

Our ref: 11218519

August 15, 2022

**Mr. Dhroov M. Shivjiani, P.E.**  
**Washington Department of Ecology**  
**Northwest Regional Office**  
**3190 160<sup>th</sup> Avenue SE**  
**Bellevue WA 98008-5452**

**Quarterly Progress Report**  
**Shell Harbor Island Terminal, Seattle, Washington**

Dear Mr. Shivjiani

GHD has prepared this letter on behalf of Equilon Enterprises dba Shell Oil Products US (Shell) as a progress report update for the Seattle Terminal (Site) MTCA remedial action in accordance with Consent Decree No. 99-2-07176-0SEA Section XI. This progress report covers the period from April 1, 2022 to June 30, 2022.

Table 1 summarizes Groundwater Cleanup Levels established for the Site, and Table 2 summarizes the established groundwater monitoring program. Depth to groundwater and groundwater elevation data are summarized in Table 3, and product gauging data in Table 4. Natural attenuation parameters are summarized in Table 5, and chemical constituent data are summarized in Tables 6 and 7.

## **1. Current Reporting Period Activities**

- Monthly gauging events with product monitoring were conducted at monitoring wells MW-208, MW-210, MW-211, and MW-212 on April 18, May 23, and June 27, 2022 within the Shoreline Manifold Area. The absorbent socks in wells MW-210 and MW-212 were checked and the sock in MW-210 was changed during the May event. Measurable free product was recorded in MW-210 during each of the monthly gauging events this quarter. In well MW-210 0.03 feet was observed in April, 0.21 feet was observed in May, and 0.15 feet during June. Measurable free product was not detected in wells MW-208, MW-211, or MW-212 during the monthly gauging events.
- The second quarter groundwater monitoring event was conducted on June 27, 28 and 29 in accordance with the groundwater monitoring program as shown on Table 2.
  - Monitoring wells gauged during this event included:
    - TX-03A Area Excluding the North Tank Farm: MW-101, MW-102, MW-301 through MW-304, MW-307 through MW-315, TES-MW-1, and TX-03A.
    - TX-03A Area North Tank Farm: MW-201 through MW-204, and MW-206A
    - Shoreline Manifold Area: MW-208, and MW-210 through MW-212

- Monitoring wells sampled during this event in the TX-03A Area included: MW-301 through MW-304, MW-307, MW-308, MW-310 through MW-315, and TX-03A.
- A monitoring event coordinated with the adjacent Kinder Morgan site specific to the SH-04 area was completed April 18, 2022 including wells MW-05, MW-111, MW-112A and SH-04.
- Three new monitoring wells (MW-113, MW-114, and MW-115) were installed June 21 and 22, 2022 near the pump house per our August 31, 2021 *Well Installation Work Plan* (GHD, 2021e). The details of these new wells will be submitted in a subsequent summary report.

The groundwater monitoring results from these events will be summarized in the 2022 Annual Compliance Monitoring Report.

## **2. Deviations from Required Tasks Not Otherwise Documented**

### **2.1 TX-03A Area Bio-Sparge System**

The bio-sparging system was shut off December 6, 2019, and rebound testing was initiated. Wells evaluated for rebound testing during the first quarter include MW-301 through MW-304, MW-307, MW-308, MW-310 through MW-315, and TX-03A. Benzene concentrations in the wells within the bio-sparging area during the June 2022 event remained below cleanup levels, except for wells MW-303, MW-307, and TX-03A. Total petroleum hydrocarbons (TPH) as gasoline (TPHg) exceeded cleanup levels in wells MW-303, MW-307, MW-311, MW-312, MW-315 and TX-03A.

Gasoline concentrations in all wells sampled generally remain less than or within the range of concentrations reported between 2012 and 2016, prior to system operation, except for wells MW-311, MW-312 and MW-315. The reported concentration of TPHg for MW-311 (2.05 mg/L) is greater than that of the last five sampling events. The MW-312 (2.28 mg/L) and MW-315 (2.37 mg/L) concentrations are still within ranges reported in the previous five sampling events. Concentrations in wells MW-311 and MW-315 may decrease as treated groundwater from the remediation system travels in the downgradient direction from the treatment area. Based on these results, GHD does not recommend restarting the bio sparge system and will continue to conduct rebound monitoring to further assess concentration trends.

## **3. Deviations from Schedule and Any Planned Deviations in Upcoming Reporting Period**

No deviations are currently planned for the second quarter 2022.

## **4. Plan for any Deviations in Schedule for Recovery of Lost Time and Maintaining Compliance with Schedule**

None.

## **5. All Raw Data (including laboratory analysis) Received by Shell during the Post Quarter and a List of Deliverables for the Upcoming Reporting Period**

- The groundwater cleanup levels are provided on Table 1, and the groundwater monitoring program is provided in Table 2. The groundwater elevation data, product monitoring data, compliance monitoring natural attenuation parameters, and groundwater sample results for the second quarter 2022 are included with the historical data on Tables 3 through 7. New groundwater data from the second quarter 2022 are highlighted on these tables in yellow.
- The laboratory reports for the second quarter 2022 monitoring event are included in Attachment A
- Groundwater samples were analyzed for one or more of the following during the second quarter 2022 groundwater monitoring event in accordance with Table 2:
  - Volatile organic compounds: BTEX
  - TPHg, TPH as diesel, TPH as oil
- A data quality review report is included in Appendix B

## **6. List of Deliverables for the Upcoming Reporting Period if Different from the Schedule**

None.

## **7. List of Deliverables in Review with Washington State Ecology or Other Agency**

AECOM, 2020a. Shell Harbor Island Terminal Major Remedial Efforts Summary (2016-2020). April 2.

AECOM, 2020b. Shell Harbor Island Terminal Bio-Sparging System. April 9.

AECOM, 2020c. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, May 15, 2020. May 15.

AECOM, 2020d. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, August 14, 2020. August 14.

GHD, 2020. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, November 13, 2020. November 13.

GHD, 2021a. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA 2020 Annual Compliance Monitoring Report, February 15, 2021. February 15.

GHD, 2021b. Shell Harbor Island Terminal Interim Action Report. March 11.

GHD, 2021c. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, May 13, 2021. May 13.

GHD, 2021d. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, August 11, 2021. August 11.

GHD, 2021e. Shell Harbor Island Terminal Well Installation Work Plan. August 21, 2021. August 21.

GHD, 2021f. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, November 15, 2021. November 15.

GHD, 2022a. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA 2021 Annual Compliance Monitoring Report, February 15, 2022.February 15.

GHD, 2022b. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, May 12, 2022. May 12

Please do not hesitate to contact me at (505) 610-9894. If you have any questions or comments.

Sincerely,  
GHD



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Encl.

Tables:

- Table 1 Groundwater Cleanup Levels
- Table 2 Groundwater Monitoring Program
- Table 3 Groundwater Elevation Data
- Table 4 Performance Product Monitoring Data
- Table 5 Compliance Monitoring Natural Attenuation Parameters
- Table 6 BTEX, Petroleum Hydrocarbons, and Lead in Groundwater
- Table 7 Carcinogenic PAHs in Groundwater

Attachments:

- Attachment A - Laboratory Reports
- Attachment B - Data Quality Review Reports

cc:     Andrea Wing – Shell Oil Products US  
          Melanie Moore, Joshua Lokomiak – Seattle Terminal Manager – Shell Oil Products US  
          David Mulkey, Helen Thornhill – Shell Terminal Environmental Manager

# Tables

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

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

**Notes:**

<sup>a</sup> Cleanup levels per the Consent Decree (Ecology, 1998), except where noted.

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

mg/L = milligrams per liter

TPH-D = total petroleum hydrocarbons as diesel

TPH-G = total petroleum hydrocarbons as gasoline

TPH-O = total petroleum hydrocarbons as oil

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

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

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

Well	Schedule						Analysis						Compliance Monitoring Well Network				Well Construction		Comments and Deviations from Monitoring Program			
	1Q		2Q		3Q																	
	Gauge	Sample	Gauge	Sample	Gauge	Sample	Gauge	Sample	Total Lead	BTEX	TPH-Gx	TPH-Dx	PAHs	NA Parameters	Performance	Product NA Performance	Groundwater Quality Confirmation	Sentry	Total Depth (ft bgs)	Screened Interval (ft bgs)		
MW-306																						
AMW-8																						Wells were discovered during TSO Terminal Audit and are no longer used by operations for leak detection.
AMW-X																						Groundwater monitoring of these wells is not required. Checking for well logs for future well abandonment.

#### **Notes:**

**Notes:**  
**Red** = Modifications to the program since the November 2008 proposed changes which were established in correspondence between URS and Ecology. 1Q = March

- March  
20 = Jun

2Q = June 3Q = August  
4Q = December Addtl =

4Q = December Addl = Additional  
BCD = Background well with respo

BGD = Background Well with respect to confirmational sampling

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B Dec = December  
BTR = Benzene, toluene, and xylene ratio

DTP = Depth to product

ft bgs = below ground surface

G = indicates a well to be gauged

NA = natural attenuation

## Natural Attenuation Para

PAHs = polycyclic aromatic hydrocarbons by EPA Method 8270C-SIM POC = Conditional Point of Compliance Well

Q = quarter

**Q = quarter**  
**S = indicate**

S - indicates a well to be sampled during that event Sept - September  
Total Lead by EPA Method 6020

Total Lead by EPA Method 6020

TPH-Dx = total petroleum hydrocarbons as diesel by NW | TPH-Gx = total petroleum hydrocarbons as gasoline by NW | WLM = Water level measurement  
X = indicates a well to be analyzed for that analyte

X = indicates a well to be analyzed for that analyte

X<sup>a</sup> = indicates a well to be analyzed for that analyte during the annual sampling event only

X<sup>s</sup> = indicates a well to be analyzed for that analyte during both semi-annual sampling events only

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

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

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-05	05/16/13	13.57	5.72	7.85
MW-05	11/07/13	13.57	6.49	7.08
MW-05	04/22/14	13.57	5.25	8.32
MW-05	12/08/15	13.57	5.42	8.15
MW-05	05/04/16	13.57	5.22	8.35
MW-05	12/14/16	13.57	4.78	8.79
MW-05	06/13/17	13.57	5.45	8.12
MW-05	12/04/17	13.57	5.64	7.93
MW-05	06/12/18	13.57	6.43	7.14
MW-05	12/17/18	13.57	6.27	7.30
MW-05	05/15/19	13.57	6.69	6.88
MW-05	12/09/19	13.57	7.09	6.48
MW-05	06/29/20	13.57	6.30	7.27
MW-05	12/14/20	13.57	6.31	7.26
MW-05	04/12/21	13.57	5.40	8.17
MW-05	06/14/21	13.57	6.27	7.30
MW-05	12/15/21	13.57	5.00	8.57
MW-05	04/18/22	13.57	5.35	8.22
MW-05	06/27/22	13.57	5.73	7.84
<hr/>				
MW-101	04/06/93	15.14	10.48	4.66
MW-101	05/13/93	15.14	10.32	4.82
MW-101	06/10/93	15.14	10.45	4.69
MW-101	07/08/93	15.14	10.75	4.39
MW-101	08/03/93	15.14	11.09	4.05
MW-101	09/08/93	15.14	11.52	3.62
MW-101	10/08/93	15.14	11.89	3.25
MW-101	11/05/93	15.14	12.13	3.01
MW-101	12/03/93	15.14	12.14	3.00
MW-101	01/05/94	15.14	11.16	3.98
MW-101	02/04/94	15.14	11.02	4.12
MW-101	08/28/95	15.14	11.25	3.89
MW-101	09/27/95	15.14	11.49	3.65
MW-101	04/27/99	15.14	9.22	5.92
MW-101	07/14/99	15.14	10.73	4.41
MW-101	10/18/99	15.14	11.78	3.36
MW-101	01/11/00	15.14	9.73	5.41
MW-101	04/05/00	15.14	9.85	5.29
MW-101	07/18/00	15.14	11.01	4.13
MW-101	10/02/00	15.14	11.85	3.29
MW-101	01/22/01	15.14	11.67	3.47
MW-101	07/23/01	15.14	12.33	2.81
MW-101	10/16/01	15.14	13.15	1.99
MW-101	04/23/02	15.14	10.81	4.33

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-101	07/18/02	15.14	11.88	3.26
MW-101	10/23/02	15.14	12.73	2.41
MW-101	01/30/03	15.14	10.09	5.05
MW-101	04/15/03	15.14	10.36	4.78
MW-101	07/17/03	15.14	11.94	3.20
MW-101	10/15/03	15.14	12.68	2.46
MW-101	01/13/04	15.14	10.06	5.08
MW-101	04/19/04	18.21	11.13	7.08
MW-101	07/27/04	18.21	12.07	6.14
MW-101	10/18/04	18.21	12.19	6.02
MW-101	01/24/05	18.21	10.61	7.60
MW-101	04/18/05	18.21	10.86	7.35
MW-101	07/12/05	18.21	11.61	6.60
MW-101	10/18/05	18.21	12.45	5.76
MW-101	01/25/06	18.21	9.21	9.00
MW-101	04/25/06	18.21	10.75	7.46
MW-101	10/11/06	18.21	12.39	5.82
MW-101	11/18/08	18.21	11.45	6.76
MW-101	11/16/09	18.21	10.95	7.26
MW-101	10/26/10	18.21	11.36	6.85
MW-101	10/25/11	18.21	12.15	6.06
MW-101	05/30/12	18.21	10.79	7.42
MW-101	06/13/12	18.21	10.90	7.31
MW-101	09/26/12	18.21	12.04	6.17
MW-101	11/27/12	18.21	9.90	8.31
MW-101	02/22/13	18.21	10.24	7.97
MW-101	05/16/13	18.21	10.89	7.32
MW-101	09/06/13	18.21	11.99	6.22
MW-101	11/07/13	18.21	11.78	6.43
MW-101	04/22/14	18.21	10.16	8.05
MW-101	11/04/14	18.21	10.70	7.51
MW-101	03/10/15	18.21	10.31	7.90
MW-101	05/15/15	18.21	10.03	8.18
MW-101	07/29/15	18.21	11.86	6.35
MW-101	12/10/15	18.21	9.12	9.09
MW-101	02/23/16	18.21	8.81	9.40
MW-101	05/03/16	18.21	10.29	7.92
MW-101	08/30/16	18.21	11.29	6.92
MW-101	12/14/16	18.21	9.62	8.59
MW-101	03/13/17	18.21	8.87	9.34
MW-101	06/13/17	18.21	10.53	7.68
MW-101	08/22/17	18.21	11.63	6.58
MW-101	12/04/17	18.21	10.18	8.03
MW-101	03/06/18	18.21	10.05	8.16

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-101	06/12/18	18.21	11.03	7.18
MW-101	09/05/18	18.21	11.97	6.24
MW-101	12/17/18	18.21	10.98	7.23
MW-101	03/18/19	18.21	10.17	8.04
MW-101	05/15/19	18.21	10.58	7.63
MW-101	09/17/19	18.21	12.03	6.18
MW-101	12/09/19	18.21	11.82	6.39
MW-101	04/27/20	18.21	10.53	7.68
MW-101	06/29/20	18.21	11.15	7.06
MW-101	09/21/20	18.21	12.00	6.21
MW-101	12/14/20	18.21	11.10	7.11
MW-101	04/12/21	18.21	10.20	8.01
MW-101	06/14/21	18.21	11.05	7.16
MW-101	09/22/21	18.21	12.00	6.21
MW-101	12/14/21	18.21	9.41	8.80
MW-101	03/28/22	18.21	9.67	8.54
MW-101	06/27/22	18.21	11.22	6.99
MW-102	04/06/93	12.51	7.99	4.52
MW-102	05/13/93	12.51	7.82	4.69
MW-102	06/10/93	12.51	7.80	4.71
MW-102	07/08/93	12.51	8.32	4.19
MW-102	08/03/93	12.51	8.68	3.83
MW-102	09/08/93	12.51	9.03	3.48
MW-102	10/08/93	12.51	9.44	3.07
MW-102	11/05/93	12.51	9.62	2.89
MW-102	12/03/93	12.51	9.42	3.09
MW-102	01/05/94	12.51	8.50	4.01
MW-102	02/04/94	12.51	8.52	3.99
MW-102	08/28/95	12.51	8.86	3.65
MW-102	09/27/95	12.51	9.17	3.34
MW-102	04/27/99	12.51	6.68	5.83
MW-102	07/14/99	12.51	8.40	4.11
MW-102	10/18/99	12.51	9.38	3.13
MW-102	01/11/00	12.51	7.43	5.08
MW-102	04/05/00	12.51	7.55	4.96
MW-102	07/18/00	12.51	8.37	4.14
MW-102	10/02/00	12.51	9.45	3.06
MW-102	01/22/01	12.51	9.12	3.39
MW-102	07/23/01	12.51	9.91	2.60
MW-102	04/23/02	12.51	8.17	4.34
MW-102	07/18/02	12.51	9.44	3.07
MW-102	07/18/02	12.51	9.44	3.07
MW-102	10/23/02	12.51	10.05	2.46

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-102	01/28/03	12.51	7.20	5.31
MW-102	04/15/03	12.51	7.75	4.76
MW-102	07/17/03	12.51	9.51	3.00
MW-102	10/15/03	12.51	10.11	2.40
MW-102	01/13/04	12.51	7.49	5.02
MW-102	04/19/04	15.60	8.72	6.88
MW-102	07/27/04	15.60	9.62	5.98
MW-102	10/18/04	15.60	9.54	6.06
MW-102	01/24/05	15.60	7.92	7.68
MW-102	04/18/05	15.60	8.20	7.40
MW-102	07/12/05	15.60	9.10	6.50
MW-102	10/18/05	15.60	9.87	5.73
MW-102	01/25/06	15.60	3.94	11.66
MW-102	04/25/06	15.60	8.24	7.36
MW-102	10/11/06	15.60	9.84	5.76
MW-102	11/19/08	15.60	8.79	6.81
MW-102	11/16/09	15.60	8.10	7.50
MW-102	10/28/10	15.60	8.64	6.96
MW-102	10/25/11	15.60	9.59	6.01
MW-102	05/30/12	15.60	8.27	7.33
MW-102	06/13/12	15.60	8.32	7.28
MW-102	09/26/12	15.60	9.53	6.07
MW-102	11/27/12	15.60	7.03	8.57
MW-102	02/22/13	15.60	7.88	7.72
MW-102	05/16/13	15.60	8.40	7.20
MW-102	09/06/13	15.60	9.36	6.24
MW-102	11/07/13	15.60	9.18	6.42
MW-102	04/22/14	15.60	7.69	7.91
MW-102	11/04/14	15.60	7.91	7.69
MW-102	03/10/15	15.60	7.90	7.70
MW-102	05/15/15	15.60	8.47	7.13
MW-102	07/29/15	15.60	9.39	6.21
MW-102	12/10/15	15.60	6.53	9.07
MW-102	02/23/16	15.60	6.78	8.82
MW-102	05/03/16	15.60	7.92	7.68
MW-102	08/30/16	15.60	8.98	6.62
MW-102	12/14/16	15.60	7.27	8.33
MW-102	03/13/17	15.60	6.75	8.85
MW-102	06/13/17	15.60	8.10	7.50
MW-102	08/22/17	15.60	9.20	6.40
MW-102	12/04/17	15.60	7.32	8.28
MW-102	03/06/18	15.60	8.61	6.99
MW-102	06/12/18	15.60	9.02	6.58
MW-102	09/05/18	15.60	9.47	6.13

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-102	12/17/18	15.60	8.20	7.40
MW-102	03/18/19	15.60	7.69	7.91
MW-102	05/15/19	15.60	7.83	7.77
MW-102	09/17/19	15.60	9.36	6.24
MW-102	12/09/19	15.60	9.23	6.37
MW-102	04/27/20	15.60	7.97	7.63
MW-102	06/29/20	15.60	8.53	7.07
MW-102	09/21/20	15.60	9.48	6.12
MW-102	12/14/20	15.60	8.31	7.29
MW-102	04/12/21	15.60	7.77	7.83
MW-102	06/14/21	15.60	8.47	7.13
MW-102	09/22/21	15.60	9.39	6.21
MW-102	12/16/21	15.60	6.81	8.79
MW-102	03/28/22	15.60	7.28	8.32
MW-102	06/27/22	15.60	8.46	7.14
MW-104	04/06/93	10.22	5.98	4.24
MW-104	05/13/93	10.22	6.79	3.43
MW-104	06/10/93	10.22	5.85	4.37
MW-104	07/08/93	10.22	6.13	4.09
MW-104	08/03/93	10.22	6.38	3.84
MW-104	09/08/93	10.22	6.72	3.50
MW-104	10/08/93	10.22	7.05	3.17
MW-104	11/05/93	10.22	7.26	2.96
MW-104	12/03/93	10.22	7.26	2.96
MW-104	01/05/94	10.22	6.64	3.58
MW-104	02/04/94	10.22	6.46	3.76
MW-104	08/28/95	10.22	6.43	3.79
MW-104	09/27/95	10.22	6.70	3.52
MW-104	04/27/99	10.22	2.41	7.81
MW-104	07/14/99	10.22	5.62	4.60
MW-104	10/18/99	10.22	6.80	3.42
MW-104	01/11/00	10.22	5.04	5.18
MW-104	04/05/00	10.22	4.80	5.42
MW-104	07/18/00	10.22	6.15	4.07
MW-104	10/02/00	10.22	7.02	3.20
MW-104	01/22/01	10.22	6.45	3.77
MW-104	07/23/01	10.22	7.39	2.83
MW-104	10/16/01	10.22	8.59	1.63
MW-104	04/23/02	10.22	5.91	4.31
MW-104	07/18/02	10.22	7.07	3.15
MW-104	10/23/02	10.22	7.74	2.48
MW-104	01/28/03	10.22	6.03	4.19
MW-104	04/15/03	10.22	5.75	4.47

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-104	07/17/03	10.22	7.08	3.14
MW-104	10/15/03	10.22	7.76	2.46
MW-104	01/13/04	10.22	5.58	4.64
MW-104	04/19/04	13.46	6.30	7.16
MW-104	07/27/04	13.46	7.25	6.21
MW-104	10/18/04	13.46	7.34	6.12
MW-104	01/24/05	13.46	6.27	7.19
MW-104	04/18/05	13.46	6.22	7.24
MW-104	07/12/05	13.46	6.81	6.65
MW-104	10/18/05	13.46	7.55	5.91
MW-104	01/25/06	13.46	4.78	8.68
MW-104	04/25/06	13.46	5.82	7.64
MW-104	10/11/06	13.46	7.54	5.92
MW-104	11/18/08	13.46	6.74	6.72
MW-104	04/08/09	13.46	6.27	7.19
MW-104	11/16/09	13.46	6.39	7.07
MW-104	04/27/10	13.46	5.45	8.01
MW-104	10/26/10	13.46	6.53	6.93
MW-104	10/25/11	13.46	7.15	6.31
MW-104	03/01/12	13.46	5.82	7.64
MW-104	05/30/12	13.46	5.74	7.72
MW-104	06/13/12	13.46	5.86	7.60
MW-104	08/23/12	13.46	6.50	6.96
MW-104	09/26/12	13.46	6.90	6.56
MW-104	11/27/12	13.46	5.24	8.22
MW-104	05/16/13	13.46	5.65	7.81
MW-104	11/07/13	13.46	6.44	7.02
MW-104	04/22/14	13.46	5.20	8.26
MW-104	11/05/14	13.46	6.02	7.44
MW-104	05/20/15	13.46	5.86	7.60
MW-104	12/09/15	13.46	5.32	8.14
MW-104	12/14/16	13.46	4.78	8.68
MW-104	06/13/17	13.46	5.41	8.05
MW-104	12/04/17	13.46	5.75	7.71
MW-104	06/12/18	13.46	5.96	7.50
MW-104	12/17/18	13.46	6.23	7.23
MW-104	05/15/19	13.46	5.97	7.49
MW-104	12/09/19	13.46	6.99	6.47
MW-104	06/29/20	13.46	6.22	7.24
MW-104	12/14/20	13.46	6.18	7.28
MW-104	04/12/21	13.46	5.30	8.16
MW-104	06/14/21	13.46	6.17	7.29
MW-104	12/15/21	13.46	4.99	8.47
MW-104	04/18/22	13.46	5.21	8.25

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-104	06/27/22	13.46	5.62	7.84
MW-105	04/06/93	9.05	4.97	4.08
MW-105	05/13/93	9.05	4.88	4.17
MW-105	06/10/93	9.05	4.83	4.22
MW-105	07/08/93	9.05	5.20	3.85
MW-105	08/03/93	9.05	5.43	3.62
MW-105	09/08/93	9.05	6.76	2.29
MW-105	10/08/93	9.05	6.06	2.99
MW-105	11/05/93	9.05	6.28	2.77
MW-105	12/03/93	9.05	6.18	2.87
MW-105	01/05/94	9.05	5.65	3.40
MW-105	02/04/94	9.05	5.63	3.42
MW-105	08/28/95	9.05	5.39	3.66
MW-105	09/27/95	9.05	5.70	3.35
MW-105	04/27/99	9.05	3.39	5.66
MW-105	07/14/99	9.05	4.58	4.47
MW-105	10/18/99	9.05	5.79	3.26
MW-105	01/11/00	9.05	3.97	5.08
MW-105	04/05/00	9.05	3.84	5.21
MW-105	07/18/00	9.05	4.90	4.15
MW-105	10/02/00	9.05	6.22	2.83
MW-105	01/22/01	9.05	5.56	3.49
MW-105	07/23/01	9.05	6.48	2.57
MW-105	04/23/02	9.05	5.25	3.80
MW-105	07/18/02	9.05	6.17	2.88
MW-105	10/23/02	9.05	6.78	2.27
MW-105	01/28/03	9.05	5.02	4.03
MW-105	04/15/03	9.05	4.97	4.08
MW-105	07/17/03	9.05	6.2	2.85
MW-105	10/15/03	9.05	6.66	2.39
MW-105	01/13/04	9.05	5.01	4.04
MW-105	04/19/04	12.18	5.51	6.67
MW-105	07/27/04	12.18	6.28	5.90
MW-105	10/18/04	12.18	6.15	6.03
MW-105	01/24/05	12.18	5.02	7.16
MW-105	04/18/05	12.18	5.19	6.99
MW-105	07/12/05	12.18	5.82	6.36
MW-105	10/18/05	12.18	6.44	5.74
MW-105	01/25/06	12.18	4.05	8.13
MW-105	04/25/06	12.18	5.00	7.18
MW-105	10/11/06	12.18	6.51	5.67
MW-105	11/19/08	12.18	5.52	6.66
MW-105	11/16/09	12.18	5.03	7.15

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-105	10/26/10	12.18	5.33	6.85
MW-105	10/25/11	12.18	6.06	6.12
MW-105	11/26/12	12.18	3.82	8.36
MW-105	11/07/13	12.18	5.42	6.76
MW-105	11/05/14	12.18	4.62	7.56
MW-105	12/08/15	12.18	4.00	8.18
MW-105	12/14/16	12.18	4.15	8.03
MW-105	12/04/17	12.18	4.55	7.63
MW-105	12/17/18	12.18	5.04	7.14
MW-105	12/09/19	12.18	5.83	6.35
MW-105	12/14/20	12.18	5.18	7.00
MW-105	04/12/21	12.18	4.55	7.63
MW-105	12/15/21	12.18	3.99	8.19
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MW-111	04/06/93	8.61	4.95	3.66
MW-111	05/13/93	8.61	4.87	3.74
MW-111	06/10/93	8.61	4.84	3.77
MW-111	07/08/93	8.61	5.11	3.50
MW-111	08/03/93	8.61	5.29	3.32
MW-111	09/08/93	8.61	5.56	3.05
MW-111	10/08/93	8.61	5.81	2.80
MW-111	11/05/93	8.61	5.97	2.64
MW-111	12/03/93	8.61	5.93	2.68
MW-111	01/05/94	8.61	5.45	3.16
MW-111	02/04/94	8.61	5.28	3.33
MW-111	08/28/95	8.61	5.28	3.33
MW-111	09/27/95	8.61	5.45	3.16
MW-111	04/27/99	8.61	3.55	5.06
MW-111	07/14/99	8.61	4.65	3.96
MW-111	10/18/99	8.61	5.59	3.02
MW-111	01/11/00	8.61	4.18	4.43
MW-111	04/05/00	8.61	3.94	4.67
MW-111	07/13/00	8.61	5.30	3.31
MW-111	10/02/00	8.61	5.68	2.93
MW-111	01/22/01	8.61	5.37	3.24
MW-111	07/23/01	8.61	6.22	2.39
MW-111	10/16/01	8.61	7.37	1.24
MW-111	04/23/02	8.61	5.28	3.33
MW-111	07/18/02	8.61	5.94	2.67
MW-111	10/23/02	8.61	6.50	2.11
MW-111	01/28/03	8.61	5.05	3.56
MW-111	04/15/03	8.61	5.03	3.58
MW-111	07/17/03	8.61	6.05	2.56
MW-111	10/15/03	8.61	6.45	2.16

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-111	01/13/04	8.61	4.84	3.77
MW-111	04/19/04	11.88	5.46	6.42
MW-111	07/27/04	11.88	6.16	5.72
MW-111	10/18/04	11.88	6.11	5.77
MW-111	01/24/05	11.88	5.33	6.55
MW-111	04/18/05	11.88	5.27	6.61
MW-111	07/12/05	11.88	5.75	6.13
MW-111	10/18/05	11.88	6.26	5.62
MW-111	01/25/06	11.88	4.42	7.46
MW-111	04/25/06	11.88	4.88	7.00
MW-111	10/11/06	11.88	6.30	5.58
MW-111	11/19/08	11.88	8.62	3.26
MW-111	11/16/09	11.88	5.30	6.58
MW-111	10/26/10	11.88	5.35	6.53
MW-111	10/25/11	11.88	5.89	5.99
MW-111	05/30/12	11.88	4.81	7.07
MW-111	08/23/12	11.88	Not Measured	Not Measured
MW-111	11/29/12	11.88	4.14	7.74
MW-111	05/16/13	11.88	4.63	7.25
MW-111	11/07/13	11.88	5.10	6.78
MW-111	04/22/14	11.88	4.32	7.56
MW-111	11/05/14	11.88	4.58	7.30
MW-111	12/08/15	11.88	4.36	7.52
MW-111	12/14/16	11.88	4.04	7.84
MW-111	06/13/17	11.88	4.51	7.37
MW-111	12/04/17	11.88	4.59	7.29
MW-111	06/12/18	11.88	5.25	6.63
MW-111	12/17/18	11.88	4.98	6.90
MW-111	05/15/19	11.88	4.97	6.91
MW-111	12/09/19	11.88	5.66	6.22
MW-111	06/29/20	11.88	5.12	6.76
MW-111	12/14/20	11.88	5.10	6.78
MW-111	04/12/21	11.88	4.46	7.42
MW-111	06/14/21	11.88	5.10	6.78
MW-111	12/15/21	11.88	4.14	7.74
MW-111	04/18/22	11.88	4.38	7.50
MW-111	06/27/22	11.88	4.67	7.21
MW-112	04/06/93	9.98	6.69	3.29
MW-112	05/13/93	9.98	6.61	3.37
MW-112	06/10/93	9.98	6.51	3.47
MW-112	07/08/93	9.98	6.83	3.15
MW-112	08/03/93	9.98	7.00	2.98

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-112	09/08/93	9.98	7.24	2.74
MW-112	10/08/93	9.98	7.50	2.48
MW-112	11/05/93	9.98	7.56	2.42
MW-112	12/03/93	9.98	7.41	2.57
MW-112	01/05/94	9.98	6.93	3.05
MW-112	02/04/94	9.98	6.83	3.15
MW-112	08/28/95	9.98	6.98	3.00
MW-112	09/27/95	9.98	7.13	2.85
MW-112	04/27/99	9.98	5.66	4.32
MW-112	07/14/99	9.98	6.57	3.41
MW-112	10/18/99	9.98	7.36	2.62
MW-112	01/11/00	9.98	5.89	4.09
MW-112	04/05/00	9.98	5.81	4.17
MW-112	07/18/00	9.98	7.11	2.87
MW-112	10/02/00	9.98	7.57	2.41
MW-112	04/25/06	9.98	6.44	3.54
MW-112A	04/24/02	9.98	6.85	3.13
MW-112A	07/18/02	9.98	7.22	2.76
MW-112A	10/23/02	9.98	7.52	2.46
MW-112A	01/28/03	9.98	6.25	3.73
MW-112A	04/15/03	9.98	6.47	3.51
MW-112A	07/17/03	9.98	7.3	2.68
MW-112A	10/15/03	9.98	7.49	2.49
MW-112A	01/13/04	9.98	6.2	3.78
MW-112A	04/19/04	12.52	6.93	5.59
MW-112A	07/27/04	12.52	7.41	5.11
MW-112A	10/18/04	12.52	7.15	5.37
MW-112A	01/24/05	12.52	6.52	6.00
MW-112A	04/18/05	12.52	6.6	5.92
MW-112A	07/12/05	12.52	7.1	5.42
MW-112A	10/18/05	12.52	7.34	5.18
MW-112A	01/25/06	12.52	5.95	6.57
MW-112A	10/11/06	12.52	7.43	5.09
MW-112A	11/19/08	12.52	6.73	5.79
MW-112A	11/16/09	12.52	6.35	6.17
MW-112A	10/29/10	12.52	6.51	6.01
MW-112A	10/25/11	12.52	7.03	5.49
MW-112A	05/30/12	12.52	6.28	6.24
MW-112A	08/23/12	12.52	6.56	5.96
MW-112A	11/25/12	12.52	5.23	7.29
MW-112A	05/16/13	12.52	6.24	6.28
MW-112A	11/04/13	12.52	-	-
MW-112A	04/22/14	12.52	5.90	6.62

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-112A	11/06/14	12.52	5.68	6.84
MW-112A	12/08/15	12.52	5.42	7.10
MW-112A	12/14/16	12.52	5.69	6.83
MW-112A	06/13/17	12.52	6.25	6.27
MW-112A	12/04/17	12.52	5.93	6.59
MW-112A	06/12/18	12.52	6.51	6.01
MW-112A	12/17/18	12.52	5.97	6.55
MW-112A	05/16/19	12.52	6.39	6.13
MW-112A	12/09/19	12.52	6.73	5.79
MW-112A	06/29/20	12.52	6.31	6.21
MW-112A	12/14/20	12.52	6.45	6.07
MW-112A	04/12/21	12.52	6.11	6.41
MW-112A	06/14/21	12.52	6.40	6.12
MW-112A	12/15/21	12.52	5.52	7.00
MW-112A	04/18/22	12.52	6.04	6.48
MW-112A	06/27/22	12.52	6.17	6.35
MW-113	06/27/22	--	4.76	--
MW-114	06/27/22	--	5.03	--
MW-115	06/27/22	--	4.74	--
MW-201	04/06/93	17.07	14.03	3.04
MW-201	05/13/93	17.07	14.02	3.05
MW-201	06/10/93	17.07	13.97	3.10
MW-201	07/08/93	17.07	14.25	2.82
MW-201	08/03/93	17.07	14.48	2.59
MW-201	09/08/93	17.07	14.68	2.39
MW-201	10/08/93	17.07	14.90	2.17
MW-201	11/05/93	17.07	15.03	2.04
MW-201	12/03/93	17.07	14.96	2.11
MW-201	01/05/94	17.07	14.10	2.97
MW-201	02/04/94	17.07	14.32	2.75
MW-201	08/28/95	17.07	14.49	2.58
MW-201	09/27/95	17.07	14.56	2.51
MW-201	04/27/99	17.07	13.04	4.03
MW-201	07/14/99	17.07	14.26	2.81
MW-201	10/18/99	17.07	14.93	2.14
MW-201	01/11/00	17.07	13.03	4.04
MW-201	04/05/00	17.07	13.90	3.17
MW-201	07/18/00	17.07	14.09	2.98
MW-201	10/02/00	17.07	14.82	2.25
MW-201	01/22/01	17.07	14.43	2.64

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-201	07/23/01	17.07	14.95	2.12
MW-201	10/16/01	17.07	16.11	0.96
MW-201	04/24/02	17.07	14.23	2.84
MW-201	07/18/02	17.07	14.73	2.34
MW-201	10/23/02	17.07	15.13	1.94
MW-201	01/28/03	17.07	13.13	3.94
MW-201	04/15/03	17.07	13.58	3.49
MW-201	07/17/03	17.07	14.70	2.37
MW-201	10/15/03	17.07	14.99	2.08
MW-201	01/13/04	17.07	12.71	4.36
MW-201	04/19/04	20.18	14.07	6.11
MW-201	07/27/04	20.18	14.70	5.48
MW-201	10/18/04	20.18	14.70	5.48
MW-201	01/24/05	20.18	13.44	6.74
MW-201	04/18/05	20.18	13.73	6.45
MW-201	07/12/05	20.18	14.47	5.71
MW-201	10/18/05	20.18	14.99	5.19
MW-201	01/25/06	20.18	12.61	7.57
MW-201	04/25/06	20.18	13.94	6.24
MW-201	10/11/06	20.18	15.00	5.18
MW-201	11/20/08	20.18	13.77	6.41
MW-201	11/16/09	20.18	13.74	6.44
MW-201	10/27/10	20.18	14.42	5.76
MW-201	10/26/11	20.18	14.94	5.24
MW-201	11/27/12	20.18	13.10	7.08
MW-201	02/22/13	20.18	13.74	6.44
MW-201	05/16/13	20.18	14.45	5.73
MW-201	09/06/13	20.18	14.78	5.40
MW-201	11/07/13	20.18	14.70	5.48
MW-201	04/22/14	20.18	13.42	6.76
MW-201	11/04/14	20.18	13.65	6.53
MW-201	03/10/15	20.18	13.64	6.54
MW-201	05/15/15	20.18	14.34	5.84
MW-201	07/29/15	20.18	14.65	5.53
MW-201	12/10/15	20.18	12.23	7.95
MW-201	02/23/16	20.18	12.33	7.85
MW-201	05/03/16	20.18	13.74	6.44
MW-201	08/30/16	20.18	14.04	6.14
MW-201	12/14/16	20.18	12.86	7.32
MW-201	03/13/17	20.18	12.18	8.00
MW-201	06/13/17	20.18	13.85	6.33
MW-201	08/22/17	20.18	14.43	5.75
MW-201	12/04/17	20.18	12.87	7.31
MW-201	03/06/18	20.18	13.28	6.90

