07/22 21:13	1
Toluene	ND		1.00	0.312	ug/L			07/07/22 21:13	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/07/22 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		07/07/22 21:13	1
Dibromofluoromethane (Surr)	107		80 - 120		07/07/22 21:13	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		07/07/22 21:13	1
Toluene-d8 (Surr)	104		80 - 120		07/07/22 21:13	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	30.5	ug/L			07/07/22 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		68.7 - 141					07/07/22 21:13	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		0.0910	0.0121	ug/L			07/06/22 11:22	07/06/22 14:44
Benzo[a]pyrene	0.0123 J		0.0910	0.0121	ug/L			07/06/22 11:22	07/06/22 14:44
Benzo[b]fluoranthene	ND *1		0.0910	0.0253	ug/L			07/06/22 11:22	07/06/22 14:44
Benzo[k]fluoranthene	ND *1		0.0910	0.0152	ug/L			07/06/22 11:22	07/06/22 14:44
Chrysene	0.0148 J		0.0910	0.0101	ug/L			07/06/22 11:22	07/06/22 14:44
Diben(a,h)anthracene	ND		0.0910	0.0131	ug/L			07/06/22 11:22	07/06/22 14:44
Indeno[1,2,3-cd]pyrene	ND		0.0910	0.0222	ug/L			07/06/22 11:22	07/06/22 14:44
1-Methylnaphthalene	0.0272 J		0.0910	0.0233	ug/L			07/06/22 11:22	07/06/22 14:44
2-Methylnaphthalene	ND		0.0910	0.0445	ug/L			07/06/22 11:22	07/06/22 14:44
Naphthalene	ND		0.0910	0.0536	ug/L			07/06/22 11:22	07/06/22 14:44
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		50 - 120					07/06/22 11:22	07/06/22 14:44
p-Terphenyl-d14	81		51 - 121					07/06/22 11:22	07/06/22 14:44

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	181 J		244	112	ug/L			07/08/22 11:15	07/08/22 18:27
RRO (C25-C36)	135 J		407	122	ug/L			07/08/22 11:15	07/08/22 18:27
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150					07/08/22 11:15	07/08/22 18:27
n-Triacontane-d62	92		50 - 150					07/08/22 11:15	07/08/22 18:27

Eurofins Spokane

Client Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Client Sample ID: MW-301

Lab Sample ID: 590-17941-12

Matrix: Water

Date Collected: 06/28/22 10:27

Date Received: 07/05/22 14:53

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	21.5		0.400	0.0930	ug/L			07/07/22 21:35	1
Ethylbenzene	3.16		1.00	0.198	ug/L			07/07/22 21:35	1
Toluene	0.854 J		1.00	0.312	ug/L			07/07/22 21:35	1
Xylenes, Total	0.735 J		3.00	0.442	ug/L			07/07/22 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		07/07/22 21:35	1
Dibromofluoromethane (Surr)	106		80 - 120		07/07/22 21:35	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		07/07/22 21:35	1
Toluene-d8 (Surr)	98		80 - 120		07/07/22 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	478		150	30.5	ug/L			07/08/22 14:06	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	95		68.7 - 141		07/08/22 14:06	1			

Eurofins Spokane

Client Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Client Sample ID: MW-302

Lab Sample ID: 590-17941-13

Matrix: Water

Date Collected: 06/28/22 09:14

Date Received: 07/05/22 14:53

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.82		0.400	0.0930	ug/L			07/07/22 21:56	1
Ethylbenzene	21.4		1.00	0.198	ug/L			07/07/22 21:56	1
Toluene	0.505	J	1.00	0.312	ug/L			07/07/22 21:56	1
Xylenes, Total	4.56		3.00	0.442	ug/L			07/07/22 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		07/07/22 21:56	1
Dibromofluoromethane (Surr)	107		80 - 120		07/07/22 21:56	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		07/07/22 21:56	1
Toluene-d8 (Surr)	97		80 - 120		07/07/22 21:56	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	414		150	30.5	ug/L			07/08/22 14:28	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	98		68.7 - 141		07/08/22 14:28	1			

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-303

Date Collected: 06/28/22 08:11

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-14

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	107		4.00	0.930	ug/L			07/08/22 14:50	10
Ethylbenzene	27.2		1.00	0.198	ug/L			07/07/22 22:17	1
Toluene	3.03		1.00	0.312	ug/L			07/07/22 22:17	1
Xylenes, Total	9.22		3.00	0.442	ug/L			07/07/22 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		07/07/22 22:17	1
4-Bromofluorobenzene (Surr)	93		80 - 120		07/08/22 14:50	10
Dibromofluoromethane (Surr)	107		80 - 120		07/07/22 22:17	1
Dibromofluoromethane (Surr)	105		80 - 120		07/08/22 14:50	10
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		07/07/22 22:17	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		07/08/22 14:50	10
Toluene-d8 (Surr)	98		80 - 120		07/07/22 22:17	1
Toluene-d8 (Surr)	102		80 - 120		07/08/22 14:50	10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2250		1500	305	ug/L			07/08/22 14:50	10
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	93		68.7 - 141		07/08/22 14:50	10			

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Client Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Client Sample ID: MW-304

Lab Sample ID: 590-17941-15

Matrix: Water

Date Collected: 06/28/22 08:45

Date Received: 07/05/22 14:53

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16.9		0.400	0.0930	ug/L			07/07/22 22:38	1
Ethylbenzene	3.18		1.00	0.198	ug/L			07/07/22 22:38	1
Toluene	0.903	J	1.00	0.312	ug/L			07/07/22 22:38	1
Xylenes, Total	1.12	J	3.00	0.442	ug/L			07/07/22 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		07/07/22 22:38	1
Dibromofluoromethane (Surr)	100		80 - 120		07/07/22 22:38	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		07/07/22 22:38	1
Toluene-d8 (Surr)	101		80 - 120		07/07/22 22:38	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	549		150	30.5	ug/L			07/08/22 15:55	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	96		68.7 - 141		07/08/22 15:55	1			