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-201	06/12/18	20.18	13.58	6.60
MW-201	09/05/18	20.18	8.22	11.96
MW-201	12/17/18	20.18	13.66	6.52
MW-201	03/18/19	20.18	13.14	7.04
MW-201	05/15/19	20.18	14.06	6.12
MW-201	09/17/19	20.18	14.64	5.54
MW-201	12/09/19	20.18	14.52	5.66
MW-201	04/27/20	20.18	14.05	6.13
MW-201	06/29/20	20.18	14.32	5.86
MW-201	09/21/20	20.18	14.59	5.59
MW-201	12/14/20	20.18	14.28	5.90
MW-201	04/12/21	20.18	13.74	6.44
MW-201	06/14/21	20.18	14.32	5.86
MW-201	09/22/21	20.18	14.68	5.50
MW-201	12/16/21	20.18	--	--
MW-201	03/28/22	20.18	13.16	7.02
MW-201	06/27/22	20.18	14.06	6.12
MW-202	04/06/93	16.77	13.23	3.54
MW-202	05/13/93	16.77	13.17	3.60
MW-202	06/10/93	16.77	13.26	3.51
MW-202	07/08/93	16.77	13.54	3.23
MW-202	08/03/93	16.77	13.76	3.01
MW-202	09/08/93	16.77	14.04	2.73
MW-202	10/08/93	16.77	14.30	2.47
MW-202	11/05/93	16.77	14.48	2.29
MW-202	12/03/93	16.77	14.34	2.43
MW-202	01/05/94	16.77	13.73	3.04
MW-202	02/04/94	16.77	13.63	3.14
MW-202	08/28/95	16.77	13.78	2.99
MW-202	09/27/95	16.77	13.95	2.82
MW-202	04/27/99	16.77	12.38	4.39
MW-202	07/14/99	16.77	13.57	3.20
MW-202	10/18/99	16.77	14.31	2.46
MW-202	01/11/00	16.77	12.95	3.82
MW-202	04/05/00	16.77	12.96	3.81
MW-202	07/18/00	16.77	13.21	3.56
MW-202	10/02/00	16.77	14.25	2.52
MW-202	01/22/01	16.77	14.46	2.31
MW-202	07/23/01	16.77	14.64	2.13
MW-202	10/16/01	16.77	15.81	0.96
MW-202	04/24/02	16.77	13.80	2.97
MW-202	07/18/02	16.77	14.28	2.49
MW-202	10/23/02	16.77	14.73	2.04

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-202	01/28/03	16.77	12.95	3.82
MW-202	04/15/03	16.77	13.13	3.64
MW-202	07/17/03	16.77	14.30	2.47
MW-202	10/15/03	16.77	14.62	2.15
MW-202	01/13/04	16.77	12.81	3.96
MW-202	04/19/04	19.86	13.61	6.25
MW-202	07/27/04	19.86	14.29	5.57
MW-202	10/18/04	19.86	14.30	5.56
MW-202	01/24/05	19.86	13.29	6.57
MW-202	04/18/05	19.86	13.51	6.35
MW-202	07/12/05	19.86	14.02	5.84
MW-202	10/18/05	19.86	14.59	5.27
MW-202	01/25/06	19.86	12.38	7.48
MW-202	04/25/06	19.86	13.43	6.43
MW-202	10/11/06	19.86	14.58	5.28
MW-202	11/20/08	19.86	13.92	5.94
MW-202	04/07/09	19.86	13.71	6.15
MW-202	11/16/09	19.86	13.70	6.16
MW-202	04/27/10	19.86	13.24	6.62
MW-202	10/27/10	19.86	14.04	5.82
MW-202	10/26/11	19.86	14.45	5.41
MW-202	03/02/12	19.86	13.70	6.16
MW-202	05/30/12	19.86	13.65	6.21
MW-202	06/13/12	19.86	13.76	6.10
MW-202	09/26/12	19.86	14.42	5.44
MW-202	11/27/12	19.86	13.09	6.77
MW-202	02/22/13	19.86	13.27	6.59
MW-202	05/16/13	19.86	13.80	6.06
MW-202	09/06/13	19.86	14.38	5.48
MW-202	11/07/13	19.86	14.25	5.61
MW-202	04/22/14	19.86	13.23	6.63
MW-202	11/04/14	19.86	13.44	6.42
MW-202	03/10/15	19.86	13.23	6.63
MW-202	05/15/15	19.86	13.76	6.10
MW-202	07/29/15	19.86	14.18	5.68
MW-202	12/10/15	19.86	12.76	7.10
MW-202	02/23/16	19.86	12.15	7.71
MW-202	05/03/16	19.86	13.11	6.75
MW-202	08/30/16	19.86	14.00	5.86
MW-202	12/14/16	19.86	12.81	7.05
MW-202	03/13/17	19.86	12.25	7.61
MW-202	06/13/17	19.86	13.23	6.63
MW-202	08/22/17	19.86	13.98	5.88
MW-202	12/04/17	19.86	13.15	6.71

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-202	03/06/18	19.86	13.03	6.83
MW-202	06/12/18	19.86	13.53	6.33
MW-202	09/05/18	19.86	8.20	11.66
MW-202	12/17/18	19.86	13.45	6.41
MW-202	03/18/19	19.86	12.95	6.91
MW-202	05/15/19	19.86	13.42	6.44
MW-202	09/17/19	19.86	14.16	5.70
MW-202	12/09/19	19.86	14.10	5.76
MW-202	04/27/20	19.86	13.49	6.37
MW-202	06/29/20	19.86	13.75	6.11
MW-202	09/21/20	19.86	14.20	5.66
MW-202	12/14/20	19.86	13.65	6.21
MW-202	04/12/21	19.86	13.15	6.71
MW-202	06/14/21	19.86	13.75	6.11
MW-202	09/22/21	19.86	14.20	5.66
MW-202	12/16/21	19.86	12.70	7.16
MW-202	03/28/22	19.86	12.77	7.09
MW-202	06/27/22	19.86	13.23	6.63
MW-203	04/06/93	11.04	7.39	3.65
MW-203	05/13/93	11.04	7.31	3.73
MW-203	06/10/93	11.04	7.40	3.64
MW-203	07/08/93	11.04	7.66	3.38
MW-203	08/03/93	11.04	7.93	3.11
MW-203	09/08/93	11.04	8.20	2.84
MW-203	10/08/93	11.04	8.46	2.58
MW-203	11/05/93	11.04	8.65	2.39
MW-203	12/03/93	11.04	8.64	2.40
MW-203	01/05/94	11.04	7.99	3.05
MW-203	02/04/94	11.04	7.88	3.16
MW-203	08/28/95	11.04	7.86	3.18
MW-203	09/27/95	11.04	8.02	3.02
MW-203	04/27/99	11.04	6.32	4.72
MW-203	07/14/99	11.04	7.58	3.46
MW-203	10/18/99	11.04	8.42	2.62
MW-203	01/11/00	11.04	6.98	4.06
MW-203	04/05/00	11.04	6.92	4.12
MW-203	07/18/00	11.04	8.00	3.04
MW-203	10/02/00	11.04	8.40	2.64
MW-203	01/22/01	11.04	8.47	2.57
MW-203	07/23/01	11.04	8.69	2.35
MW-203	10/16/01	11.04	9.73	1.31
MW-203	04/24/02	11.04	7.45	3.59
MW-203	10/23/02	11.04	8.80	2.24

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-203	01/28/03	11.04	6.76	4.28
MW-203	04/15/03	11.04	7.05	3.99
MW-203	07/17/03	11.04	8.25	2.79
MW-203	01/13/04	11.04	6.71	4.33
MW-203	04/19/04	13.99	7.58	6.41
MW-203	07/27/04	13.99	8.25	5.74
MW-203	10/18/04	13.99	8.34	5.65
MW-203	01/24/05	13.99	7.31	6.68
MW-203	04/18/05	13.99	7.43	6.56
MW-203	07/12/05	13.99	7.96	6.03
MW-203	10/18/05	13.99	8.64	5.35
MW-203	01/25/06	13.99	6.41	7.58
MW-203	04/25/06	13.99	7.18	6.81
MW-203	10/11/06	13.99	8.58	5.41
MW-203	11/18/08	13.99	8.01	5.98
MW-203	04/08/09	13.99	7.63	6.36
MW-203	11/16/09	13.99	4.97	9.02
MW-203	04/26/10	13.99	7.17	6.82
MW-203	10/25/10	13.99	8.10	5.89
MW-203	10/26/11	13.99	5.45	8.54
MW-203	05/30/12	13.99	7.61	6.38
MW-203	06/13/12	13.99	7.65	6.34
MW-203	09/26/12	13.99	8.40	5.59
MW-203	11/27/12	13.99	7.25	6.74
MW-203	02/22/13	13.99	7.26	6.73
MW-203	05/16/13	13.99	7.80	6.19
MW-203	09/06/13	13.99	8.37	5.62
MW-203	11/07/13	13.99	8.27	5.72
MW-203	04/22/14	13.99	7.33	6.66
MW-203	11/04/14	13.99	7.59	6.40
MW-203	03/10/15	13.99	6.70	7.29
MW-203	05/15/15	13.99	7.74	6.25
MW-203	07/29/15	13.99	8.18	5.81
MW-203	12/10/15	13.99	6.83	7.16
MW-203	02/23/16	13.99	5.92	8.07
MW-203	05/03/16	13.99	7.02	6.97
MW-203	08/30/16	13.99	8.17	5.82
MW-203	12/14/16	13.99	6.62	7.37
MW-203	03/13/17	13.99	5.83	8.16
MW-203	06/13/17	13.99	7.17	6.82
MW-203	08/22/17	13.99	7.98	6.01
MW-203	12/04/17	13.99	7.24	6.75
MW-203	03/06/18	13.99	6.57	7.42
MW-203	06/12/18	13.99	7.55	6.44

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-203	09/05/18	13.99	8.14	5.85
MW-203	12/17/18	13.99	7.68	6.31
MW-203	03/18/19	13.99	6.96	7.03
MW-203	05/16/19	13.99	7.38	6.61
MW-203	09/17/19	13.99	8.19	5.80
MW-203	12/09/19	13.99	8.13	5.86
MW-203	04/27/20	13.99	7.39	6.60
MW-203	06/29/20	13.99	7.55	6.44
MW-203	09/21/20	13.99	8.14	5.85
MW-203	12/14/20	13.99	7.62	6.37
MW-203	04/12/21	13.99	7.13	6.86
MW-203	06/14/21	13.99	7.75	6.24
MW-203	09/22/21	13.99	8.26	5.73
MW-203	12/16/21	13.99	6.80	7.19
MW-203	03/28/22	13.99	6.90	7.09
MW-203	06/27/22	13.99	7.02	6.97
MW-204	04/06/93	14.21	10.97	3.24
MW-204	05/13/93	14.21	10.92	3.29
MW-204	06/10/93	14.21	10.98	3.23
MW-204	07/08/93	14.21	11.20	3.01
MW-204	08/03/93	14.21	11.44	2.77
MW-204	09/08/93	14.21	11.64	2.57
MW-204	10/08/93	14.21	11.85	2.36
MW-204	11/05/93	14.21	12.03	2.18
MW-204	12/03/93	14.21	12.01	2.20
MW-204	01/05/94	14.21	11.42	2.79
MW-204	02/04/94	14.21	11.35	2.86
MW-204	08/28/95	14.21	11.58	2.63
MW-204	09/27/95	14.21	11.57	2.64
MW-204	04/05/00	14.21	Not Measured	Not Measured
MW-204	10/02/00	14.21	Not Measured	Not Measured
MW-204	01/22/01	14.21	11.69	2.52
MW-204	07/23/01	14.21	12.05	2.16
MW-204	10/16/01	14.21	13.17	1.04
MW-204	07/27/04	14.21	11.67	2.54
MW-204	10/18/04	17.27	11.71	5.56
MW-204	01/24/05	17.27	10.72	6.55
MW-204	04/18/05	17.27	10.98	6.29
MW-204	07/12/05	17.27	11.4	5.87
MW-204	10/18/05	17.27	11.98	5.29
MW-204	01/25/06	17.27	9.96	7.31
MW-204	10/11/06	17.27	11.96	5.31
MW-204	11/20/08	17.27	11.45	5.82

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-204	11/16/09	17.27	11.20	6.07
MW-204	10/27/10	17.27	11.54	5.73
MW-204	10/27/11	17.27	10.71	6.56
MW-204	03/26/12	17.27	Not Measured	Not Measured
MW-204	06/12/12	17.27	11.20	6.07
MW-204	09/27/12	17.27	Not Measured	Not Measured
MW-204	11/27/12	17.27	10.81	6.46
MW-204	12/20/12	17.27	Not Measured	Not Measured
MW-204	02/22/13	17.27	10.81	6.46
MW-204	05/16/13	17.27	11.30	5.97
MW-204	09/06/13	17.27	11.77	5.50
MW-204	11/07/13	17.27	11.71	5.56
MW-204	04/22/14	17.27	10.78	6.49
MW-204	11/04/14	17.27	11.04	6.23
MW-204	03/10/15	17.27	10.75	6.52
MW-204	05/15/15	17.27	11.21	6.06
MW-204	07/29/15	17.27	11.59	5.68
MW-204	12/10/15	17.27	9.91	7.36
MW-204	02/23/16	17.27	9.67	7.60
MW-204	05/03/16	17.27	10.53	6.74
MW-204	08/30/16	17.27	11.78	5.49
MW-204	12/14/16	17.27	10.34	6.93
MW-204	03/13/17	17.27	9.83	7.44
MW-204	08/22/17	17.27	11.34	5.93
MW-204	12/04/17	17.27	10.84	6.43
MW-204	03/06/18	17.27	10.55	6.72
MW-204	06/12/18	17.27	11.04	6.23
MW-204	09/05/18	17.27	8.20	9.07
MW-204	12/17/18	17.27	11.10	6.17
MW-204	03/18/19	17.27	10.51	6.76
MW-204	05/15/19	17.27	10.98	6.29
MW-204	09/17/19	17.27	11.65	5.62
MW-204	12/09/19	17.27	11.54	5.73
MW-204	04/27/20	17.27	10.94	6.33
MW-204	06/29/20	17.27	11.26	6.01
MW-204	09/21/20	17.27	11.59	5.68
MW-204	12/14/20	17.27	11.22	6.05
MW-204	04/12/21	17.27	10.71	6.56
MW-204	06/14/21	17.27	11.27	6.00
MW-204	09/22/21	17.27	11.65	5.62
MW-204	12/16/21	17.27	10.42	6.85
MW-204	03/28/22	17.27	10.48	6.79
MW-204	06/27/22	17.27	11.18	6.09

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-206	04/06/93	10.75	9.83	0.92
MW-206	05/13/93	10.75	6.72	4.03
MW-206	06/10/93	10.75	6.78	3.97
MW-206	07/08/93	10.75	7.08	3.67
MW-206	08/03/93	10.75	7.35	3.40
MW-206	09/08/93	10.75	7.66	3.09
MW-206	10/08/93	10.75	7.95	2.80
MW-206	11/05/93	10.75	8.15	2.60
MW-206	12/03/93	10.75	8.17	2.58
MW-206	01/05/94	10.75	7.42	3.33
MW-206	02/04/94	10.75	7.24	3.51
MW-206	08/28/95	10.75	7.01	3.74
MW-206	09/27/95	10.75	7.19	3.56
MW-206	04/27/99	10.75	5.59	5.16
MW-206	07/14/99	10.75	6.97	3.78
MW-206	10/18/99	10.75	7.88	2.87
MW-206	01/11/00	10.75	6.34	4.41
MW-206	04/05/00	10.75	6.32	4.43
MW-206	07/18/00	10.75	7.11	3.64
MW-206	10/02/00	10.75	7.92	2.83
MW-206	01/22/01	10.75	8.93	1.82
MW-206	04/25/06	10.75	9.30	1.45
MW-206	10/11/06	10.75	10.44	0.31
MW-206A	04/24/02	10.75	7.43	3.32
MW-206A	07/18/02	10.75	8.07	2.68
MW-206A	10/23/02	10.75	8.55	2.20
MW-206A	01/28/03	10.75	6.40	4.35
MW-206A	04/15/03	10.75	5.26	5.49
MW-206A	07/17/03	10.75	8.06	2.69
MW-206A	04/19/04	15.90	9.51	6.39
MW-206A	07/27/04	15.90	10.23	5.67
MW-206A	10/18/04	15.90	10.17	5.73
MW-206A	01/24/05	15.90	9.18	6.72
MW-206A	04/18/05	15.90	9.38	6.52
MW-206A	07/12/05	15.90	9.87	6.03
MW-206A	10/18/05	15.90	10.50	5.40
MW-206A	01/25/06	15.90	8.23	7.67
MW-206A	11/20/08	15.90	9.81	6.09
MW-206A	11/16/09	15.90	9.48	6.42
MW-206A	10/25/10	15.90	9.74	6.16
MW-206A	10/26/11	15.90	10.25	5.65
MW-206A	05/30/12	15.90	9.44	6.46
MW-206A	06/13/12	15.90	9.49	6.41

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-206A	09/26/12	15.90	10.21	5.69
MW-206A	11/27/12	15.90	9.05	6.85
MW-206A	02/22/13	15.90	9.04	6.86
MW-206A	05/16/13	15.90	8.44	7.46
MW-206A	09/06/13	15.90	10.06	5.84
MW-206A	11/07/13	15.90	10.04	5.86
MW-206A	04/22/14	15.90	9.01	6.89
MW-206A	11/04/14	15.90	9.25	6.65
MW-206A	03/10/15	15.90	9.03	6.87
MW-206A	05/15/15	15.90	9.49	6.41
MW-206A	07/29/15	15.90	9.99	5.91
MW-206A	12/10/15	15.90	8.36	7.54
MW-206A	02/23/16	15.90	8.09	7.81
MW-206A	05/03/16	15.90	9.03	6.87
MW-206A	08/30/16	15.90	10.25	5.65
MW-206A	12/14/16	15.90	8.51	7.39
MW-206A	03/13/17	15.90	7.98	7.92
MW-206A	06/13/17	15.90	9.02	6.88
MW-206A	08/22/17	15.90	9.74	6.16
MW-206A	12/04/17	15.90	9.07	6.83
MW-206A	03/06/18	15.90	8.78	7.12
MW-206A	06/12/18	15.90	6.90	9.00
MW-206A	09/05/18	15.90	9.94	5.96
MW-206A	12/17/18	15.90	9.23	6.67
MW-206A	03/18/19	15.90	8.86	7.04
MW-206A	05/15/19	15.90	9.30	6.60
MW-206A	09/17/19	15.90	10.13	5.77
MW-206A	12/09/19	15.90	9.98	5.92
MW-206A	04/27/20	15.90	9.22	6.68
MW-206A	06/29/20	15.90	9.40	6.50
MW-206A	09/21/20	15.90	10.08	5.82
MW-206A	12/14/20	15.90	7.15	8.75
MW-206A	04/12/21	15.90	7.20	8.70
MW-206A	06/14/21	15.90	9.45	6.45
MW-206A	09/22/21	15.90	10.05	5.85
MW-206A	12/16/21	15.90	8.57	7.33
MW-206A	03/28/22	15.90	8.79	7.11
MW-206A	06/27/22	15.90	7.23	8.67
MW-208	06/28/13	--	4.98	--
MW-208	09/11/13	--	5.67	--
MW-208	10/30/13	--	5.97	--
MW-208	11/05/13	--	5.51	--
MW-208	01/16/14	--	5.46	--

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-208	02/27/14	--	4.72	--
MW-208	03/25/14	--	4.91	--
MW-208	04/22/14	--	4.98	--
MW-208	06/10/14	--	5.62	--
MW-208	07/24/14	--	5.50	--
MW-208	08/28/14	--	5.73	--
MW-208	09/23/14	--	5.76	--
MW-208	10/22/14	--	4.82	--
MW-208	11/05/14	--	4.50	--
MW-208	12/18/14	12.16	4.28	7.88
MW-208	01/27/15	12.16	4.52	7.64
MW-208	02/26/15	12.16	4.92	7.24
MW-208	03/11/15	12.16	5.29	6.87
MW-208	04/21/15	12.16	5.08	7.08
MW-208	05/19/15	12.16	5.31	6.85
MW-208	06/11/15	12.16	5.34	6.82
MW-208	07/29/15	12.16	5.81	6.35
MW-208	08/25/15	12.16	5.95	6.21
MW-208	09/24/15	12.16	5.72	6.44
MW-208	10/15/15	12.16	5.35	6.81
MW-208	11/20/15	12.16	4.37	7.79
MW-208	12/09/15	12.16	2.55	9.61
MW-208	02/23/16	12.16	4.18	7.98
MW-208	04/22/16	12.16	4.90	7.26
MW-208	05/03/16	12.16	5.27	6.89
MW-208	06/02/16	12.16	5.34	6.82
MW-208	07/14/16	12.16	5.58	6.58
MW-208	08/18/16	12.16	5.80	6.36
MW-208	09/08/16	12.16	5.88	6.28
MW-208	10/21/16	12.16	5.40	6.76
MW-208	11/17/16	12.16	3.67	8.49
MW-208	12/01/16	12.16	3.93	8.23
MW-208	01/11/17	12.16	2.83	9.33
MW-208	02/14/17	12.16	3.81	8.35
MW-208	03/13/17	12.16	4.04	8.12
MW-208	04/13/17	12.16	3.78	8.38
MW-208	05/08/17	12.16	4.78	7.38
MW-208	06/13/17	12.16	5.00	7.16
MW-208	07/18/17	12.16	5.32	6.84
MW-208	08/22/17	12.16	5.32	6.84
MW-208	09/13/17	12.16	5.68	6.48
MW-208	10/31/17	12.16	5.58	6.58
MW-208	11/13/17	12.16	4.67	7.49
MW-208	12/04/17	12.16	4.15	8.01

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-208	03/06/18	12.16	4.57	7.59
MW-208	06/12/18	12.16	5.25	6.91
MW-208	09/05/18	12.16	5.75	6.41
MW-208	12/17/18	12.16	4.13	8.03
MW-208	01/16/19	12.16	4.48	7.68
MW-208	02/20/19	12.16	3.98	8.18
MW-208	03/18/19	12.16	4.95	7.21
MW-208	04/10/19	12.16	4.66	7.50
MW-208	05/15/19	12.16	4.91	7.25
MW-208	06/26/19	12.16	5.47	6.69
MW-208	07/24/19	12.16	5.43	6.73
MW-208	08/13/19	12.16	5.45	6.71
MW-208	09/17/19	12.16	5.23	6.93
MW-208	10/16/19	12.16	5.61	6.55
MW-208	11/05/19	12.16	5.62	6.54
MW-208	12/09/19	12.16	5.08	7.08
MW-208	01/28/20	12.16	3.05	9.11
MW-208	02/26/20	12.16	4.81	7.35
MW-208	04/27/20	12.16	5.18	6.98
MW-208	06/16/20	12.16	5.25	6.91
MW-208	06/29/20	12.16	5.08	7.08
MW-208	07/29/20	12.16	5.20	6.96
MW-208	08/27/20	12.16	5.41	6.75
MW-208	09/21/20	12.16	5.09	7.07
MW-208	10/29/20	12.16	5.58	6.58
MW-208	11/30/20	12.16	4.82	7.34
MW-208	12/14/20	12.16	4.75	7.41
MW-208	01/21/21	12.16	4.27	7.89
MW-208	02/16/21	12.16	3.69	8.47
MW-208	03/23/21	12.16	4.53	7.63
MW-208	04/12/21	12.16	5.28	6.88
MW-208	05/12/21	12.16	5.54	6.62
MW-208	06/14/21	12.16	4.97	7.19
MW-208	07/15/21	12.16	5.31	6.85
MW-208	08/18/21	12.16	5.52	6.64
MW-208	09/22/21	12.16	5.46	6.70
MW-208	10/21/21	12.16	5.32	6.84
MW-208	11/23/21	12.16	4.28	7.88
MW-208	12/14/21	12.16	3.99	8.17
MW-208	01/25/22	12.16	4.34	7.82
MW-208	02/28/22	12.16	4.59	7.57
MW-208	03/28/22	12.16	4.63	7.53
MW-208	04/18/22	12.16	5.08	7.08
MW-208	05/23/22	12.16	4.81	7.35

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-208	06/27/22	12.16	5.02	7.14
MW-209	09/11/13	--	6.61	--
MW-209	10/30/13	--	5.65	--
MW-209	01/16/14	--	5.56	--
MW-209	02/27/14	--	6.04	--
MW-209	03/25/14	--	5.90	--
MW-209	04/22/14	--	5.89	--
MW-209	06/10/14	--	8.31	--
MW-209	07/24/14	--	6.91	--
MW-209	08/28/14	--	6.79	--
MW-209	09/23/14	--	5.73	--
MW-209	10/22/14	--	4.91	--
MW-209	11/05/14	--	6.60	--
MW-209	12/18/14	12.10	5.27	6.83
MW-209	01/27/15	12.10	4.88	7.22
MW-209	02/26/15	12.10	5.54	6.56
MW-209	03/11/15	12.10	5.55	6.55
MW-209	05/19/15	12.10	8.60	3.50
MW-210	03/29/13	--	6.53	--
MW-210	06/28/13	--	6.35	--
MW-210	09/11/13	--	6.63	--
MW-210	10/30/13	--	7.08	--
MW-210	11/05/13	--	6.41	--
MW-210	01/16/14	--	6.48	--
MW-210	02/27/14	--	6.79	--
MW-210	03/25/14	--	6.96	--
MW-210	04/22/14	--	6.32	--
MW-210	06/10/14	--	7.08	--
MW-210	07/24/14	--	6.64	--
MW-210	08/28/14	--	6.72	--
MW-210	09/23/14	--	6.56	--
MW-210	10/22/14	--	5.87	--
MW-210	11/05/14	--	6.45	--
MW-210	12/18/14	12.85	5.49	7.36
MW-210	01/27/15	12.85	6.15	6.70
MW-210	02/26/15	12.85	6.69	6.16
MW-210	03/11/15	12.85	6.56	6.29
MW-210	04/21/15	12.85	6.44	6.41
MW-210	05/19/15	12.85	6.50	6.35
MW-210	06/11/15	12.85	6.48	6.37
MW-210	07/29/15	12.85	6.73	6.12
MW-210	08/25/15	12.85	6.23	6.62

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-210	09/24/15	12.85	6.60	6.25
MW-210	10/15/15	12.85	6.30	6.55
MW-210	11/20/15	12.85	6.47	6.38
MW-210	12/09/15	12.85	4.45	8.40
MW-210	02/23/16	12.85	5.82	7.03
MW-210	04/22/16	12.85	5.96	6.89
MW-210	05/03/16	12.85	6.42	6.43
MW-210	06/02/16	12.85	6.44	6.41
MW-210	07/14/16	12.85	6.67	6.18
MW-210	08/18/16	12.85	6.78	6.07
MW-210	09/08/16	12.85	6.78	6.07
MW-210	10/21/16	12.85	6.32	6.53
MW-210	11/17/16	12.85	5.43	7.42
MW-210	12/01/16	12.85	6.00	6.85
MW-210	01/11/17	12.85	5.38	7.47
MW-210	02/14/17	12.85	5.69	7.16
MW-210	03/13/17	12.85	5.98	6.87
MW-210	04/13/17	12.85	6.42	6.43
MW-210	05/08/17	12.85	6.74	6.11
MW-210	06/13/17	12.85	6.18	6.67
MW-210	07/18/17	12.85	6.47	6.38
MW-210	08/22/17	12.85	6.42	6.43
MW-210	09/13/17	12.85	6.60	6.25
MW-210	10/31/17	12.85	6.64	6.21
MW-210	11/13/17	12.85	6.08	6.77
MW-210	12/04/17	12.85	6.05	6.80
MW-210	03/06/18	12.85	6.19	6.66
MW-210	06/12/18	12.85	6.50	6.35
MW-210	09/05/18	12.85	6.74	6.11
MW-210	12/17/18	12.85	5.31	7.54
MW-210	01/16/19	12.85	6.07	6.78
MW-210	02/20/19	12.85	6.45	6.40
MW-210	03/18/19	12.85	6.67	6.18
MW-210	04/10/19	12.85	5.24	7.61
MW-210	05/15/19	12.85	7.05	5.80
MW-210	06/26/19	12.85	6.58	6.27
MW-210	07/24/19	12.85	5.59	7.26
MW-210	08/13/19	12.85	6.58	6.27
MW-210	09/17/19	12.85	6.18	6.67
MW-210	10/16/19	12.85	6.47	6.38
MW-210	11/05/19	12.85	6.78	6.07
MW-210	12/09/19	12.85	6.27	6.58
MW-210	01/28/20	12.85	4.06	8.79
MW-210	02/26/20	12.85	5.78	7.07

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-210	04/27/20	12.85	6.43	6.42
MW-210	06/16/20	12.85	5.56	7.29
MW-210	06/29/20	12.85	6.58	6.27
MW-210	07/29/20	12.85	6.43	6.42
MW-210	08/27/20	12.85	6.71	6.14
MW-210	09/21/20	12.85	6.35	6.50
MW-210	10/29/20	12.85	6.87	5.98
MW-210	11/30/20	12.85	6.23	6.62
MW-210	12/14/20	12.85	6.05	6.80
MW-210	01/21/21	12.85	6.96	5.89
MW-210	02/16/21	12.85	5.83	7.02
MW-210	03/23/21	12.85	6.57	6.28
MW-210	04/12/21	12.85	6.42	6.43
MW-210	05/12/21	12.85	6.61	6.24
MW-210	06/14/21	12.85	6.15	6.70
MW-210	07/15/21	12.85	6.36	6.49
MW-210	08/18/21	12.85	6.60	6.25
MW-210	09/22/21	12.85	6.50	6.35
MW-210	10/21/21	12.85	6.36	6.49
MW-210	11/23/21	12.85	6.20	6.65
MW-210	12/14/21	12.85	5.12	7.73
MW-210	01/25/22	12.85	6.34	6.51
MW-210	02/28/22	12.85	6.31	6.54
MW-210	03/28/22	12.85	5.92	6.93
MW-210	04/18/22	12.85	6.18	6.69
MW-210	05/23/22	12.85	6.50	6.35
MW-210	06/27/22	12.85	6.21	6.64
MW-211	03/29/13	--	5.97	--
MW-211	06/28/13	--	5.68	--
MW-211	10/30/13	--	6.43	--
MW-211	11/05/13	--	5.68	--
MW-211	01/16/14	--	5.51	--
MW-211	02/27/14	--	5.01	--
MW-211	03/25/14	--	5.38	--
MW-211	04/22/14	--	5.33	--
MW-211	06/10/14	--	6.02	--
MW-211	07/24/14	--	6.85	--
MW-211	08/28/14	--	6.06	--
MW-211	09/23/14	--	5.96	--
MW-211	10/22/14	--	4.96	--
MW-211	11/05/14	--	4.70	--
MW-211	12/18/14	12.21	4.50	7.71
MW-211	01/27/15	12.21	4.82	7.39

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	02/26/15	12.21	5.38	6.83
MW-211	03/11/15	12.21	5.52	6.69
MW-211	04/21/15	12.21	5.50	6.71
MW-211	05/19/15	12.21	5.71	6.50
MW-211	06/11/15	12.21	5.70	6.51
MW-211	07/29/15	12.21	6.10	6.11
MW-211	08/25/15	12.21	6.17	6.04
MW-211	09/24/15	12.21	5.72	6.49
MW-211	10/15/15	12.21	5.30	6.91
MW-211	11/20/15	12.21	4.78	7.43
MW-211	12/09/15	12.21	2.80	9.41
MW-211	02/23/16	12.21	4.45	7.76
MW-211	04/22/16	12.21	4.67	7.54
MW-211	05/03/16	12.21	5.63	6.58
MW-211	06/02/16	12.21	5.77	6.44
MW-211	07/14/16	12.21	6.02	6.19
MW-211	08/18/16	12.21	6.16	6.05
MW-211	09/08/16	12.21	6.22	5.99
MW-211	10/21/16	12.21	6.01	6.20
MW-211	11/17/16	12.21	3.86	8.35
MW-211	12/01/16	12.21	4.14	8.07
MW-211	01/11/17	12.21	3.18	9.03
MW-211	02/14/17	12.21	4.02	8.19
MW-211	03/13/17	12.21	4.27	7.94
MW-211	04/13/17	12.21	4.02	8.19
MW-211	05/08/17	12.21	5.32	6.89
MW-211	06/13/17	12.21	5.36	6.85
MW-211	07/18/17	12.21	5.78	6.43
MW-211	08/22/17	12.21	5.76	6.45
MW-211	09/13/17	12.21	Not Measured	Not Measured
MW-211	10/31/17	12.21	Not Measured	Not Measured
MW-211	11/13/17	12.21	Not Measured	Not Measured
MW-211	12/04/17	12.21	Not Measured	Not Measured
MW-211	03/06/18	12.21	5.03	7.18
MW-211	06/12/18	12.21	5.73	6.48
MW-211	09/05/18	12.21	6.16	6.05
MW-211	12/17/18	12.21	4.14	8.07
MW-211	01/16/19	12.21	4.30	7.91
MW-211	02/20/19	12.21	4.22	7.99
MW-211	03/18/19	12.21	5.34	6.87
MW-211	04/10/19	12.21	4.66	7.55
MW-211	05/15/19	12.21	5.38	6.83
MW-211	06/26/19	12.21	6.88	5.33
MW-211	07/24/19	12.21	5.88	6.33

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	08/13/19	12.21	5.72	6.49
MW-211	09/17/19	12.21	5.54	6.67
MW-211	10/16/19	12.21	5.77	6.44
MW-211	11/05/19	12.21	6.01	6.20
MW-211	12/09/19	12.21	5.54	6.67
MW-211	01/28/20	12.21	3.12	9.09
MW-211	02/26/20	12.21	5.19	7.02
MW-211	04/27/20	12.21	5.47	6.74
MW-211	06/16/20	12.21	5.72	6.49
MW-211	06/29/20	12.21	5.78	6.43
MW-211	07/29/20	12.21	5.67	6.54
MW-211	08/27/20	12.21	5.85	6.36
MW-211	09/21/20	12.21	5.45	6.76
MW-211	10/29/20	12.21	5.99	6.22
MW-211	11/30/20	12.21	5.11	7.10
MW-211	12/14/20	12.21	5.28	6.93
MW-211	01/21/21	12.21	4.82	7.39
MW-211	02/16/21	12.21	4.18	8.03
MW-211	03/23/21	12.21	5.37	6.84
MW-211	04/12/21	12.21	5.65	6.56
MW-211	05/12/21	12.21	5.86	6.35
MW-211	06/14/21	12.21	5.24	6.97
MW-211	07/15/21	12.21	5.60	6.61
MW-211	08/18/21	12.21	5.90	6.31
MW-211	09/22/21	12.21	5.70	6.51
MW-211	10/21/21	12.21	5.50	6.71
MW-211	11/23/21	12.21	4.42	7.79
MW-211	12/14/21	12.21	4.39	7.82
MW-211	01/25/22	12.21	4.85	7.36
MW-211	02/28/22	12.21	4.51	7.70
MW-211	03/28/22	12.21	5.00	7.21
MW-211	04/18/22	12.21	5.28	6.93
MW-211	05/23/22	12.21	5.28	6.93
MW-211	06/27/22	12.21	5.28	6.93
MW-212	03/29/13	--	4.90	--
MW-212	06/28/13	--	4.42	--
MW-212	09/11/13	--	5.32	--
MW-212	09/12/13	--	5.52	--
MW-212	10/30/13	--	5.28	--
MW-212	11/05/13	--	5.51	--
MW-212	01/16/14	--	5.47	--
MW-212	02/27/14	--	6.12	--
MW-212	03/25/14	--	6.30	--

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-212	04/22/14	--	5.85	--
MW-212	06/10/14	--	Not Measured	Not Measured
MW-212	07/24/14	--	6.06	--
MW-212	08/28/14	--	6.23	--
MW-212	09/23/14	--	6.08	--
MW-212	10/22/14	--	4.13	--
MW-212	11/05/14	--	5.12	--
MW-212	12/18/14	11.95	4.89	7.06
MW-212	01/27/15	11.95	5.38	6.57
MW-212	02/26/15	11.95	5.59	6.36
MW-212	03/11/15	11.95	5.45	6.50
MW-212	04/21/15	11.95	5.85	6.10
MW-212	05/19/15	11.95	5.67	6.28
MW-212	06/11/15	11.95	5.46	6.49
MW-212	07/29/15	11.95	5.85	6.10
MW-212	08/25/15	11.95	6.82	5.13
MW-212	09/24/15	11.95	6.33	5.62
MW-212	10/15/15	11.95	5.82	6.13
MW-212	11/20/15	11.95	5.51	6.44
MW-212	12/09/15	11.95	3.61	8.34
MW-212	02/23/16	11.95	4.38	7.57
MW-212	04/22/16	11.95	5.37	6.58
MW-212	05/03/16	11.95	6.00	5.95
MW-212	06/02/16	11.95	6.18	5.77
MW-212	07/14/16	11.95	6.27	5.68
MW-212	08/18/16	11.95	6.44	5.51
MW-212	09/08/16	11.95	6.55	5.40
MW-212	10/21/16	11.95	6.10	5.85
MW-212	11/17/16	11.95	4.68	7.27
MW-212	12/01/16	11.95	4.88	7.07
MW-212	01/11/17	11.95	3.88	8.07
MW-212	02/14/17	11.95	4.79	7.16
MW-212	03/13/17	11.95	4.98	6.97
MW-212	04/13/17	11.95	5.02	6.93
MW-212	05/08/17	11.95	5.31	6.64
MW-212	06/13/17	11.95	5.60	6.35
MW-212	07/18/17	11.95	5.83	6.12
MW-212	08/22/17	11.95	5.92	6.03
MW-212	09/13/17	11.95	6.21	5.74
MW-212	10/31/17	11.95	6.17	5.78
MW-212	11/13/17	11.95	4.98	6.97
MW-212	12/04/17	11.95	5.38	6.57
MW-212	03/06/18	11.95	5.46	6.49
MW-212	06/12/18	11.95	6.06	5.89

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-212	09/05/18	11.95	6.35	5.60
MW-212	12/17/18	11.95	4.43	7.52
MW-212	01/16/19	11.95	5.56	6.39
MW-212	02/20/19	11.95	4.32	7.63
MW-212	03/18/19	11.95	6.12	5.83
MW-212	04/10/19	11.95	5.78	6.17
MW-212	05/15/19	11.95	6.13	5.82
MW-212	06/26/19	11.95	6.11	5.84
MW-212	07/24/19	11.95	5.96	5.99
MW-212	08/13/19	11.95	6.02	5.93
MW-212	09/17/19	11.95	6.28	5.67
MW-212	10/16/19	11.95	6.36	5.59
MW-212	11/05/19	11.95	6.51	5.44
MW-212	12/09/19	11.95	6.14	5.81
MW-212	01/28/20	11.95	2.03	9.92
MW-212	02/26/20	11.95	4.97	6.98
MW-212	04/27/20	11.95	5.29	6.66
MW-212	06/16/20	11.95	6.25	5.70
MW-212	06/29/20	11.95	5.85	6.10
MW-212	07/29/20	11.95	6.31	5.64
MW-212	08/27/20	11.95	6.15	5.80
MW-212	09/21/20	11.95	6.23	5.72
MW-212	10/29/20	11.95	6.23	5.72
MW-212	11/30/20	11.95	5.10	6.85
MW-212	12/14/20	11.95	5.83	6.12
MW-212	01/21/21	11.95	5.63	6.32
MW-212	02/16/21	11.95	4.25	7.70
MW-212	03/23/21	11.95	5.74	6.21
MW-212	04/12/21	11.95	6.31	5.64
MW-212	05/12/21	11.95	6.21	5.74
MW-212	06/14/21	11.95	5.62	6.33
MW-212	07/15/21	11.95	6.01	5.94
MW-212	08/18/21	11.95	6.16	5.79
MW-212	09/22/21	11.95	6.10	5.85
MW-212	10/21/21	11.95	6.05	5.90
MW-212	11/23/21	11.95	5.19	6.76
MW-212	12/14/21	11.95	4.79	7.16
MW-212	01/25/22	11.95	5.67	6.28
MW-212	02/28/22	11.95	2.86	9.09
MW-212	03/28/22	11.95	5.98	5.97
MW-212	04/18/22	11.95	5.98	5.97
MW-212	05/23/22	11.95	5.70	6.25
MW-212	06/27/22	11.95	5.90	6.05

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-213	07/23/01	8.57	10.17	-1.60
MW-213	10/16/01	8.57	5.81	2.76
MW-213	04/24/02	8.57	7.34	1.23
MW-213	07/18/02	8.57	7.39	1.18
MW-213	10/23/02	8.57	5.04	3.53
MW-213	01/28/03	8.57	4.60	3.97
MW-213	04/15/03	8.57	4.43	4.14
MW-213	07/17/03	8.57	10.24	-1.67
MW-213	10/15/03	8.57	5.85	2.72
MW-213	01/13/04	8.57	5.02	3.55
MW-213	04/19/04	8.57	7.91	0.66
MW-213	07/27/04	8.57	6.94	1.63
MW-213	10/18/04	8.57	5.70	2.87
MW-213	01/24/05	8.57	4.70	3.87
MW-213	04/18/05	8.57	7.43	1.14
MW-213	07/12/05	8.57	8.72	-0.15
MW-213	10/18/05	8.57	7.24	1.33
MW-213	01/25/06	8.57	5.79	2.78
MW-213	04/25/06	8.57	7.82	0.75
MW-213	10/11/06	8.57	6.09	2.48
MW-213	11/19/08	8.57	5.98	2.59
MW-213	04/07/09	8.57	7.69	0.88
MW-213	11/16/09	8.57	4.97	3.60
MW-213	04/26/10	8.57	8.22	0.35
MW-213	10/28/10	8.57	5.33	3.24
MW-213	10/25/11	8.57	7.43	1.14
MW-213	06/12/12	8.57	7.84	0.73
MW-213	11/29/12	8.57	4.65	3.92
MW-213	05/15/13	8.57	8.86	-0.29
MW-213	10/30/13	8.57	5.45	3.12
MW-213	11/05/13	8.57	5.29	3.28
MW-213	04/22/14	8.57	6.39	2.18
MW-213	11/05/14	12.17	6.55	5.62
MW-213	05/19/15	12.17	7.85	4.32
MW-213	12/09/15	12.17	4.18	7.99
MW-213	12/14/16	12.17	5.22	6.95
MW-213	06/13/17	12.17	5.75	6.42
MW-213	12/04/17	12.17	6.33	5.84
MW-213	06/12/18	12.17	9.38	2.79
MW-213	12/17/18	12.17	3.87	8.30
MW-213	05/15/19	12.17	8.76	3.41
MW-213	12/09/19	12.17	6.26	5.91
MW-213	06/29/20	12.17	7.30	4.87
MW-213	12/14/20	12.17	5.21	6.96

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-213	04/12/21	12.17	6.01	6.16
MW-213	06/14/21	12.17	5.45	6.72
MW-213	12/16/21	12.17	5.76	6.41
MW-213	06/27/22	12.17	6.88	5.29
MW-214	07/23/01	8.63	10.37	-1.74
MW-214	10/19/01	8.63	5.74	2.89
MW-214	04/24/02	8.63	7.94	0.69
MW-214	07/18/02	8.63	7.25	1.38
MW-214	10/23/02	8.63	5.85	2.78
MW-214	01/28/03	8.63	4.25	4.38
MW-214	04/15/03	8.63	4.66	3.97
MW-214	07/17/03	8.63	10.40	-1.77
MW-214	10/15/03	8.63	4.89	3.74
MW-214	01/13/04	8.63	4.86	3.77
MW-214	04/19/04	8.63	7.92	0.71
MW-214	07/27/04	8.63	6.42	2.21
MW-214	10/18/04	8.63	5.37	3.26
MW-214	01/24/05	8.63	5.00	3.63
MW-214	04/18/05	8.63	7.65	0.98
MW-214	07/12/05	8.63	8.82	-0.19
MW-214	10/18/05	8.63	7.18	1.45
MW-214	01/25/06	8.63	5.96	2.67
MW-214	04/25/06	8.63	7.80	0.83
MW-214	10/11/06	8.63	5.95	2.68
MW-214	11/19/08	8.63	5.50	3.13
MW-214	04/07/09	12.92	7.05	5.87
MW-214	11/16/09	12.92	5.28	7.64
MW-214	04/26/10	12.92	7.80	5.12
MW-214	10/28/10	12.92	5.25	7.67
MW-214	10/25/11	12.92	7.78	5.14
MW-214	06/12/12	12.92	7.80	5.12
MW-214	11/29/12	12.92	5.00	7.92
MW-214	05/15/13	12.92	9.23	3.69
MW-214	10/30/13	12.92	7.88	5.04
MW-214	11/05/13	12.92	5.38	7.54
MW-214	02/27/14	12.92	6.08	6.84
MW-214	04/22/14	12.92	6.78	6.14
MW-214	11/05/14	12.39	6.80	5.59
MW-214	05/19/15	12.39	8.10	4.29
MW-214	12/09/15	12.39	4.74	7.65
MW-214	12/14/16	12.39	5.58	6.81
MW-214	06/13/17	12.39	6.04	6.35
MW-214	12/04/17	12.39	6.41	5.98

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-214	06/12/18	12.39	9.70	2.69
MW-214	12/17/18	12.39	4.13	8.26
MW-214	05/15/19	12.39	7.81	4.58
MW-214	12/09/19	12.39	6.39	6.00
MW-214	06/29/20	12.39	7.59	4.80
MW-214	12/14/20	12.39	5.32	7.07
MW-214	04/12/21	12.39	5.87	6.52
MW-214	06/14/21	12.39	5.63	6.76
MW-214	12/16/21	12.39	5.71	6.68
MW-214	06/27/22	12.39	7.74	4.65
MW-301	03/02/12	12.56	6.03	6.53
MW-301	05/30/12	12.56	6.03	6.53
MW-301	06/13/12	12.56	6.11	6.45
MW-301	09/26/12	12.56	6.82	5.74
MW-301	11/27/12	12.56	5.34	7.22
MW-301	02/21/13	12.56	5.66	6.90
MW-301	05/16/13	12.56	6.14	6.42
MW-301	09/06/13	12.56	6.71	5.85
MW-301	11/07/13	12.56	6.60	5.96
MW-301	04/22/14	12.56	5.56	7.00
MW-301	07/24/14	12.56	6.38	6.18
MW-301	09/23/14	12.56	6.71	5.85
MW-301	11/04/14	12.56	5.73	6.83
MW-301	03/10/15	12.56	5.64	6.92
MW-301	05/15/15	12.56	6.10	6.46
MW-301	07/29/15	12.56	6.63	5.93
MW-301	12/10/15	12.56	4.57	7.99
MW-301	02/23/16	12.56	4.50	8.06
MW-301	05/03/16	12.56	5.53	7.03
MW-301	08/30/16	12.56	6.68	5.88
MW-301	12/14/16	12.56	5.08	7.48
MW-301	03/13/17	12.56	7.60	4.96
MW-301	05/16/17	12.56	5.21	7.35
MW-301	06/13/17	12.56	5.70	6.86
MW-301	08/22/17	12.56	6.43	6.13
MW-301	12/04/17	12.56	5.40	7.16
MW-301	03/06/18	12.56	5.37	7.19
MW-301	06/12/18	12.56	5.90	6.66
MW-301	09/05/18	12.56	6.58	5.98
MW-301	12/17/18	12.56	5.75	6.81
MW-301	03/18/19	12.56	5.23	7.33
MW-301	05/16/19	12.56	5.74	6.82
MW-301	09/17/19	12.56	6.49	6.07

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-301	12/09/19	12.56	6.41	6.15
MW-301	04/27/20	12.56	5.50	7.06
MW-301	06/29/20	12.56	5.85	6.71
MW-301	09/21/20	12.56	6.57	5.99
MW-301	12/14/20	12.56	5.90	6.66
MW-301	04/12/21	12.56	5.26	7.30
MW-301	06/14/21	12.56	5.95	6.61
MW-301	09/22/21	12.56	6.57	5.99
MW-301	12/16/21	12.56	4.67	7.89
MW-301	03/28/22	12.56	4.91	7.65
MW-301	06/27/22	12.56	5.34	7.22
MW-302	03/01/12	12.85	6.47	6.38
MW-302	05/30/12	12.85	Not Measured	Not Measured
MW-302	06/13/12	12.85	Not Measured	Not Measured
MW-302	09/26/12	12.85	7.23	5.62
MW-302	11/27/12	12.85	5.83	7.02
MW-302	02/22/13	12.85	6.10	6.75
MW-302	05/16/13	12.85	6.61	6.24
MW-302	09/06/13	12.85	7.11	5.74
MW-302	11/07/13	12.85	6.99	5.86
MW-302	01/16/14	12.85	6.80	6.05
MW-302	04/22/14	12.85	6.09	6.76
MW-302	06/10/14	12.85	6.40	6.45
MW-302	07/24/14	12.85	6.85	6.00
MW-302	09/23/14	12.85	7.13	5.72
MW-302	11/04/14	12.85	6.28	6.57
MW-302	03/10/15	12.85	6.22	6.63
MW-302	05/15/15	12.85	6.60	6.25
MW-302	07/29/15	12.85	7.07	5.78
MW-302	12/10/15	12.85	5.12	7.73
MW-302	02/23/16	12.85	5.23	7.62
MW-302	05/03/16	12.85	6.15	6.70
MW-302	08/30/16	12.85	7.26	5.59
MW-302	12/14/16	12.85	5.74	7.11
MW-302	03/13/17	12.85	5.33	7.52
MW-302	05/16/17	12.85	5.79	7.06
MW-302	06/13/17	12.85	6.30	6.55
MW-302	08/22/17	12.85	6.92	5.93
MW-302	12/04/17	12.85	5.80	7.05
MW-302	03/06/18	12.85	5.91	6.94
MW-302	06/12/18	12.85	6.48	6.37
MW-302	09/05/18	12.85	6.96	5.89
MW-302	12/17/18	12.85	6.10	6.75

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-302	03/18/19	12.85	5.65	7.20
MW-302	05/16/19	12.85	6.20	6.65
MW-302	09/17/19	12.85	7.33	5.52
MW-302	12/09/19	12.85	6.75	6.10
MW-302	04/27/20	12.85	5.95	6.90
MW-302	06/29/20	12.85	6.22	6.63
MW-302	09/21/20	12.85	6.92	5.93
MW-302	12/15/20	12.85	6.15	6.70
MW-302	04/13/21	12.85	5.67	7.18
MW-302	06/15/21	12.85	6.28	6.57
MW-302	09/23/21	12.85	6.84	6.01
MW-302	12/16/21	12.85	4.98	7.87
MW-302	03/28/22	12.85	5.25	7.60
MW-302	06/27/22	12.85	5.68	7.17
MW-303	03/02/12	12.64	5.96	6.68
MW-303	05/30/12	12.64	5.97	6.67
MW-303	06/13/12	12.64	6.06	6.58
MW-303	09/26/12	12.64	6.86	5.78
MW-303	11/27/12	12.64	5.22	7.42
MW-303	02/21/13	12.64	5.58	7.06
MW-303	05/16/13	12.64	6.10	6.54
MW-303	09/06/13	12.64	6.80	5.84
MW-303	11/07/13	12.64	6.61	6.03
MW-303	04/22/14	12.64	5.49	7.15
MW-303	07/24/14	12.64	6.44	6.20
MW-303	09/23/14	12.64	6.80	5.84
MW-303	11/04/14	12.64	5.73	6.91
MW-303	03/10/15	12.64	5.62	7.02
MW-303	05/15/15	12.64	6.11	6.53
MW-303	07/29/15	12.64	6.71	5.93
MW-303	12/10/15	12.64	4.38	8.26
MW-303	02/23/16	12.64	4.44	8.20
MW-303	05/03/16	12.64	5.56	7.08
MW-303	08/30/16	12.64	6.82	5.82
MW-303	12/14/16	12.64	5.06	7.58
MW-303	03/13/17	12.64	4.51	8.13
MW-303	05/16/17	12.64	5.18	7.46
MW-303	06/13/17	12.64	5.75	6.89
MW-303	08/22/17	12.64	6.55	6.09
MW-303	12/04/17	12.64	5.35	7.29
MW-303	03/06/18	12.64	5.35	7.29
MW-303	06/12/18	12.64	6.07	6.57
MW-303	09/05/18	12.64	6.73	5.91

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-303	12/17/18	12.64	5.83	6.81
MW-303	03/18/19	12.64	5.33	7.31
MW-303	05/16/19	12.64	5.89	6.75
MW-303	09/17/19	12.64	6.68	5.96
MW-303	12/09/19	12.64	6.54	6.10
MW-303	04/27/20	12.64	5.63	7.01
MW-303	06/29/20	12.64	6.10	6.54
MW-303	09/21/20	12.64	6.72	5.92
MW-303	12/14/20	12.64	5.95	6.69
MW-303	04/12/21	12.64	5.33	7.31
MW-303	06/14/21	12.64	6.00	6.64
MW-303	09/22/21	12.64	6.69	5.95
MW-303	12/15/21	12.64	4.61	8.03
MW-303	03/28/22	12.64	4.84	7.80
MW-303	06/27/22	12.64	5.38	7.26
MW-304	03/01/12	12.70	6.07	6.63
MW-304	05/30/12	12.70	6.12	6.58
MW-304	06/13/12	12.70	6.22	6.48
MW-304	09/26/12	12.70	6.98	5.72
MW-304	11/27/12	12.70	5.43	7.27
MW-304	02/22/13	12.70	5.78	6.92
MW-304	05/16/13	12.70	Not Measured	Not Measured
MW-304	09/06/13	12.70	6.89	5.81
MW-304	11/07/13	12.70	6.75	5.95
MW-304	01/16/14	12.70	6.50	6.20
MW-304	04/22/14	12.70	5.67	7.03
MW-304	07/24/14	12.70	6.57	6.13
MW-304	09/23/14	12.70	6.89	5.81
MW-304	11/04/14	12.70	5.91	6.79
MW-304	03/10/15	12.70	5.80	6.90
MW-304	05/15/15	12.70	6.28	6.42
MW-304	07/29/15	12.70	6.84	5.86
MW-304	12/10/15	12.70	4.80	7.90
MW-304	02/23/16	12.70	Not Measured	Not Measured
MW-304	05/03/16	12.70	5.79	6.91
MW-304	08/30/16	12.70	Not Measured	Not Measured
MW-304	12/14/16	12.70	5.27	7.43
MW-304	03/13/17	12.70	4.82	7.88
MW-304	06/13/17	12.70	5.95	6.75
MW-304	08/22/17	12.70	6.67	6.03
MW-304	12/04/17	12.70	5.53	7.17
MW-304	03/06/18	12.70	5.46	7.24
MW-304	06/12/18	12.70	6.18	6.52

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-304	09/05/18	12.70	6.78	5.92
MW-304	12/17/18	12.70	5.90	6.80
MW-304	03/18/19	12.70	5.39	7.31
MW-304	05/16/19	12.70	5.98	6.72
MW-304	09/17/19	12.70	6.67	6.03
MW-304	12/09/19	12.70	6.58	6.12
MW-304	04/27/20	12.70	5.71	6.99
MW-304	06/29/20	12.70	6.10	6.60
MW-304	09/21/20	12.70	6.78	5.92
MW-304	12/14/20	12.70	6.00	6.70
MW-304	04/12/21	12.70	5.42	7.28
MW-304	06/14/21	12.70	6.05	6.65
MW-304	09/22/21	12.70	6.72	5.98
MW-304	12/16/21	12.70	4.69	8.01
MW-304	03/28/22	12.70	5.08	7.62
MW-304	06/27/22	12.70	5.45	7.25
MW-305	03/01/12	13.48	6.47	7.01
MW-305	05/30/12	13.48	6.43	7.05
MW-305	06/11/12	13.48	6.43	7.05
MW-305	09/26/12	13.48	7.22	6.26
MW-305	11/28/12	13.48	5.86	7.62
MW-305	05/16/13	13.48	6.01	7.47
MW-305	11/07/13	13.48	6.40	7.08
MW-305	04/22/14	13.48	5.92	7.56
MW-305	11/06/14	13.48	6.22	7.26
MW-305	05/21/15	13.48	6.32	7.16
MW-306	03/01/12	13.36	6.24	7.12
MW-306	05/30/12	13.36	6.14	7.22
MW-306	06/11/12	13.36	6.12	7.24
MW-306	09/26/12	13.36	6.99	6.37
MW-306	11/28/12	13.36	5.64	7.72
MW-306	05/16/13	13.36	5.57	7.79
MW-306	11/07/13	13.36	6.04	7.32
MW-306	04/22/14	13.36	5.63	7.73
MW-306	05/21/15	13.36	5.99	7.37
MW-306	12/10/15	13.36	4.80	8.56
MW-307	11/27/12	15.62	7.94	7.68
MW-307	02/22/13	15.62	8.42	7.20
MW-307	05/16/13	15.62	8.91	6.71
MW-307	09/06/13	15.62	9.67	5.95
MW-307	11/07/13	15.62	9.49	6.13

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-307	04/22/14	15.62	8.52	7.10
MW-307	03/10/15	15.62	8.42	7.20
MW-307	05/15/15	15.62	8.92	6.70
MW-307	07/29/15	15.62	9.58	6.04
MW-307	12/10/15	15.62	7.33	8.29
MW-307	02/23/16	15.62	7.24	8.38
MW-307	05/03/16	15.62	8.39	7.23
MW-307	08/30/16	15.62	9.51	6.11
MW-307	12/14/16	15.62	7.84	7.78
MW-307	03/13/17	15.62	7.32	8.30
MW-307	05/16/17	15.62	8.02	7.60
MW-307	06/13/17	15.62	8.51	7.11
MW-307	08/22/17	15.62	9.42	6.20
MW-307	09/25/17	15.62	9.76	5.86
MW-307	12/04/17	15.62	8.18	7.44
MW-307	03/06/18	15.62	8.16	7.46
MW-307	06/12/18	15.62	8.70	6.92
MW-307	09/05/18	15.62	9.61	6.01
MW-307	12/17/18	15.62	8.62	7.00
MW-307	03/18/19	15.62	8.07	7.55
MW-307	05/15/19	15.62	8.69	6.93
MW-307	09/17/19	15.62	9.52	6.10
MW-307	12/09/19	15.62	9.39	6.23
MW-307	04/27/20	15.62	8.42	7.20
MW-307	06/29/20	15.62	8.83	6.79
MW-307	09/21/20	15.62	9.57	6.05
MW-307	12/14/20	15.62	8.72	6.90
MW-307	04/12/21	15.62	8.10	7.52
MW-307	06/14/21	15.62	8.80	6.82
MW-307	09/22/21	15.62	9.54	6.08
MW-307	12/14/21	15.62	7.32	8.30
MW-307	03/28/22	15.62	7.73	7.89
MW-307	06/27/22	15.62	8.61	7.01
MW-308	11/27/12	15.59	7.90	7.69
MW-308	02/22/13	15.59	8.22	7.37
MW-308	05/16/13	15.59	8.80	6.79
MW-308	09/06/13	15.59	9.56	6.03
MW-308	11/07/13	15.59	9.45	6.14
MW-308	04/22/14	15.59	8.10	7.49
MW-308	11/04/14	15.59	8.40	7.19
MW-308	03/10/15	15.59	8.31	7.28
MW-308	05/15/15	15.59	9.01	6.58
MW-308	07/29/15	15.59	9.62	5.97

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-308	12/10/15	15.59	6.15	9.44
MW-308	02/23/16	15.59	6.88	8.71
MW-308	05/03/16	15.59	8.20	7.39
MW-308	08/30/16	15.59	9.59	6.00
MW-308	12/14/16	15.59	7.56	8.03
MW-308	03/13/17	15.59	6.72	8.87
MW-308	05/16/17	15.59	7.69	7.90
MW-308	06/13/17	15.59	8.38	7.21
MW-308	08/22/17	15.59	9.29	6.30
MW-308	09/25/17	15.59	9.74	5.85
MW-308	12/04/17	15.59	7.90	7.69
MW-308	03/06/18	15.59	7.98	7.61
MW-308	06/12/18	15.59	8.78	6.81
MW-308	09/05/18	15.59	9.55	6.04
MW-308	12/17/18	15.59	8.38	7.21
MW-308	03/18/19	15.59	8.02	7.57
MW-308	05/15/19	15.59	8.65	6.94
MW-308	09/17/19	15.59	9.49	6.10
MW-308	12/09/19	15.59	9.34	6.25
MW-308	04/27/20	15.59	8.32	7.27
MW-308	06/29/20	15.59	8.78	6.81
MW-308	09/21/20	15.59	9.53	6.06
MW-308	12/14/20	15.59	8.70	6.89
MW-308	04/12/21	15.59	8.00	7.59
MW-308	06/14/21	15.59	8.65	6.94
MW-308	09/22/21	15.59	9.50	6.09
MW-308	12/14/21	15.59	7.07	8.52
MW-308	03/28/22	15.59	7.43	8.16
MW-308	06/27/22	15.59	8.34	7.25
MW-309	11/27/12	12.67	5.41	7.26
MW-309	02/21/13	12.67	5.73	6.94
MW-309	05/16/13	12.67	6.21	6.46
MW-309	09/06/13	12.67	6.84	5.83
MW-309	11/07/13	12.67	6.76	5.91
MW-309	04/22/14	12.67	5.60	7.07
MW-309	07/24/14	12.67	6.47	6.20
MW-309	09/23/14	12.67	6.81	5.86
MW-309	11/04/14	12.67	5.81	6.86
MW-309	03/10/15	12.67	5.72	6.95
MW-309	05/15/15	12.67	6.18	6.49
MW-309	07/29/15	12.67	6.74	5.93
MW-309	12/10/15	12.67	4.59	8.08
MW-309	02/23/16	12.67	4.70	7.97

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-309	05/03/16	12.67	5.60	7.07
MW-309	08/30/16	12.67	6.75	5.92
MW-309	12/12/16	12.67	5.12	7.55
MW-309	03/13/17	12.67	4.62	8.05
MW-309	06/13/17	12.67	5.76	6.91
MW-309	08/22/17	12.67	6.56	6.11
MW-309	12/04/17	12.67	5.52	7.15
MW-309	03/06/18	12.67	5.40	7.27
MW-309	06/12/18	12.67	6.18	6.49
MW-309	09/05/18	12.67	6.72	5.95
MW-309	12/17/18	12.67	5.93	6.74
MW-309	03/18/19	12.67	5.41	7.26
MW-309	05/16/19	12.67	5.95	6.72
MW-309	09/17/19	12.67	6.74	5.93
MW-309	12/09/19	12.67	6.59	6.08
MW-309	04/27/20	12.67	5.74	6.93
MW-309	06/29/20	12.67	6.00	6.67
MW-309	09/21/20	12.67	6.75	5.92
MW-309	12/14/20	12.67	6.08	6.59
MW-309	04/12/21	12.67	5.42	7.25
MW-309	06/14/21	12.67	6.10	6.57
MW-309	09/22/21	12.67	6.72	5.95
MW-309	12/15/21	12.67	4.84	7.83
MW-309	03/28/22	12.67	5.03	7.64
MW-309	06/27/22	12.67	5.51	7.16
MW-310	11/27/12	13.51	6.42	7.09
MW-310	02/21/13	13.51	6.78	6.73
MW-310	05/16/13	13.51	7.20	6.31
MW-310	09/06/13	13.51	7.72	5.79
MW-310	11/07/13	13.51	7.61	5.90
MW-310	01/16/14	13.51	7.39	6.12
MW-310	04/23/14	13.51	6.64	6.87
MW-310	07/24/14	13.51	7.43	6.08
MW-310	09/23/14	13.51	7.73	5.78
MW-310	11/04/14	13.51	6.84	6.67
MW-310	03/10/15	13.51	6.78	6.73
MW-310	05/15/15	13.51	7.19	6.32
MW-310	07/29/15	13.51	7.67	5.84
MW-310	12/10/15	13.51	5.80	7.71
MW-310	02/23/16	13.51	5.77	7.74
MW-310	05/03/16	13.51	6.70	6.81
MW-310	08/30/16	13.51	7.76	5.75
MW-310	12/14/16	13.51	6.32	7.19

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-310	03/13/17	13.51	5.90	7.61
MW-310	05/16/17	13.51	6.39	7.12
MW-310	06/13/17	13.51	6.88	6.63
MW-310	08/22/17	13.51	7.56	5.95
MW-310	12/04/17	13.51	6.48	7.03
MW-310	03/06/18	13.51	6.52	6.99
MW-310	06/12/18	13.51	7.08	6.43
MW-310	09/05/18	13.51	7.57	5.94
MW-310	12/17/18	13.51	6.73	6.78
MW-310	03/18/19	13.51	5.28	8.23
MW-310	05/16/19	13.51	6.92	6.59
MW-310	09/17/19	13.51	7.59	5.92
MW-310	12/09/19	13.51	7.41	6.10
MW-310	04/27/20	13.51	6.60	6.91
MW-310	06/29/20	13.51	6.78	6.73
MW-310	09/21/20	13.51	7.57	5.94
MW-310	12/14/20	13.51	8.95	4.56
MW-310	04/12/21	13.51	6.41	7.10
MW-310	06/14/21	13.51	6.98	6.53
MW-310	09/22/21	13.51	7.62	5.89
MW-310	12/16/21	13.51	5.58	7.93
MW-310	03/28/22	13.51	5.85	7.66
MW-310	06/27/22	13.51	7.08	6.43
MW-311	11/05/14	14.91	8.03	6.88
MW-311	03/10/15	14.91	8.02	6.89
MW-311	05/15/15	14.91	8.42	6.49
MW-311	07/29/15	14.91	8.83	6.08
MW-311	12/10/15	14.91	7.08	7.83
MW-311	02/23/16	14.91	6.97	7.94
MW-311	05/03/16	14.91	7.92	6.99
MW-311	08/30/16	14.91	8.92	5.99
MW-311	12/14/16	14.91	7.53	7.38
MW-311	03/13/17	14.91	7.10	7.81
MW-311	06/13/17	14.91	8.05	6.86
MW-311	08/22/17	14.91	8.70	6.21
MW-311	12/04/17	14.91	7.70	7.21
MW-311	03/06/18	14.91	7.74	7.17
MW-311	06/12/18	14.91	8.32	6.59
MW-311	09/05/18	14.91	8.78	6.13
MW-311	12/17/18	14.91	8.02	6.89
MW-311	03/18/19	14.91	7.63	7.28
MW-311	05/15/19	14.91	8.06	6.85
MW-311	09/17/19	14.91	8.78	6.13

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
MW-311	12/09/19	14.91	8.64	6.27
MW-311	04/27/20	14.91	7.94	6.97
MW-311	06/29/20	14.91	8.24	6.67
MW-311	09/21/20	14.91	8.80	6.11
MW-311	12/14/20	14.91	8.20	6.71
MW-311	04/12/21	14.91	7.68	7.23
MW-311	06/14/21	14.91	--	--
MW-311	09/22/21	14.91	8.79	6.12
MW-311	12/16/21	14.91	7.05	7.86
MW-311	03/28/22	14.91	7.25	7.66
MW-311	06/27/22	14.91	7.69	7.22
<hr/>				
MW-312	11/05/14	14.31	7.58	6.73
MW-312	03/10/15	14.31	7.56	6.75
MW-312	05/15/15	14.31	7.95	6.36
MW-312	07/29/15	14.31	8.34	5.97
MW-312	12/10/15	14.31	6.97	7.34
MW-312	02/23/16	14.31	6.68	7.63
MW-312	05/03/16	14.31	7.49	6.82
MW-312	08/30/16	14.31	8.44	5.87
MW-312	12/14/16	14.31	7.10	7.21
MW-312	03/13/17	14.31	6.75	7.56
MW-312	06/13/17	14.31	7.61	6.70
MW-312	08/22/17	14.31	8.22	6.09
MW-312	12/04/17	14.31	7.36	6.95
MW-312	03/06/18	14.31	7.32	6.99
MW-312	06/12/18	14.31	7.83	6.48
MW-312	09/05/18	14.31	8.31	6.00
MW-312	12/17/18	14.31	7.57	6.74
MW-312	03/18/19	14.31	7.23	7.08
MW-312	05/15/19	14.31	7.59	6.72
MW-312	09/17/19	14.31	8.26	6.05
MW-312	12/09/19	14.31	8.12	6.19
MW-312	04/27/20	14.31	7.52	6.79
MW-312	06/29/20	14.31	7.70	6.61
MW-312	09/21/20	14.31	8.30	6.01
MW-312	12/14/20	14.31	7.77	6.54
MW-312	04/12/21	14.31	7.31	7.00
MW-312	06/14/21	14.31	7.80	6.51
MW-312	09/22/21	14.31	8.25	6.06
MW-312	12/16/21	14.31	6.63	7.68
MW-312	03/28/22	14.31	5.90	8.41
MW-312	06/27/22	14.31	7.56	6.75

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-313	08/30/16	13.25	7.05	6.20
MW-313	12/14/16	13.25	5.63	7.62
MW-313	03/13/17	13.25	5.31	7.94
MW-313	06/13/17	13.25	6.10	7.15
MW-313	08/22/17	13.25	6.80	6.45
MW-313	12/04/17	13.25	5.77	7.48
MW-313	03/06/18	13.25	5.87	7.38
MW-313	06/12/18	13.25	6.38	6.87
MW-313	09/05/18	13.25	6.98	6.27
MW-313	12/17/18	13.25	6.04	7.21
MW-313	03/18/19	13.25	5.87	7.38
MW-313	05/15/19	13.25	6.21	7.04
MW-313	09/17/19	13.25	6.82	6.43
MW-313	12/09/19	13.25	6.74	6.51
MW-313	04/27/20	13.25	6.03	7.22
MW-313	06/29/20	13.25	6.36	6.89
MW-313	09/21/20	13.25	6.95	6.30
MW-313	12/14/20	13.25	6.27	6.98
MW-313	04/12/21	13.25	5.96	7.29
MW-313	06/14/21	13.25	6.27	6.98
MW-313	09/22/21	13.25	6.83	6.42
MW-313	12/16/21	13.25	5.11	8.14
MW-313	03/28/22	13.25	5.48	7.77
MW-313	06/27/22	13.25	5.87	7.38
MW-314	08/30/16	13.49	7.72	5.77
MW-314	12/14/16	13.49	6.77	6.72
MW-314	03/13/17	13.49	6.55	6.94
MW-314	06/13/17	13.49	7.08	6.41
MW-314	08/22/17	13.49	7.55	5.94
MW-314	12/04/17	13.49	7.00	6.49
MW-314	03/06/18	13.49	6.99	6.50
MW-314	06/12/18	13.49	7.38	6.11
MW-314	09/05/18	13.49	7.66	5.83
MW-314	12/17/18	13.49	6.98	6.51
MW-314	03/18/19	13.49	6.92	6.57
MW-314	05/16/19	13.49	7.13	6.36
MW-314	09/17/19	13.49	Not Measured	Not Measured
MW-314	12/09/19	13.49	7.46	6.03
MW-314	04/27/20	13.49	7.19	6.30
MW-314	06/29/20	13.49	7.40	6.09
MW-314	09/22/20	13.49	7.53	5.96
MW-314	12/15/20	13.49	7.31	6.18
MW-314	04/13/21	13.49	7.13	6.36

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-314	06/14/21	13.49	--	--
MW-314	09/22/21	13.49	--	--
MW-314	12/16/21	13.49	--	--
MW-314	03/28/22	13.49	6.68	6.81
MW-314	06/27/22	13.49	6.93	6.56
MW-315	08/30/16	14.61	8.56	6.05
MW-315	12/14/16	14.61	7.26	7.35
MW-315	03/13/17	14.61	6.93	7.68
MW-315	06/13/17	14.61	7.72	6.89
MW-315	08/22/17	14.61	8.32	6.29
MW-315	12/04/17	14.61	7.45	7.16
MW-315	03/06/18	14.61	7.47	7.14
MW-315	06/12/18	14.61	7.98	6.63
MW-315	09/05/18	14.61	8.46	6.15
MW-315	12/17/18	14.61	7.64	6.97
MW-315	03/18/19	14.61	7.43	7.18
MW-315	05/15/19	14.61	7.73	6.88
MW-315	09/17/19	14.61	9.43	5.18
MW-315	12/09/19	14.61	8.21	6.40
MW-315	04/27/20	14.61	7.64	6.97
MW-315	06/29/20	14.61	7.95	6.66
MW-315	09/21/20	14.61	8.41	6.20
MW-315	12/14/20	14.61	7.77	6.84
MW-315	04/12/21	14.61	7.52	7.09
MW-315	06/14/21	14.61	7.90	6.71
MW-315	09/22/21	14.61	8.34	6.27
MW-315	12/16/21	14.61	6.76	7.85
MW-315	03/28/22	14.61	7.03	7.58
MW-315	06/27/22	14.61	7.42	7.19
SH-04	07/08/93	12.92	9.94	2.98
SH-04	08/03/93	12.92	10.15	2.77
SH-04	09/08/93	12.92	10.50	2.42
SH-04	10/08/93	12.92	10.72	2.20
SH-04	11/05/93	12.92	10.88	2.04
SH-04	12/03/93	12.92	10.78	2.14
SH-04	01/05/94	12.92	10.20	2.72
SH-04	02/04/94	12.92	10.12	2.80
SH-04	08/28/95	12.92	10.15	2.77
SH-04	09/27/95	12.92	10.37	2.55
SH-04	04/27/99	12.92	8.55	4.37
SH-04	07/14/99	12.92	7.63	5.29
SH-04	10/18/99	12.92	10.58	2.34

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
SH-04	01/11/00	12.92	9.06	3.86
SH-04	04/05/00	12.92	8.94	3.98
SH-04	07/18/00	12.92	9.96	2.96
SH-04	10/02/00	12.92	10.62	2.30
SH-04	01/22/01	12.92	10.13	2.79
SH-04	07/23/01	12.92	6.98	5.94
SH-04	10/16/01	12.92	12.20	0.72
SH-04	04/23/02	12.92	9.91	3.01
SH-04	07/18/02	12.92	10.74	2.18
SH-04	10/23/02	12.92	11.27	1.65
SH-04	01/28/03	12.92	9.73	3.19
SH-04	04/15/03	12.92	9.69	3.23
SH-04	07/17/03	12.92	10.78	2.14
SH-04	10/15/03	12.92	11.19	1.73
SH-04	01/13/04	12.92	9.61	3.31
SH-04	04/19/04	16.62	10.05	6.57
SH-04	07/27/04	16.62	10.90	5.72
SH-04	10/18/04	16.62	10.89	5.73
SH-04	01/24/05	16.62	10.03	6.59
SH-04	04/18/05	16.62	10.03	6.59
SH-04	07/12/05	16.62	10.51	6.11
SH-04	10/18/05	16.62	11.01	5.61
SH-04	01/25/06	16.62	8.98	7.64
SH-04	10/11/06	16.62	11.06	5.56
SH-04	11/20/08	16.62	10.40	6.22
SH-04	04/08/09	16.62	10.01	6.61
SH-04	11/16/09	16.62	10.09	6.53
SH-04	04/27/10	16.62	9.33	7.29
SH-04	10/25/10	16.62	10.23	6.39
SH-04	10/27/11	16.62	10.68	5.94
SH-04	03/01/12	16.62	9.63	6.99
SH-04	05/30/12	16.62	9.56	7.06
SH-04	06/11/12	16.62	9.55	7.07
SH-04	08/23/12	16.62	9.95	6.67
SH-04	09/25/12	16.62	10.21	6.41
SH-04	11/25/12	16.62	8.77	7.85
SH-04	05/16/13	16.62	8.64	7.98
SH-04	11/04/13	16.62	8.75	7.87
SH-04	04/22/14	16.62	9.00	7.62
SH-04	11/06/14	16.62	9.23	7.39
SH-04	05/21/15	16.62	9.15	7.47
SH-04	12/08/15	16.62	8.80	7.82
SH-04	12/14/16	16.62	8.34	8.28
SH-04	06/13/17	16.62	8.75	7.87