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-307

Date Collected: 06/29/22 11:48

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-16

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	149		40.0	9.30	ug/L			07/12/22 13:45	100
Ethylbenzene	176		100	19.8	ug/L			07/12/22 13:45	100
Toluene	31.8		1.00	0.312	ug/L			07/08/22 16:17	1
Xylenes, Total	158	J	300	44.2	ug/L			07/12/22 13:45	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		07/08/22 16:17	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/12/22 13:45	100
Dibromofluoromethane (Surr)	94		80 - 120		07/08/22 16:17	1
Dibromofluoromethane (Surr)	94		80 - 120		07/12/22 13:45	100
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		07/08/22 16:17	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		07/12/22 13:45	100
Toluene-d8 (Surr)	102		80 - 120		07/08/22 16:17	1
Toluene-d8 (Surr)	107		80 - 120		07/12/22 13:45	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2870		150	30.5	ug/L			07/08/22 16:17	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	101		68.7 - 141		07/08/22 16:17	1			
4-Bromofluorobenzene (Surr)	101		68.7 - 141		07/12/22 13:45	100			

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	4020		246	113	ug/L		07/08/22 11:15	07/08/22 18:48	1
RRO (C25-C36)	330	J	411	123	ug/L		07/08/22 11:15	07/08/22 18:48	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	78		50 - 150		07/08/22 11:15	07/08/22 18:48	1		
<i>n</i> -Triaccontane-d62	89		50 - 150		07/08/22 11:15	07/08/22 18:48	1		

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-308

Date Collected: 06/29/22 12:21

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-17

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			07/08/22 17:01	1
Ethylbenzene	0.281	J	1.00	0.198	ug/L			07/08/22 17:01	1
Toluene	ND		1.00	0.312	ug/L			07/08/22 17:01	1
Xylenes, Total	0.485	J	3.00	0.442	ug/L			07/08/22 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		07/08/22 17:01	1
Dibromofluoromethane (Surr)	105		80 - 120		07/08/22 17:01	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		07/08/22 17:01	1
Toluene-d8 (Surr)	98		80 - 120		07/08/22 17:01	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	54.5	J	150	30.5	ug/L			07/08/22 17:01	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	92		68.7 - 141		07/08/22 17:01	1			

Client Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Client Sample ID: MW-309

Lab Sample ID: 590-17941-18

Matrix: Water

Date Collected: 06/28/22 10:55

Date Received: 07/05/22 14:53

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			07/08/22 17:23	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/08/22 17:23	1
Toluene	ND		1.00	0.312	ug/L			07/08/22 17:23	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/08/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		07/08/22 17:23	1
Dibromofluoromethane (Surr)	106		80 - 120		07/08/22 17:23	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/08/22 17:23	1
Toluene-d8 (Surr)	96		80 - 120		07/08/22 17:23	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	108	J	150	30.5	ug/L			07/08/22 17:23	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	96		68.7 - 141		07/08/22 17:23	1			

Client Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Client Sample ID: MW-310

Lab Sample ID: 590-17941-19

Matrix: Water

Date Collected: 06/28/22 09:45

Date Received: 07/05/22 14:53

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	39.2		0.400	0.0930	ug/L			07/08/22 18:28	1
Ethylbenzene	17.9		1.00	0.198	ug/L			07/08/22 18:28	1
Toluene	0.966	J	1.00	0.312	ug/L			07/08/22 18:28	1
Xylenes, Total	5.50		3.00	0.442	ug/L			07/08/22 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		07/08/22 18:28	1
Dibromofluoromethane (Surr)	104		80 - 120		07/08/22 18:28	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		07/08/22 18:28	1
Toluene-d8 (Surr)	103		80 - 120		07/08/22 18:28	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	924		150	30.5	ug/L			07/08/22 18:28	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	96		68.7 - 141		07/08/22 18:28	1			

Client Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Client Sample ID: MW-311

Lab Sample ID: 590-17941-20

Date Collected: 06/28/22 15:02

Matrix: Water

Date Received: 07/05/22 14:53

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.53		0.400	0.0930	ug/L			07/08/22 18:50	1
Ethylbenzene	0.596	J	1.00	0.198	ug/L			07/08/22 18:50	1
Toluene	3.49		1.00	0.312	ug/L			07/08/22 18:50	1
Xylenes, Total	0.644	J	3.00	0.442	ug/L			07/08/22 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		07/08/22 18:50	1
Dibromofluoromethane (Surr)	100		80 - 120		07/08/22 18:50	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/08/22 18:50	1
Toluene-d8 (Surr)	98		80 - 120		07/08/22 18:50	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2050		150	30.5	ug/L			07/08/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	97		68.7 - 141		07/08/22 18:50	1			

Client Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Client Sample ID: MW-312

Lab Sample ID: 590-17941-21

Matrix: Water

Date Collected: 06/29/22 11:15

Date Received: 07/05/22 14:53

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	35.8		0.400	0.0930	ug/L			07/08/22 19:12	1
Ethylbenzene	2.30		1.00	0.198	ug/L			07/08/22 19:12	1
Toluene	2.69		1.00	0.312	ug/L			07/08/22 19:12	1
Xylenes, Total	2.05	J	3.00	0.442	ug/L			07/08/22 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		07/08/22 19:12	1
Dibromofluoromethane (Surr)	100		80 - 120		07/08/22 19:12	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		07/08/22 19:12	1
Toluene-d8 (Surr)	101		80 - 120		07/08/22 19:12	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2280		150	30.5	ug/L			07/08/22 19:12	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	100		68.7 - 141		07/08/22 19:12	1			

Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-313

Date Collected: 06/28/22 12:35

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-22

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			07/08/22 19:55	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/08/22 19:55	1
Toluene	ND		1.00	0.312	ug/L			07/08/22 19:55	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/08/22 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		07/08/22 19:55	1
Dibromofluoromethane (Surr)	106		80 - 120		07/08/22 19:55	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		07/08/22 19:55	1
Toluene-d8 (Surr)	101		80 - 120		07/08/22 19:55	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	30.5	ug/L			07/08/22 19:55	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	94		68.7 - 141		07/08/22 19:55	1			

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	177	J	247	113	ug/L		07/08/22 11:15	07/08/22 19:08	1
RRO (C25-C36)	140	J		411	ug/L		07/08/22 11:15	07/08/22 19:08	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	84		50 - 150		07/08/22 11:15	07/08/22 19:08	1		
<i>n</i> -Triaccontane-d62	99		50 - 150		07/08/22 11:15	07/08/22 19:08	1		