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
SH-04	12/04/17	16.62	9.33	7.29
SH-04	06/12/18	16.62	9.39	7.23
SH-04	12/17/18	16.62	9.65	6.97
SH-04	05/16/19	16.62	9.72	6.90
SH-04	12/09/19	16.62	10.50	6.12
SH-04	06/29/20	16.62	9.89	6.73
SH-04	12/14/20	16.62	9.90	6.72
SH-04	04/12/21	16.62	9.18	7.44
SH-04	06/14/21	16.62	9.60	7.02
SH-04	12/15/21	16.62	8.79	7.83
SH-04	04/18/22	16.62	9.15	7.47
SH-04	06/27/22	16.62	9.33	7.29
TES-MW-1	04/06/93	13.10	8.79	4.31
TES-MW-1	05/13/93	13.10	8.61	4.49
TES-MW-1	06/10/93	13.10	8.63	4.47
TES-MW-1	07/08/93	13.10	8.98	4.12
TES-MW-1	08/03/93	13.10	9.28	3.82
TES-MW-1	09/08/93	13.10	8.66	4.44
TES-MW-1	10/08/93	13.10	9.98	3.12
TES-MW-1	11/05/93	13.10	10.20	2.90
TES-MW-1	12/03/93	13.10	10.17	2.93
TES-MW-1	01/05/94	13.10	9.30	3.80
TES-MW-1	02/04/94	13.10	9.19	3.91
TES-MW-1	08/28/95	13.10	9.26	3.84
TES-MW-1	09/27/95	13.10	9.53	3.57
TES-MW-1	04/27/99	13.10	7.49	5.61
TES-MW-1	07/14/99	13.10	8.90	4.20
TES-MW-1	10/18/99	13.10	9.88	3.22
TES-MW-1	01/11/00	13.10	7.59	5.51
TES-MW-1	04/05/00	13.10	8.20	4.90
TES-MW-1	10/02/00	13.10	9.99	3.11
TES-MW-1	01/22/01	13.10	9.65	3.45
TES-MW-1	07/23/01	13.10	10.77	2.33
TES-MW-1	10/16/01	13.10	11.93	1.17
TES-MW-1	04/23/02	13.10	9.32	3.78
TES-MW-1	07/18/02	13.10	10.34	2.76
TES-MW-1	10/23/02	13.10	10.92	2.18
TES-MW-1	01/30/03	13.10	8.43	4.67
TES-MW-1	04/15/03	13.10	8.89	4.21
TES-MW-1	07/17/03	13.10	10.41	2.69
TES-MW-1	10/15/03	13.10	10.82	2.28
TES-MW-1	01/13/04	13.10	8.82	4.28
TES-MW-1	04/19/04	16.15	9.76	6.39

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
TES-MW-1	07/27/04	16.15	10.48	5.67
TES-MW-1	10/18/04	16.15	10.27	5.88
TES-MW-1	01/24/05	16.15	9.26	6.89
TES-MW-1	04/18/05	16.15	9.46	6.69
TES-MW-1	07/12/05	16.15	10.10	6.05
TES-MW-1	10/18/05	16.15	10.70	5.45
TES-MW-1	01/25/06	16.15	8.17	7.98
TES-MW-1	04/25/06	16.15	9.33	6.82
TES-MW-1	10/11/06	16.15	10.66	5.49
TES-MW-1	11/18/08	16.15	9.85	6.30
TES-MW-1	11/16/09	16.15	9.35	6.80
TES-MW-1	10/26/10	16.15	9.66	6.49
TES-MW-1	10/27/11	16.15	10.42	5.73
TES-MW-1	05/30/12	16.15	9.37	6.78
TES-MW-1	06/13/12	16.15	9.43	6.72
TES-MW-1	06/26/12	16.15	10.31	5.84
TES-MW-1	11/27/12	16.15	8.62	7.53
TES-MW-1	05/16/13	16.15	9.46	6.69
TES-MW-1	11/07/13	16.15	10.06	6.09
TES-MW-1	04/22/14	16.15	8.70	7.45
TES-MW-1	11/04/14	16.15	9.07	7.08
TES-MW-1	03/10/15	16.15	8.92	7.23
TES-MW-1	05/15/15	16.15	9.40	6.75
TES-MW-1	07/29/15	16.15	10.08	6.07
TES-MW-1	12/10/15	16.15	7.14	9.01
TES-MW-1	02/23/16	16.15	7.58	8.57
TES-MW-1	05/03/16	16.15	8.80	7.35
TES-MW-1	08/30/16	16.15	9.86	6.29
TES-MW-1	12/14/16	16.15	8.30	7.85
TES-MW-1	03/13/17	16.15	7.57	8.58
TES-MW-1	06/13/17	16.15	9.01	7.14
TES-MW-1	08/22/17	16.15	9.90	6.25
TES-MW-1	12/04/17	16.15	8.75	7.40
TES-MW-1	03/06/18	16.15	8.61	7.54
TES-MW-1	06/12/18	16.15	9.56	6.59
TES-MW-1	09/05/18	16.15	10.17	5.98
TES-MW-1	12/17/18	16.15	9.08	7.07
TES-MW-1	03/18/19	16.15	8.73	7.42
TES-MW-1	05/15/19	16.15	9.34	6.81
TES-MW-1	09/17/19	16.15	10.19	5.96
TES-MW-1	12/09/19	16.15	9.99	6.16
TES-MW-1	04/27/20	16.15	9.04	7.11
TES-MW-1	06/29/20	16.15	9.50	6.65
TES-MW-1	09/21/20	16.15	10.23	5.92

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TES-MW-1	12/14/20	16.15	9.43	6.72
TES-MW-1	04/12/21	16.15	8.79	7.36
TES-MW-1	06/14/21	16.15	9.35	6.80
TES-MW-1	09/22/21	16.15	10.15	6.00
TES-MW-1	12/14/21	16.15	7.87	8.28
TES-MW-1	03/28/22	16.15	8.19	7.96
TES-MW-1	06/27/22	16.15	9.18	6.97
TX-03	04/06/93	9.58	5.57	4.01
TX-03	06/10/93	9.58	5.50	4.08
TX-03	07/08/93	9.58	5.81	3.77
TX-03	08/03/93	9.58	6.08	3.50
TX-03	09/08/93	9.58	6.42	3.16
TX-03	10/08/93	9.58	6.74	2.84
TX-03	11/05/93	9.58	6.91	2.67
TX-03	12/03/93	9.58	6.90	2.68
TX-03	01/05/94	9.58	6.16	3.42
TX-03	02/04/94	9.58	Not Measured	Not Measured
TX-03	08/28/95	9.58	6.16	3.42
TX-03	09/27/95	9.58	Not Measured	Not Measured
TX-03	04/27/99	9.58	4.68	4.90
TX-03	07/14/99	9.58	5.87	3.71
TX-03	10/18/99	9.58	6.71	2.87
TX-03	01/11/00	9.58	5.30	4.28
TX-03	04/05/00	9.58	5.31	4.27
TX-03	07/18/00	9.58	5.98	3.60
TX-03	10/02/00	9.58	6.65	2.93
TX-03A	04/23/02	9.58	6.25	3.33
TX-03A	07/18/02	9.58	6.75	2.83
TX-03A	10/23/02	9.58	7.15	2.43
TX-03A	01/28/03	9.58	5.40	4.18
TX-03A	04/15/03	9.58	5.76	3.82
TX-03A	07/17/03	9.58	6.76	2.82
TX-03A	10/15/03	9.58	7.05	2.53
TX-03A	01/13/04	9.58	5.46	4.12
TX-03A	04/19/04	12.26	6.22	6.04
TX-03A	07/27/04	12.26	6.78	5.48
TX-03A	10/18/04	12.26	6.69	5.57
TX-03A	01/24/05	12.26	5.76	6.50
TX-03A	04/18/05	12.26	5.91	6.35
TX-03A	07/12/05	12.26	6.41	5.85
TX-03A	10/18/05	12.26	6.92	5.34
TX-03A	01/25/06	12.26	4.82	7.44

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
TX-03A	04/25/06	12.26	5.82	6.44
TX-03A	10/11/06	12.26	6.91	5.35
TX-03A	11/20/08	12.26	6.14	6.12
TX-03A	04/08/09	12.26	5.90	6.36
TX-03A	11/16/09	12.26	5.80	6.46
TX-03A	04/27/10	12.26	5.53	6.73
TX-03A	10/25/10	12.26	6.20	6.06
TX-03A	10/27/11	12.26	6.74	5.52
TX-03A	03/01/12	12.26	5.86	6.40
TX-03A	06/13/12	12.26	5.97	6.29
TX-03A	09/26/12	12.26	6.67	5.59
TX-03A	11/27/12	12.26	5.21	7.05
TX-03A	02/21/13	12.26	5.55	6.71
TX-03A	05/16/13	12.26	6.01	6.25
TX-03A	09/06/13	12.26	6.56	5.70
TX-03A	11/07/13	12.26	6.45	5.81
TX-03A	04/22/14	12.26	5.45	6.81
TX-03A	07/24/14	12.26	6.28	5.98
TX-03A	09/23/14	12.26	6.57	5.69
TX-03A	11/04/14	12.26	5.64	6.62
TX-03A	03/10/15	12.26	5.57	6.69
TX-03A	05/15/15	12.26	5.98	6.28
TX-03A	07/29/15	12.26	6.51	5.75
TX-03A	12/10/15	12.26	4.48	7.78
TX-03A	02/23/16	12.26	4.44	7.82
TX-03A	05/03/16	12.26	5.46	6.80
TX-03A	08/30/16	12.26	6.59	5.67
TX-03A	12/14/16	12.26	5.04	7.22
TX-03A	03/13/17	12.26	4.56	7.70
TX-03A	05/16/17	12.26	5.12	7.14
TX-03A	06/13/17	12.26	5.63	6.63
TX-03A	08/22/17	12.26	6.37	5.89
TX-03A	12/04/17	12.26	5.20	7.06
TX-03A	03/27/18	12.26	5.42	6.84
TX-03A	06/12/18	12.26	6.33	5.93
TX-03A	09/05/18	12.26	6.43	5.83
TX-03A	12/17/18	12.26	5.61	6.65
TX-03A	03/18/19	12.26	5.12	7.14
TX-03A	05/16/19	12.26	5.56	6.70
TX-03A	09/17/19	12.26	6.42	5.84
TX-03A	12/09/19	12.26	6.27	5.99
TX-03A	04/27/20	12.26	5.45	6.81
TX-03A	06/29/20	12.26	5.65	6.61
TX-03A	09/21/20	12.26	6.43	5.83

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

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03A	12/15/20	12.26	5.70	6.56
TX-03A	04/12/21	12.26	5.12	7.14
TX-03A	06/14/21	12.26	5.72	6.54
TX-03A	09/23/21	12.26	6.35	5.91
TX-03A	12/16/21	12.26	--	--
TX-03A	03/28/22	12.26	4.90	7.36
TX-03A	06/27/22	12.26	5.17	7.09
TX-04	04/06/93	14.36	9.97	4.39
TX-04	05/13/93	14.36	9.83	4.53
TX-04	06/10/93	14.36	9.87	4.49
TX-04	07/08/93	14.36	10.24	4.12
TX-04	08/03/93	14.36	10.54	3.82
TX-04	09/08/93	14.36	10.96	3.40
TX-04	10/08/93	14.36	11.28	3.08
TX-04	11/05/93	14.36	11.51	2.85
TX-04	12/03/93	14.36	11.43	2.93
TX-04	01/05/94	14.36	10.60	3.76
TX-04	02/04/94	14.36	10.45	3.91
TX-04	08/28/95	14.36	10.64	3.72
TX-04	09/27/95	14.36	10.88	3.48
TX-04	04/27/99	14.36	8.57	5.79
TX-04	07/14/99	14.36	10.01	4.35
TX-04	10/18/99	14.36	11.12	3.24
TX-04	01/11/00	14.36	9.06	5.30
TX-04	04/05/00	14.36	9.04	5.32
TX-04	07/18/00	14.36	10.41	3.95
TX-04	10/02/00	14.36	11.23	3.13
TX-04	01/22/01	14.36	10.70	3.66
TX-04	07/23/01	14.36	11.50	2.86
TX-04	10/16/01	14.36	9.57	4.79
TX-04	04/23/02	14.36	6.81	7.55
TX-04	07/18/02	14.36	11.33	3.03
TX-04	10/23/02	14.36	11.79	2.57
TX-04	01/28/03	14.36	9.51	4.85
TX-04	04/15/03	14.36	9.55	4.81
TX-04	07/17/03	14.36	11.28	3.08
TX-04	10/15/03	14.36	11.93	2.43
TX-04	01/13/04	14.36	9.54	4.82
TX-04	04/19/04	17.65	10.50	7.15
TX-04	07/27/04	17.65	11.46	6.19
TX-04	10/18/04	17.65	11.46	6.19
TX-04	01/24/05	17.65	10.16	7.49
TX-04	04/18/05	17.65	10.35	7.30

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

Sample ID	Sample Date	TOC		GW Elevation ft AMSL
		Elevation ft AMSL	Depth to Water ft below TOC	
TX-04	07/12/05	17.65	11.04	6.61
TX-04	10/18/05	17.65	11.79	5.86
TX-04	01/25/06	17.65	8.43	9.22
TX-04	04/25/06	17.65	10.22	7.43
TX-04	10/11/06	17.65	11.77	5.88
TX-04	11/18/08	17.65	10.84	6.81
TX-04	11/16/09	17.65	10.39	7.26
TX-04	10/25/10	17.65	10.77	6.88
TX-04	10/26/11	17.65	11.47	6.18
TX-04	11/26/12	17.65	9.26	8.39
TX-04	11/04/13	17.65	10.98	6.67
TX-04	11/06/14	17.65	10.05	7.60
TX-04	02/27/15	17.65	9.37	8.28
TX-04	12/08/15	17.65	9.27	8.38
TX-04	12/14/16	17.65	8.97	8.68
TX-04	12/04/17	17.65	9.64	8.01
TX-04	12/17/18	17.65	10.39	7.26
TX-04	12/09/19	17.65	11.22	6.43
TX-04	12/14/20	17.65	10.45	7.20
TX-04	04/12/21	17.65	9.63	8.02
TX-04	12/15/21	17.65	8.90	8.75
TX-06	04/06/93	8.58	3.85	4.73
TX-06	06/10/93	8.58	3.71	4.87
TX-06	09/08/93	8.58	4.96	3.62
TX-06	10/08/93	8.58	5.35	3.23
TX-06	11/05/93	8.58	5.54	3.04
TX-06	12/03/93	8.58	5.37	3.21
TX-06	01/05/94	8.58	4.48	4.10
TX-06	02/04/94	8.58	4.43	4.15
TX-06	08/28/95	8.58	4.75	3.83
TX-06	09/27/95	8.58	5.78	2.80
TX-06	04/27/99	8.58	2.62	5.96
TX-06	07/14/99	8.58	4.05	4.53
TX-06	10/18/99	8.58	5.19	3.39
TX-06	01/11/00	8.58	2.98	5.60
TX-06	04/05/00	8.58	3.16	5.42
TX-06	07/18/00	8.58	4.25	4.33
TX-06	10/02/00	8.58	5.23	3.35
TX-06	04/25/06	8.58	3.88	4.70
TX-06A	04/23/02	8.58	3.98	4.60
TX-06A	07/18/02	8.58	4.14	4.44
TX-06A	10/23/02	8.58	5.98	2.60

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

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

**Notes:**

= Indicates data collected during this progress report p

-- = Survey data not available

AMSL = above mean sea level

ft = feet

TOC = Top of monitoring well casing

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

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
06/01/04	10.68	NP	NP	5.01	NP	NP	—	—	—	6.20	6.15	0.05	5.33	NP	NP	5.60	NP	NP
10/02/04	10.12	NP	NP	4.77	NP	NP	—	—	—	7.09	6.31	0.78	5.04	NP	NP	4.89	NP	NP
10/03/04	10.50	NP	NP	5.98	NP	NP	—	—	—	7.26	6.71	0.55	5.86	NP	NP	6.06	NP	NP
04/19/04	10.95	NP	NP	6.29	NP	NP	—	—	—	6.99	NP	NP	4.90	NP	NP	5.13	NP	NP
05/13/04	11.24	NP	NP	6.07	NP	NP	—	—	—	6.95	NP	NP	4.78	NP	NP	4.80	NP	NP
08/06/04	11.35	NP	NP	4.76	NP	NP	—	—	—	5.52	NP	NP	4.64	NP	NP	4.41	NP	NP
06/07/04	11.55	NP	NP	5.06	NP	NP	—	—	—	6.98	NP	NP	4.55	NP	NP	4.61	NP	NP
11/08/04	11.79	NP	NP	6.51	NP	NP	—	—	—	7.22	NP	NP	7.18	NP	NP	7.27	NP	NP
09/09/04	11.79	NP	NP	6.66	NP	NP	—	—	—	7.19	7.18	0.01	7.16	NP	NP	7.14	7.14	Trace
06/10/04	11.76	NP	NP	6.58	NP	NP	—	—	—	7.18	NP	NP	7.11	NP	NP	7.08	NP	NP
09/11/04	11.61	NP	NP	6.17	NP	NP	—	—	—	7.04	7.01	0.03	6.93	NP	NP	6.95	6.95	Trace
10/12/04	—	—	—	3.91	NP	NP	—	—	—	6.96	NP	NP	5.31	NP	NP	5.00	NP	NP
11/01/05	11.04	NP	NP	3.80	NP	NP	—	—	—	5.78	NP	NP	4.85	4.85	Trace	4.71	NP	NP
11/02/05	10.81	10.81	Trace	4.47	NP	NP	—	—	—	6.19	6.18	0.01	5.71	NP	NP	5.68	NP	NP
11/03/05	11.18	NP	NP	5.48	NP	NP	—	—	—	6.73	NP	NP	6.56	6.56	Trace	6.50	NP	NP
04/18/05	10.98	NP	NP	5.97	NP	NP	—	—	—	6.95	6.81	0.14	6.18	NP	NP	6.42	NP	NP
05/25/05	10.98	NP	NP	4.78	NP	NP	—	—	—	6.12	NP	NP	5.73	NP	NP	5.78	NP	NP
09/06/05	11.15	NP	NP	5.74	NP	NP	—	—	—	6.68	6.67	0.01	6.11	NP	NP	6.33	NP	NP
11/07/05	11.40	NP	NP	6.12	NP	NP	—	—	—	7.13	NP	NP	6.32	NP	NP	6.65	NP	NP
08/19/05	11.64	NP	NP	6.25	NP	NP	—	—	—	6.91	NP	NP	6.50	NP	NP	7.85	NP	NP
09/16/05	11.83	NP	NP	6.51	NP	NP	—	—	—	7.32	NP	NP	6.85	NP	NP	7.02	NP	NP
10/18/05	11.98	NP	NP	6.06	NP	NP	—	—	—	6.93	NP	NP	6.51	NP	NP	6.54	NP	NP
09/11/05	11.67	NP	NP	4.43	NP	NP	—	—	—	6.34	NP	NP	4.86	NP	NP	4.10	NP	NP
05/12/05	11.48	NP	NP	4.65	NP	NP	—	—	—	6.57	NP	NP	—	—	—	—	—	—
01/26/06	9.96	NP	NP	4.72	NP	NP	—	—	—	5.83	NP	NP	6.65	NP	NP	3.95	NP	NP
02/28/06	10.24	NP	NP	5.34	NP	NP	—	—	—	6.28	NP	NP	4.53	NP	NP	4.88	NP	NP
03/24/06	10.57	NP	NP	5.34	NP	NP	—	—	—	4.20	NP	NP	5.74	NP	NP	4.94	NP	NP
04/18/06	10.78	NP	NP	5.41	NP	NP	—	—	—	6.46	6.45	0.01	5.81	NP	NP	5.28	NP	NP
05/18/06	11.06	NP	NP	6.02	NP	NP	—	—	—	7.01	NP	NP	6.32	NP	NP	5.56	NP	NP
06/19/06	11.26	NP	NP	5.98	NP	NP	—	—	—	6.91	NP	NP	6.23	NP	NP	5.48	NP	NP
08/28/06	11.74	NP	NP	6.45	NP	NP	—	—	—	7.25	NP	NP	6.63	NP	NP	5.68	NP	NP
09/15/06	11.83	NP	NP	6.21	NP	NP	—	—	—	7.02	NP	NP	6.54	NP	NP	5.53	NP	NP
10/11/06	11.96	NP	NP	6.10	NP	NP	—	—	—	6.95	NP	NP	5.93	NP	NP	5.48	NP	NP
11/29/06	—	—	—	4.19	NP	NP	—	—	—	5.83	NP	NP	5.39	NP	NP	4.27	NP	NP
12/13/06	10.53	NP	NP	3.60	NP	NP	—	—	—	5.58	5.58	0.01	4.39	NP	NP	2.81	NP	NP
01/31/07	10.17	NP	NP	3.98	NP	NP	—	—	—	6.32	6.09	0.23	5.58	NP	NP	4.26	NP	NP
02/26/07	10.56	NP	NP	4.55	NP	NP	—	—	—	6.04	NP	NP	5.24	NP	NP	4.12	NP	NP
03/20/07	10.68	NP	NP	4.68	NP	NP	—	—	—	6.42	6.41	0.01	5.68	NP	NP	4.82	NP	NP
04/26/07	10.99	NP	NP	—	NP	NP	—	—	—	—	NP	NP	6.15	NP	NP	4.97	4.96	0.01
05/25/07	11.29	NP	NP	5.68	NP	NP	—	—	—	7.05	NP	NP	6.60	NP	NP	5.11	NP	NP
06/15/07	11.50	NP	NP	5.93	NP	NP	—	—	—	7.04	NP	NP	6.35	NP	NP	5.03	NP	NP
07/19/07	11.70	NP	NP	5.82	5.81	0.01	—	—	—	6.81	6.80	0.01	6.34	NP	NP	5.29	5.28	0.01
08/17/07	11.81	NP	NP	5.90	NP	NP	—	—	—	6.75	NP	NP	6.22	NP	NP	5.35	NP	NP
09/11/07	—	NP	NP	6.24	NP	NP	—	—	—	7.28	7.28	<.01	6.68	6.68	<.01	5.73	NP	NP
10/29/07	11.80	NP	NP	5.60	NP	NP	—	—	—	6.68	NP	NP	5.25	NP	NP	6.03	NP	NP
11/12/07	11.84	NP	NP	5.56	NP	NP	—	—	—	6.58	6.57-6.58	<.01	5.82	NP	NP	4.83	—	—
12/26/07	10.84	NP	NP	4.09	NP	NP	—	—	—	5.85	5.84	<.01	4.84	4.85	<.01	4.44	4.43	<.01
01/11/08	10.64	NP	NP	3.84	NP	NP	—	—	—	5.26	5.25	0.01	4.13	4.12	<.01	3.64	3.63	<.01
02/13/08	10.65	NP	NP	4.58	NP	NP	—	—	—	6.60	6.25	0.35	5.75	NP	NP	4.84	NP	NP
03/14/08	11.05	NP	NP	5.37	NP	NP	—	—	—	6.31	NP	NP	5.65	NP	NP	5.01	NP	NP

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

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
04/18/08	10.78	NP	NP	5.41	NP	NP	—	—	—	6.46	6.45	0.01	5.81	NP	NP	5.28	NP	NP
05/05/08	11.39	NP	NP	5.84	NP	NP	—	—	—	7.06	7.05	0.01	6.39	NP	NP	5.49	NP	NP
05/20/08	11.53	NP	NP	5.84	NP	NP	—	—	—	7.03	7.02	0.01	6.69	NP	NP	5.52	NP	NP
06/30/08	11.67	NP	NP	5.85	NP	NP	—	—	—	dry	NP	NP	6.35	6.34	0.01	5.45	5.44	0.01
07/10/08	11.70	NP	NP	5.70	NP	NP	—	—	—	6.83	6.80	0.03	6.23	NP	NP	5.24	NP	NP
08/13/08	11.75	NP	NP	5.61	NP	NP	—	—	—	6.75	NP	NP	6.25	NP	NP	6.17	NP	NP
09/02/08	11.82	NP	NP	5.86	NP	NP	—	—	—	6.98	NP	NP	6.40	NP	NP	5.71	NP	NP
10/10/08	11.82	NP	NP	7.11	NP	NP	—	—	—	5.83	NP	NP	6.59	NP	NP	5.83	NP	NP
11/10/08	10.02	NP	NP	4.68	NP	NP	—	—	—	6.40	NP	NP	5.61	NP	NP	5.21	NP	NP
12/08/08	11.48	NP	NP	5.53	NP	NP	—	—	—	6.70	6.52	0.18	5.82	NP	Sheen	5.17	NP	Sheen
01/07/09	11.00	NP	NP	3.93	NP	NP	—	—	—	5.32	NP	Sheen	4.51	NP	Sheen	4.41	NP	Sheen
02/17/09	11.60	NP	NP	5.20	NP	NP	—	—	—	6.40	NP	Sheen	5.72	NP	Sheen	5.21	NP	Sheen
03/06/09	11.21	NP	NP	4.67	NP	NP	—	—	—	6.02	5.59	0.43	4.45	NP	Sheen	4.83	NP	Sheen
04/07/09	—	—	—	—	—	—	—	—	—	6.98	6.96	0.02	—	—	—	—	—	—
07/09/09	11.55	NP	NP	—	—	—	—	—	—	6.90	NP	Sheen	6.34	NP	Sheen	5.56	NP	Sheen
10/20/09	11.75	NP	NP	4.90	NP	NP	—	—	—	6.28	NP	Sheen	5.63	NP	Sheen	4.91	NP	Sheen
01/05/10	10.98	NP	NP	3.60	NP	NP	—	—	—	5.78	NP	Sheen	3.55	NP	NP	3.30	NP	NP
04/26/10	10.7	NP	NP	5.04	NP	NP	—	—	—	6.29	6.28	0.01	5.76	NP	NP	5.05	NP	NP
07/22/10	11.44	NP	NP	5.83	NP	NP	—	—	—	10.02	NP	Sheen	6.74	NP	NP	5.37	NP	Sheen
10/20/10	11.68	NP	NP	5.90	NP	NP	—	—	—	6.78	NP	Sheen	6.20	NP	Sheen	5.45	NP	Sheen
12/12/10	10.79	NP	NP	4.45	NP	NP	—	—	—	5.97	NP	<0.01	5.27	NP	NP	4.62	NP	Sheen
04/08/11	9.97	NP	NP	4.62	NP	NP	—	—	—	5.72	5.71	0.01	5.22	NP	NP	4.82	NP	NP
07/28/11	11.08	NP	NP	5.71	NP	NP	—	—	—	6.90	6.89	0.01	6.22	NP	NP	5.38	NP	NP
09/21/11	11.75	NP	NP	6.19	NP	NP	—	—	—	7.06	7.05	0.01	6.55	NP	NP	5.78	NP	Sheen
03/26/12	—	—	—	4.68	NP	NP	—	—	—	6.09	5.76	0.33	5.08	NP	NP	4.19	NP	Sheen
06/12/12	11.20	NP	NP	5.24	NP	NP	—	—	—	7.25	6.38	0.87	5.86	NP	NP	4.69	NP	Sheen
09/27/12	—	—	—	8.39	NP	NP	—	—	—	7.29	6.98	0.31	6.73	NP	NP	5.47	NP	Sheen
11/27/12	10.81	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
12/20/12	—	—	—	2.15	NP	NP	—	—	—	5.40	4.72	0.68	1.97	NP	NP	0.00	NP	NP
02/22/13	10.81	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
03/29/13	—	—	—	—	—	—	—	—	—	6.53	6.44	0.09	5.97	NP	Sheen	4.90	NP	Sheen
05/16/13	11.30	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
06/28/13	—	—	—	4.98	NP	NP	—	—	—	6.35	6.33	0.02	5.68	NP	NP	4.42	NP	Sheen
09/06/13	11.77	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
09/11/13	—	—	—	5.67	NP	Sheen	—	—	—	6.63	NP	NP	—	—	—	5.32	4.82	0.50
09/12/13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.52	5.03	0.49
10/30/13	—	—	—	5.97	NP	NP	—	—	—	7.08	6.96	0.12	6.43	NP	NP	5.29	5.28	0.01
11/07/13	11.73	NP	NP	5.51	NP	NP	—	—	—	6.44	6.41	0.03	5.68	NP	NP	5.54	5.51	0.03
01/16/14	—	—	—	5.46	NP	NP	5.46	5.51	0.05	6.48	6.36	0.12	5.51	NP	NP	5.47	5.43	0.04
02/27/14	—	—	—	4.72	NP	NP	6.04	NP	Sheen	6.79	6.12	0.67	5.01	NP	NP	6.12	NP	Sheen
03/25/14	—	—	—	4.91	NP	NP	5.90	NP	NP	6.96	5.84	1.12	5.38	NP	NP	6.30	NP	NP
04/22/14	10.78	NP	NP	4.98	NP	NP	5.89	NP	NP	6.32	5.98	0.34	5.33	NP	NP	5.85	NP	Sheen
06/10/14	—	—	—	5.62	NP	Sheen	8.31	NP	NP	7.08	6.85	0.23	6.02	NP	NP	—	NP	NP
07/24/14	—	—	—	5.50	NP	NP	6.91	NP	NP	6.64	6.56	0.08	6.85	NP	NP	6.06	NP	Sheen
08/28/14	—	—	—	5.73	NP	NP	6.79	NP	NP	6.72	6.65	0.07	6.06	NP	NP	6.23	NP	NP
09/23/14	—	—	—	5.76	NP	NP	5.73	NP	NP	6.65	6.55	0.10	5.96	NP	NP	6.08	NP	NP
10/22/14	—	—	—	4.82	NP	NP	4.91	NP	NP	5.87	NP	NP	4.96	NP	NP	4.13	NP	Sheen
11/05/14	11.04	NP	NP	4.50	NP	NP	6.60	NP	NP	6.45	5.90	0.55	4.70	NP	NP	5.12	NP	NP
12/18/14	—	—	—	4.28	NP	NP	5.77	NP	NP	5.49	5.26	0.23	4.50	NP	NP	4.89	NP	NP
01/27/15	—	—	—	4.52	NP	NP	4.88	NP	NP	6.15	5.60	0.55	4.82	NP	NP	5.38	NP	NP

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

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
02/26/15	—	—	—	4.92	NP	NP	5.54	NP	NP	6.69	5.88	0.81	5.38	NP	NP	5.59	NP	NP
03/11/15	10.75	NP	NP	5.29	NP	NP	5.55	NP	NP	6.56	6.15	0.41	5.52	NP	NP	5.45	NP	Sheen
04/21/15	—	—	—	5.08	NP	NP	—	—	—	6.44	6.36	0.08	5.50	NP	NP	5.85	NP	NP
05/19/15	11.21	NP	NP	5.31	NP	NP	8.60	NP	NP	6.50	6.49	0.01	5.71	NP	NP	5.67	NP	NP
06/11/15	—	—	—	5.34	NP	NP	—	—	—	6.48	NP	NP	5.70	NP	NP	5.46	NP	NP
07/29/15	11.59	NP	NP	5.81	NP	NP	—	—	—	6.73	NP	NP	6.10	NP	NP	5.85	NP	NP
08/25/15	—	—	—	5.95	NP	NP	—	—	—	6.23	NP	NP	6.17	NP	NP	6.82	NP	NP
09/24/15	—	—	—	5.72	NP	NP	—	—	—	6.60	NP	NP	5.72	NP	NP	6.33	NP	NP
10/15/15	—	—	—	5.35	NP	NP	—	—	—	6.30	NP	NP	5.30	NP	NP	5.82	NP	NP
11/20/15	—	—	—	4.37	NP	NP	—	—	—	6.47	5.67	0.80	4.78	NP	NP	5.51	NP	NP
12/09/15	9.91	NP	NP	2.55	NP	NP	—	—	—	4.45	4.45	Trace	2.80	NP	NP	3.61	NP	NP
02/23/16	—	—	—	4.18	NP	NP	—	—	—	5.82	5.23	0.59	4.45	NP	NP	4.38	NP	Odor
04/22/16	—	—	—	4.90	NP	NP	—	—	—	5.96	5.83	0.13	4.67	NP	NP	5.37	NP	NP
05/03/16	—	—	—	5.27	NP	NP	—	—	—	6.42	6.19	0.23	5.63	NP	NP	6.00	NP	NP
06/02/16	—	—	—	5.34	NP	NP	—	—	—	6.44	6.44	Odor	5.77	NP	NP	6.18	NP	NP
07/14/16	—	—	—	5.58	NP	NP	—	—	—	6.67	NP	NP	6.02	NP	NP	6.27	NP	NP
08/18/16	—	—	—	5.80	NP	NP	—	—	—	6.78	6.78	Odor	6.16	NP	NP	6.44	NP	NP
09/08/16	—	—	—	5.88	NP	NP	—	—	—	6.78	6.78	Odor	6.22	NP	NP	6.55	NP	NP
10/21/16	—	—	—	5.40	NP	NP	—	—	—	6.32	Trace	Trace	6.01	NP	NP	6.10	NP	NP
11/17/16	—	—	—	3.67	NP	NP	—	—	—	5.43	4.49	0.94	3.86	NP	NP	4.68	NP	NP
12/01/16	—	—	—	3.93	NP	NP	—	—	—	6.00	4.94	1.06	4.14	NP	NP	4.88	NP	NP
12/14/16	10.34	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/11/17	—	—	—	2.83	NP	NP	—	—	—	5.38	5.34	0.04	3.18	NP	NP	3.88	NP	Sheen
02/14/17	—	—	—	3.81	NP	NP	—	—	—	5.69	4.75	0.94	4.02	NP	NP	4.79	NP	NP
03/13/17	9.83	NP	NP	4.04	NP	NP	—	—	—	5.98	5.17	0.81	4.27	NP	NP	4.98	NP	NP
04/13/17	—	—	—	3.78	NP	NP	—	—	—	6.42	5.03	1.39	4.02	NP	NP	5.02	NP	NP
05/08/17	—	—	—	4.78	NP	NP	—	—	—	6.74	5.83	0.91	5.32	NP	NP	5.31	NP	NP
06/13/17	—	—	—	5.00	NP	NP	—	—	—	6.18	5.98	0.20	5.36	NP	NP	5.60	NP	NP
07/18/17	—	—	—	5.32	NP	NP	—	—	—	6.47	6.43	0.04	5.78	NP	NP	5.83	NP	NP
08/22/17	11.34	NP	NP	5.32	NP	NP	—	—	—	6.42	NP	NP	5.76	NP	NP	5.92	NP	NP
09/13/17	—	—	—	5.68	NP	NP	—	—	—	6.60	NP	NP	—	—	—	6.21	NP	NP
10/31/17	—	—	—	5.58	NP	NP	—	—	—	6.64	NP	NP	—	—	—	6.17	NP	NP
11/13/17	—	—	—	4.67	NP	NP	—	—	—	6.08	NP	NP	—	—	—	4.98	NP	NP
12/04/17	10.84	NP	NP	4.15	NP	NP	—	—	—	6.05	5.53	0.52	—	—	—	5.38	NP	NP
01/24/18	—	—	—	3.55	NP	NP	—	—	—	5.34	4.95	0.39	3.78	NP	NP	4.16	NP	NP
02/15/18	—	—	—	4.68	NP	NP	—	—	—	6.65	5.64	1.01	4.40	NP	NP	5.42	NP	NP
03/06/18	10.55	NP	NP	4.57	NP	NP	—	—	—	6.19	5.80	0.39	5.03	NP	NP	5.46	NP	NP
04/12/18	—	—	—	4.72	NP	NP	—	—	—	4.96	4.87	0.09	5.68	NP	NP	5.37	NP	NP
05/02/18	—	—	—	4.85	NP	NP	—	—	—	6.22	5.80	0.42	5.17	NP	NP	5.54	NP	NP
06/12/18	11.04	NP	NP	5.25	NP	NP	—	—	—	6.50	6.47	0.03	5.73	NP	NP	6.06	NP	NP
07/12/18	—	—	—	5.24	NP	NP	—	—	—	6.40	6.39	0.01	6.70	NP	NP	5.94	NP	NP
08/23/18	—	—	—	5.57	NP	NP	—	—	—	6.56	6.55	0.01	5.97	NP	NP	6.08	NP	NP
09/05/18	8.20	NP	NP	5.75	NP	NP	—	—	—	6.74	NP	NP	6.16	NP	NP	6.35	NP	NP
10/11/18	—	—	—	5.18	NP	NP	—	—	—	6.32	NP	NP	5.50	NP	NP	5.83	NP	NP
11/07/18	—	—	—	5.01	NP	NP	—	—	—	6.33	NP	NP	5.56	NP	NP	5.66	NP	NP
12/17/18	11.10	NP	NP	4.13	NP	NP	—	—	—	5.31	NP	NP	4.14	NP	NP	4.43	NP	NP
01/16/19	—	—	—	4.48	NP	NP	—	—	—	6.07	5.35	0.72	4.30	NP	NP	5.56	NP	NP
02/20/19	—	—	—	3.98	NP	NP	—	—	—	6.45	5.02	1.43	4.22	NP	NP	4.32	NP	NP
03/18/19	10.51	NP	NP	4.95	4.94	0.01	—	—	—	6.67	5.96	0.71	5.34	NP	NP	6.12	NP	NP
04/10/19	—	—	—	4.66	NP	NP	—	—	—	5.24	NP	NP	4.98	NP	NP	5.78	5.75	0.03

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

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
05/15/19	—	—	—	4.19	NP	NP	—	—	—	7.05	6.22	0.83	5.38	NP	NP	6.13	6.10	0.03
06/26/19	—	—	—	5.47	NP	NP	—	—	—	6.58	6.56	0.02	6.88	NP	NP	6.11	NP	NP
07/24/19	—	—	—	5.43	NP	NP	—	—	—	6.59	6.58	0.01	5.88	NP	NP	5.96	NP	NP
08/13/19	—	—	—	5.45	NP	NP	—	—	—	6.58	6.57	0.01	5.72	NP	NP	6.02	NP	NP
09/17/19	11.65	NP	NP	5.23	NP	NP	—	—	—	6.18	6.13	0.05	5.54	NP	NP	6.28	6.25	0.03
10/16/19	—	—	—	5.61	NP	NP	—	—	—	6.47	6.45	0.02	5.77	NP	NP	6.36	NP	NP
11/05/19	—	—	—	5.62	NP	NP	—	—	—	6.78	6.68	0.10	6.01	NP	NP	6.51	NP	NP
12/09/19	11.54	NP	NP	5.08	NP	NP	—	—	—	6.27	NP	NP	5.54	NP	NP	6.14	NP	NP
01/28/20	—	—	—	3.05	NP	NP	—	—	—	4.13	4.06	0.07	3.12	NP	NP	2.03	NP	NP
02/26/20	—	—	—	4.81	NP	NP	—	—	—	6.71	5.78	0.93	5.19	NP	NP	4.97	NP	Sheen
04/27/20	10.94	NP	NP	5.18	NP	NP	—	—	—	6.43	6.23	0.20	5.47	NP	NP	5.29	NP	NP
06/16/20	—	—	—	5.25	NP	NP	—	—	—	5.69	5.56	0.13	5.72	NP	NP	6.25	NP	NP
06/29/20	11.26	NP	NP	5.08	NP	NP	—	—	—	6.58	6.50	0.08	5.78	NP	NP	5.85	NP	NP
07/29/20	—	—	—	5.20	NP	NP	—	—	—	6.43	6.42	0.01	5.67	NP	NP	6.31	NP	NP
08/27/20	—	—	—	5.41	NP	NP	—	—	—	6.71	6.70	0.01	5.85	NP	NP	6.15	NP	NP
09/21/20	11.59	NP	NP	5.09	NP	NP	—	—	—	6.35	NP	NP	5.45	NP	NP	6.23	NP	NP
10/29/20	—	—	—	5.58	NP	NP	—	—	—	6.87	6.50	0.37	5.99	NP	NP	6.23	NP	NP
11/30/20	—	—	—	4.82	NP	NP	—	—	—	6.23	5.78	0.45	5.11	NP	NP	5.10	NP	NP
12/14/20	11.22	NP	NP	4.75	NP	NP	—	—	—	6.05	5.91	0.14	5.28	NP	NP	5.83	NP	NP
01/21/21	—	—	—	4.27	NP	NP	—	—	—	6.96	4.9	2.06	4.82	NP	NP	5.63	NP	NP
02/16/21	—	—	—	3.69	NP	NP	—	—	—	5.83	4.92	0.91	4.18	NP	NP	4.25	NP	NP
03/23/21	—	—	—	4.53	NP	NP	—	—	—	6.57	6.11	0.46	5.37	NP	NP	5.74	NP	NP
04/12/21	—	—	—	5.28	NP	NP	—	—	—	6.42	6.32	0.10	5.65	NP	NP	6.31	NP	NP
05/12/21	—	—	—	5.54	NP	NP	—	—	—	6.61	6.57	0.04	5.86	NP	NP	6.21	NP	NP
06/14/21	—	—	—	4.97	NP	NP	—	—	—	6.15	NP	NP	5.24	NP	NP	5.62	NP	NP
07/15/21	—	—	—	5.31	NP	NP	—	—	—	6.36	6.32	0.04	5.60	NP	NP	6.01	NP	NP
08/18/21	—	—	—	5.52	NP	NP	—	—	—	6.60	NP	Sheen	5.90	NP	NP	6.16	NP	NP
09/22/21	11.65	NP	NP	5.46	NP	NP	—	—	—	6.50	NP	NP	5.70	NP	NP	6.10	NP	NP
10/21/21	—	—	—	5.32	NP	NP	—	—	—	6.36	NP	NP	5.50	NP	NP	6.05	NP	NP
11/23/21	—	—	—	4.28	NP	NP	—	—	—	6.20	5.38	0.82	4.42	NP	NP	5.19	NP	NP
12/14/21	10.42	NP	NP	3.99	NP	NP	—	—	—	5.12	NP	NP	4.39	NP	NP	4.79	NP	NP
01/25/22	—	—	—	4.34	NP	NP	—	—	—	6.34	5.45	0.89	4.85	NP	NP	5.67	NP	NP
02/28/22	—	—	—	4.59	NP	NP	—	—	—	6.31	NP	NP	4.51	NP	NP	2.86	NP	NP
03/28/22	—	—	—	4.63	NP	NP	—	—	—	5.92	NP	NP	5.00	NP	NP	5.98	NP	NP
04/18/22	—	—	—	5.08	NP	NP	—	—	—	6.18	6.15	0.03	5.28	NP	NP	5.98	NP	NP
05/23/22	—	—	—	4.81	NP	NP	—	—	—	6.50	6.29	0.21	5.28	NP	NP	5.70	NP	NP
06/27/22	11.18	NP	NP	5.02	NP	NP	—	—	—	6.21	6.06	0.15	5.28	NP	NP	5.90	NP	NP

**Notes:**

= Indicates data collected during this progress report period

Depth relative to the measuring point at the top of the monitoring well PVC pipe

Product depth/thick = product depth/thickness in well measured in feet

— = not measured

NP = no product detected

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-05	05/04/16	14.3	357	3.38	6.26	31.6	9.99	--	--	--	--	--	--
MW-05	12/14/16	12.22	308	5.94	6.45	47	0	--	--	--	--	--	--
MW-05	06/14/17	14.8	249	1.7	6.37	25.4	5.13	--	--	--	--	--	--
MW-05	12/07/17	15.16	263	791.21	6.73	-165.1	8.37	--	--	--	--	--	--
MW-05	06/12/18	15.66	211	1.47	6.35	-44.7	6.88	--	--	--	--	--	--
MW-05	12/18/18	15	299	1.73	7.28	-23.6	80	--	--	--	--	--	--
MW-05	05/15/19	15.3	294	0.85	6.92	18.3	45	--	--	--	--	--	--
MW-05	12/10/19	14.31	300	4.76	5.91	32.8	16	--	--	--	--	--	--
MW-05	06/29/20	14.7	289	0.31	6.74	198.90	11	--	--	--	--	--	--
MW-05	12/14/20	13.95	292	0.71	8.25	148.90	16	--	--	--	--	--	--
MW-05	06/15/21	9.16	276	0.99	6.77	29.8	22	--	--	--	--	--	--
MW-05	12/15/21	13.5	241	0.57	10.40	-83.3	21	--	--	--	--	--	--
MW-05	04/18/22	12.06	356	0.14	7.87	77.8	13	--	--	--	--	--	--
MW-05	06/29/22	15	351	0.71	6.21	36.9	34	--	--	--	--	--	--
MW-101	12/13/16	8.35	244	1.67	6.81	-75	0	--	--	--	--	--	--
MW-101	12/06/17	10.99	103	0.32	6.75	-12.3	9	--	--	--	--	--	--
MW-101	12/19/18	12.5	239	1.38	7.39	-74.6	11	--	--	--	--	--	--
MW-101	12/09/19	13.13	207	3.59	6.49	-69.6	44	--	--	--	--	--	--
MW-101	12/16/20	12.73	243	0.25	7.67	118.40	48	--	--	--	--	--	--
MW-101	12/14/21	11.5	314	0.59	6.79	124.0	25	--	--	--	--	--	--
MW-102	12/14/16	9.44	438	1.96	6.77	32	0	--	--	--	--	--	--
MW-102	12/05/17	11.76	310	1.14	6.43	106.3	9.6	--	--	--	--	--	--
MW-102	12/18/18	14.2	415	1.51	7.49	-35.9	12	--	--	--	--	--	--
MW-102	12/10/19	13.55	410	3.43	6.16	59.4	27	--	--	--	--	--	--
MW-102	12/16/20	13.66	477	0.41	7.72	117.60	30	--	--	--	--	--	--
MW-102	12/16/21	12.2	295	0.77	8.10	73.9	11	--	--	--	--	--	--
MW-104	05/05/16	17.11	420	0.65	6.19	-105.1	4.31	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-104	12/14/16	10.9	340	1.76	6.49	-70	0	--	--	--	--	--	--
MW-104	06/14/17	17.09	323	0.82	7.09	-39.3	2.61	--	--	--	--	--	--
MW-104	12/07/17	15.6	349	0.61	6.65	-4	0	--	--	--	--	--	--
MW-104	06/12/18	19.32	180	0.54	6.24	-44	2.52	--	--	--	--	--	--
MW-104	12/18/18	15.8	331	1.34	7.35	-41.6	10	--	--	--	--	--	--
MW-104	05/15/19	17.8	258	0.78	6.6	-74.9	6	--	--	--	--	--	--
MW-104	12/10/19	15.35	345	2.66	5.4	74.8	36	--	--	--	--	--	--
MW-104	06/29/20	17.6	395	0.24	6.73	198.90	9	--	--	--	--	--	--
MW-104	12/14/20	16.19	412	0.34	7.75	172.10	13	--	--	--	--	--	--
MW-104	06/15/21	11.03	309	1.74	7.20	58.9	6	--	--	--	--	--	--
MW-104	12/15/21	14.4	275	0.15	10.06	-115.0	9	--	--	--	--	--	--
MW-104	04/18/22	13.97	297	0.11	8.15	62	27	--	--	--	--	--	--
MW-104	06/29/22	17	314	0.52	6.35	-38.2	13	--	--	--	--	--	--
MW-105	12/14/16	14.63	160	0.32	6.14	-58.1	8.67	--	--	--	--	--	--
MW-105	12/06/17	13.11	136	1.37	6.12	-26.4	0	--	--	--	--	--	--
MW-105	12/18/18	15.5	93	1.01	7.21	-33.7	49	--	--	--	--	--	--
MW-105	12/11/19	15.53	166	0.48	7.31	-17.2	25	--	--	--	--	--	--
MW-105	12/14/20	14.90	289	0.50	7.83	155.60	27	--	--	--	--	--	--
MW-105	12/15/21	13.0	170	0.13	9.91	-101.9	15	--	--	--	--	--	--
MW-111	05/04/16	15.2	148	3.67	6.29	4.6	23.2	--	--	--	--	--	--
MW-111	12/14/16	13.4	295	0.35	6.45	-87.3	6.48	--	--	--	--	--	--
MW-111	06/14/17	16.6	112	1.12	7.08	1	8.2	--	--	--	--	--	--
MW-111	12/06/17	15.03	386	10.65	6.42	-51.3	5.13	--	--	--	--	--	--
MW-111	06/12/18	17.56	118	0.73	6.22	-46.2	4.01	--	--	--	--	--	--
MW-111	12/18/18	15	417	1.25	7.76	-46.6	20	--	--	--	--	--	--
MW-111	05/15/19	16.1	147	0.75	7.57	-55.6	14	--	--	--	--	--	--
MW-111	12/11/19	15.42	280	0.4	7.54	-13.1	6	--	--	--	--	--	--
MW-111	06/29/20	19	116	0.55	6.75	206.50	9	--	--	--	--	--	--
MW-111	12/14/20	15.93	242	0.28	7.61	169.80	16	--	--	--	--	--	--
MW-111	06/15/21	10.31	110	1.05	6.87	73.4	22	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-111	12/15/21	14.9	238	0.18	9.85	-72.1	6	--	--	--	--	--	--
MW-111	04/18/22	12.31	139	0.09	8.15	62.3	44	--	--	--	--	--	--
MW-111	06/27/22	18.4	119	0.62	6.21	11.8	34	--	--	--	--	--	--
MW-112A	05/05/16	14.28	448	0.87	6.41	-87	4.41	--	--	--	--	--	--
MW-112A	12/12/16	13.7	401	0.67	6.51	-87.1	9.78	--	--	--	--	--	--
MW-112A	06/15/17	15.75	498	0.6	7.26	-62.6	--	--	--	--	--	--	--
MW-112A	12/07/17	13.97	359	0.82	6.5	-27.9	0	--	--	--	--	--	--
MW-112A	06/13/18	16.28	517	0.26	6.51	-56.1	0	--	--	--	--	--	--
MW-112A	12/20/18	14	495	0.12	6.75	-101	128	--	--	--	--	--	--
MW-112A	05/16/19	10.91	529	0.52	6.27	-104	77	--	--	--	--	--	--
MW-112A	12/12/19	13.87	620	0.5	8.9	-80.8	12	--	--	--	--	--	--
MW-112A	06/29/20	15.7	430	0.32	6.76	189.10	16	--	--	--	--	--	--
MW-112A	12/14/20	14.67	399	0.18	7.77	123.70	5	--	--	--	--	--	--
MW-112A	06/15/21	9.58	338	0.89	6.56	31.4	4	--	--	--	--	--	--
MW-112A	12/15/21	14.4	243	0.19	9.95	-85.8	12	--	--	--	--	--	--
MW-112A	04/18/22	11.44	305	0.09	8.24	56.9	18	--	--	--	--	--	--
MW-112A	06/28/22	16.2	272	0.52	6.27	-37.2	14	--	--	--	--	--	--
MW-113	06/27/22	15.4	284	0.54	6.28	-38.4	37	--	--	--	--	--	--
MW-114	06/27/22	15.4	139	1.32	6.16	53.6	33	--	--	--	--	--	--
MW-115	06/27/22	16.9	248	0.51	6.11	-33.7	46	--	--	--	--	--	--
MW-201	01/14/04	12	282	1.98	5.59	-95.5	1.5	--	--	--	--	--	--
MW-201	04/20/04	11.4	101	5.52	5	61.3	7	ND	--	--	5.71	--	--
MW-201	01/26/05	9	720	9.12	5.48	129	9	--	--	--	--	--	--
MW-201	04/20/05	11.9	700	6.24	6.66	83	8	0	--	--	7.67	--	--
MW-201	07/13/05	15.4	99	0.16	5.64	178.1	1.9	--	--	--	--	--	--
MW-201	10/20/05	14.1	535	0.42	7.21	49.2	3.9	--	--	--	--	--	--
MW-201	01/26/06	8.3	24	7.47	7.02	-72.5	4	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-201	11/20/08	9.3	172	14.08	6.12	268	38.2	--	--	--	--	--	--
MW-201	04/07/09	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	11/19/09	10.6	13.2	7.79	5.21	61	6.5	--	--	--	--	--	--
MW-201	10/27/10	12.7	15.2	6.92	4.79	157	0.5	--	--	--	--	--	--
MW-201	10/26/11	11.53	655	2.77	7.59	-76	5.9	--	--	--	--	--	--
MW-201	11/27/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	11/06/13	11.78	800	0	6.68	-74	0	--	--	--	--	--	--
MW-201	11/06/14	14.1	121	0	6.08	297	3.3	--	--	--	--	--	--
MW-201	12/13/16	8.12	47	3.58	6.13	142.3	9.27	--	--	--	--	--	--
MW-201	12/06/17	11.3	57	14.37	6.08	37.7	12.2	--	--	--	--	--	--
MW-201	12/19/18	12.6	387	0.65	6.81	-87.4	30	--	--	--	--	--	--
MW-201	12/16/20	11.99	116	0.79	6.75	145.80	120	--	--	--	--	--	--
MW-202	01/14/04	8	52	12.4	5.32	-40.2	9.1	--	--	--	--	--	--
MW-202	04/20/04	12.1	317	1.31	5.27	112	9.8	3	--	--	< 1	--	--
MW-202	01/26/05	11.6	218	1.69	4.8	3	126	--	--	--	--	--	--
MW-202	04/20/05	12.6	44	0	7.78	-60	26	8	--	--	<1	--	--
MW-202	07/13/05	15.7	281	0.11	6.09	-22	6.3	--	--	--	--	--	--
MW-202	10/20/05	15.5	576	0.44	6.42	-47.9	5.5	--	--	--	--	--	--
MW-202	01/26/06	10.78	213	0.18	7.73	-104.7	70	--	--	--	--	--	--
MW-202	11/20/08	14.5	532	3.65	6.4	232	10.2	36.6	--	--	< 1	--	--
MW-202	04/07/09	11.86	0.175	0	6.12	-82	56.1	--	--	--	--	--	--
MW-202	11/19/09	12.4	51.6	1.65	5.81	-53	29.5	19	--	--	82	--	--
MW-202	04/27/10	12.3	34	0.22	5.46	-96	55.4	--	--	--	--	--	--
MW-202	10/27/10	15	29.5	2.35	6.15	-48	24	7.4	--	--	< 1.0	--	--
MW-202	10/26/11	12.9	214	2.45	8.22	-104.2	2.72	8.5	--	--	< 0.50	--	--
MW-202	03/02/12	10.03	334	0	6.3	-39	27.2	--	--	--	--	--	--
MW-202	06/13/12	12.5	284	4.36	7.22	-59	25.7	--	--	--	--	--	--
MW-202	09/26/12	14.2	332	0	6.74	-112	25	--	--	--	--	--	--
MW-202	11/27/12	12.99	383	0	7.33	-70	77.7	--	--	--	15	--	--
MW-202	11/06/13	13.67	263	2.28	5.79	-43.6	4.9	3	--	--	0.76	< 0.200	0.439
MW-202	11/06/14	15.87	373	0	6.47	-49	107	5	< 0.25	< 0.25	7	0.288	0.631

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-202	12/10/15	12.85	241	0.42	6.42	-21.3	98.6	1.5	< 0.10	< 0.10	11.6	24.2	0.628
MW-202	05/03/16	15.95	232	0.36	6.2	-45.6	16.9	--	--	--	--	--	--
MW-202	12/13/16	10.66	223	0.39	6.33	-102.4	9.52	0.5	< 0.0400	< 0.0400	1.24 J	45.3	0.401
MW-202	06/14/17	14.76	222	0.33	7.08	-145.6	9	--	--	--	--	--	--
MW-202	12/06/17	11.62	153	0.71	6	-49	4.5	2.75	< 0.0400	< 0.0400	28.6	11.2	0.45
MW-202	06/14/18	14.22	159	0.69	6.04	-2.9	9.87	--	--	--	--	--	--
MW-202	12/19/18	12.6	287	0.28	6.84	-87.4	22	14	< 0.0400	< 0.0400	58.4	17.9	0.649
MW-202	05/16/19	12.6	266	0.48	6.53	-91.9	71	--	--	--	--	--	--
MW-202	12/10/19	12.88	278	4.97	6.12	-10.2	50	3.5	<0.0600	<0.0600	8.61	28.3	0.543
MW-202	06/29/20	15.4	406	0.77	7.24	173.70	42	--	--	--	--	--	--
MW-202	12/16/20	12.44	272	0.20	7.36	111.10	88	1.20	<0.200	<0.400	9.44 J+	12.90	0.436
MW-202	06/14/21	8.10	254	1.50	6.63	170.6	34	--	--	--	--	--	--
MW-202	12/16/21	11.4	174	0.81	7.76	3.8	125	--	--	--	4.00 J	0.32 J	0.532
MW-202	06/29/22	14.1	637	0.76	6.96	6.3	58	--	--	--	--	--	--
MW-203	01/13/04	12.4	243	2.91	6.38	-6.9	13.7	--	--	--	--	--	--
MW-203	04/19/04	13	369	1.02	6.58	110	39.2	1	--	--	2.4	--	--
MW-203	07/27/04	16.4	514	1.12	6.11	90.9	32.2	--	--	--	--	--	--
MW-203	10/18/04	14.8	643	0.35	9.42	136.8	110	--	--	--	--	--	--
MW-203	01/25/05	12.9	476	2.79	6.37	21	210	--	--	--	--	--	--
MW-203	04/19/05	12.8	44	0	6.22	0	5	5.5	--	--	6.48	--	--
MW-203	07/13/05	15	351	0.67	6.34	-46	15	--	--	--	--	--	--
MW-203	10/20/05	15.9	902	1.12	6.69	-48.7	34	--	--	--	--	--	--
MW-203	01/23/06	11.4	131	2.2	6.45	7.6	60	--	--	--	--	--	--
MW-203	11/18/08	13.9	448	10.3	7.11	87	190	1.35	--	--	17.1	--	--
MW-203	04/08/09	12.23	136	1.87	6.83	-31	338	--	--	--	--	--	--
MW-203	11/17/09	12.2	25.8	5.49	6.28	197	45.6	< 0.1	--	--	8.3	--	--
MW-203	04/26/10	12.7	40.9	0.3	6.81	-109	80.1	--	--	--	--	--	--
MW-203	10/25/10	14.1	43.8	1.58	6.1	-4	51.8	4.3	--	--	14	--	--
MW-203	05/23/11	--	--	--	--	--	--	--	--	--	--	--	--
MW-203	10/26/11	13.98	384	2.94	8.4	-80.9	10.9	8.8	--	--	< 0.50	--	--
MW-203	06/13/12	12.8	375	4.27	7.2	-38	22.3	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-203	11/27/12	14.83	250	0	6.61	22	41.7	--	--	--	24.4	--	--
MW-203	11/06/13	12.59	486	0.18	6.35	-51	0	3	--	--	< 0.50	3.68	0.178
MW-203	11/06/14	16.13	236	4.55	6.71	135.1	28.4	1.5	0.42 J	< 0.25	14.5	< 0.200	0.127
MW-203	12/09/15	12.51	0.407	0	6.05	-60	67.2	5	< 0.10	< 0.10	4.13	24	0.197
MW-203	05/04/16	12.93	266	4.91	6.42	-108	14.5	--	--	--	--	--	--
MW-203	12/13/16	10.46	221	0.73	6.25	-88	9.6	0.5	< 0.0400	< 0.0400	2.27	14.1	0.134
MW-203	06/14/17	15.02	203	0.23	6.09	-205.4	12.7	--	--	--	--	--	--
MW-203	12/08/17	11.65	274	1.6	6.3	43.8	0	1.25	< 0.0400	< 0.0400	21.6	3.32	0.166
MW-203	06/14/18	13.9	265	1.93	6.25	3.9	35.1	--	--	--	--	--	--
MW-203	12/20/18	12.8	357	0.78	7.41	-44.6	>1000	1.4	0.307	0.307	7.81	2.32	0.195
MW-203	05/16/19	10.89	353	1.89	5.52	-1	99	--	--	--	--	--	--
MW-203	12/10/19	12.77	441	4.84	5.3	0.5	41	3	<0.0600	<0.0600	1.34 J	20	0.207
MW-203	06/29/20	15.1	339	1.06	7.18	-9.10	10	--	--	--	--	--	--
MW-203	12/15/20	12.26	319	0.77	8.07	130.10	87	2.00	1.49	<0.400	35.80	<1.00	0.0182
MW-203	06/14/21	7.69	259	1.28	6.33	21.6	406	--	--	--	--	--	--
MW-203	12/16/21	11.6	193	0.21	8.30	16.1	16	--	--	--	16.9	<0.5	0.0505
MW-203	06/28/22	14.1	571	0.57	6.52	13.2	513	--	--	--	--	--	--
MW-204	12/13/16	10.72	173	0.99	5.84	21	4	--	--	--	--	--	--
MW-204	12/06/17	13.48	129	12.04	5.6	49.8	6.22	--	--	--	--	--	--
MW-204	12/19/18	12.9	218	0.33	6.98	-66.1	27	--	--	--	--	--	--
MW-204	12/10/19	13.47	340	1.83	6.01	-6	22	--	--	--	--	--	--
MW-204	12/16/20	13.41	347	1.00	6.27	190.10	70	--	--	--	--	--	--
MW-204	12/16/21	10.5	144	0.22	7.70	-17.2	25	--	--	--	--	--	--
MW-206A	12/12/16	11.31	482	0.68	6.6	-104.9	9.44	--	--	--	--	--	--
MW-206A	12/08/17	11.87	491	1.39	6.63	34	0	--	--	--	--	--	--
MW-206A	12/20/18	13.1	605	0.81	7.41	-52.3	70	--	--	--	--	--	--
MW-206A	12/10/19	13.08	617	2.28	6.07	-41.9	11	--	--	--	--	--	--
MW-206A	12/16/20	12.02	718	0.22	9.45	42.10	440	--	--	--	--	--	--
MW-206A	12/16/21	8.6	394	0.61	8.20	15.9	21	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-213	05/03/16	14.65	12440	0.13	8.26	-330	0	--	--	--	--	--	--
MW-213	12/13/16	9.57	18.7	5.52	8.28	-321	5.6	--	--	--	--	--	--
MW-213	06/14/17	15.37	10550	0.23	7.03	-330.2	7.36	--	--	--	--	--	--
MW-213	12/07/17	12.43	13640	0.55	8.14	-72.3	0	--	--	--	--	--	--
MW-213	06/12/18	14.43	8410	0.91	7.65	-91.3	3.02	--	--	--	--	--	--
MW-213	12/19/18	12.8	11390	0.82	7.57	-45.6	5	--	--	--	--	--	--
MW-213	05/16/19	14.8	11641	1.84	7.5	79.5	2	--	--	--	--	--	--
MW-213	12/11/19	10.91	1322	1.28	8.51	-112.7	16	--	--	--	--	--	--
MW-213	06/29/20	13	16341	0.34	7.83	191.70	9	--	--	--	--	--	--
MW-213	12/16/20	12.38	17,924	0.08	7.99	53.20	0	--	--	--	--	--	--
MW-213	06/14/21	7.18	17,427	0.47	7.89	113.6	3	--	--	--	--	--	--
MW-213	12/16/21	9.9	13,386	0.85	9.67	-101.5	5	--	--	--	--	--	--
MW-213	06/29/22	13.8	20,936	0.43	8.09	-313.6	25	--	--	--	--	--	--
MW-214	05/03/16	14.91	10960	0.44	8.16	-363	0	--	--	--	--	--	--
MW-214	12/14/16	10.5	312	7.24	6.98	39	0	--	--	--	--	--	--
MW-214	06/14/17	15.55	10395	0.05	8.14	-358.6	0.85	--	--	--	--	--	--
MW-214	12/07/17	14.01	7725	838.05	8.01	-355.1	3.11	--	--	--	--	--	--
MW-214	06/12/18	14.77	3900	0.74	7.82	-90.5	0	--	--	--	--	--	--
MW-214	12/19/18	13.4	11888	0.12	7.45	-101.6	29	--	--	--	--	--	--
MW-214	05/16/19	15.7	10667	0.59	7.43	-62.3	3	--	--	--	--	--	--
MW-214	12/11/19	11.41	1576	1.16	10.33	-211.5	9	--	--	--	--	--	--
MW-214	06/29/20	15.93	1516	1.66	7.91	-152.70	12	--	--	--	--	--	--
MW-214	12/16/20	13.00	17,750	0.15	6.90	95.20	6	--	--	--	--	--	--
MW-214	06/14/21	8.21	2,117	1.49	7.47	78.3	2	--	--	--	--	--	--
MW-214	12/16/21	12.5	8,441	0.30	9.34	-172.8	5	--	--	--	--	--	--
MW-214	06/29/22	14.3	1,680	3.25	7.97	-189.6	13	--	--	--	--	--	--
MW-301	02/22/16	12.32	449	0.34	6.5	-127.1	15.1	--	--	--	--	--	--
MW-301	05/02/16	17.58	257	0.29	6.6	-119.6	6.74	--	--	--	--	--	--
MW-301	08/29/16	18.76	183	1.96	6.86	5	0	--	--	--	--	--	--
MW-301	12/12/16	10.16	357	2.37	6.73	-140	0	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-301	03/13/17	11.62	355	0	6.72	-125	0	--	--	--	--	--	--
MW-301	06/13/17	15.6	192	0.37	6.59	-107.4	--	--	--	--	--	--	--
MW-301	08/22/17	20.23	187	0	7.32	-105	0	--	--	--	--	--	--
MW-301	12/08/17	14.93	151	1.2	6.89	-118.3	-11	--	--	--	--	--	--
MW-301	03/06/18	12.6	435	0.82	6.78	19.7	3.19	--	--	--	--	--	--
MW-301	06/13/18	16.7	521	0.21	6.61	-76.4	1.8	--	--	--	--	--	--
MW-301	09/06/18	18.95	651	0.16	6.57	-94.8	1.34	7	--	--	--	--	--
MW-301	12/20/18	15.1	836	0.12	6.53	-50	14	--	--	--	--	--	--
MW-301	03/19/19	13.4	930	1.02	7.52	-48.5	119	--	--	--	--	--	--
MW-301	05/16/19	12.3	693	0.71	6.11	-52	97	--	--	--	--	--	--
MW-301	09/17/19	15.31	373	0.87	6.7	-23.8	11	--	--	--	--	--	--
MW-301	12/11/19	14.25	755	10.14	7.15	55.9	64	--	--	--	--	--	--
MW-301	04/28/20	13.4	628	0.51	7.56	14.60	14	--	--	--	--	--	--
MW-301	06/29/20	20.47	572	0.66	6.50	-28.40	60	--	--	--	--	--	--
MW-301	09/21/20	19.2	699	0.37	6.29	20.80	12	--	--	--	--	--	--
MW-301	12/15/20	11.20	611	0.40	7.53	116.90	33	--	--	--	--	--	--
MW-301	04/13/21	10.6	347	2.26	6.01	35.3	76	--	--	--	--	--	--
MW-301	06/14/21	11.44	726	1.78	7.00	37.3	27	--	--	--	--	--	--
MW-301	09/22/21	18.21	615	1.43	6.54	-35.6	55	--	--	--	--	--	--
MW-301	12/16/21	10.17	502	0.14	6.60	82.3	112	--	--	--	--	--	--
MW-301	03/29/22	12.17	592	0.14	6.82	160.7	30	--	--	--	--	--	--
MW-301	06/27/22	15.9	601	0.44	6.45	-105.6	65	--	--	--	--	--	--
MW-302	03/01/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	06/12/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	06/28/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	09/25/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	11/25/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-302	11/05/13	14.81	346	0.1	6.42	-67	0	6.0-6.5	--	--	13.2	< 0.200	0.349
MW-302	11/03/14	15.91	342	0.53	6.5	-27.8	5.06	2.5	< 0.10	< 0.10	< 0.50	0.765	0.493
MW-302	12/10/15	14.58	337	0.35	6.63	-104.8	0	1.5	< 0.10	< 0.10	< 0.50	27.4	0.402
MW-302	05/04/16	13.6	371	4.92	6.51	-116.5	2.49	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-302	12/15/16	10.93	388	0.95	6.58	-89	0	1	< 0.0400	< 0.0400	< 0.128	35.1	0.572
MW-302	06/13/17	16.99	143	0.3	5.79	39.2	--	--	--	--	--	--	--
MW-302	08/23/17	20.32	358	9.36	7.08	-54	2.7	--	--	--	--	--	--
MW-302	12/05/17	13.54	755	0.89	5.82	30.4	8.95	4.25	< 0.0400	< 0.0400	97.2	42.9	2.15
MW-302	03/07/18	11.57	984	0.27	6.15	12	9.95	--	--	--	--	--	--
MW-302	06/13/18	16.08	446	0.81	6.04	-61.4	5.51	--	--	--	--	--	--
MW-302	09/06/18	19.67	424	0.74	6.49	-27	3.37	1.75	--	--	--	--	--
MW-302	12/20/18	15.9	726	0.1	6.4	73	55	7	0.105	0.105	364	1.4	2.52
MW-302	03/19/19	14.5	1321	0.4	7.44	-54.1	58	--	--	--	--	--	--
MW-302	05/16/19	12.83	589	0.7	5.81	-53	43	--	--	--	--	--	--
MW-302	09/17/19	14.71	424	0.79	6.75	-35.3	14	--	--	--	--	--	--
MW-302	12/11/19	16.95	1359	2.13	8.06	-57.4	19	3	<0.0600	<0.0600	629	67.4	3.52
MW-302	04/28/20	14	655	0.33	7.32	-25.30	16	--	--	--	--	--	--
MW-302	06/29/20	15.22	509	0.88	6.29	-30.80	34	--	--	--	--	--	--
MW-302	09/21/20	18	499	0.84	6.30	46.20	39	--	--	--	--	--	--
MW-302	12/15/20	10.90	692	0.38	7.46	116.20	131	1.80	<0.200	<0.400	11.80	12.40	1.74
MW-302	04/13/21	13.4	409	1.39	6.53	-53.4	26	--	--	--	--	--	--
MW-302	06/15/21	10.57	538	0.45	7.21	6.0	26	--	--	--	--	--	--
MW-302	09/23/21	16.29	630	1.77	5.97	70.0	17	--	--	--	--	--	--
MW-302	12/16/21	10.70	597	0.10	7.67	20.3	35	--	--	--	104	0.282 J	2.74
MW-302	03/28/22	11.51	769	0.04	7.41	115.1	12	--	--	--	--	--	--
MW-302	06/28/22	16	936	0.79	6.4	-115.3	11	--	--	--	--	--	--
MW-303	05/04/16	11.9	91	2.92	6.42	-73.9	9.31	--	--	--	--	--	--
MW-303	12/12/16	11.2	185	1.29	6.49	-50	0	--	--	--	--	--	--
MW-303	06/13/17	15.03	69	0.3	6.2	15.9	--	--	--	--	--	--	MN
MW-303	12/08/17	12.72	257	1.74	5.18	77.1	4.48	--	--	--	--	--	--
MW-303	03/06/18	11.47	382	0.76	5.59	91.7	3.47	--	--	--	--	--	--
MW-303	06/13/18	14.32	148	0.64	5.84	-19.6	4.22	--	--	--	--	--	--
MW-303	09/06/18	18.26	388	0.32	6.38	-56.1	4.4	6	--	--	--	--	--
MW-303	12/20/18	12.9	561	0.39	5.51	145	18	--	--	--	--	--	--
MW-303	03/19/19	11.1	470	0.59	7.19	-34.9	20	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-303	05/16/19	10.49	590	1.8	5.56	-19	29	--	--	--	--	--	--
MW-303	09/17/19	14.68	474	1.3	6.31	-24.7	7	--	--	--	--	--	--
MW-303	12/11/19	13.89	570	0.71	7.8	-53.9	41	--	--	--	--	--	--
MW-303	04/28/20	12.7	238	0.43	6.65	40.80	20	--	--	--	--	--	--
MW-303	06/29/20	14.79	566	0.72	7.22	2.10	24	--	--	--	--	--	--
MW-303	09/21/20	18.8	1105	0.25	6.50	1.40	20	--	--	--	--	--	--
MW-303	12/15/20	10.93	382	0.42	7.20	115.80	15	--	--	--	--	--	--
MW-303	04/13/21	9.1	87	2.46	5.91	36.1	26	--	--	--	--	--	--
MW-303	06/14/21	9.33	368	1.32	6.65	6.7	12	--	--	--	--	--	--
MW-303	09/22/21	18.13	1,158	1.25	6.53	-47.5	11	--	--	--	--	--	--
MW-303	12/15/21	9.0	251	0.43	7.58	14.9	8	--	--	--	--	--	--
MW-303	03/28/22	10.79	212	0.06	6.93	144.3	12	--	--	--	--	--	--
MW-303	06/28/22	15.2	300	0.48	6.03	-51.3	13	--	--	--	--	--	--
MW-304	11/05/13	12.2	396	0.1	6.6	-119	0	7	--	--	< 0.50	0.345	0.273
MW-304	11/03/14	14.86	310	0.62	6.46	-36.9	11.2	5	< 0.10	< 0.10	0.51	3.60 J	0.297 J
MW-304	12/10/15	12.81	345	0.35	6.55	100.1	3.99	3	< 0.10	< 0.10	0.873	33.7	0.39
MW-304	05/04/16	12.9	337	1.95	6.35	-103.1	6.29	--	--	--	--	--	--
MW-304	12/15/16	9.2	342	2.4	6.65	-92	0	0.5	< 0.0400	< 0.0400	3.35	28.2	0.276
MW-304	06/13/17	16.82	162	1.47	6.27	-24.2	--	--	--	--	--	--	--
MW-304	08/23/17	20.76	529	0	7.09	-55	0.1	--	--	--	--	--	--
MW-304	12/05/17	13.01	1421	1	3.42	134.2	3.96	2.25	< 0.0400	< 0.0400	253	18.6	8.94
MW-304	03/06/18	12.36	794	1.52	4.82	105.9	3.92	--	--	--	--	--	--
MW-304	06/13/18	16.04	305	0.19	6.12	-63.2	5.78	--	--	--	--	--	--
MW-304	09/06/18	20.2	439	0.48	4.72	127.5	3.83	--	--	--	--	--	--
MW-304	12/20/18	14.3	830	0.19	4.19	272	96	6.5	0.0730 J	0.0730 J	520	2.51	2.74
MW-304	03/19/19	11.8	155	0.71	7.53	-30.3	24	--	--	--	--	--	--
MW-304	05/16/19	10.89	367	1.27	4.82	36	9	--	--	--	--	--	--
MW-304	09/17/19	13.56	323	1.29	6.73	5.4	15	--	--	--	--	--	--
MW-304	12/11/19	15.3	1518	5.46	8.24	91.6	62	6	<0.0600	<0.0600	908	11.3	4.79
MW-304	04/28/20	12.4	324	0.59	6.92	25.80	10	--	--	--	--	--	--
MW-304	06/29/20	14.78	301	0.78	6.83	-13.60	26	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity μS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-304	09/21/20	16.7	393	0.22	5.78	59.30	41	--	--	--	--	--	--
MW-304	12/15/20	11.07	457	0.33	7.32	120.80	32	1.00	<0.200	<0.400	75.10	50.60	0.483
MW-304	04/13/21	9.0	92	2.60	6.00	79.8	33	--	--	--	--	--	--
MW-304	06/15/21	9.80	224	1.12	6.49	55.5	8	--	--	--	--	--	--
MW-304	09/22/21	17.36	370	1.33	5.72	19.8	15	--	--	--	--	--	--
MW-304	12/16/21	9.17	244	0.06	6.60	108.2	23	--	--	--	72.8	19	1.18
MW-304	03/28/22	11.80	135	0.10	6.79	152.3	10	--	--	--	--	--	--
MW-304	06/28/22	15.9	230	0.45	6.64	11.3	10	--	--	--	--	--	--
MW-307	11/26/12	12.7	332	0	7.18	-62	36.6	--	--	--	1.5	--	--
MW-307	11/06/13	12.31	231	0.07	6.42	-106	0.8	3.5	--	--	< 0.50	< 0.200	0.217
MW-307	11/04/14	14.49	383	0.26	6.86	-107	6.9	4.5	< 0.10	< 0.10	< 0.50	18.2	0.513
MW-307	12/09/15	12.78	225	0.51	6.4	-77.6	7.89	2.25	< 0.10	< 0.10	< 0.50	29.6	0.338
MW-307	02/23/16	10.43	225	0.27	6.21	-68.9	9.98	--	--	--	--	--	--
MW-307	05/03/16	12.71	211	0.39	6.05	-54	9.27	--	--	--	--	--	--
MW-307	08/30/16	16.9	198	1.18	6.91	67	0	--	--	--	--	--	--
MW-307	12/13/16	10.28	138	0.57	6.46	-87.4	8.09	1.5	< 0.0400	< 0.0400	< 0.256	21.2	0.235
MW-307	03/14/17	11.62	224	0	6.46	-79	0	--	--	--	--	--	--
MW-307	06/15/17	12.72	126	0.33	5.4	15.1	1.91	--	--	--	--	--	--
MW-307	08/23/17	17.87	149	0	7.03	-13	2.1	--	--	--	--	--	--
MW-307	12/06/17	14.55	405	1.49	6.18	-47.1	0	0.6	< 0.0400	< 0.0400	465	37.1	1.07
MW-307	03/08/18	13.9	270	0.38	6.42	2.6	5.1	--	--	--	--	--	--
MW-307	06/14/18	13.8	205	0.45	6.55	-23	2.92	--	--	--	--	--	--
MW-307	09/04/18	18.44	235	0.99	6.11	-25.6	0	2	--	--	--	--	--
MW-307	12/19/18	16.6	343	2.15	7.69	28.7	17	1.4	< 0.0400	< 0.0400	82.6	7.61	0.669
MW-307	03/18/19	14.3	530	0.85	6.79	-62.3	20	--	--	--	--	--	--
MW-307	05/16/19	14.1	315	0.72	6.82	-90.6	4	--	--	--	--	--	--
MW-307	09/17/19	13.21	231	1.15	6.95	1.6	10	--	--	--	--	--	--
MW-307	12/10/19	15.65	541	1.37	6.88	-44.6	18	5.5	<0.0600	<0.0600	210	60.4	1.21
MW-307	04/27/20	13.6	677	0.6	6.72	-96.40	43	--	--	--	--	--	--
MW-307	06/29/20	14.8	505	0.34	6.82	115.90	40	--	--	--	--	--	--
MW-307	09/21/20	15.8	476	0.41	5.96	37.20	29	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-307	12/16/20	13.16	694	0.32	7.50	130.10	0	2.40	<0.200	<0.400	8.26 J+	51.80	1.17
MW-307	04/12/21	11.2	276	1.91	6.47	-56.9	65	--	--	--	--	--	--
MW-307	06/14/21	6.85	352	0.51	7.35	156.3	11	--	--	--	--	--	--
MW-307	09/22/21	16.03	661	1.12	6.10	0.8	17	--	--	--	--	--	--
MW-307	12/14/21	11.0	423	0.30	9.10	-24.0	18	--	--	--	22.1	0.172 J	0.764
MW-307	03/28/22	11.21	403	0.01	7.43	114.4	40	--	--	--	--	--	--
MW-307	06/29/22	15.2	430	0.66	6.88	34.8	19	--	--	--	--	--	--
MW-308	02/23/16	10.09	657	0.32	6.78	-36.3	9.17	--	--	--	--	--	--
MW-308	05/03/16	13.49	431	0.31	6.52	-42.7	7.44	--	--	--	--	--	--
MW-308	08/30/16	16.93	224	1.43	7	50	0	--	--	--	--	--	--
MW-308	12/13/16	10.31	577	0.51	6.75	-22.5	8.43	1.5	< 0.0400	< 0.0400	141	1.53	1.05
MW-308	03/14/17	10.27	587	0	6.99	86	0	--	--	--	--	--	--
MW-308	06/15/17	13.16	355	0.9	7.07	-53	7.5	--	--	--	--	--	--
MW-308	08/23/17	18.34	235	0	7.15	-32	0	--	--	--	--	--	--
MW-308	12/06/17	13.3	591	801.24	6.76	-73.2	3.97	1.7	< 0.0400	< 0.0400	21.4	1.24	1.49
MW-308	03/08/18	10.08	758	0.29	6.74	-26.7	6.79	--	--	--	--	--	--
MW-308	06/14/18	14.41	208	0.43	6.34	-13.5	4.1	--	--	--	--	--	--
MW-308	09/05/18	17.87	270	0.64	6.57	-45.2	0	2	--	--	--	--	--
MW-308	12/19/18	10.7	579	1.68	6.94	52.4	30	0	< 0.0400	< 0.0400	48.1	0.167 J	0.0912
MW-308	03/18/19	12.5	912	0.63	7.03	-61.3	15	--	--	--	--	--	--
MW-308	05/16/19	13.2	311	0.29	6.78	-107.3	10	--	--	--	--	--	--
MW-308	09/17/19	12.9	213	1.61	6.64	2.6	12	--	--	--	--	--	--
MW-308	12/09/19	14.07	386	1.89	6.32	-53.5	10	5.5	<0.0600 J	<0.0600 J	93.9	16.1	1.01
MW-308	04/27/20	13.3	825	0.77	6.43	-73.10	31	--	--	--	--	--	--
MW-308	06/29/20	15.3	726	0.44	7.05	108.80	24	--	--	--	--	--	--
MW-308	09/21/20	15.7	489	0.7	5.69	239.30	38	--	--	--	--	--	--
MW-308	12/16/20	11.78	556	0.39	7.62	123.70	11	2.60	<0.200	<0.400	3.79 J+	4.57	0.293
MW-308	04/12/21	10.4	323	2.15	6.72	142.2	38	--	--	--	--	--	--
MW-308	06/14/21	7.31	600	1.15	6.97	137.7	11	--	--	--	--	--	--
MW-308	09/22/21	15.90	589	1.44	6.39	-17.2	6	--	--	--	--	--	--
MW-308	12/14/21	7.7	548	0.87	6.95	150.0	10	--	--	--	20.9	<0.5	0.219