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-314

Date Collected: 06/28/22 15:26

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-23

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			07/08/22 20:17	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/08/22 20:17	1
Toluene	0.346	J	1.00	0.312	ug/L			07/08/22 20:17	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/08/22 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		07/08/22 20:17	1
Dibromofluoromethane (Surr)	106		80 - 120		07/08/22 20:17	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		07/08/22 20:17	1
Toluene-d8 (Surr)	93		80 - 120		07/08/22 20:17	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	253		150	30.5	ug/L			07/08/22 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		68.7 - 141					07/08/22 20:17	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	936		242	111	ug/L		07/08/22 11:15	07/08/22 19:28	1
RRO (C25-C36)	166	J	404	121	ug/L		07/08/22 11:15	07/08/22 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	82		50 - 150				07/08/22 11:15	07/08/22 19:28	1
<i>n-Triacontane-d62</i>	95		50 - 150				07/08/22 11:15	07/08/22 19:28	1

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-315

Date Collected: 06/28/22 12:03

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-24

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17.7		0.400	0.0930	ug/L			07/08/22 20:38	1
Ethylbenzene	0.548	J	1.00	0.198	ug/L			07/08/22 20:38	1
Toluene	3.82		1.00	0.312	ug/L			07/08/22 20:38	1
Xylenes, Total	2.84	J	3.00	0.442	ug/L			07/08/22 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		07/08/22 20:38	1
Dibromofluoromethane (Surr)	104		80 - 120		07/08/22 20:38	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		07/08/22 20:38	1
Toluene-d8 (Surr)	93		80 - 120		07/08/22 20:38	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2370		150	30.5	ug/L			07/08/22 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141					07/08/22 20:38	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	2310		244	112	ug/L		07/08/22 11:15	07/08/22 19:49	1
RRO (C25-C36)	207	J	407	122	ug/L		07/08/22 11:15	07/08/22 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		50 - 150				07/08/22 11:15	07/08/22 19:49	1
<i>n</i> -Triaccontane-d62	93		50 - 150				07/08/22 11:15	07/08/22 19:49	1

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: SH-04

Date Collected: 06/28/22 13:55

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-25

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11.7		0.400	0.0930	ug/L			07/08/22 21:00	1
Ethylbenzene	2.63		1.00	0.198	ug/L			07/08/22 21:00	1
Toluene	1.10		1.00	0.312	ug/L			07/08/22 21:00	1
Xylenes, Total	2.26	J	3.00	0.442	ug/L			07/08/22 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		07/08/22 21:00	1
Dibromofluoromethane (Surr)	103		80 - 120		07/08/22 21:00	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		07/08/22 21:00	1
Toluene-d8 (Surr)	94		80 - 120		07/08/22 21:00	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	813		150	30.5	ug/L			07/08/22 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	380		243	111	ug/L		07/08/22 11:15	07/08/22 20:09	1
RRO (C25-C36)	140	J	405	121	ug/L		07/08/22 11:15	07/08/22 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		50 - 150				07/08/22 11:15	07/08/22 20:09	1
<i>n</i> -Triaccontane-d62	89		50 - 150				07/08/22 11:15	07/08/22 20:09	1

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: TX-03A

Date Collected: 06/28/22 15:54

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-26

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	114		40.0	9.30	ug/L			07/12/22 14:07	100
Ethylbenzene	13.2		1.00	0.198	ug/L			07/08/22 21:21	1
Toluene	6.32		1.00	0.312	ug/L			07/08/22 21:21	1
Xylenes, Total	3.56		3.00	0.442	ug/L			07/08/22 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		07/08/22 21:21	1
4-Bromofluorobenzene (Surr)	102		80 - 120		07/12/22 14:07	100
Dibromofluoromethane (Surr)	102		80 - 120		07/08/22 21:21	1
Dibromofluoromethane (Surr)	95		80 - 120		07/12/22 14:07	100
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		07/08/22 21:21	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		07/12/22 14:07	100
Toluene-d8 (Surr)	96		80 - 120		07/08/22 21:21	1
Toluene-d8 (Surr)	106		80 - 120		07/12/22 14:07	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1390		150	30.5	ug/L			07/08/22 21:21	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	94		68.7 - 141		07/08/22 21:21	1			
4-Bromofluorobenzene (Surr)	102		68.7 - 141		07/12/22 14:07	100			

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: TB-1

Date Collected: 06/27/22 08:00

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-27

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			07/08/22 21:43	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/08/22 21:43	1
Toluene	ND		1.00	0.312	ug/L			07/08/22 21:43	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/08/22 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		07/08/22 21:43	1
Dibromofluoromethane (Surr)	108		80 - 120		07/08/22 21:43	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		07/08/22 21:43	1
Toluene-d8 (Surr)	100		80 - 120		07/08/22 21:43	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	30.5	ug/L			07/08/22 21:43	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	93		68.7 - 141		07/08/22 21:43	1			

QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-36944/6

Matrix: Water

Analysis Batch: 36944

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			07/07/22 13:19	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/07/22 13:19	1
Toluene	ND		1.00	0.312	ug/L			07/07/22 13:19	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/07/22 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		07/07/22 13:19	1
Dibromofluoromethane (Surr)	106		80 - 120		07/07/22 13:19	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		07/07/22 13:19	1
Toluene-d8 (Surr)	102		80 - 120		07/07/22 13:19	1

Lab Sample ID: LCS 590-36944/1003

Matrix: Water

Analysis Batch: 36944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
Benzene	10.0	9.768		ug/L		98	80 - 126
Ethylbenzene	10.0	9.622		ug/L		96	80 - 128
m-Xylene & p-Xylene	10.0	10.55		ug/L		106	80 - 127
o-Xylene	10.0	10.34		ug/L		103	80 - 126
Toluene	10.0	10.07		ug/L		101	80 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		80 - 120
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: LCSD 590-36944/4

Matrix: Water

Analysis Batch: 36944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD
Benzene	10.0	9.503		ug/L		95	80 - 126	3
Ethylbenzene	10.0	9.801		ug/L		98	80 - 128	2
m-Xylene & p-Xylene	10.0	10.34		ug/L		103	80 - 127	2
o-Xylene	10.0	10.34		ug/L		103	80 - 126	0
Toluene	10.0	10.05		ug/L		100	80 - 129	0

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
Toluene-d8 (Surr)	105		80 - 120

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QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-17941-1 DU

Matrix: Water

Analysis Batch: 36944

Client Sample ID: MW-05

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
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
Surrogate		%Recovery	DU Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92			80 - 120				
Dibromofluoromethane (Surr)	110			80 - 120				
1,2-Dichloroethane-d4 (Surr)	106			80 - 120				
Toluene-d8 (Surr)	101			80 - 120				