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

Sample ID	Sample Date	Field Parameters							Laboratory Parameters					
		Temperature	Conductivity	Dissolved Oxygen	pH	ORP	Turbidity	Ferrous Iron	Nitrogen, Nitrate	Nitrogen, Nitrite	Sulfate	Iron Dissolved	Manganese Dissolved	
		oC	µS/cm	mg/L		mv	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MW-308	03/28/22	10.54	647	0.01	7.32	121.8	11	--	--	--	--	--	--	--
MW-308	06/29/22	15.3	439	0.66	6.68	7.6	17	--	--	--	--	--	--	--
MW-309	05/04/16	14.84	208	2.8	6.5	-102.7	8.08	--	--	--	--	--	--	--
MW-309	12/12/16	11.39	250	0.67	6.46	-110.3	9.47	--	--	--	--	--	--	--
MW-309	06/13/17	15.23	147	0.21	6.49	-89.1	--	--	--	--	--	--	--	--
MW-309	12/05/17	14.56	215	1.1	6.72	-87.3	-20.7	--	--	--	--	--	--	--
MW-309	06/12/18	16.23	161	0.53	6.41	-42	7.48	--	--	--	--	--	--	--
MW-309	12/20/18	13.9	410	0.16	6.8	-112	21	--	--	--	--	--	--	--
MW-309	05/16/19	11.48	588	0.57	6.16	-109	62	--	--	--	--	--	--	--
MW-309	12/11/19	14.91	554	0.37	7.49	-70.1	37	--	--	--	--	--	--	--
MW-309	06/29/20	17.23	582	0.72	6.71	-12.60	77	--	--	--	--	--	--	--
MW-309	12/15/20	12.09	6.76	0.36	7.53	119.30	91	--	--	--	--	--	--	--
MW-309	06/15/21	11.34	322	0.59	6.52	23.4	68	--	--	--	--	--	--	--
MW-309	12/15/21	12.8	384	0.07	8.17	-22.8	6	--	--	--	--	--	--	--
MW-309	06/28/22	16	287	0.51	6.35	-76.8	151	--	--	--	--	--	--	--
MW-310	11/28/12	13.97	385	0	7.22	-88	80.6	--	--	--	< 0.50	--	--	--
MW-310	11/05/13	14.07	396	0.05	6.44	-95	0	2.0-2.5	--	--	< 0.50	0.982	0.528	
MW-310	11/04/14	15.97	393	0.03	6.88	-101	0	1.5	< 0.10	< 0.10	< 0.50	11.5	0.615	
MW-310	12/10/15	13.23	313	0.45	6.39	-78.5	0	2	< 0.10	< 0.10	< 0.50	34.8	0.554	
MW-310	02/22/16	11.72	358	0.29	6.4	-98.5	3.83	--	--	--	--	--	--	
MW-310	05/02/16	15.68	270	0.34	6.18	-67.1	8.56	--	--	--	--	--	--	
MW-310	08/29/16	19.29	283	1.64	6.82	29	0	--	--	--	--	--	--	
MW-310	12/15/16	11.6	258	1.26	6.49	-70	0	2	< 0.0400	< 0.0400	1.13	26.4	0.485	
MW-310	03/13/17	11.24	317	0	6.53	-102	0	--	--	--	--	--	--	
MW-310	06/15/17	15.8	229	0.33	6.21	-69.1	--	--	--	--	--	--	--	
MW-310	08/22/17	23.88	365	0	6.96	-80	21.4	--	--	--	--	--	--	
MW-310	12/05/17	13.45	603	1.39	4.01	101	3.3	1.5	< 0.0400	< 0.0400	44.2	1.55	2.66	
MW-310	03/06/18	12.75	946	0.3	5.25	72.8	5.8	--	--	--	--	--	--	
MW-310	06/13/18	17.54	464	0.2	5.84	-34.4	2.01	--	--	--	--	--	--	
MW-310	09/06/18	20	293	0.67	5.45	74	2.13	3	--	--	--	--	--	

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-310	12/20/18	15.9	605	1.43	7.1	49.6	18	3.2	0.346	0.346	318	7.48	1.63
MW-310	03/19/19	14.4	804	1.25	7.21	-21.1	28	--	--	--	--	--	--
MW-310	05/16/19	12.36	695	1.09	4.51	87	72	--	--	--	--	--	--
MW-310	09/17/19	13.46	281	0.83	6.93	-23.9	16	--	--	--	--	--	--
MW-310	12/11/19	16.4	1551	12.52	6.92	155.8	28	5	<0.0600	<0.0600	999	53.1	7.24
MW-310	04/28/20	14	1460	0.54	6.71	64.40	18	--	--	--	--	--	--
MW-310	06/29/20	15.03	908	0.99	6.96	-21.80	47	--	--	--	--	--	--
MW-310	09/21/20	17.8	745	2.68	6.01	249.70	12	--	--	--	--	--	--
MW-310	12/15/20	11.86	1,020	0.33	7.57	116.90	64	1.60	<0.200	<0.400	167	64.90	1.48
MW-310	04/12/21	13.8	386	1.67	6.39	-28.8	92	--	--	--	--	--	--
MW-310	06/15/21	12.16	571	0.64	7.05	45.9	53	--	--	--	--	--	--
MW-310	09/22/21	18.17	789	1.05	6.02	-15.7	51	--	--	--	--	--	--
MW-310	12/16/21	12.25	648	0.06	6.66	-28.1	85	--	--	--	90.8	0.339 J	2.5
MW-310	03/29/22	11.83	677	0.21	6.95	154.3	22	--	--	--	--	--	--
MW-310	06/28/22	15.4	752	0.41	6.41	-98.6	37	--	--	--	--	--	--
MW-311	11/05/14	16.57	606	0	7.42	-146	7	1.5	< 0.25	< 0.25	42.3	< 0.200	1.57
MW-311	12/10/15	14.15	482	0	6.35	-103	1.4	0.75	< 0.10	< 0.10	46.4	27.4	1.45
MW-311	02/22/16	13.84	583	0.26	6.45	-103.1	4.19	--	--	--	--	--	--
MW-311	05/04/16	14.42	564	1.02	6.49	-109.3	6.22	--	--	--	--	--	--
MW-311	08/29/16	22.58	384	1.01	6.89	22	7.66	--	--	--	--	--	--
MW-311	12/15/16	12.91	270	0.4	6.64	-107.3	7.38	3	< 0.0400	< 0.0400	23.7	22.7	0.801
MW-311	03/13/17	12.31	424	0.31	6.73	-98.5	0	--	--	--	--	--	--
MW-311	06/15/17	15.25	453	0.95	7.16	-87.5	--	--	--	--	--	--	--
MW-311	08/22/17	19.69	390	8.27	7.1	-72	0	--	--	--	--	--	--
MW-311	12/07/17	15.15	276	0.38	6.61	-33.2	0	3.75	< 0.0400 J	< 0.0400 J	28.4	8.42	0.703
MW-311	03/08/18	10.87	585	1.04	6.62	-17.2	0	--	--	--	--	--	--
MW-311	06/13/18	17.24	366	0.25	6.44	-45.7	0	--	--	--	--	--	--
MW-311	09/05/18	19.44	455	0.19	6.27	38.8	3.11	--	--	--	--	--	--
MW-311	12/20/18	14.6	522	1.15	7.33	-72.6	14	1.7	< 0.0400	< 0.0400	8.59	4.44	1.02
MW-311	03/18/19	14.8	530	0.32	6.71	-73.9	3	--	--	--	--	--	--
MW-311	05/16/19	14.3	519	0.1	6.82	-71.4	5	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-311	09/17/19	13.98	338	0.62	6.61	-22.9	3	--	--	--	--	--	--
MW-311	12/12/19	15.24	674	0.8	7.22	-84.4	3	4.5	<0.0600	<0.0600	8.28	41.5	1.81
MW-311	04/27/20	14.2	792	0.72	7.60	-83.20	9	--	--	--	--	--	--
MW-311	06/29/20	15.2	957	0.44	6.97	121.90	15	--	--	--	--	--	--
MW-311	09/21/20	17.5	763	0.26	6.53	-51.20	16	--	--	--	--	--	--
MW-311	12/15/20	14.11	877	0.20	7.80	118.00	30	2.80	<0.200	<0.400	74.20	18.30	2.04
MW-311	04/13/21	13.0	338	2.30	6.75	-71.2	18	--	--	--	--	--	--
MW-311	09/22/21	17.34	812	1.57	6.70	-50.1	9	--	--	--	--	--	--
MW-311	12/16/21	10.67	473	0.08	7.34	37.4	8	--	--	--	4.42	0.144 J	1.77
MW-311	03/29/22	13.47	728	0.01	7.18	137.7	2	--	--	--	--	--	--
MW-311	06/28/22	15.7	636	0.46	6.48	-98.6	17	--	--	--	--	--	--
MW-312	11/05/14	17.07	459	0.58	6.78	-92	0	5.7	< 0.25	< 0.25	< 1.3	< 0.200	0.787
MW-312	12/10/15	13.74	434	0	6.3	-89	0	1.5	< 0.10	< 0.10	< 0.50	16.8	0.717
MW-312	02/23/16	13.69	578	0.22	6.63	-113.5	8.84	--	--	--	--	--	--
MW-312	05/04/16	14.77	539	1.19	6.63	-122.1	4.05	--	--	--	--	--	--
MW-312	08/29/16	24.31	480	1.01	6.89	28	0	--	--	--	--	--	--
MW-312	12/15/16	13.74	452	0.4	6.74	-121.8	9.47	4	< 0.0400	< 0.0400	< 0.500	20.4	0.924
MW-312	03/13/17	12.95	598	0	6.81	-126	0	--	--	--	--	--	--
MW-312	06/15/17	15.14	465	0.27	6.68	-106.8	--	--	--	--	--	--	--
MW-312	08/23/17	19.07	460	0	7.3	-81	0	--	--	--	--	--	--
MW-312	12/07/17	16.15	351	0.88	6.66	-107.7	1.17	2.6	< 0.0400	< 0.0400	488	3.95	0.664
MW-312	03/08/18	11.91	501	1.12	6.88	-6.3	0	--	--	--	--	--	--
MW-312	06/13/18	15.38	349	1.59	6.58	-106.1	0.92	--	--	--	--	--	--
MW-312	09/05/18	20.03	417	0.16	6.55	-72.6	3.75	6	--	--	--	--	--
MW-312	12/20/18	14.1	429	0.75	7.29	-45.3	7	2.5	< 0.0400	< 0.0400	0.164 J	4.35	0.715
MW-312	03/19/19	12.6	553	0.58	7.74	-41	3	--	--	--	--	--	--
MW-312	05/16/19	13.8	524	0.67	6.7	-101.9	2	--	--	--	--	--	--
MW-312	09/17/19	13.84	289	0.55	6.54	-31.9	2	--	--	--	--	--	--
MW-312	12/12/19	14.76	514	0.36	8.17	-86.4	5	2	<0.0600	<0.0600	0.63	22	0.957
MW-312	04/28/20	14.9	596	0.36	7.64	-85.90	4	--	--	--	--	--	--
MW-312	06/29/20	15.03	491	0.94	6.39	-25.70	12	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-312	09/21/20	17.5	607	0.33	6.56	-35.30	20	--	--	--	--	--	--
MW-312	12/15/20	13.39	571	0.28	7.75	118.20	35	3.00	<0.200	<0.400	<1.20	6.93	1.08
MW-312	04/13/21	12.3	286	2.10	6.78	-84.4	17	--	--	--	--	--	--
MW-312	06/16/21	8.65	476	2.05	6.93	17.3	3	--	--	--	--	--	--
MW-312	09/22/21	16.72	805	2.04	6.62	-30.2	10	--	--	--	--	--	--
MW-312	12/16/21	10.85	338	0.04	7.04	35.2	6	--	--	--	<0.500	0.115 J	0.83
MW-312	03/29/22	12.62	452	0.03	6.89	158.7	1	--	--	--	--	--	--
MW-312	06/29/22	14.5	635	0.78	6.48	10.1	30	--	--	--	--	--	--
MW-313	08/29/16	21.96	489	1.07	6.88	23	0	--	--	--	--	--	--
MW-313	12/12/16	14.13	474	1.04	6.82	-34.9	9.06	--	--	--	--	--	--
MW-313	03/13/17	11.3	850	0.03	6.78	-23	3.5	--	--	--	--	--	--
MW-313	06/15/17	15.94	374	1.32	6.85	-24.6	--	--	--	--	--	--	--
MW-313	08/22/17	23.47	400	8.21	7.39	-62	0	--	--	--	--	--	--
MW-313	12/07/17	15.72	395	0.99	6.95	24.8	3.22	--	--	--	--	--	--
MW-313	03/07/18	11.05	615	0.89	6.96	36.8	8.42	--	--	--	--	--	--
MW-313	06/13/18	16.73	400	0.46	6.76	-44.1	3.02	--	--	--	--	--	--
MW-313	09/05/18	20.55	447	0.18	6.76	-29.7	1.34	--	--	--	--	--	--
MW-313	12/20/18	14.7	555	1.03	7.07	-52.9	43	--	--	--	--	--	--
MW-313	03/19/19	11.1	686	0.73	7.81	-30.4	6	--	--	--	--	--	--
MW-313	05/16/19	14.5	781	0.42	7.05	-39.1	10	--	--	--	--	--	--
MW-313	09/17/19	15.71	343	0.71	6.65	-25.3	7	--	--	--	--	--	--
MW-313	12/12/19	14.86	574	0.64	7.99	-55.7	5	--	--	--	--	--	--
MW-313	04/27/20	15.6	683	1.21	7.87	3.40	11	--	--	--	--	--	--
MW-313	06/29/20	16.33	486	1.81	6.73	-74.50	32	--	--	--	--	--	--
MW-313	09/21/20	18.7	605	0.55	6.84	21.90	13	--	--	--	--	--	--
MW-313	12/15/20	13.54	718	0.22	7.93	109.70	69	--	--	--	--	--	--
MW-313	04/13/21	12.9	250	2.02	6.85	-69.0	48	--	--	--	--	--	--
MW-313	06/16/21	9.60	441	0.99	7.38	30.4	38	--	--	--	--	--	--
MW-313	09/22/21	17.25	668	1.34	6.95	-41.6	28	--	--	--	--	--	--
MW-313	12/16/21	11.89	401	0.19	7.16	30.7	80	--	--	--	--	--	--
MW-313	03/29/22	11.77	390	0.10	7.10	141.2	10	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-313	06/28/22	17.4	631	1.12	6.65	10.8	154	--	--	--	--	--	--
MW-314	08/30/16	20.6	565	1.23	6.87	82	8.52	--	--	--	--	--	--
MW-314	12/14/16	13.42	471	0.52	6.73	-90.3	9.44	--	--	--	--	--	--
MW-314	03/13/17	12.34	626	0	6.73	-53	3.9	--	--	--	--	--	--
MW-314	06/14/17	18.28	447	0.46	7.07	-87.9	8.2	--	--	--	--	--	--
MW-314	08/23/17	18.35	453	0	7.33	-35	3.6	--	--	--	--	--	--
MW-314	12/06/17	14	413	0.68	6.56	-62.5	4.2	--	--	--	--	--	--
MW-314	03/07/18	11.95	583	0.9	6.84	23.5	8.42	--	--	--	--	--	--
MW-314	06/12/18	15.92	455	0.74	6.7	-110	2.91	--	--	--	--	--	--
MW-314	09/05/18	18.9	427	0.4	6.49	-40.8	4.24	--	--	--	--	--	--
MW-314	12/20/18	14.7	567	0.16	6.79	-87	29	--	--	--	--	--	--
MW-314	03/19/19	11.4	564	0.97	7.12	-32.4	48	--	--	--	--	--	--
MW-314	05/16/19	11.01	714	0.77	6.27	-61	79	--	--	--	--	--	--
MW-314	09/17/19	--	--	--	--	--	--	--	--	--	--	--	--
MW-314	12/10/19	13.97	725	1.55	5.67	-36	7	--	--	--	--	--	--
MW-314	04/28/20	13.2	749	0.44	7.55	-53.60	7	--	--	--	--	--	--
MW-314	06/29/20	18.27	639	1.02	6.53	-29.80	16	--	--	--	--	--	--
MW-314	09/22/20	16.5	758	0.49	6.28	22.60	16	--	--	--	--	--	--
MW-314	12/15/20	13.53	800	0.15	7.78	114.80	35	--	--	--	--	--	--
MW-314	04/13/21	10.7	272	2.02	6.54	-7.9	58	--	--	--	--	--	--
MW-314	03/28/22	12.03	731	0.06	7.77	76.2	83	--	--	--	--	--	--
MW-314	06/28/22	15.7	819	0.46	6.36	-58.1	14	--	--	--	--	--	--
MW-315	08/29/16	20.56	558	1.04	6.86	2	8.44	--	--	--	--	--	--
MW-315	12/12/16	12.07	488	1.45	6.74	-102	0	--	--	--	--	--	--
MW-315	03/13/17	12.81	522	0	6.77	-117	0	--	--	--	--	--	--
MW-315	06/15/17	14.2	450	1.27	7.21	-99	--	--	--	--	--	--	--
MW-315	08/23/17	18.2	465	0	7.3	-68	0	--	--	--	--	--	--
MW-315	12/07/17	14.59	372	0.84	6.68	-28.7	0	--	--	--	--	--	--
MW-315	03/08/18	11.74	448	1.34	6.84	20.7	0	--	--	--	--	--	--
MW-315	06/13/18	15.32	325	1	6.58	-41.5	0	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters					Laboratory Parameters						
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-315	09/05/18	18.81	378	0.12	6.39	-28.8	0.54	--	--	--	--	--	--
MW-315	12/20/18	14.5	460	0.32	7.15	-92	5	--	--	--	--	--	--
MW-315	03/18/19	14.7	497	0.81	6.74	-65.4	3	--	--	--	--	--	--
MW-315	05/16/19	13.6	508	0.2	6.83	-64.3	3	--	--	--	--	--	--
MW-315	09/17/19	13.01	311	0.58	6.37	-41.8	4	--	--	--	--	--	--
MW-315	12/12/19	14.4	587	0.79	7.98	-67.8	3	--	--	--	--	--	--
MW-315	04/27/20	14.8	591	0.53	7.67	-70	8	--	--	--	--	--	--
MW-315	06/29/20	14.3	584	0.64	6.92	189.80	9	--	--	--	--	--	--
MW-315	09/21/20	16.7	589	0.25	6.43	-26.20	14	--	--	--	--	--	--
MW-315	12/15/20	13.69	588	0.09	7.80	119.30	43	--	--	--	--	--	--
MW-315	04/13/21	13.1	289	2.23	6.65	-68.2	22	--	--	--	--	--	--
MW-315	06/16/21	8.01	501	1.37	6.79	0.9	3	--	--	--	--	--	--
MW-315	09/22/21	17.62	785	1.14	6.45	-19.0	10	--	--	--	--	--	--
MW-315	12/16/21	10.40	304	1.36	7.31	-8.2	10	--	--	--	--	--	--
MW-315	03/29/22	12.06	519	0.08	7.21	134.1	3	--	--	--	--	--	--
MW-315	06/28/22	14.4	583	0.48	6.44	-86.4	15	--	--	--	--	--	--
SH-04	05/05/16	14.18	129	1.43	6.47	-107.3	8.73	--	--	--	--	--	--
SH-04	12/14/16	8.88	133	0.39	6.41	-48.2	7.21	--	--	--	--	--	--
SH-04	06/14/17	17.02	116	0.27	6.33	52.7	1.67	--	--	--	--	--	--
SH-04	12/05/17	15.32	134	0.71	6.72	-65.4	3.51	--	--	--	--	--	--
SH-04	06/13/18	16.5	140	0.47	6.12	-54.2	1.05	--	--	--	--	--	--
SH-04	12/18/18	12.3	180	1.05	7.31	-30.6	19	--	--	--	--	--	--
SH-04	05/16/19	9.31	226	0.91	5.71	-126	13	--	--	--	--	--	--
SH-04	12/11/19	14.43	391	0.63	7.51	-12.1	19	--	--	--	--	--	--
SH-04	06/29/20	14.4	219	0.49	6.46	215.30	8	--	--	--	--	--	--
SH-04	12/14/20	14.00	371	0.29	7.56	151.80	21	--	--	--	--	--	--
SH-04	06/15/21	8.75	190	0.94	7.00	57.0	6	--	--	--	--	--	--
SH-04	12/15/21	11.6	140	0.15	9.84	-77.1	6	--	--	--	--	--	--
SH-04	04/18/22	9.00	220	0.09	8.12	64.6	39	--	--	--	--	--	--
SH-04	06/28/22	16.9	198	0.49	6.02	-11.9	16	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
TX-03A	01/13/04	14	480	1.4	6.39	-59	1.8	--	--	--	--	--	--
TX-03A	04/19/04	13.7	560	1.44	6.18	21	2.4	6	--	--	< 1	--	--
TX-03A	07/27/04	17.9	589	1.31	6.26	68	3	--	--	--	--	--	--
TX-03A	10/18/04	16.7	595	2.77	6.63	-100	42	--	--	--	--	--	--
TX-03A	01/24/05	14.6	563	1.79	5.11	5	43.1	--	--	--	--	--	--
TX-03A	04/19/05	13.8	552	0	6.47	-86	20	4	--	--	< 1	--	--
TX-03A	07/12/05	17.3	477	0.16	6.55	-121	55.6	--	--	--	--	--	--
TX-03A	10/31/07	--	--	--	--	--	--	--	--	--	--	--	--
TX-03A	11/20/08	15.8	821	0.49	6.87	-59	31.8	30.4	--	--	< 1	--	--
TX-03A	04/08/09	12.84	236	0	6.58	-145	43.1	--	--	--	--	--	--
TX-03A	11/17/09	16.3	50.6	1.29	6.39	-102	9.7	36	--	--	1.2	--	--
TX-03A	04/27/10	13.2	52.8	0.21	5.76	-153	9.5	--	--	--	--	--	--
TX-03A	10/25/10	15.5	42.5	1.39	6.68	-115	48	30	--	--	6.8	--	--
TX-03A	05/23/11	--	--	--	--	--	--	--	--	--	--	--	--
TX-03A	10/27/11	15.44	478	1.72	8.5	-100.9	--	20.3	--	--	< 0.50	--	--
TX-03A	03/01/12	12.29	564	0	6.71	-118	12.6	--	--	--	--	--	--
TX-03A	06/12/12	14	507	4	7.19	-103	4.5	--	--	--	--	--	--
TX-03A	09/25/12	17.83	514	0	6.48	-139	15.2	--	--	--	--	--	--
TX-03A	11/28/12	13.79	439	0	6.7	-104	--	--	--	--	< 0.50	--	--
TX-03A	11/05/13	10.98	528	0.06	6.57	-114	0	4	--	--	< 0.50	< 0.200	0.47
TX-03A	11/04/14	16.8	424	0.38	6.49	-39	5.83	6	< 0.10	< 0.10	< 0.50	6.18	0.523
TX-03A	12/10/15	15.11	456	0.25	6.51	-103.5	6.7	0.5	< 0.10	< 0.10	< 0.50	31.7	0.5
TX-03A	02/22/16	12.73	484	0.3	6.34	-109.1	7.22	--	--	--	--	--	--
TX-03A	05/02/16	15.06	418	0.22	6.36	-103.1	3.96	--	--	--	--	--	--
TX-03A	08/29/16	18.69	395	2.27	6.84	18	0	--	--	--	--	--	--
TX-03A	12/15/16	12.31	295	0.29	6.54	-109.9	8.97	2	< 0.0400	< 0.0400	< 0.500	37.8	0.517
TX-03A	03/13/17	11.74	287	0.23	6.74	-109.5	0	--	--	--	--	--	--
TX-03A	06/13/17	14.63	322	0.24	6.32	-98	--	--	--	--	--	--	--
TX-03A	08/22/17	18.97	317	0	7.07	-87	0	--	--	--	--	--	--
TX-03A	12/05/17	13.23	477	1.83	6.57	-104.1	2.77	1.5	< 0.0400	< 0.0400	219	25.1	0.784
TX-03A	03/27/18	12.27	465	0.65	6.19	71.9	3.37	--	--	--	--	--	--
TX-03A	06/13/18	15.4	407	4.12	6.07	-82.4	0.69	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
TX-03A	09/06/18	19.9	551	0.14	6.24	-76.8	1.26	--	--	--	--	--	--
TX-03A	12/20/18	16.5	369	0.1	6.67	-116	16	4.5	< 0.0400	< 0.0400	19	6.46	0.465
TX-03A	03/19/19	13.9	550	0.45	7.55	-67.1	8	--	--	--	--	--	--
TX-03A	05/16/19	12.64	538	0.51	6.11	-84	12	--	--	--	--	--	--
TX-03A	09/17/19	16.79	348	0.97	6.41	3.1	8	--	--	--	--	--	--
TX-03A	12/11/19	16.75	1514	1.86	8.64	-94	5	3	<0.0600 J	<0.0600 J	704	104	2.99
TX-03A	04/28/20	14.1	881	0.46	7.5	-65.10	12	--	--	--	--	--	--
TX-03A	06/29/20	16.13	577	1.24	6.36	-20.20	13	--	--	--	--	--	--
TX-03A	09/21/20	18.1	505	0.32	6.22	74	15	--	--	--	--	--	--
TX-03A	12/15/20	13.20	501	0.31	7.59	114.00	15	2.40	<0.200	<0.400	42.30	26.20	1.16
TX-03A	04/12/21	11.6	259	1.91	6.26	-6.2	40	--	--	--	--	--	--
TX-03A	06/16/21	9.02	416	1.35	7.60	39.3	3	--	--	--	--	--	--
TX-03A	09/23/21	17.45	633	1.17	6.09	-5.6	7	--	--	--	--	--	--
TX-03A	03/28/22	12.57	540	0.12	7.24	126.9	12	--	--	--	--	--	--
TX-03A	06/28/22	15.4	521	0.5	6.49	-91.2	14	--	--	--	--	--	--
TES-MW-1	12/13/16	8.37	99	7.01	5.86	89	0	--	--	--	--	--	--
TES-MW-1	12/06/17	10	69	6.02	5.67	39.9	5.7	--	--	--	--	--	--
TES-MW-1	12/19/18	11.2	172	1.3	6.68	-96	24	--	--	--	--	--	--
TES-MW-1	12/09/19	13.42	172	6.2	6.51	63.9	11	--	--	--	--	--	--
TES-MW-1	12/16/20	12.07	98	0.92	7.72	135.70	36	--	--	--	--	--	--
TES-MW-1	12/14/21	11.2	93	0.70	7.71	132.1	34	--	--	--	--	--	--
TX-04	12/12/16	10.65	353	0.82	7.02	-108	0	--	--	--	--	--	--
TX-04	12/05/17	12.06	167	0.68	7.01	-10.8	23.2	--	--	--	--	--	--
TX-04	12/18/18	14.5	233	1.26	7.69	-48.3	44	--	--	--	--	--	--
TX-04	12/12/19	14.81	295	0.44	8.46	-83.3	14	--	--	--	--	--	--
TX-04	12/14/20	14.54	334	0.17	7.81	136.90	7	--	--	--	--	--	--
TX-04	12/15/21	10.4	207	0.21	8.32	-3.0	17	--	--	--	--	--	--
TX-06A	12/12/16	11.95	212	0.55	6.55	-97.3	6.56	--	--	--	--	--	--
TX-06A	12/05/17	14.43	248	1.15	6.69	-63.6	5.63	--	--	--	--	--	--

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

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
TX-06A	12/20/18	14.5	257	0.17	6.76	-99	11	--	--	--	--	--	--
TX-06A	12/10/19	13.58	230	4.49	5.62	8.6	12	--	--	--	--	--	--
TX-06A	12/14/20	13.92	341	0.20	7.74	123.80	17	--	--	--	--	--	--
TX-06A	12/15/21	12.1	174	0.25	7.85	9.5	10	--	--	--	--	--	--

**Note:**

= Indicates data collected during this progress report period

°C = degrees Celsius

J = indicates a estimated value

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

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

mg/L = milligrams per liter

mV = millivolts

NM = not measured

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

µS/cm = microsiemens per centimeter

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-05	01/15/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.37	< 0.5	--
MW-05	04/21/04	0.0015	< 0.001	0.0053	< 0.001	< 0.25	0.41	< 0.5	--
MW-05	07/28/04	0.0015	0.001	< 0.001	0.0017	< 0.25	< 0.25	< 0.5	--
MW-05	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-05	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-05	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.072	< 0.25	< 0.5	--
MW-05	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	0.25	< 0.25	< 0.5	--
MW-05	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	0.11	< 0.25	< 0.5	--
MW-05	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	< 0.238	< 0.476	--
MW-05	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
MW-05	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-05	10/29/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.14	< 0.1	--
MW-05	05/23/11	< 0.0003	< 0.0005	< 0.0003	< 0.0007	0.0744	--	--	--
MW-05	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.115	< 0.095	< 0.19	--
MW-05	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0954	< 0.095	--
MW-05	11/07/13	< 0.00020	0.00083 J	< 0.00020	0.00087 J	0.345	< 0.049	< 0.097	--
MW-05	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.0507 J	0.137	< 0.094	--
MW-05	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.233	< 0.388	--
MW-05	05/04/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	70.9 J	< 0.0398	< 0.0598	--
MW-05	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0436	< 0.0654	--
MW-05	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0860	< 0.129	--
MW-05	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0968 J	0.105 J	< 0.121	--
MW-05	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.114	< 0.124	--
MW-05	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.230 J	0.119 J	--
MW-05	05/15/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.0589	< 0.108	< 0.118	--
MW-05	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.111 J	< 0.121	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-05	06/30/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.113	< 0.124	--
MW-05	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.163	<0.340	--
MW-05	06/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.240	<0.401	--
MW-05	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.254	<0.424	--
MW-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	--
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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-101	12/09/19	< 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	--
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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-102	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.240	<0.401	--
MW-104	01/15/04	0.0019	< 0.001	0.15	0.1028	<b>2.7</b>	1.2	< 0.5	0.00555
MW-104	01/15/04	0.0012	< 0.001	0.1	0.0706	<b>2</b>	1.3	< 0.5	< 0.005
MW-104	04/21/04	0.0066	0.0025	0.35	0.0931	<b>4.3</b>	1.7	< 0.5	0.00575
MW-104	07/28/04	0.0018	< 0.001	0.048	0.017	<b>2.2</b>	0.87	< 0.5	< 0.005
MW-104	07/28/04	0.0017	< 0.001	0.049	0.019	<b>2.1</b>	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	<b>1.4</b>	1.2	< 0.5	< 0.005
MW-104	07/12/05	0.0014	< 0.001	0.11	0.012	<b>1.8</b>	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	<b>2.07</b>	3.73	< 0.962	0.0077
MW-104	10/30/07	--	--	--	--	<b>1.25</b>	--	--	< 0.002
MW-104	05/20/08	--	--	--	--	<b>4</b>	2.1	< 0.5	--
MW-104	11/18/08	--	--	--	--	0.13	0.69	< 0.5	< 0.005
MW-104	04/08/09	--	--	--	--	<b>1.8</b>	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	--	--	--	--	<b>3.9</b>	2.5	0.27	0.00232
MW-104	10/26/10	--	--	--	--	0.23	0.23	< 0.1	--
MW-104	05/23/11	<0.0006	0.003	0.104	0.0018	<b>4.44</b>	0.448	<0.097	< 0.01
MW-104	10/25/11	--	--	--	--	<b>3.38</b>	0.413	< 0.20	< 0.01
MW-104	03/01/12	0.00079 J	0.0015	0.0467	0.0016 J	<b>3.69</b>	--	--	--
MW-104	06/13/12	--	--	--	--	<b>4.78</b>	0.423	< 0.10	< 0.01
MW-104	09/26/12	0.00066 J	0.0024	0.0509	0.0019 J	<b>4.54</b>	--	--	--
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	--	--	--	--	<b>5.07</b>	0.601	< 0.096	< 0.01

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead	
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo		
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MW-104	11/07/13	--	--	--	--	<b>3.62</b>	0.666 J	< 0.095	< 0.01	
MW-104	04/24/14	--	--	--	--	<b>5.68</b>	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	--	--	--	--	<b>2.82</b>	0.686	< 0.097	< 0.01	
MW-104	12/09/15	--	--	--	--	< 0.100	0.408	< 0.398	< 0.00200	
MW-104	05/05/16	--	--	--	--	<b>7.45</b>	2.85	0.144 J	0.00285	
MW-104	12/14/16	--	--	--	--	<b>3.61</b>	2.22	0.155 J	0.000902 J	
MW-104	06/14/17	--	--	--	--	<b>4.85</b>	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	--	--	--	--	<b>3.04</b>	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	--	--	--	--	<b>2.59</b>	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	--	--	--	--	<b>1.02</b>	0.914	0.117 J	0.00408	
MW-104	12/14/20	<0.00020	<0.0002	0.00171	<0.0005	0.487	1.56	1.31	<0.004	
MW-104	06/15/21	--	--	--	--	0.948	0.753	<0.395	<0.0600	
MW-104	12/15/21	--	--	--	--	0.300	0.456	0.175 J	<0.0600	
MW-104	04/18/22	--	--	--	--	<b>0.896</b>	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	< 0.001	< 0.25	1.4	< 0.5	0.00647
MW-105	04/21/04	< 0.001	< 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	< 0.001	< 0.25	2.2	< 0.5	0.0128
MW-105	10/19/04	< 0.001	< 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	< 0.001	< 0.25	3	< 0.5	0.00824
MW-105	04/18/05	< 0.001	< 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	< 0.001	< 0.05	1.7	< 0.5	< 0.005

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-105	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.7	0.66	< 0.005
MW-105	01/25/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	3.95	< 0.962	0.00321
MW-105	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	--	--	< 0.005
MW-105	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	0.021
MW-105	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	--	--	--
MW-105	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.253	< 0.20	< 0.01
MW-105	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.291	< 0.098	< 0.01
MW-105	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.000046	< 0.050	0.189	< 0.095	<b>0.0179</b>
MW-105	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.000046	< 0.050	0.377	0.192	< 0.01
MW-105	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.406	0.408	<b>0.0152</b>
MW-105	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.85	0.377	<b>0.0116</b>
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	<b>0.00754</b>
MW-105	12/14/20	< 0.00020	< 0.0002	< 0.00020	< 0.0005	< 0.250	1.81	0.972	0.00421
MW-105	12/15/21	< 0.000400	< 0.00100	< 0.00100	< 0.00300	< 0.150	0.523	0.670	<b>0.0324 J</b>
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	<b>0.079</b>	< 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	<b>0.0956</b>	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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-111	11/17/09	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	<b>0.0845</b>	0.001	0.00023 J	0.00069 J	0.208	0.174	< 0.095	--
MW-111	11/05/14	<b>0.0574</b>	0.0012	0.00083 J	0.00047 J	0.232	0.167	0.118 J	--
MW-111	12/08/15	<b>0.386</b>	0.00649	0.00291	0.00333	0.944	0.335	<0.388	--
MW-111	05/04/16	<b>0.0719</b>	0.00157	0.00158	0.00125 J	0.294	0.141	< 0.0598	--
MW-111	12/14/16	<b>0.248</b>	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	<b>0.202</b>	0.00632	0.00214	0.00507	0.792	0.597	< 0.132	--
MW-111	06/12/18	0.0273	0.00181	0.000334 J	0.00238 J	0.227	0.210 J	< 0.123	--
MW-111	12/19/18	0.0592	0.00574	0.0012	0.00475	0.766	1.27	0.462	--
MW-111	05/15/19	0.00484	< 0.000170	< 0.000190	< 0.000580	0.149	0.195 J	< 0.117	--
MW-111	12/11/19	0.000270 J	< 0.000312	< 0.000198	< 0.000422	< 0.0704	0.255 J	< 0.125	--
MW-111	06/29/20	0.00124	0.000637 J	< 0.000198	0.000648 J	0.0898 J	< 0.110	< 0.120	--
MW-111	12/14/20	0.00163	0.000945	<0.00020	0.00118	<0.250	0.346	0.348	--
MW-111	06/15/21	0.000251 J	0.000593 J	<0.00100	0.00100 J	0.120 J	<0.233	<0.389	--
MW-111	12/15/21	0.00337	0.00161	0.000247 J	0.00166 J	0.421	0.340	0.149 J	--
MW-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	--

**Table 6**  
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**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-112A	01/24/05	0.003	0.0012	< 0.001	0.001	0.44	0.65	< 0.5	--
MW-112A	04/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.42	1.4	< 0.5	--
MW-112A	07/12/05	0.0029	< 0.001	< 0.001	< 0.001	0.28	0.48	< 0.5	--
MW-112A	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-112A	01/26/06	0.00211	< 0.0005	< 0.0005	< 0.001	0.236	0.602	< 0.485	--
MW-112A	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	0.3	1.3	< 0.5	--
MW-112A	11/18/09	0.00075	< 0.001	< 0.001	< 0.001	0.2	0.23	< 0.1	--
MW-112A	10/29/10	0.036	< 0.001	< 0.001	0.0015	0.77	0.6	< 0.1	--
MW-112A	05/24/11	0.00041	<0.0005	<0.0003	<0.0007	0.129	--	--	--
MW-112A	10/25/11	0.0055	< 0.0010	< 0.0010	< 0.0020	0.292	0.2	< 0.20	--
MW-112A	11/25/12	0.0058	0.00022 J	0.00037 J	< 0.00046	0.197 J	0.282	< 0.10	--
MW-112A	11/04/13	0.0238	0.00068 J	0.0376	0.0012 J	0.909	1.72	< 0.19	--
MW-112A	11/06/14	0.0156	0.0014	0.028	0.0016 J	0.76	1.43	0.295	--
MW-112A	12/08/15	0.0297	0.00368	0.00219	0.00406	<b>1.31</b>	5.89	< 0.389	--
MW-112A	05/05/16	0.0248	0.00131	0.0992	0.00688	<b>1.75</b>	7.96	0.132 J	--
MW-112A	12/12/16	0.0426	0.00666	0.0109	0.0103	<b>2.27</b>	2.77	0.180 J	--
MW-112A	06/15/17	0.0348	0.0037	0.02	0.00464 J	<b>1.46</b>	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	<b>2.39</b>	<b>12.6</b>	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	<b>2</b>	2.37	0.222 J	--
MW-112A	12/12/19	0.0149	0.00296	0.00154	0.00385	<b>1.91</b>	<b>12.2</b>	0.419 J	--
MW-112A	06/30/20	0.00354 J	0.000903 J	0.0215 J	0.00155 J	<b>1.05</b>	3.62	0.204 J	--
MW-112A	12/14/20	0.00442	0.00253	0.00186	0.00375	<b>1.77 J+</b>	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	<b>2.34</b>	1.10	0.215 J	--
MW-112A	04/18/22	0.00102	0.000759 J	0.0279	0.00269 J	<b>1.87</b>	1.39	<0.389	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-112A	06/28/22	0.00139	0.000935 J	0.0106	0.00263 J	1.26	0.675	<0.407	--
MW-113	06/27/22	<b>0.156</b>	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	--
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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-202	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	<b>2.5</b>	<b>15</b>	< 10	--
MW-202	04/20/04	0.014	0.0062	0.074	0.021	<b>4.4</b>	<b>28</b>	< 10	--
MW-202	01/26/05	< 0.005	< 0.005	< 0.005	< 0.005	<b>7.7</b>	5.2	< 5	--
MW-202	04/20/05	0.016	0.0022	0.036	0.0237	<b>3.7</b>	6.2	< 5	--
MW-202	07/13/05	0.016	0.0033	0.067	0.0191	<b>3.5</b>	6.2	< 1	--
MW-202	10/20/05	0.019	0.0021	0.058	0.0056	<b>3.3</b>	5.9	< 2.5	--
MW-202	01/26/06	0.0224	0.00598	0.041	0.0191	<b>5.79</b>	<b>11.2</b>	< 4.76	--
MW-202	04/25/06	0.00749	0.00378	0.062	0.0124	<b>6.78</b>	8.7	<4.85	--
MW-202	10/12/06	0.00936	0.00339	0.0828	0.00616	<b>5.65</b>	<b>11.5</b>	0.834	--
MW-202	04/26/07	0.00825	0.0048	0.063	<0.015	<b>4.78</b>	8.24	1.05	--
MW-202	10/30/07	--	--	--	--	<b>4.55</b>	<b>10.9</b>	< 1	--
MW-202	05/20/08	--	--	--	--	<b>2.3</b>	1.8	< 2.5	--
MW-202	11/20/08	--	--	--	--	<b>5</b>	2.2	< 0.5	--
MW-202	04/07/09	--	--	--	--	<b>4.8</b>	<b>14</b>	< 0.1	--
MW-202	11/19/09	--	--	--	--	<b>6.6</b>	<b>20</b>	< 0.5	--
MW-202	04/27/10	--	--	--	--	<b>3.3</b>	6.4	0.12	--
MW-202	10/27/10	0.0081	0.0031	0.066	0.0022	<b>6</b>	5.4	< 0.1	--
MW-202	05/23/11	--	--	--	--	<b>3.5</b>	1.84	< 0.097	--
MW-202	10/26/11	--	--	--	--	<b>4.3</b>	1.02	< 0.21	--
MW-202	03/02/12	0.0053	0.0019	0.0107	0.0013 J	<b>3.87</b>	--	--	--
MW-202	06/13/12	--	--	--	--	<b>3.31</b>	1.54	< 0.10	--
MW-202	09/26/12	0.0058	0.0029 J	0.0378	< 0.0018	<b>4.07</b>	--	--	--
MW-202	11/27/12	0.0113	0.0034	0.0274	0.0022	<b>6.07</b>	2.67	< 0.30	--
MW-202	05/15/13	--	--	--	--	<b>3.83</b>	1.62	< 0.096	--
MW-202	11/06/13	< 0.00020	0.0027	0.0335	0.0012 J	<b>4.68</b>	1.29	< 0.095	--
MW-202	04/22/14	--	--	--	--	<b>3.22</b>	2.18	< 0.28	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071 mg/L	200 mg/L	29 mg/L	NE mg/L	1 mg/L	10 mg/L	10 mg/L	0.0058 mg/L
MW-202	11/06/14	0.0083	0.0026	0.0154	0.0011	<b>5.1</b>	2.45	0.282 J	--
MW-202	05/19/15	--	--	--	--	<b>2.96</b>	0.842	< 0.096	--
MW-202	12/10/15	0.00419	0.00124	0.00277	< 0.0030	<b>5.67</b>	<b>27.2</b>	0.565	--
MW-202	05/03/16	--	--	--	--	<b>2.89</b>	2.29	0.111 J	--
MW-202	12/13/16	0.00606	0.0028	0.00901	0.00110 J	<b>2.92</b>	4.04	0.201	--
MW-202	06/14/17	--	--	--	--	<b>2.58</b>	3.68	0.134 J	--
MW-202	12/06/17	0.00102	< 0.000312	0.00144	0.00129 J	<b>3.02</b>	<b>25.8</b>	0.402 J	--
MW-202	06/14/18	--	--	--	--	<b>1.49</b>	4.1	0.166 J	--
MW-202	12/19/18	0.00178	0.000839 J	0.00444	0.00187 J	<b>4.74</b>	<b>48.3</b>	1.69	--
MW-202	05/16/19	--	--	--	--	<b>3.04</b>	<b>11.8</b>	0.718	--
MW-202	12/10/19	0.00179	0.00159	0.0128	0.00202 J	<b>4.29</b>	<b>24</b>	0.534	--
MW-202	06/29/20	--	--	--	--	<b>1.78</b>	<b>13.1</b>	0.412	--
MW-202	12/16/20	0.00132 J	0.000409 J-	0.00236 J	<0.0005 J	<b>3.47</b>	<b>36.60</b>	0.641	--
MW-202	06/14/21	--	--	--	--	<b>1.32</b>	4.52	0.327 J	--
MW-202	12/16/21	0.00275	0.000751 J	0.00121	0.00169 J	<b>3.71</b>	<b>17.0</b>	0.706	--
MW-202	06/29/22	--	--	--	--	<b>3.33</b>	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	<b>2.6</b>	0.45	< 0.5	--
MW-203	10/19/04	0.013	< 0.001	0.015	0.0025	<b>1.6</b>	< 0.25	< 0.5	--
MW-203	10/19/04	0.017	< 0.001	0.012	0.0018	<b>1.4</b>	< 0.25	< 0.5	--
MW-203	01/25/05	0.0063	< 0.001	0.011	0.0013	<b>1.6</b>	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	<b>4.2</b>	2.1	1.1	--
MW-203	01/23/06	0.00186	< 0.0005	0.00182	0.00125	0.76	0.565	< 0.943	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-203	04/26/16	0.00694	0.00076	0.00079	<0.003	<b>1.38</b>	0.66	0.625	--
MW-203	10/13/16	0.023	0.00553	0.00448	0.00652	<b>6.22</b>	7.39	1.34	--
MW-203	04/27/17	0.00502	<0.0005	0.00053	<0.003	<b>1.24</b>	0.507	0.515	--
MW-203	05/20/08	--	--	--	--	0.6	0.32	< 0.5	--
MW-203	11/18/08	--	--	--	--	0.17	< 0.25	< 0.5	--
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	--	--	--	--	<b>1.38</b>	0.262	0.118	--
MW-203	06/13/12	--	--	--	--	0.459	0.134	0.332	--
MW-203	11/27/12	--	--	--	--	<b>1.05</b>	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	--	--	--	--	<b>1.56</b>	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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-203	12/10/19	--	--	--	--	<b>1.74</b>	0.495	0.189 J	--
MW-203	06/29/20	--	--	--	--	0.256	0.209 J	0.181 J	--
MW-203	12/15/20	--	--	--	--	0.282	<0.229	0.930	--
MW-203	06/15/21	--	--	--	--	<0.150	<0.246	0.267 J	--
MW-203	12/16/21	--	--	--	--	0.129 J	0.138 J	0.273 J	--
<b>MW-203</b>	<b>06/28/22</b>	--	--	--	--	<b>0.0343 J</b>	<b>0.645</b>	<b>1.56</b>	--
MW-204	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.6	< 0.5	--
MW-204	01/26/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	6.2	< 1	--
MW-204	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.5	0.79	--
MW-204	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.076	1.1	0.59	--
MW-204	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	0.082	0.45	< 0.5	--
MW-204	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	5.53	< 0.952	--
MW-204	04/25/06	< 0.0005	< 0.0005	< 0.0005	< 0.003	0.0755	2.51	1.11	--
MW-204	10/12/06	< 0.0005	< 0.0005	< 0.0005	< 0.003	0.0634	0.896	0.519	--
MW-204	04/26/07	< 0.0005	< 0.0005	< 0.0005	< 0.003	0.0855	1.81	0.749	--
MW-204	10/30/07	--	--	--	--	< 0.05	--	--	--
MW-204	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	0.13	1	< 0.5	--
MW-204	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	3.5	0.16	--
MW-204	10/27/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.29	< 0.1	--
MW-204	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.066	0.599	< 0.20	--
MW-204	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.975	< 0.10	--
MW-204	11/06/13	0.00057 J	< 0.00020	< 0.00020	< 0.00046	0.0762 J	0.28	0.0976 J	--
MW-204	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.505	0.321	--
MW-204	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.579	< 0.388	--
MW-204	12/13/16	0.000187 J	< 0.000312	0.000555 J	< 0.000442	< 0.0178	0.507	0.215	--
MW-204	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.786	0.232 J	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-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	--
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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-206A	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	--
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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	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	--
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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	04/07/09	< 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	J< 0.000312	< 0.000198 J	< 0.000442 J	< 0.0704 J	0.305	< 0.128	--
MW-214	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.170 J	< 0.120	--
MW-214	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.547	0.415	--
MW-214	05/16/19	< 0.000200	0.000303 J	< 0.000190	< 0.000580	< 0.0550	0.213 J	< 0.122	--
MW-214	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.239 J	< 0.121	--
MW-214	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-214	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.218	<0.363	--
MW-214	06/14/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.122 J	<0.395	--
MW-214	12/16/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	0.172 J	0.129 J	--
MW-214	06/29/22	<0.000400	<0.00100	<0.00100	<0.00300	<0.15	0.181 J	0.135 J	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act		0.071	200	29	NE	1	10	10	0.0058
Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-301	03/02/12	<b>0.24</b>	0.0138	0.0099	0.0212	<b>3.37</b>	--	--	--
MW-301	09/25/12	<b>0.333</b>	0.0131	0.0186	0.0192	<b>4.02</b>	--	--	--
MW-301	11/28/12	<b>0.241</b>	0.0099	0.0125	0.0106	<b>2.76</b>	--	--	--
MW-301	02/21/13	<b>0.659</b>	0.0175	0.0264	0.0173 J	<b>3.98</b>	0.315	< 0.10	--
MW-301	05/15/13	<b>0.357</b>	0.0122	0.0231	0.0145	<b>3.63</b>	--	--	--
MW-301	11/04/13	<b>0.16</b>	0.0097	0.0164	0.0109	<b>2.29</b>	--	--	--
MW-301	04/23/14	<b>0.252</b>	0.0072	0.0135	0.0075	<b>3.57</b>	--	--	--
MW-301	07/24/14	<b>0.314</b>	0.008	0.0143	0.0096	<b>3.7</b>	0.361	< 0.094	--
MW-301	11/03/14	<b>0.108</b>	0.0043 J	0.0046 J	0.0051 J	<b>1.76</b>	--	--	--
MW-301	03/09/15	<b>0.222</b>	0.0067	0.0065	0.0062 J	<b>2.27</b>	--	--	--
MW-301	05/21/15	<b>0.194</b>	0.0069	0.01	0.0060 J	<b>2.24</b>	--	--	--
MW-301	07/28/15	<b>0.116</b>	0.0036	0.0037	0.0019 J	<b>2.09</b>	--	--	--
MW-301	12/10/15	0.0437	0.00351	0.00104	0.00551	<b>1.34</b>	--	--	--
MW-301	02/22/16	<b>0.28</b>	0.00881	0.0104	0.00746	<b>3.65</b>	--	--	--
MW-301	05/02/16	<b>0.17</b>	0.00834	0.0138	0.00663	<b>3.32</b>	--	--	--
MW-301	08/29/16	0.0647	0.00551	0.0103	0.0064	<b>2.9</b>	--	--	--
MW-301	12/12/16	<b>0.251</b>	0.00745	0.0173	0.00633	<b>3</b>	--	--	--
MW-301	03/13/17	<b>0.206</b>	0.00771	0.0117	0.00585	<b>3.02</b>	--	--	--
MW-301	06/13/17	<b>0.111</b>	0.00659 J	0.0128	0.00713 J	<b>2.5</b>	--	--	--
MW-301	08/22/17	0.0652	0.00472	0.0108	0.00366	<b>1.93</b>	--	--	--
MW-301	12/05/17	0.0222	0.00228	0.00217	0.00272 J	<b>1.67</b>	--	--	--
MW-301	03/06/18	<b>0.207</b>	0.00303	0.00542	0.00248 J	<b>1.32</b>	--	--	--
MW-301	06/13/18	0.0132	0.00108	0.00239	0.000821 J	<b>1.27</b>	--	--	--
MW-301	09/06/18	0.00368	0.000585 J	0.000352 J	0.000489 J	<b>1.45</b>	--	--	--
MW-301	12/20/18	0.0175	0.000688 J	0.00259	0.000536 J	0.445	--	--	--
MW-301	03/19/19	<b>0.0999</b>	0.00182	0.00923	0.00182 J	<b>1.34</b>	--	--	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	<b>1.69</b>	--	--	--
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	--	--	--
<b>MW-301</b>	<b>06/28/22</b>	<b>0.0215</b>	<b>0.000854 J</b>	<b>0.00316</b>	<b>0.000735 J</b>	<b>0.478</b>	--	--	--
MW-302	03/01/12	<b>0.831</b>	0.0275	0.213	0.248	<b>5.33</b>	--	--	--
MW-302	06/12/12	<b>0.574</b>	0.0156	0.0183	0.0244	<b>4.18</b>	--	--	--
MW-302	06/28/12	<b>1.23</b>	0.0437	0.403	0.289	<b>5.65</b>	--	--	--
MW-302	09/25/12	<b>0.657</b>	0.0247	0.18	0.106	<b>4.07</b>	--	--	--
MW-302	11/25/12	<b>0.449</b>	0.0152	0.191	0.177	<b>4.58</b>	--	--	--
MW-302	02/22/13	<b>0.393</b>	0.0149	0.124	0.116	<b>4.15</b>	0.435	< 0.10	--
MW-302	05/14/13	<b>0.873</b>	0.0231	0.236	0.145	<b>4.19</b>	--	--	--
MW-302	09/05/13	<b>0.783</b>	0.0189	0.162	0.0746	<b>3.7</b>	--	--	--
MW-302	11/05/13	<b>0.607</b>	0.0112	0.0977	0.0529	<b>2.69</b>	--	--	--
MW-302	01/16/14	<b>0.404</b>	0.0161	0.0843	0.0504	<b>3.54</b>	--	--	--
MW-302	04/23/14	<b>0.98</b>	0.0269	0.276	0.232	<b>5.86</b>	--	--	--
MW-302	07/24/14	<b>0.656</b>	0.0206	0.178	0.131	<b>4.66</b>	0.363	< 0.094	--
MW-302	11/03/14	<b>0.506</b>	0.0159	0.221	0.176	<b>4.06</b>	0.361	< 0.094	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-302	05/21/15	<b>0.454</b>	0.0161	0.174	0.15	<b>3.44</b>	--	--	< 0.010
MW-302	12/10/15	<b>0.372</b>	0.00853	0.0139	0.0176	<b>2.16</b>	1	< 0.391	--
MW-302	05/04/16	<b>0.595</b>	0.0145	0.27	0.153	<b>3.75</b>	--	--	--
MW-302	12/15/16	<b>0.759</b>	0.0263	0.453	0.117	<b>5.08</b>	1.73	< 0.0630	--
MW-302	06/13/17	<b>0.487</b>	0.0146 J	0.215	0.0524 J	<b>1.98</b>	--	--	--
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	<b>1.79</b>	9.96	0.209 J	--
MW-302	03/07/18	0.0707	0.00314	0.043	0.00763	<b>1.61</b>	--	--	--
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	<b>1.84 J</b>	--	--	--
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	<b>1.23</b>	--	--	--
MW-302	06/30/20	0.0219	0.00152	0.0368	0.00590 J	<b>1.23</b>	--	--	--
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-	<b>1.84</b>	<b>10.80</b>	0.529	--
MW-302	04/13/21	0.00616 J-	0.000526 J	0.0178 J-	0.00419 J-	<b>1.85</b>	--	--	--
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	<b>1.19</b>	6.39	0.622	--
MW-302	03/28/22	0.00516	0.000712 J	0.0122	0.00292 J	<b>1.18</b>	--	--	--
MW-302	06/28/22	0.00282	0.000505 J	0.0214	0.00456	0.414	--	--	--
MW-303	03/02/12	<b>3.13</b>	0.0759	0.76	0.232	<b>12.3</b>	--	--	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-303	06/13/12	<b>2.9</b>	0.0957	0.884	0.268	<b>12.5</b>	--	--	--
MW-303	09/25/12	<b>1.83</b>	0.0635	0.474	0.146	<b>9.14</b>	--	--	--
MW-303	11/28/12	<b>1.94</b>	0.0873	1.18	0.319	<b>12.6</b>	--	--	--
MW-303	02/21/13	<b>2.34</b>	0.0955	1.29	0.338	<b>12.8</b>	0.674	< 0.10	--
MW-303	05/15/13	<b>1.9</b>	0.0864	0.983	0.272	<b>10.6</b>	--	--	--
MW-303	11/04/13	<b>0.884</b>	0.0278	0.219	0.0544	<b>6.11</b>	--	--	--
MW-303	04/23/14	<b>1.58</b>	0.071	1.114	0.224	<b>11.8</b>	--	--	--
MW-303	07/24/14	<b>0.808</b>	0.0471	0.653	0.161	<b>9.76</b>	0.622	< 0.094	--
MW-303	11/04/14	<b>1.42</b>	0.0618	0.924	0.18	<b>11.5</b>	1	1.15	--
MW-303	05/20/15	<b>0.669</b>	0.0432	0.713	0.157	<b>7.9</b>	--	--	--
MW-303	12/08/15	<b>1.19</b>	0.071	1.33	< 0.300	<b>7.6</b>	2.45	< 0.398	--
MW-303	05/04/16	<b>0.704</b>	0.0625	1.82	0.287	<b>8.6</b>	--	--	--
MW-303	12/12/16	<b>0.831</b>	0.0482	1.45	0.176	<b>8.31</b>	2.52	< 0.0602	--
MW-303	06/13/17	<b>0.353</b>	0.0408	1.54	0.19	<b>5.69</b>	--	--	--
MW-303	12/05/17	<b>0.104</b>	0.0116 J	0.3	0.0400 J	<b>4.29</b>	7.49	< 0.125	--
MW-303	03/06/18	0.039	0.0154	0.147 J	0.0352	<b>2.5</b>	--	--	--
MW-303	06/13/18	<b>0.157</b>	0.0151 J	0.39	0.0317 J	<b>2.94 J</b>	--	--	--
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	<b>2.48</b>	--	--	--
MW-303	05/16/19	0.0173	0.0017	0.0869	0.00541	<b>1.33</b>	--	--	--
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	<b>2.46</b>	--	--	--
MW-303	06/30/20	0.0152	0.000897 J	0.0386	0.00696	<b>2.64</b>	--	--	--
MW-303	09/22/20	0.02	0.00254	0.153	0.00623	<b>1.86</b>	--	--	--
MW-303	12/15/20	0.0150 J-	0.00412 J-	0.119 J-	0.0146 J-	<b>3.34</b>	5.28	<0.389	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-303	04/13/21	0.071	200	29	NE	1	10	10	0.0058
MW-303	06/15/21	0.0135 J-	0.00170 J-	0.0371 J-	0.0104 J-	4.07	--	--	--
MW-303	09/22/21	0.0258	0.00343	0.133	0.00867	1.94	--	--	--
MW-303	12/15/21	0.252	0.00724	0.344	0.0194	2.29	--	--	--
MW-303	03/28/22	0.0248	0.000620 J	0.0142	0.00435	2.39	6.51	0.385 J	--
MW-303	06/28/22	0.0270	0.00196	0.0638	0.00892	2.63	--	--	--
MW-303	06/28/22	<b>0.107</b>	0.00303	0.0272	0.00922	<b>2.25</b>	--	--	--
MW-304	03/01/12	<b>0.686</b>	0.0351	0.214	0.264	<b>5.64</b>	--	--	--
MW-304	06/12/12	<b>1.04</b>	0.0408	0.27	0.218	<b>5.98</b>	--	--	--
MW-304	09/25/12	<b>0.63</b>	0.024	0.198	0.105	<b>3.93</b>	--	--	--
MW-304	11/28/12	<b>0.411</b>	0.0244	0.306	0.252	<b>5.89</b>	--	--	--
MW-304	02/22/13	<b>0.507</b>	0.0225	0.208	0.149	<b>5.56</b>	0.762	0.186 J	--
MW-304	05/14/13	<b>0.645</b>	0.0283	0.209	0.144	<b>4.73</b>	--	--	--
MW-304	09/05/13	<b>0.862</b>	0.0188	0.0849	0.0616	<b>3.09</b>	--	--	--
MW-304	11/05/13	<b>0.695</b>	0.0163	0.0629	0.054	<b>2.67</b>	--	--	--
MW-304	01/16/14	<b>0.79</b>	0.0194	0.0472	0.0571	<b>4.89</b>	--	--	--
MW-304	04/23/14	<b>0.778</b>	0.0248	0.185	0.147	<b>5.93</b>	--	--	--
MW-304	07/24/14	<b>0.437</b>	0.0173	0.109	0.0666	<b>3.59</b>	0.557	< 0.094	--
MW-304	11/03/14	<b>1.11</b>	0.0421	0.48	0.214	<b>3.32</b>	0.366	< 0.094	--
MW-304	05/20/15	<b>0.486</b>	0.0136	0.115	0.0373	<b>3.3</b>	--	--	< 0.010
MW-304	12/10/15	<b>0.775</b>	0.0312	0.336	0.114	<b>4.37</b>	1.55	< 0.387	--
MW-304	05/04/16	<b>0.527</b>	0.0187	0.355	0.0559	<b>4.05</b>	--	--	--
MW-304	12/15/16	<b>0.749</b>	0.0271	0.586	0.0664	<b>5.75</b>	1.78	0.0686 J	--
MW-304	06/13/17	<b>0.209</b>	0.0113	0.413	0.0246 J	<b>2.2</b>	--	--	--
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	--	--	--

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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	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	--	--	--
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	<b>1.14</b>	0.0227	0.0389	0.0375 J	<b>5.84</b>	--	--	--
MW-305	06/11/12	<b>1.34</b>	0.0221	0.0517	0.0331 J	<b>5.97</b>	--	--	--
MW-305	09/26/12	<b>1.27</b>	0.0229	0.0388	0.0355 J	<b>5.89</b>	--	--	--
MW-305	11/28/12	<b>0.286</b>	0.0061	0.0032 J	0.014	<b>1.53</b>	--	--	--
MW-305	05/15/13	<b>0.397</b>	0.0263	0.29	0.0867	<b>6.28</b>	--	--	--
MW-305	11/07/13	<b>0.0844</b>	0.025	0.216	0.0919	<b>3.59</b>	--	--	--
MW-305	04/23/14	<b>0.0884</b>	0.0139	0.0941	0.0454	<b>2.82</b>	--	--	--
MW-305	11/06/14	0.0419	0.0052	0.002	0.0306	<b>1.16</b>	--	--	--
MW-305	05/21/15	<b>0.12</b>	0.0101	0.191	0.108	<b>2.81</b>	--	--	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-306	03/01/12	<b>0.606</b>	0.015	0.0353	0.718	<b>4.74</b>	--	--	--
MW-306	06/11/12	<b>0.393</b>	0.0115	0.0509	0.763	<b>5.09</b>	--	--	--
MW-306	09/26/12	<b>1.05</b>	0.0261	0.135	0.147	<b>6.56</b>	--	--	--
MW-306	11/28/12	<b>0.393</b>	0.0125	0.0183	0.0895	<b>3.06</b>	--	--	--
MW-306	05/15/13	<b>0.746</b>	0.0472	0.837	3.7	<b>18.5</b>	--	--	--
MW-306	11/07/13	<b>0.101</b>	0.0502	0.482	2.65	<b>12.8</b>	--	--	--
MW-306	04/23/14	<b>0.0762</b>	0.0345	0.325	1.97	<b>11</b>	--	--	--
MW-306	11/06/14	<b>0.119</b>	0.0226	0.302 J	0.939 J	<b>5.59</b>	--	--	--
MW-306	05/21/15	<b>0.106</b>	0.0354 J	0.874	5.15	<b>20.6</b>	--	--	--
MW-307	11/26/12	<b>2.15</b>	0.0858	0.833	0.513	<b>10.9</b>	--	--	--
MW-307	02/22/13	<b>0.497</b>	0.0358	0.226	0.145	<b>6.02</b>	0.604	< 0.094	--
MW-307	05/15/13	<b>0.437</b>	0.0461	0.167	0.12	<b>4.56</b>	--	--	--
MW-307	09/05/13	<b>0.643</b>	0.0645	0.154	0.131	<b>5.3</b>	--	--	--
MW-307	11/06/13	<b>0.568</b>	0.0448 J	0.104	0.0912	<b>4.39</b>	--	--	--
MW-307	04/22/14	<b>0.52</b>	0.0408	0.241	0.152	<b>5.68</b>	--	--	--
MW-307	11/04/14	<b>0.596</b>	0.039	0.176	0.095	<b>5.16</b>	0.632	< 0.095	--
MW-307	03/09/15	<b>0.444</b>	0.0358	0.271	0.104	<b>5.41</b>	--	--	--
MW-307	05/19/15	<b>0.306</b>	0.0273	0.14	0.0673	<b>3.44</b>	0.479	< 0.096	--
MW-307	07/29/15	<b>0.298</b>	0.0245	0.109	0.0434	<b>4.09</b>	--	--	--
MW-307	12/09/15	<b>0.699</b>	0.0585	0.334	0.131	<b>5.03</b>	1.63	< 0.392	--
MW-307	02/23/16	<b>0.498</b>	0.0417	0.578	0.110 J	<b>4.98</b>	--	--	--
MW-307	05/03/16	<b>0.469</b>	0.0338	0.456	0.0981	<b>5.04</b>	1.55	< 0.0597	--
MW-307	08/30/16	<b>0.261</b>	0.0299	0.222	0.195	<b>5.13</b>	--	--	--
MW-307	12/13/16	<b>0.275</b>	0.0255	0.302	0.102	<b>4.02</b>	1.34	0.0812 J	--
MW-307	03/14/17	<b>0.418</b>	0.0311	0.54	0.136	<b>6.33</b>	--	--	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-307	06/15/17	<b>0.166</b>	0.0242	0.283	0.194 J	<b>4.18</b>	1.32	< 0.121	--
MW-307	08/23/17	<b>0.102 J</b>	0.0162	0.095	0.0912	<b>3.22</b>	1.33	< 0.126	--
MW-307	12/06/17	0.0501	0.00663	0.0479	0.0134	0.977	1.04	< 0.128	--
MW-307	03/08/18	<b>0.15</b>	0.0158	0.134	0.0255	<b>2.09</b>	--	--	--
MW-307	06/14/18	<b>0.243</b>	0.0256	0.315	0.0329	<b>2.71</b>	1.45	< 0.120	--
MW-307	09/05/18	0.0507	0.00339	0.016	0.00343	<b>1.45</b>	--	--	--
MW-307	12/19/18	0.027	0.000413 J	0.0119	0.00153 J	<b>1.17</b>	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	<b>2.47</b>	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	<b>0.0974</b>	0.00608	0.159	0.0267	<b>1.45</b>	--	--	--
MW-307	06/29/20	<b>0.0946</b>	0.00479	0.0909	0.0164	<b>1.18</b>	7.11	0.273 J	--
MW-307	09/21/20	<b>0.21</b>	0.0102	0.156	0.0516	<b>2.01</b>	--	--	--
MW-307	12/16/20	<b>0.106 J-</b>	0.0072 J-	0.0622 J	0.0336 J-	<b>1.52</b>	7.75	<0.379	--
MW-307	04/12/21	<b>0.133 J</b>	0.0228 J-	0.0930 J	0.0950 J	<b>4.06 J+</b>	--	--	--
MW-307	06/14/21	<b>0.230</b>	0.0180	0.282	0.0885	<b>2.02</b>	6.68	0.422	--
MW-307	09/22/21	<b>0.135</b>	0.0145	0.109	0.0717	<b>1.83</b>	--	--	--
MW-307	12/14/21	0.0426	0.00493	0.0921	0.0402	<b>2.39</b>	4.92	0.492	--
MW-307	03/28/22	<b>0.0982</b>	0.0223	0.147	0.0988	<b>3.69</b>	--	--	--
MW-307	06/29/22	<b>0.149</b>	0.0318	0.176	0.158 J	<b>2.87</b>	4.02	0.33 J	--
MW-308	11/26/12	<b>0.144</b>	0.0010 J	0.0072	0.0013 J	0.778	--	--	--
MW-308	02/22/13	<b>0.668</b>	0.0078 J	0.0443	0.0059 J	<b>3.48</b>	0.354	< 0.10	--
MW-308	05/15/13	<b>0.392</b>	0.0052 J	0.0427	< 0.0046	<b>2.54</b>	--	--	--
MW-308	11/06/13	<b>0.237</b>	0.0033 J	0.0056	0.0026 J	<b>1.65</b>	--	--	--
MW-308	04/22/14	0.0165	< 0.00020	0.00036 J	< 0.00046	0.146	--	--	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-308	11/04/14	<b>0.132</b>	0.0012	0.0044	0.00058	0.782	< 0.048	< 0.095	--
MW-308	03/09/15	<b>0.121 J</b>	0.002	0.00064 J	0.0013 J	<b>1.1</b>	--	--	--
MW-308	05/19/15	<b>0.213</b>	0.0013 J	< 0.00050	< 0.0012	0.973	--	--	--
MW-308	07/29/15	<b>0.242</b>	0.0017 J	0.0014 J	< 0.0012	<b>1.77</b>	--	--	--
MW-308	12/09/15	<b>0.146</b>	0.00361	0.0284	0.00527	<b>1.19</b>	--	--	--
MW-308	02/23/16	0.00711	< 0.0000380	0.000101 J	< 0.0000160	0.0619	--	--	--
MW-308	05/03/16	<b>0.281</b>	0.000903 J	0.00376	0.000680 J	<b>1.41</b>	--	--	--
MW-308	08/30/16	<b>0.196</b>	< 0.00312	< 0.00198	< 0.00162	<b>1.48</b>	--	--	--
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	<b>0.383</b>	0.00147	0.00107	0.000477 J	<b>1.28</b>	--	--	--
MW-308	08/23/17	<b>0.234</b>	< 0.00312	< 0.00198	< 0.00442	0.812 J	--	--	--
MW-308	12/06/17	<b>0.085</b>	< 0.000312	0.000717 J	< 0.000442	0.245	--	--	--
MW-308	03/08/18	<b>0.252</b>	0.000314 J	< 0.000198	< 0.000442	0.55	--	--	--
MW-308	06/14/18	<b>0.238</b>	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	<b>0.0730 J</b>	0.0954 J	0.026 J	0.0417 J	0.30	--	--	--
MW-308	04/12/21	0.0365 J+	0.000521 J+	0.000515 J+	<0.000500	0.267	--	--	--
MW-308	06/14/21	0.0572	0.00139	0.000975 J	0.00155 J	0.793	--	--	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-308	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	--	--	--
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	--	--	--