Lab Sample ID: MB 590-36967/6

Matrix: Water

Analysis Batch: 36967

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			07/08/22 11:55	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/08/22 11:55	1
Toluene	ND		1.00	0.312	ug/L			07/08/22 11:55	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/08/22 11:55	1
Surrogate		%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95			80 - 120				07/08/22 11:55	1
Dibromofluoromethane (Surr)	106			80 - 120				07/08/22 11:55	1
1,2-Dichloroethane-d4 (Surr)	105			80 - 120				07/08/22 11:55	1
Toluene-d8 (Surr)	96			80 - 120				07/08/22 11:55	1

Lab Sample ID: LCS 590-36967/1003

Matrix: Water

Analysis Batch: 36967

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	10.36		ug/L		104	80 - 126
Ethylbenzene	10.0	9.916		ug/L		99	80 - 128
m-Xylene & p-Xylene	10.0	10.73		ug/L		107	80 - 127
o-Xylene	10.0	10.44		ug/L		104	80 - 126
Toluene	10.0	9.987		ug/L		100	80 - 129
Surrogate		%Recovery	LCS Qualifier	Limits			
4-Bromofluorobenzene (Surr)	99			80 - 120			
Dibromofluoromethane (Surr)	102			80 - 120			
1,2-Dichloroethane-d4 (Surr)	102			80 - 120			
Toluene-d8 (Surr)	97			80 - 120			

Eurofins Spokane

QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-36967/4

Matrix: Water

Analysis Batch: 36967

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	9.312		ug/L		93	80 - 126	11	18
Ethylbenzene	10.0	9.551		ug/L		96	80 - 128	4	18
m-Xylene & p-Xylene	10.0	10.23		ug/L		102	80 - 127	5	18
o-Xylene	10.0	10.12		ug/L		101	80 - 126	3	17
Toluene	10.0	9.827		ug/L		98	80 - 129	2	18

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 590-17941-18 MS

Matrix: Water

Analysis Batch: 36967

Client Sample ID: MW-309
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		10.0	11.71		ug/L		117	80 - 126
Ethylbenzene	ND		10.0	10.22		ug/L		102	80 - 128
m-Xylene & p-Xylene	ND		10.0	9.012		ug/L		90	80 - 127
o-Xylene	ND		10.0	8.988		ug/L		90	80 - 126
Toluene	ND		10.0	10.39		ug/L		104	80 - 129

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: 590-17941-18 MSD

Matrix: Water

Analysis Batch: 36967

Client Sample ID: MW-309
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		10.0	10.34		ug/L		103	80 - 126	12	18
Ethylbenzene	ND		10.0	9.303		ug/L		93	80 - 128	9	18
m-Xylene & p-Xylene	ND		10.0	8.183		ug/L		82	80 - 127	10	18
o-Xylene	ND		10.0	8.416		ug/L		84	80 - 126	7	17
Toluene	ND		10.0	9.641		ug/L		96	80 - 129	8	18

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Eurofins Spokane

QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-17941-16 DU

Matrix: Water

Analysis Batch: 36967

Client Sample ID: MW-307
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Toluene	31.8		35.47		ug/L		11	18

DU DU

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 590-37004/7

Matrix: Water

Analysis Batch: 37004

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			07/12/22 13:23	1
Ethylbenzene	ND		1.00	0.198	ug/L			07/12/22 13:23	1
Toluene	ND		1.00	0.312	ug/L			07/12/22 13:23	1
Xylenes, Total	ND		3.00	0.442	ug/L			07/12/22 13:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		07/12/22 13:23	1
Dibromofluoromethane (Surr)	95		80 - 120		07/12/22 13:23	1
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		07/12/22 13:23	1
Toluene-d8 (Surr)	105		80 - 120		07/12/22 13:23	1

Lab Sample ID: LCS 590-37004/1003

Matrix: Water

Analysis Batch: 37004

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	10.57		ug/L		106	80 - 126
Ethylbenzene	10.0	10.64		ug/L		106	80 - 128
m-Xylene & p-Xylene	10.0	10.54		ug/L		105	80 - 127
o-Xylene	10.0	10.30		ug/L		103	80 - 126
Toluene	10.0	10.55		ug/L		106	80 - 129

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	92		80 - 120
1,2-Dichloroethane-d4 (Surr)	93		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: LCSD 590-37004/4

Matrix: Water

Analysis Batch: 37004

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	10.96		ug/L		110	80 - 126	4	18
Ethylbenzene	10.0	10.89		ug/L		109	80 - 128	2	18

Eurofins Spokane

QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-37004/4

Matrix: Water

Analysis Batch: 37004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD	RPD Limit
m-Xylene & p-Xylene	10.0	10.73		ug/L		107	80 - 127	2 18
o-Xylene	10.0	10.57		ug/L		106	80 - 126	3 17
Toluene	10.0	10.99		ug/L		110	80 - 129	4 18

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120
1,2-Dichloroethane-d4 (Surr)	94		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 590-17973-A-1 DU

Matrix: Water

Analysis Batch: 37004

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	DU Unit	D	RPD	RPD Limit
Benzene	0.191	J	0.1893	J	ug/L		1	18
Ethylbenzene	ND		ND		ug/L		NC	18
Toluene	0.343	J	ND		ug/L		NC	18
Xylenes, Total			0.4671	J	ug/L			18

Surrogate	DU %Recovery	DU Qualifier	DU Limits
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	90		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		80 - 120
Toluene-d8 (Surr)	104		80 - 120

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-36945/6

Matrix: Water

Analysis Batch: 36945

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	30.5	ug/L			07/07/22 13:19	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		68.7 - 141					07/07/22 13:19	1

Lab Sample ID: LCS 590-36945/1005

Matrix: Water

Analysis Batch: 36945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	RPD
TPH as Gasoline	1000	984.0		ug/L		98	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	95		68.7 - 141				

Eurofins Spokane

QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCSD 590-36945/1016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 36945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline	1000	1147		ug/L		114	80 - 120	15	20
<hr/>									
Surrogate									
4-Bromofluorobenzene (Surr)	94			68.7 - 141					

Lab Sample ID: MB 590-36968/6

Client Sample ID: Method Blank
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 36968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	30.5	ug/L			07/08/22 11:55	1
<hr/>									
Surrogate									
4-Bromofluorobenzene (Surr)	95		68.7 - 141				Prepared	Analyzed	Dil Fac

Lab Sample ID: LCS 590-36968/1005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 36968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TPH as Gasoline	1000	1136		ug/L		113	80 - 120
<hr/>							
Surrogate							
4-Bromofluorobenzene (Surr)	90		68.7 - 141				

Lab Sample ID: LCSD 590-36968/1016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 36968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline	1000	1121		ug/L		112	80 - 120	1	20
<hr/>									
Surrogate									
4-Bromofluorobenzene (Surr)	95		68.7 - 141						

Lab Sample ID: 590-17941-16 DU

Client Sample ID: MW-307
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 36968

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TPH as Gasoline	2870		3556		ug/L		21	35
<hr/>								
Surrogate								
4-Bromofluorobenzene (Surr)	98		68.7 - 141					

Eurofins Spokane

QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: MB 590-37005/7

Matrix: Water

Analysis Batch: 37005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	30.5	ug/L			07/12/22 13:23	1
<hr/>									
Surrogate									
4-Bromofluorobenzene (Surr)		%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
		99		68.7 - 141				07/12/22 13:23	1

Lab Sample ID: LCS 590-37005/1005

Matrix: Water

Analysis Batch: 37005

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TPH as Gasoline		1000	979.8		ug/L		98	80 - 120
<hr/>								
Surrogate								
4-Bromofluorobenzene (Surr)		%Recovery	MB Qualifier	Limits				
		102		68.7 - 141				

Lab Sample ID: LCSD 590-37005/1016

Matrix: Water

Analysis Batch: 37005

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Gasoline		1000	1032		ug/L		103	80 - 120	5	20
<hr/>										
Surrogate										
4-Bromofluorobenzene (Surr)		%Recovery	MB Qualifier	Limits						
		104		68.7 - 141						

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-36918/1-A

Matrix: Water

Analysis Batch: 36915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.0900	0.0120	ug/L			07/06/22 11:22	07/06/22 12:25
Benzo[a]pyrene	ND		0.0900	0.0120	ug/L			07/06/22 11:22	07/06/22 12:25
Benzo[b]fluoranthene	ND		0.0900	0.0250	ug/L			07/06/22 11:22	07/06/22 12:25
Benzo[k]fluoranthene	ND		0.0900	0.0150	ug/L			07/06/22 11:22	07/06/22 12:25
Chrysene	ND		0.0900	0.0100	ug/L			07/06/22 11:22	07/06/22 12:25
Dibenz(a,h)anthracene	ND		0.0900	0.0130	ug/L			07/06/22 11:22	07/06/22 12:25
Indeno[1,2,3-cd]pyrene	ND		0.0900	0.0220	ug/L			07/06/22 11:22	07/06/22 12:25
1-Methylnaphthalene	ND		0.0900	0.0230	ug/L			07/06/22 11:22	07/06/22 12:25
2-Methylnaphthalene	ND		0.0900	0.0440	ug/L			07/06/22 11:22	07/06/22 12:25
Naphthalene	ND		0.0900	0.0530	ug/L			07/06/22 11:22	07/06/22 12:25
<hr/>									
Surrogate									
2-Fluorobiphenyl (Surr)		%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
		66		50 - 120				07/06/22 11:22	07/06/22 12:25
		77		51 - 121				07/06/22 11:22	07/06/22 12:25

Eurofins Spokane

QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-36918/2-A

Matrix: Water

Analysis Batch: 36915

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzo[a]anthracene	1.60	1.478		ug/L		92	60 - 120	
Benzo[a]pyrene	1.60	1.486		ug/L		93	54 - 120	
Benzo[b]fluoranthene	1.60	1.367		ug/L		85	51 - 125	
Benzo[k]fluoranthene	1.60	1.435		ug/L		90	58 - 120	
Chrysene	1.60	1.451		ug/L		91	58 - 126	
Dibenz(a,h)anthracene	1.60	1.350		ug/L		84	62 - 120	
Indeno[1,2,3-cd]pyrene	1.60	1.422		ug/L		89	59 - 120	
1-Methylnaphthalene	1.60	1.190		ug/L		74	49 - 120	
2-Methylnaphthalene	1.60	1.169		ug/L		73	44 - 120	
Naphthalene	1.60	1.193		ug/L		75	52 - 120	
Surrogate		LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl (Surr)	60			50 - 120				
p-Terphenyl-d14	75			51 - 121				

Lab Sample ID: LCSD 590-36918/3-A

Matrix: Water

Analysis Batch: 36915

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36918

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]anthracene	1.60	1.503		ug/L		94	60 - 120	2	15
Benzo[a]pyrene	1.60	1.522		ug/L		95	54 - 120	2	15
Benzo[b]fluoranthene	1.60	1.644	*1	ug/L		103	51 - 125	18	15
Benzo[k]fluoranthene	1.60	1.203	*1	ug/L		75	58 - 120	18	15
Chrysene	1.60	1.494		ug/L		93	58 - 126	3	15
Dibenz(a,h)anthracene	1.60	1.401		ug/L		88	62 - 120	4	18
Indeno[1,2,3-cd]pyrene	1.60	1.464		ug/L		92	59 - 120	3	18
1-Methylnaphthalene	1.60	1.193		ug/L		75	49 - 120	0	15
2-Methylnaphthalene	1.60	1.179		ug/L		74	44 - 120	1	16
Naphthalene	1.60	1.182		ug/L		74	52 - 120	1	21
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
2-Fluorobiphenyl (Surr)	58			50 - 120					
p-Terphenyl-d14	76			51 - 121					

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-36970/1-A

Matrix: Water

Analysis Batch: 36973

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 36970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		240	110	ug/L		07/08/22 11:15	07/08/22 13:28	1
RRO (C25-C36)	ND		400	120	ug/L		07/08/22 11:15	07/08/22 13:28	1
Surrogate									
<i>o</i> -Terphenyl	72		50 - 150				07/08/22 11:15	07/08/22 13:28	1
<i>n</i> -Triacontane-d62	84		50 - 150				07/08/22 11:15	07/08/22 13:28	1

Eurofins Spokane

QC Sample Results

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: LCS 590-36970/2-A

Matrix: Water

Analysis Batch: 36973

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 36970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DRO (C10-C25)	1600	1151		ug/L		72	50 - 150
RRO (C25-C36)	1600	1531		ug/L		96	50 - 150
Surrogate		LCS %Recovery	LCS Qualifier	Limits			
<i>o-Terphenyl</i>		82		50 - 150			
<i>n-Triaccontane-d62</i>		94		50 - 150			

Lab Sample ID: LCSD 590-36970/3-A

Matrix: Water

Analysis Batch: 36973

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 36970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD
DRO (C10-C25)	1600	1245		ug/L		78	50 - 150
RRO (C25-C36)	1600	1627		ug/L		102	50 - 150
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits			
<i>o-Terphenyl</i>		85		50 - 150			
<i>n-Triaccontane-d62</i>		97		50 - 150			

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-37008/2-A

Matrix: Water

Analysis Batch: 37040

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 37008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		60.0	5.10	ug/L		07/12/22 12:22	07/13/22 15:04	1

Lab Sample ID: LCS 590-37008/1-A

Matrix: Water

Analysis Batch: 37040

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 37008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec
Lead	1000	1062		ug/L		106

Lab Sample ID: 590-17926-C-1-C MS

Matrix: Water

Analysis Batch: 37040

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 37008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec
Lead	6.00	J	1000	1054		ug/L		105

Lab Sample ID: 590-17926-C-1-D MSD

Matrix: Water

Analysis Batch: 37040

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 37008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD
Lead	6.00	J	1000	1061		ug/L		106	1

Eurofins Spokane

QC Sample Results

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 590-17926-C-1-B DU

Matrix: Water

Analysis Batch: 37040

Client Sample ID: Duplicate

Prep Type: Total Recoverable

Prep Batch: 37008

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	6.00	J	5.900	J	ug/L		2	20

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-05

Date Collected: 06/29/22 08:21

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-1

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	43 mL	43 mL	36944	07/07/22 15:52	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36945	07/07/22 15:52	JSP	TAL SPK
Total/NA	Prep	3510C			247.1 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 14:46	NMI	TAL SPK

Client Sample ID: MW-104

Date Collected: 06/29/22 07:42

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-2

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	43 mL	43 mL	36944	07/07/22 16:36	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36945	07/07/22 16:36	JSP	TAL SPK
Total/NA	Prep	3510C			242.1 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 15:06	NMI	TAL SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	37008	07/12/22 18:34	AMB	TAL SPK
Total Recoverable	Analysis	6010D		1			37112	07/18/22 13:20	AMB	TAL SPK

Client Sample ID: MW-111

Date Collected: 06/27/22 13:46

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-3

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	36944	07/07/22 18:02	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 12:16	JSP	TAL SPK
Total/NA	Prep	3510C			248.5 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 15:27	NMI	TAL SPK

Client Sample ID: MW-112A

Date Collected: 06/28/22 14:26

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-4

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	36944	07/07/22 18:23	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 12:38	JSP	TAL SPK
Total/NA	Prep	3510C			246 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 15:47	NMI	TAL SPK

Client Sample ID: MW-113

Date Collected: 06/27/22 12:37

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-5

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	36944	07/07/22 18:45	JSP	TAL SPK
Total/NA	Analysis	8260D		100	43 mL	43 mL	36967	07/08/22 13:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		100	43 mL	43 mL	36968	07/08/22 13:00	JSP	TAL SPK

Eurofins Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-113

Lab Sample ID: 590-17941-5

Matrix: Water

Date Collected: 06/27/22 12:37

Date Received: 07/05/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			248.9 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 16:07	NMI	TAL SPK

Client Sample ID: MW-114

Lab Sample ID: 590-17941-6

Matrix: Water

Date Collected: 06/27/22 12:00

Date Received: 07/05/22 14:53

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	36944	07/07/22 19:06	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36945	07/07/22 19:06	JSP	TAL SPK
Total/NA	Prep	3510C			243 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 16:27	NMI	TAL SPK

Client Sample ID: MW-115

Lab Sample ID: 590-17941-7

Matrix: Water

Date Collected: 06/27/22 11:24

Date Received: 07/05/22 14:53

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	36944	07/07/22 19:27	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 13:22	JSP	TAL SPK
Total/NA	Prep	3510C			243.9 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 17:07	NMI	TAL SPK

Client Sample ID: MW-202

Lab Sample ID: 590-17941-8

Matrix: Water

Date Collected: 06/29/22 10:38

Date Received: 07/05/22 14:53

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	36968	07/08/22 13:44	JSP	TAL SPK
Total/NA	Prep	3510C			248.5 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 17:27	NMI	TAL SPK

Client Sample ID: MW-203

Lab Sample ID: 590-17941-9

Matrix: Water

Date Collected: 06/28/22 11:31

Date Received: 07/05/22 14:53

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	36945	07/07/22 20:10	JSP	TAL SPK
Total/NA	Prep	3510C			244.4 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 17:47	NMI	TAL SPK

Eurofins Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-213

Lab Sample ID: 590-17941-10

Matrix: Water

Date Collected: 06/29/22 09:08

Date Received: 07/05/22 14:53

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	36944	07/07/22 20:31	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36945	07/07/22 20:31	JSP	TAL SPK
Total/NA	Prep	3510C			248.5 mL	2 mL	36918	07/06/22 11:22	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			36915	07/06/22 14:21	NMI	TAL SPK
Total/NA	Prep	3510C			210.5 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 18:07	NMI	TAL SPK

Client Sample ID: MW-214

Lab Sample ID: 590-17941-11

Matrix: Water

Date Collected: 06/29/22 09:45

Date Received: 07/05/22 14:53

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	36944	07/07/22 21:13	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36945	07/07/22 21:13	JSP	TAL SPK
Total/NA	Prep	3510C			247.2 mL	2 mL	36918	07/06/22 11:22	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			36915	07/06/22 14:44	NMI	TAL SPK
Total/NA	Prep	3510C			245.7 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 18:27	NMI	TAL SPK

Client Sample ID: MW-301

Lab Sample ID: 590-17941-12

Matrix: Water

Date Collected: 06/28/22 10:27

Date Received: 07/05/22 14:53

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	36944	07/07/22 21:35	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 14:06	JSP	TAL SPK

Client Sample ID: MW-302

Lab Sample ID: 590-17941-13

Matrix: Water

Date Collected: 06/28/22 09:14

Date Received: 07/05/22 14:53

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	36944	07/07/22 21:56	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 14:28	JSP	TAL SPK

Client Sample ID: MW-303

Lab Sample ID: 590-17941-14

Matrix: Water

Date Collected: 06/28/22 08:11

Date Received: 07/05/22 14:53

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	36944	07/07/22 22:17	JSP	TAL SPK
Total/NA	Analysis	8260D		10	43 mL	43 mL	36967	07/08/22 14:50	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		10	43 mL	43 mL	36968	07/08/22 14:50	JSP	TAL SPK

Eurofins Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-304

Lab Sample ID: 590-17941-15

Matrix: Water

Date Collected: 06/28/22 08:45

Date Received: 07/05/22 14:53

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	36944	07/07/22 22:38	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 15:55	JSP	TAL SPK

Client Sample ID: MW-307

Lab Sample ID: 590-17941-16

Matrix: Water

Date Collected: 06/29/22 11:48

Date Received: 07/05/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		100	43 mL	43 mL	37004	07/12/22 13:45	JSP	TAL SPK
Total/NA	Analysis	8260D		1	43 mL	43 mL	36967	07/08/22 16:17	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		100	43 mL	43 mL	37005	07/12/22 13:45	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 16:17	JSP	TAL SPK
Total/NA	Prep	3510C			243.6 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 18:48	NMI	TAL SPK

Client Sample ID: MW-308

Lab Sample ID: 590-17941-17

Matrix: Water

Date Collected: 06/29/22 12:21

Date Received: 07/05/22 14:53

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	36967	07/08/22 17:01	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 17:01	JSP	TAL SPK

Client Sample ID: MW-309

Lab Sample ID: 590-17941-18

Matrix: Water

Date Collected: 06/28/22 10:55

Date Received: 07/05/22 14:53

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	36967	07/08/22 17:23	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 17:23	JSP	TAL SPK

Client Sample ID: MW-310

Lab Sample ID: 590-17941-19

Matrix: Water

Date Collected: 06/28/22 09:45

Date Received: 07/05/22 14:53

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	36967	07/08/22 18:28	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 18:28	JSP	TAL SPK

Client Sample ID: MW-311

Lab Sample ID: 590-17941-20

Matrix: Water

Date Collected: 06/28/22 15:02

Date Received: 07/05/22 14:53

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	36967	07/08/22 18:50	JSP	TAL SPK

Eurofins Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: MW-311
Date Collected: 06/28/22 15:02
Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-20
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	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 18:50	JSP	TAL SPK

Client Sample ID: MW-312
Date Collected: 06/29/22 11:15
Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-21
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	36967	07/08/22 19:12	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 19:12	JSP	TAL SPK

Client Sample ID: MW-313
Date Collected: 06/28/22 12:35
Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-22
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	36967	07/08/22 19:55	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 19:55	JSP	TAL SPK
Total/NA	Prep	3510C			243.3 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 19:08	NMI	TAL SPK

Client Sample ID: MW-314
Date Collected: 06/28/22 15:26
Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-23
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	36967	07/08/22 20:17	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 20:17	JSP	TAL SPK
Total/NA	Prep	3510C			247.6 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 19:28	NMI	TAL SPK

Client Sample ID: MW-315
Date Collected: 06/28/22 12:03
Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-24
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	36967	07/08/22 20:38	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 20:38	JSP	TAL SPK
Total/NA	Prep	3510C			245.6 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 19:49	NMI	TAL SPK

Eurofins Spokane

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Client Sample ID: SH-04

Date Collected: 06/28/22 13:55

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-25

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	36967	07/08/22 21:00	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 21:00	JSP	TAL SPK
Total/NA	Prep	3510C			247.1 mL	2 mL	36970	07/08/22 11:15	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			36973	07/08/22 20:09	NMI	TAL SPK

Client Sample ID: TX-03A

Date Collected: 06/28/22 15:54

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-25

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		100	43 mL	43 mL	37004	07/12/22 14:07	JSP	TAL SPK
Total/NA	Analysis	8260D		1	43 mL	43 mL	36967	07/08/22 21:21	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		100	43 mL	43 mL	37005	07/12/22 14:07	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 21:21	JSP	TAL SPK

Client Sample ID: TB-1

Date Collected: 06/27/22 08:00

Date Received: 07/05/22 14:53

Lab Sample ID: 590-17941-27

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	36967	07/08/22 21:43	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	36968	07/08/22 21:43	JSP	TAL SPK

Laboratory References:

TAL SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

Laboratory: Eurofins 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	01-06-23

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Method Summary

Client: GHD Services Inc.

Project/Site: 2555 13th Avenue, Seattle WA

Job ID: 590-17941-1

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
6010D	Metals (ICP)	SW846	TAL SPK
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

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 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

- | | | |
|---|--------------------------------------|---------------------------------|
| <input type="checkbox"/> SGW FDG | <input type="checkbox"/> PIPELINE | <input type="checkbox"/> RETAIL |
| <input type="checkbox"/> CHEMICALS | <input type="checkbox"/> CONSULTANT | <input type="checkbox"/> TUBES |
| <input type="checkbox"/> TRANSPORTATION | <input type="checkbox"/> OTHER _____ | |

Print Bill To Contact Name:

PlaNet Site or Project ID

 CHECK IF NO INCIDENT # APPLIES

DATE, 6/29/22

PAGE 1 of 3

PO #

GSAP Project ID

SAMPLING COMPANY:
Blaine Tech Services IncADDRESS:
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 LA RWQCB REPORT FORMAT UST AGENCYDELIVERABLES: 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 EDD DISK

SITE ADDRESS: Street and City

State

GHD Project / Task Number

2555 13th Avenue

WA

11218619

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

PHONE NO.

E-MAIL

AECOM Other ID

Jacquelyn England, GHD, Santa Rosa

(707)523-1010

jacquelyn.england@ghd.com

SAMPLER NAME(S) (Print)

LAB USE ONLY

L BUREZ

REQUESTED ANALYSIS

UNIT COST

NON-UNIT COST

FIELD NOTES.

TEMPERATURE ON RECEIPT C°

31°C 33°C
Coriolis IR ReadContainer PID Readings
or Laboratory Notes

	6290C-BTEX	NWTFH-DX	8270D-SIM PAHS	300.0 Sulfate	NWTFH-GX	6020A Total Lead	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	NONE	OTHER		
	MW 05	6/29/22	0821	WG	6					6	X X
	MW 104	6/29/22	0742	WG	7					7	X X
	MW-111	6/29/22	1346	WG	6					6	X X
	MW-112A	6/29/22	1426	WG	6					6	X X
	MW-113	6/29/22	1257	WG	6					6	X X
	MW-114	6/29/22	1200	WG	6					6	X X
	MW-115	6/29/22	1124	WG	6					6	X X
	MW 202	6/29/22	1038	WG	6					6	X
	MW 203	6/29/22	1131	WG	6					6	X
	MW 213	6/29/22	0708	WG	6	2		8	X X X		X

590-17941 Chain of Custody



Date: 7/5/22 Time: 1450

Date: Time:

Date: 7/5/22 Time: 14:53

Version: 14Dec15

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

1
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11
12

Shell Oil Products US Chain Of Custody Record

LAB (LOCATION)

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

Lab Vendor # Dropdown

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
PlaNet Site or Project ID
 CHECK IF NO INCIDENT # APPLIES

DATE: 6/29/22

PAGE: 7 of 3

PO #
GSAP Project ID
GHD Project / Task Number:

11218819

SAMPLING COMPANY:

Blaine Tech Services, Inc

ADDRESS:

1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to)

Jacquelyn England

TELEPHONE:

(707)523-1010

FAX:
E-mail 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
State
GHD Project / Task Number:

2555 13th Avenue

WA

11218819

EDF DELIVERABLE TO (Name, Company, Office Location)
PHONE NO.
E-MAIL
AECOM Other ID

Jacquelyn England, GHD, Santa Rosa

(707)523-1010

jacquelyn.england@ghd.com

SAMPLER NAME(S) (PRINT)
LAB USE ONLY

L BURBS

REQUESTED ANALYSIS
UNIT COST
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	S209C-BTEX	NWP/PHOX	82270D SIM PAHs	300.0 Sulphite	NWP/H-GX	6020A Total Lead	353.2 Nitrate & Nitrite	6020a Diss. Iron & Manganese (lab filter)	300.0 Chloride	2220B Alkalinity			
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER														
	MW 214	6/28/22	0945	WG	6			2		8	X	X	X							X			
	MW 301	6/28/22	1027	WG	4					4	X									X			
	MW 302	6/28/22	0914	WG	4					4	X									X			
	MW 303	6/28/22	0811	WG	4					4	X									X			
	MW -304	6/28/22	0845	WG	4					4	X									X			
	MW 307	6/28/22	1148	WG	6					6	X	X								X			
	MW 308	6/28/22	1221	WG	4					4	X									X			
	MW 309	6/28/22	1056	WG	4					4	X									X			
	MW 310	6/28/22	0945	WG	4					4	X									X			
	MW 311	6/28/22	1502	WG	4					4	X									X			
Relinquished by: (Signature)					Received by: (Signature)															Date:	7/5/22	Time:	1450
Relinquished by: (Signature)					Received by: (Signature)															Date:		Time:	
Relinquished by: (Signature)					Received by: (Signature)															Date:		Time:	

Version: 14Dec15

LAB (LOCATION)		Please Check Appropriate Box						Print Bill To Contact Name			PlaNet Site or Project ID				
<input type="checkbox"/> ACCUTEST ()		<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"/> CHECK IF NO INCIDENT # APPLIES	
<input type="checkbox"/> CALSCIENCE ()		<input type="checkbox"/> TRANSPORTATION	<input type="checkbox"/> OTHER				PO #			GSAP Project ID			DATE: 6/29/22		
<input checked="" type="checkbox"/> TESTAMERICA ()														PAGE: 3 of 3	
<input type="checkbox"/> Other ()															
Lab Vendor #	Dropdown														
SAMPLING COMPANY: Blaine Tech Services, Inc.		LOG CODE: BTSS			SITE ADDRESS: Street and City 2555 13th Avenue			State WA		GHD Project / Task Number: 11218519					
ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112					EDF DELIVERABLE TO (Name, Company, Office Location) Jacquelyn England, GHD, Santa Rosa			PHONE NO. (707)523-1010		E-MAIL jacquelyn.england@ghd.com		ACEM Other ID			
PROJECT CONTACT (Hardcopy or PDF Report to): Jacquelyn England					SAMPLER NAME(S) (Print) L. BORES							LAB USE ONLY			
TELEPHONE: (707)523-1010		FAX:		Bill To Contact E-MAIL: jacquelyn.england@ghd.com											
TURNAROUND TIME (CALENDAR DAYS): <input checked="" type="checkbox"/> STANDARD (14 DAY) <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 3 DAYS <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 24 HOURS					<input type="checkbox"/> RESULTS NEEDED ON WEEKEND										
<input type="checkbox"/> LA RIQCQ REPORT FORMAT		<input type="checkbox"/> UST AGENCY													
DELIVERABLES: <input type="checkbox"/> LEVEL 1 <input type="checkbox"/> LEVEL 2 <input type="checkbox"/> LEVEL 3 <input type="checkbox"/> LEVEL 4 <input type="checkbox"/> OTHER (SPECIFY) _____															
TEMPERATURE ON RECEIPT C°: Cooler #1		Cooler #2		Cooler #3											
SPECIAL INSTRUCTIONS OR NOTES		<input type="checkbox"/> SHELL CONTRACT RATE APPLIES <input type="checkbox"/> STATE REIMBURSEMENT RATE APPLIES <input type="checkbox"/> EDD NOT NEEDED <input type="checkbox"/> RECEIPT VERIFICATION REQUESTED <input type="checkbox"/> PROVIDE LEED DISK													
LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT						
			DATE	TIME		HCl	HN03	H2SO4		NONE	OTHER	8280C BTEX	NWTPH-Dx	8270D SiM PAHs	3200 Sulfate
	MW 312	6/29/22	1115	WG	4				4	X				X	
	MW 313	6/29/22	1235	WG	6				6	X X				X	
	MW 314	6/29/22	1520	WG	6				6	X X				X	
	MW 315	6/29/22	1203	WG	6				6	X X				X	
	SH 04	6/29/22	1305	WG	6				6	X X				X	
	TX 03A	6/29/22	1531	WG	4				4	X				X	
	TB-1	6/29/22	0800	WG	2				2	X				X	
Relinquished by: (Signature) 		Received by: (Signature)												Date: 7/15/22	Time: 1450
Relinquished by: (Signature)		Received by: (Signature)												Date:	Time:
Relinquished by: (Signature)		Received by: (Signature)												Date:	Time:

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-17941-1

Login Number: 17941

List Source: Eurofins Spokane

List Number: 1

Creator: Vaughan, Madison 1

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.	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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→ The Power of Commitment