**Table 6**  
**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	
Model Toxics Control Act		0.071	200	29	NE	1	10	10	0.0058
Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-310	11/28/12	<b>0.86</b>	0.0265	0.211	0.147	<b>5.74</b>	--	--	--
MW-310	02/21/13	<b>1.8</b>	0.0768	0.506	0.18	<b>8.37</b>	0.603	< 0.10	--
MW-310	05/14/13	<b>0.993</b>	0.0703	0.654	0.175	<b>6.49</b>	--	--	--
MW-310	09/05/13	<b>0.96</b>	0.0598	0.31	0.11	<b>5.51</b>	--	--	--
MW-310	11/05/13	<b>0.772</b>	0.0409	0.226	0.0846	<b>4.92</b>	--	--	--
MW-310	01/16/14	<b>0.821</b>	0.0414	0.189	0.0775	<b>5.94</b>	--	--	< 0.001 <sup>1</sup>
MW-310	04/23/14	<b>0.796</b>	0.0432	0.187	0.0607	<b>5.88</b>	--	--	--
MW-310	07/24/14	<b>0.92</b>	0.0489	0.368	0.0647	<b>6.36</b>	0.605	< 0.094	--
MW-310	11/04/14	<b>0.739</b>	0.0387	0.132	0.0538	<b>5.15</b>	0.613	< 0.094	--
MW-310	03/09/15	<b>0.736</b>	0.0475	0.189	0.0606	<b>4.71</b>	--	--	--
MW-310	05/21/15	<b>0.641</b>	0.0464	0.169	0.0572	<b>4.39</b>	--	--	< 0.010
MW-310	07/28/15	<b>0.714</b>	0.0428	0.181	0.0488	<b>3.72</b>	--	--	--
MW-310	12/10/15	<b>0.405</b>	0.0396	0.0771	0.0564	<b>3.89</b>	2.75	< 0.390	--
MW-310	02/23/16	<b>0.755</b>	0.0436	0.303	0.0615	<b>4.86</b>	--	--	--
MW-310	05/02/16	<b>0.655</b>	0.0349	0.324	0.0721	<b>4.82</b>	--	--	--
MW-310	08/29/16	<b>0.734</b>	0.0608	0.209	0.0885	<b>5.38</b>	--	--	--
MW-310	12/15/16	<b>0.673</b>	0.0504	0.289	0.0747	<b>5.92</b>	1.72	< 0.0624	--
MW-310	03/13/17	<b>0.809</b>	0.0541	0.387	0.0848	<b>5.58</b>	--	--	--
MW-310	06/15/17	<b>0.984</b>	0.0504	0.318	0.0635	<b>4.29</b>	--	--	--
MW-310	08/22/17	0.0562	0.0135	0.0416	0.0297	<b>2.17</b>	--	--	--
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	--	--	--

**Table 6**  
**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	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-310	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-	<b>1.61</b>	--	--	--
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	<b>1.40</b>	6.76	0.667	--
MW-310	03/29/22	0.0313	0.000978 J	0.00948	0.00296 J	<b>1.55</b>	--	--	--
<b>MW-310</b>	<b>06/28/22</b>	<b>0.0392</b>	<b>0.000966 J</b>	<b>0.0179</b>	<b>0.00550</b>	<b>0.924</b>	--	--	--
MW-311	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	< 0.010
MW-311	03/09/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	06/11/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	--	--	--
MW-311	02/23/16	< 0.0000320	< 0.0000380	< 0.0000860	< 0.0000160	< 0.0178	--	--	--
MW-311	05/04/16	0.000716	< 0.000312	< 0.000198	< 0.000162	0.0260 J	--	--	--
MW-311	08/29/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.0178	--	--	--
MW-311	12/15/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	--	--	--
MW-311	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	06/15/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	08/22/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	<b>1.41 J</b>	--	--	--
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	<b>1.66 J+</b>	--	--	--
MW-311	04/13/21	<0.000200	0.00102	0.000247	<0.000500	<b>1.32</b>	--	--	--
MW-311	09/23/21	0.00207	0.00309	0.000899 J	0.000789 J	<b>1.20</b>	--	--	--
MW-311	12/16/21	0.000347 J	0.000923 J	0.000343 J	0.00105 J	<b>1.63</b>	--	--	--
MW-311	03/29/22	0.000243 J	0.000909 J	0.000302 J	0.000828 J	<b>1.66</b>	--	--	--
MW-311	06/28/22	0.00253	0.00349	0.000596 J	0.000644 J	<b>2.05</b>	--	--	--
MW-312	11/05/14	<b>0.239</b>	0.0058	0.0065	0.0102	<b>1.64</b>	1.13	0.132 J	< 0.010
MW-312	03/09/15	<b>0.357</b>	0.0044 J	0.0086	0.0050 J	<b>1.91</b>	--	--	--
MW-312	06/11/15	<b>0.204</b>	0.0034 J	0.0023 J	0.0027 J	<b>1.35</b>	--	--	--
MW-312	07/28/15	<b>0.313</b>	0.0041 J	0.0030 J	0.0032 J	<b>1.65</b>	--	--	--
MW-312	12/10/15	<b>0.0718</b>	0.00333	0.00222	0.00461	<b>1.26</b>	--	--	--
MW-312	02/23/16	<b>0.327</b>	0.00354	0.00759	0.00416	<b>1.96</b>	--	--	--
MW-312	05/04/16	<b>0.414</b>	0.00399	0.00662	0.00376	<b>2.22</b>	--	--	--
MW-312	08/29/16	<b>0.37</b>	0.00457 J	0.00354 J	0.00394 J	<b>2.3</b>	--	--	--
MW-312	12/15/16	<b>0.356</b>	0.00336 J	0.00556 J	< 0.000442	<b>2.27</b>	--	--	--

**Table 6**  
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**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-312	03/13/17	<b>0.35</b>	0.00362	0.00527	0.00375	<b>2.07</b>	--	--	--
MW-312	06/15/17	<b>0.383</b>	0.00372	0.00425	0.00368 J	<b>1.89</b>	--	--	--
MW-312	08/23/17	<b>0.33</b>	0.00395	0.00279	0.00422	<b>2.02</b>	--	--	--
MW-312	12/07/17	<b>0.241</b>	0.00441	0.00223	0.00708	<b>1.72</b>	--	--	--
MW-312	03/08/18	<b>0.261</b>	0.00273 J	0.00260 J	0.00311 J	<b>1.77</b>	--	--	--
MW-312	06/13/18	<b>0.284</b>	0.0044	0.00243	0.0048	<b>1.69</b>	--	--	--
MW-312	09/05/18	<b>0.283</b>	0.00405	0.00306	0.0041	<b>2.06</b>	--	--	--
MW-312	12/20/18	<b>0.126</b>	0.00284	0.00231	0.00361	<b>1.44</b>	--	--	--
MW-312	03/19/19	<b>0.183</b>	0.00372	0.00472	0.00447	<b>2.07</b>	--	--	--
MW-312	05/16/19	<b>0.189</b>	0.00286	0.00353	0.00290 J	<b>2.5</b>	--	--	--
MW-312	09/19/19	<b>0.0928</b>	0.00233	0.00307	0.00220 J	<b>1.64</b>	--	--	--
MW-312	12/12/19	<b>0.094</b>	0.00251	0.00341	0.00275 J	<b>1.7</b>	--	--	--
MW-312	04/28/20	<b>0.0721</b>	0.00213	0.00315	0.00274 J	<b>1.66</b>	--	--	--
MW-312	06/30/20	<b>0.0792</b>	0.00238	0.00406	0.00208 J	<b>1.47</b>	--	--	--
MW-312	09/22/20	<b>0.176</b>	0.00286	0.0068	0.00295 J	<b>2.69</b>	--	--	--
MW-312	12/15/20	0.0498	0.00251	0.00437	0.00284	<b>2.56 J+</b>	--	--	--
MW-312	04/13/21	<b>0.121</b>	0.00244	0.00453	0.00219	--	--	--	--
MW-312	06/16/21	0.0472	0.00214	0.00250	0.00199 J	<b>1.57</b>	--	--	--
MW-312	09/23/21	0.0398	0.00264	0.00329	0.00226 J	<b>1.83</b>	--	--	--
MW-312	12/16/21	0.0300	0.00225	0.00290	0.00237 J	<b>2.99</b>	--	--	--
MW-312	03/29/22	0.0136	0.00172	0.00240	0.00180 J	<b>2.77</b>	--	--	--
MW-312	06/29/22	0.0358	0.00269	0.00230	0.00205 J	<b>2.28</b>	--	--	--
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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-313	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	--
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	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	--
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	<b>0.0965</b>	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	<b>1.17</b>	1.29	0.0871 J	--
MW-315	03/13/17	0.0295	0.00478	0.00153	0.00793	<b>1.24</b>	1.64	< 0.121	--
MW-315	06/15/17	<b>0.0804</b>	0.00426	0.000634 J	0.00965	<b>1.2</b>	2.95	< 0.122	--
MW-315	08/23/17	<b>0.0727</b>	0.00403	0.000909 J	0.00871	<b>1.71</b>	2.74	< 0.123	--
MW-315	12/07/17	0.00479	0.00377	0.000382 J	0.00756	<b>1.19</b>	2.21	< 0.121	--
MW-315	03/08/18	0.0435	0.00411	0.000736 J	0.00712	<b>1.39</b>	1.15	< 0.125	--
MW-315	06/13/18	0.0619	0.00529	0.000648 J	0.00762	<b>1.19</b>	1.78	< 0.120	--
MW-315	09/05/18	0.0178	0.00461	0.000476 J	0.00904	<b>1.33</b>	2.89	0.267 J	--
MW-315	12/20/18	0.00283	0.00464	0.000599 J	0.0106	<b>1.16</b>	3.06	0.310 J	--
MW-315	03/18/19	0.0233	0.00363	0.000959 J	0.0039	<b>1.4</b>	1.89	0.149 J	--
MW-315	05/16/19	0.0565	0.00393	0.000584 J	0.00399	<b>2.16</b>	2.38	0.179 J	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-315	09/19/19	0.0361	0.0036	0.000542 J	0.00353	<b>1.29</b>	2.61	0.133 J	--
MW-315	12/12/19	0.00334	0.00389	0.000667 J	0.005	<b>1.68</b>	3.96	0.266 J	--
MW-315	04/27/20	0.051	0.00406	0.000695 J	0.00368	<b>1.66</b>	2.81	0.126 J	--
MW-315	06/30/20	0.0699	0.00574	0.000878 J	0.00413	<b>1.82</b>	2.74	0.155 J	--
MW-315	09/22/20	0.0297	0.00383	0.000625 J	0.00266 J	<b>1.78</b>	2.89	0.171 J	--
MW-315	12/15/20	0.0028	0.0044	0.000673	0.00368	<b>2.26 J+</b>	3.34	<0.385	--
MW-315	04/13/21	0.0666 J	0.00493	0.00141	0.00256	<b>2.90 J+</b>	5.04	0.691	--
MW-315	06/16/21	0.0578	0.00411	0.00182	0.00289 J	<b>1.66</b>	3.32	0.218 J	--
MW-315	09/23/21	0.00915	0.00392	0.000428 J	0.00276 J	<b>1.48</b>	3.27	0.180 J	--
MW-315	12/16/21	0.00421	0.00375	0.000543 J	0.00251 J	<b>2.81</b>	3.23	0.296 J	--
MW-315	03/29/22	0.0452	0.00420	0.000890 J	0.00252 J	<b>2.41</b>	2.44	0.136 J	--
<b>MW-315</b>	<b>06/28/22</b>	<b>0.0177</b>	<b>0.00382</b>	<b>0.000548 J</b>	<b>0.00284 J</b>	<b>2.37</b>	<b>2.31</b>	<b>0.207 J</b>	--
SH-04	01/13/04	<b>1.2</b>	0.21	0.14	2.11	<b>15</b>	4.7	< 2.5	--
SH-04	04/20/04	<b>1.5</b>	0.49	0.64	5.79	<b>26</b>	6.2	< 10	--
SH-04	07/27/04	<b>1.3</b>	0.13	0.55	1.78	<b>15</b>	5.4	0.53	--
SH-04	04/20/05	<b>0.98</b>	0.061	0.36	1.07	<b>11</b>	4.2	< 1.5	--
SH-04	04/25/06	<b>1.25</b>	0.089	0.65	2.31	<b>20</b>	8.23	2.52	--
SH-04	10/30/07	<b>0.884</b>	0.0315	0.315	0.0814	<b>&lt;5.0</b>	--	--	--
SH-04	05/20/08	<b>1.1</b>	0.048	0.52	0.657	<b>8.9</b>	4.8	0.92	--
SH-04	11/20/08	<b>0.79</b>	0.032	0.23	0.0384	<b>6.6</b>	2.7	< 0.5	--
SH-04	04/08/09	<b>0.87</b>	0.04	0.25	0.19	<b>9.2</b>	4.7	< 0.1	--
SH-04	11/16/09	<b>0.48</b>	0.023	0.068	0.016	<b>4.9</b>	3.7	< 0.1	--
SH-04	04/27/10	<b>0.71</b>	0.027	0.27	0.13	<b>7.3</b>	4.7	0.39	--
SH-04	10/25/10	<b>0.58</b>	0.019	0.18	0.013	<b>4</b>	2.8	< 0.1	--
SH-04	05/23/11	<b>0.655</b>	0.0145	0.151	0.034	<b>5.4</b>	1.84	0.13	--
SH-04	10/27/11	<b>0.393</b>	0.02	0.0926	0.0279	<b>5.35</b>	1.22	< 0.19	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SH-04	03/01/12	<b>0.614</b>	0.0227	0.0932	0.0124 J	<b>5.53</b>	--	--	--
SH-04	06/11/12	<b>0.426</b>	0.0142	0.112	0.0198 J	<b>6</b>	1.49	0.393	--
SH-04	09/25/12	<b>0.124</b>	0.0184	0.461	0.139	<b>6.52</b>	--	--	--
SH-04	11/25/12	<b>0.073</b>	0.0079 J	0.609	0.326	<b>8.15</b>	0.762	< 0.098	--
SH-04	05/15/13	0.0016 J	0.0005	0.0042	0.0032 J	<b>2.16</b>	0.376	< 0.096	--
SH-04	11/04/13	0.0032	0.00043 J	0.0071	0.005	<b>1.05</b>	0.134	< 0.094	--
SH-04	04/24/14	0.0091	0.00053 J	0.00090 J	0.0014 J	0.938	0.469	0.0944 J	--
SH-04	11/06/14	0.0249	0.0023	0.0173	0.0072	0.984	0.608	< 0.094	--
SH-04	05/21/15	0.0094	0.00048 J	0.0035	0.0021	0.78	0.171	< 0.094	--
SH-04	12/08/15	0.0155	0.00118	0.00359	0.00409	0.927	1.74	0.422	--
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	<b>1.35</b>	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	<b>1.29</b>	2.67	0.400 J	--
SH-04	04/18/22	0.00626	0.00105	0.00384	0.00457	<b>1.17</b>	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	--

**Table 6**  
**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	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TES-MW-1	04/20/04	0.0075	< 0.001	0.013	0.049	< 0.25	< 0.25	< 0.5	--
TES-MW-1	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	10/18/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
TES-MW-1	07/13/05	0.001	< 0.001	0.006	0.0189	0.1	< 0.25	< 0.5	--
TES-MW-1	10/20/05	0.0039	< 0.001	0.013	0.0437	0.23	< 0.25	< 0.5	--
TES-MW-1	01/27/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	< 0.240	< 0.481	--
TES-MW-1	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
TES-MW-1	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
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	<b>2.9</b>	0.018	0.038	0.091	<b>2.7</b>	0.86	< 0.5	--
TX-03A	04/19/04	<b>4.4</b>	0.047	0.12	0.11	<b>12</b>	1.3	< 0.5	--

**Table 6**  
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	07/27/04	<b>1.7</b>	0.011	0.016	0.037	<b>5.2</b>	0.81	< 0.5	--
TX-03A	10/18/04	<b>3.2</b>	0.024	0.062	0.093	<b>7.5</b>	1.2	< 0.5	--
TX-03A	01/24/05	<b>2.5</b>	0.02	< 0.01	0.065	<b>8.2</b>	0.54	< 0.5	--
TX-03A	04/19/05	<b>2.5</b>	0.021	0.026	0.049	<b>6.1</b>	0.47	< 0.5	--
TX-03A	07/12/05	<b>3.1</b>	0.024	0.044	0.054	<b>10</b>	0.32	< 0.5	--
TX-03A	10/31/07	<b>2.2</b>	0.0233	0.0601	0.0503	<5.0	--	--	--
TX-03A	05/20/08	<b>0.88</b>	0.007	0.016	0.01	<b>3</b>	--	--	--
TX-03A	11/20/08	<b>2.1</b>	0.019	0.038	0.018	<b>4.5</b>	--	--	--
TX-03A	04/08/09	<b>1.2</b>	< 0.025	0.028	< 0.025	<b>3.5</b>	--	--	--
TX-03A	11/17/09	<b>0.97</b>	0.0078	0.016	0.011	<b>2.4</b>	--	--	--
TX-03A	04/27/10	<b>1.7</b>	0.0096	0.0087	0.0099	<b>4.6</b>	--	--	--
TX-03A	10/25/10	<b>1.7</b>	0.011	0.067	0.013	<b>3.3</b>	--	--	--
TX-03A	05/23/11	<b>1.78</b>	<0.025	0.044	<0.035	<b>7.53</b>	--	--	--
TX-03A	10/27/11	<b>3.44</b>	0.0712	0.147	0.111	<b>8.51</b>	--	--	--
TX-03A	03/01/12	<b>1.74</b>	0.0261	0.0272	0.0345 J	<b>5.58</b>	--	--	--
TX-03A	06/12/12	<b>1.57</b>	0.0200 J	0.0139 J	0.0300 J	<b>6.78</b>	--	--	--
TX-03A	09/25/12	<b>1.7</b>	0.0298	0.041	0.0501	<b>5.53</b>	--	--	--
TX-03A	11/28/12	<b>1.18</b>	0.0188 J	0.0232	0.0357 J	<b>4.91</b>	--	--	--
TX-03A	02/21/13	<b>2.81</b>	0.0403	0.0421	0.0489 J	<b>8.2</b>	0.32	< 0.10	--
TX-03A	05/15/13	<b>2.15</b>	0.0459 J	0.189	0.0643 J	<b>3.11</b>	--	--	--
TX-03A	11/05/13	<b>2.72</b>	0.0343 J	0.0364 J	0.0411 J	<b>6.01</b>	--	--	--
TX-03A	04/23/14	<b>1.22</b>	0.0171	0.0251	0.027	<b>5.76</b>	--	--	--
TX-03A	07/24/14	<b>1.64</b>	0.0317	0.0698	0.052	<b>7.55</b>	0.382	< 0.094	--
TX-03A	11/04/14	<b>0.941</b>	0.0137	0.0366	0.0269	<b>5.76</b>	0.448	< 0.094	--
TX-03A	03/09/15	<b>1.86</b>	0.0246 J	0.0581	0.0390 J	<b>7.16</b>	--	--	--
TX-03A	05/21/15	<b>1.15</b>	0.0144 J	0.0462	0.0260 J	<b>3.4</b>	--	--	--
TX-03A	07/28/15	<b>1.72</b>	0.0213 J	0.118	0.0355 J	<b>5.42</b>	--	--	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	12/10/15	<b>0.635</b>	0.0126	0.026	0.0253	<b>3.32</b>	1.34	< 0.391	--
TX-03A	02/23/16	<b>1.78</b>	0.0274	0.0882	0.0385	<b>5.17</b>	--	--	--
TX-03A	05/02/16	<b>1.54</b>	0.037	0.208	0.0503	<b>6.3</b>	--	--	--
TX-03A	08/29/16	<b>0.844</b>	0.0257	0.246	0.053	<b>5.89</b>	--	--	--
TX-03A	12/15/16	<b>0.995</b>	0.0197 J	0.0697	0.0357 J	<b>4.81</b>	1.73	0.125 J	--
TX-03A	03/13/17	<b>0.76</b>	0.0208	0.0901	0.0352 J	<b>3.66</b>	--	--	--
TX-03A	06/13/17	<b>1.37</b>	0.0361	0.246	0.0618 J	<b>5.36</b>	--	--	--
TX-03A	08/22/17	<b>1.08</b>	0.0233	0.137	0.0363	<b>4.55</b>	--	--	--
TX-03A	12/05/17	<b>0.258</b>	0.00697 J	0.0172 J	0.0126 J	<b>3.07</b>	2.03	0.172 J	--
TX-03A	03/27/18	<b>0.135</b>	0.00114	0.00395	0.000969 J	<b>1.21</b>	--	--	--
TX-03A	06/13/18	<b>0.204</b>	0.0024	0.015	0.000713 J	0.97	--	--	--
TX-03A	09/06/18	<b>0.263</b>	0.00308	0.0252	0.00115 J	<b>1.31</b>	--	--	--
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	<b>0.102 J</b>	< 0.000170 J	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	<b>0.121</b>	0.00255	0.0120	0.00163 J	0.998	--	--	--
TX-03A	06/28/22	<b>0.114</b>	0.00632	0.0132	0.00356	<b>1.39</b>	--	--	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-04	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	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.110	<0.351	--
TX-04	12/15/21	<0.000400	<0.00100	<0.00100	<0.00300	<0.150	<0.247	<0.411	--
TX-06A	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	5.8	< 1	--
TX-06A	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3.4	< 0.75	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-06A	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	< 0.00020	< 0.0002	< 0.00020	< 0.0005	< 0.250	1.32	0.589	--
TX-06A	12/15/21	< 0.000400	< 0.00100	< 0.00100	< 0.00300	< 0.150	0.589	0.146 J	--
MW-01	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--

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

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

**Note:**

= Indicates data collected during this progress report period

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

<sup>1</sup> = 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 regulatory Method Detection Limits (MDLs).

mg/L = milligrams per liter

NA = not analyzed

NE = not established

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

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

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

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

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

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

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	12/09/15	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948
MW-213	05/03/16	< 0.00000920	< 0.0000101	< 0.0000101	< 0.0000138	< 0.00000644	< 0.0000120	< 0.0000202
MW-213	12/13/16	0.0000122	< 0.0000887	< 0.0000108	< 0.0000148	< 0.00000690	< 0.0000128	< 0.0000217
MW-213	06/14/17	< 0.0000888	< 0.0000109	< 0.0000109	< 0.0000148	< 0.00000691	< 0.0000128	< 0.0000217
MW-213	12/07/17	< 0.00000965	< 0.0000106	< 0.0000106	< 0.0000145	< 0.00000676	< 0.0000125	< 0.0000212
MW-213	06/12/18	< 0.0000103	< 0.0000113	< 0.0000113	< 0.0000154	< 0.00000720	< 0.0000134	< 0.0000226
MW-213	12/19/18	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000893	< 0.0000129	< 0.0000218
MW-213	05/16/19	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000893	< 0.0000129	< 0.0000218
MW-213	12/11/19	< 0.0000119	< 0.0000896	< 0.0000109	< 0.0000149	< 0.00000995	< 0.0000129	< 0.0000219
MW-213	06/29/20	<0.0000124	<0.0000124	<0.0000113	<0.0000154	<0.0000103	<0.0000134	<0.0000226
MW-213	12/16/20	<0.0000503	<0.000101	<0.0000503	<0.0000503	<0.000101	<0.000101	<0.0000503
MW-213	06/14/21	<0.0000506	<0.000101	<0.0000506	<0.0000506	<0.000101	<0.000101	<0.0000506
MW-213	12/16/21	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895	<0.0000895
MW-213	06/29/22	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905
MW-214	01/30/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/17/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/17/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/16/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/14/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/20/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/28/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/19/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/25/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/19/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

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

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	07/12/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/20/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/26/06	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099
MW-214	10/30/07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	05/05/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	11/19/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	04/07/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	11/18/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/26/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/28/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	05/24/11	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029
MW-214	10/25/11	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
MW-214	06/12/12	< 0.000051	< 0.000040	< 0.000034	< 0.000038	< 0.000044	< 0.000034	< 0.000034
MW-214	11/29/12	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	05/15/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	11/05/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	04/23/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033
MW-214	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	05/19/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-214	12/09/15	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908
MW-214	05/04/16	< 0.00000926	< 0.0000102	< 0.0000102	< 0.0000139	< 0.00000648	< 0.0000120	< 0.0000204
MW-214	12/14/16	0.00000994	< 0.0000883	< 0.0000108	< 0.0000147	< 0.00000687	< 0.0000128	< 0.0000216
MW-214	06/14/17	< 0.0000850	< 0.0000104	< 0.0000104	< 0.0000142	< 0.00000661	< 0.0000123	< 0.0000208
MW-214	12/07/17	< 0.0000102	< 0.0000112	< 0.0000112	< 0.0000153	< 0.00000713	< 0.0000132	< 0.0000224
MW-214	06/12/18	< 0.00000976	< 0.0000107	< 0.0000107	< 0.0000146	< 0.00000683	< 0.0000127	< 0.0000215

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

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	12/19/18	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000894	< 0.0000129	< 0.0000219
MW-214	05/16/19	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000894	< 0.0000129	< 0.0000219
MW-214	12/11/19	0.0000141 J	< 0.0000921	< 0.0000113	< 0.0000154	< 0.0000102	< 0.0000133	< 0.0000225
MW-214	06/29/20	<0.0000117	<0.0000117	<0.0000108	<0.0000147	<0.00000977	<0.0000127	<0.0000215
MW-214	12/16/20	<0.0000517	<0.000103	<0.0000517	<0.0000517	<0.00103	<0.000103	<0.0000517
MW-214	06/14/21	<0.0000499	<0.0000999	<0.0000499	<0.0000499	<0.0000999	<0.0000999	<0.0000499
MW-214	12/16/21	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905	<0.0000905
MW-214	06/29/22	<0.0000910	0.0000123 J	<0.0000910	<0.0000910	0.0000148 J	<0.0000910	<0.0000910
MW-301	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-301	05/21/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013
MW-302	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-302	05/21/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-303	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033
MW-303	05/20/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013
MW-304	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-304	05/20/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-309	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-309	05/20/15	< 0.0014	< 0.0011	< 0.0013	< 0.0014	< 0.0016	< 0.0012	< 0.0013
MW-310	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033

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

		PAHs						
Sample ID	Sample Date	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-310	05/21/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-311	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-312	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
TX-03A	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
TX-03A	05/21/15	< 0.0014	< 0.0010	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013

**Note:**

= Indicates data collected during this progress report period

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

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

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

ID = identification

mg/L = milligrams per liter

PAHs = polycyclic aromatic hydrocarbons

# **Attachment A**

## **Laboratory Reports**



Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 590-17328-1

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:  
4/29/2022 5:44:00 PM

Roxanne Cisneros, Senior Project Manager  
(615)301-5761  
[roxanne.cisneros@et.eurofinsus.com](mailto:roxanne.cisneros@et.eurofinsus.com)

### LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# Case Narrative

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

Job ID: 590-17328-1

## Job ID: 590-17328-1

### Laboratory: Eurofins Spokane

#### Narrative

#### Job Narrative 590-17328-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/19/2022 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavy gas/light diesel range components. MW-112A (590-17328-3), SH-04 (590-17328-4) and MW-104 (590-17328-5)

Method NWTPH-Dx: The method blank for preparation batch 590-35943 and analytical batch 590-35940 contained targets above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### 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: 590-17328-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-17328-1	MW-05	Water	04/18/22 09:42	04/19/22 11:30
590-17328-2	MW-111	Water	04/18/22 10:45	04/19/22 11:30
590-17328-3	MW-112A	Water	04/18/22 11:50	04/19/22 11:30
590-17328-4	SH-04	Water	04/18/22 11:21	04/19/22 11:30
590-17328-5	MW-104	Water	04/18/22 10:11	04/19/22 11:30
590-17328-6	TB-1	Water	04/18/22 08:00	04/19/22 11:30

# Definitions/Glossary

Client: GHD Services Inc.

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

Job ID: 590-17328-1

## 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 Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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: 590-17328-1

**Client Sample ID: MW-05**

Date Collected: 04/18/22 09:42

Date Received: 04/19/22 11:30

**Lab Sample ID: 590-17328-1**

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			04/20/22 13:38	1
Ethylbenzene	ND		1.00	0.198	ug/L			04/20/22 13:38	1
Toluene	ND		1.00	0.312	ug/L			04/20/22 13:38	1
Xylenes, Total	ND		3.00	0.442	ug/L			04/20/22 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		04/20/22 13:38	1
Dibromofluoromethane (Surr)	106		80 - 120		04/20/22 13:38	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		04/20/22 13:38	1
Toluene-d8 (Surr)	99		80 - 120		04/20/22 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	30.5	ug/L			04/20/22 13:38	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	95		68.7 - 141		04/20/22 13:38	1			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		235	108	ug/L		04/29/22 08:21	04/29/22 10:43	1
RRO (C25-C36)	ND		392	118	ug/L		04/29/22 08:21	04/29/22 10:43	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	84		50 - 150		04/29/22 08:21	04/29/22 10:43	1		
<i>n</i> -Triaccontane-d62	88		50 - 150		04/29/22 08:21	04/29/22 10:43	1		

# Client Sample Results

Client: GHD Services Inc.

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

Job ID: 590-17328-1

**Client Sample ID: MW-111**

Date Collected: 04/18/22 10:45

Date Received: 04/19/22 11:30

**Lab Sample ID: 590-17328-2**

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			04/20/22 14:21	1
Ethylbenzene	ND		1.00	0.198	ug/L			04/20/22 14:21	1
Toluene	ND		1.00	0.312	ug/L			04/20/22 14:21	1
Xylenes, Total	ND		3.00	0.442	ug/L			04/20/22 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		04/20/22 14:21	1
Dibromofluoromethane (Surr)	107		80 - 120		04/20/22 14:21	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		04/20/22 14:21	1
Toluene-d8 (Surr)	102		80 - 120		04/20/22 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	30.5	ug/L			04/20/22 14:21	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	94		68.7 - 141		04/20/22 14:21	1			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	125	J B	229	105	ug/L		04/29/22 08:21	04/29/22 11:04	1
RRO (C25-C36)	141	J B	381	114	ug/L		04/29/22 08:21	04/29/22 11:04	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	82		50 - 150		04/29/22 08:21	04/29/22 11:04	1		
<i>n</i> -Triaccontane-d62	84		50 - 150		04/29/22 08:21	04/29/22 11:04	1		

Eurofins Spokane

# Client Sample Results

Client: GHD Services Inc.

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

Job ID: 590-17328-1

**Client Sample ID: MW-112A**

Date Collected: 04/18/22 11:50

Date Received: 04/19/22 11:30

**Lab Sample ID: 590-17328-3**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.02		0.400	0.0930	ug/L			04/20/22 15:27	1
Ethylbenzene	27.9		1.00	0.198	ug/L			04/20/22 15:27	1
Toluene	0.759 J		1.00	0.312	ug/L			04/20/22 15:27	1
Xylenes, Total	2.69 J		3.00	0.442	ug/L			04/20/22 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		04/20/22 15:27	1
Dibromofluoromethane (Surr)	99		80 - 120		04/20/22 15:27	1
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		04/20/22 15:27	1
Toluene-d8 (Surr)	99		80 - 120		04/20/22 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1870		150	30.5	ug/L			04/20/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		68.7 - 141					04/20/22 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	1390	B	234	107	ug/L		04/29/22 08:21	04/29/22 11:24	1
RRO (C25-C36)	211	J B	389	117	ug/L		04/29/22 08:21	04/29/22 11:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150				04/29/22 08:21	04/29/22 11:24	1
n-Triacontane-d62	86		50 - 150				04/29/22 08:21	04/29/22 11:24	1

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# Client Sample Results

Client: GHD Services Inc.

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

Job ID: 590-17328-1

**Client Sample ID: SH-04**

Date Collected: 04/18/22 11:21

Date Received: 04/19/22 11:30

**Lab Sample ID: 590-17328-4**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.26		0.400	0.0930	ug/L			04/20/22 16:10	1
Ethylbenzene	3.84		1.00	0.198	ug/L			04/20/22 16:10	1
Toluene	1.05		1.00	0.312	ug/L			04/20/22 16:10	1
Xylenes, Total	4.57		3.00	0.442	ug/L			04/20/22 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		04/20/22 16:10	1
Dibromofluoromethane (Surr)	92		80 - 120		04/20/22 16:10	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		04/20/22 16:10	1
Toluene-d8 (Surr)	101		80 - 120		04/20/22 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1170		150	30.5	ug/L			04/20/22 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		68.7 - 141					04/20/22 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	549	B	235	108	ug/L		04/29/22 08:21	04/29/22 11:45	1
RRO (C25-C36)	227	J B	392	117	ug/L		04/29/22 08:21	04/29/22 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150				04/29/22 08:21	04/29/22 11:45	1
n-Triacontane-d62	71		50 - 150				04/29/22 08:21	04/29/22 11:45	1

Eurofins Spokane

# Client Sample Results

Client: GHD Services Inc.

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

Job ID: 590-17328-1

**Client Sample ID: MW-104**

Date Collected: 04/18/22 10:11

Date Received: 04/19/22 11:30

**Lab Sample ID: 590-17328-5**

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	896		150	30.5	ug/L			04/20/22 16:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	103			68.7 - 141				04/20/22 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	503	B	236	108	ug/L		04/29/22 08:21	04/29/22 12:05	1
RRO (C25-C36)	135	J B	393	118	ug/L		04/29/22 08:21	04/29/22 12:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	86		50 - 150				04/29/22 08:21	04/29/22 12:05	1
<i>n-Triacontane-d62</i>	90		50 - 150				04/29/22 08:21	04/29/22 12:05	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		04/20/22 09:26	04/22/22 13:27	1

# Client Sample Results

Client: GHD Services Inc.

Job ID: 590-17328-1

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

**Client Sample ID: TB-1**

**Lab Sample ID: 590-17328-6**

Date Collected: 04/18/22 08:00

Matrix: Water

Date Received: 04/19/22 11:30

## 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			04/20/22 16:53	1
Ethylbenzene	ND		1.00	0.198	ug/L			04/20/22 16:53	1
Toluene	ND		1.00	0.312	ug/L			04/20/22 16:53	1
Xylenes, Total	ND		3.00	0.442	ug/L			04/20/22 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		04/20/22 16:53	1
Dibromofluoromethane (Surr)	102		80 - 120		04/20/22 16:53	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		04/20/22 16:53	1
Toluene-d8 (Surr)	100		80 - 120		04/20/22 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		150	30.5	ug/L			04/20/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	97		68.7 - 141		04/20/22 16:53	1			

# QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17328-1

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

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

**Lab Sample ID: MB 590-35828/6**

**Matrix: Water**

**Analysis Batch: 35828**

**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			04/20/22 11:58	1
Ethylbenzene	ND		1.00	0.198	ug/L			04/20/22 11:58	1
Toluene	ND		1.00	0.312	ug/L			04/20/22 11:58	1
Xylenes, Total	ND		3.00	0.442	ug/L			04/20/22 11:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120					04/20/22 11:58	1
Dibromofluoromethane (Surr)	103		80 - 120					04/20/22 11:58	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120					04/20/22 11:58	1
Toluene-d8 (Surr)	103		80 - 120					04/20/22 11:58	1

**Lab Sample ID: LCS 590-35828/1004**

**Matrix: Water**

**Analysis Batch: 35828**

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

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
Benzene		10.0	10.10		ug/L		101	80 - 126
Ethylbenzene		10.0	10.12		ug/L		101	80 - 128
m-Xylene & p-Xylene		10.0	10.06		ug/L		101	80 - 127
o-Xylene		10.0	9.751		ug/L		98	80 - 126
Toluene		10.0	9.811		ug/L		98	80 - 129
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	92		80 - 120					
Dibromofluoromethane (Surr)	104		80 - 120					
1,2-Dichloroethane-d4 (Surr)	103		80 - 120					
Toluene-d8 (Surr)	100		80 - 120					

**Lab Sample ID: 590-17328-2 MS**

**Matrix: Water**

**Analysis Batch: 35828**

**Client Sample ID: MW-111**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec
Benzene	ND		10.0	10.09		ug/L		101	80 - 126
Ethylbenzene	ND		10.0	9.946		ug/L		99	80 - 128
m-Xylene & p-Xylene	ND		10.0	8.962		ug/L		90	80 - 127
o-Xylene	ND		10.0	8.983		ug/L		90	80 - 126
Toluene	ND		10.0	9.779		ug/L		98	80 - 129
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		80 - 120						
Dibromofluoromethane (Surr)	101		80 - 120						
1,2-Dichloroethane-d4 (Surr)	105		80 - 120						
Toluene-d8 (Surr)	98		80 - 120						

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# QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17328-1

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

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

**Lab Sample ID: 590-17328-2 MSD**

**Matrix: Water**

**Analysis Batch: 35828**

**Client Sample ID: MW-111**

**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	9.948		ug/L		99	80 - 126	1	18
Ethylbenzene	ND		10.0	9.702		ug/L		97	80 - 128	2	18
m-Xylene & p-Xylene	ND		10.0	9.388		ug/L		94	80 - 127	5	18
o-Xylene	ND		10.0	8.911		ug/L		89	80 - 126	1	17
Toluene	ND		10.0	9.806		ug/L		98	80 - 129	0	18
<hr/>											
Surrogate		MSD %Recovery	MSD Qualifier	MSD Limits							
4-Bromofluorobenzene (Surr)	103			80 - 120							
Dibromofluoromethane (Surr)	98			80 - 120							
1,2-Dichloroethane-d4 (Surr)	101			80 - 120							
Toluene-d8 (Surr)	100			80 - 120							

**Lab Sample ID: 590-17328-1 DU**

**Matrix: Water**

**Analysis Batch: 35828**

**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			
<hr/>											
Surrogate		DU %Recovery	DU Qualifier	DU Limits							
4-Bromofluorobenzene (Surr)	98			80 - 120							
Dibromofluoromethane (Surr)	104			80 - 120							
1,2-Dichloroethane-d4 (Surr)	100			80 - 120							
Toluene-d8 (Surr)	101			80 - 120							

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

**Lab Sample ID: MB 590-35829/6**

**Matrix: Water**

**Analysis Batch: 35829**

**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			04/20/22 11:58	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141					04/20/22 11:58	1

**Lab Sample ID: LCS 590-35829/1005**

**Matrix: Water**

**Analysis Batch: 35829**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
TPH as Gasoline	1000	1018		ug/L	101	80 - 120	

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# QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17328-1

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

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

**Lab Sample ID: LCS 590-35829/1005**

**Matrix: Water**

**Analysis Batch: 35829**

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		68.7 - 141

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

**Lab Sample ID: LCSD 590-35829/1047**

**Matrix: Water**

**Analysis Batch: 35829**

Analyte	Spike	LCSD	LCSD	%Rec	RPD			
	Added	Result	Qualifier	Unit	D	%Rec	RPD	Limit
TPH as Gasoline	1000	1052		ug/L	105	80 - 120	3	20
Surrogate	LCS	LCS	Limits	Limits	RPD			
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	102		68.7 - 141	68.7 - 141	9			

**Lab Sample ID: 590-17328-1 DU**

**Matrix: Water**

**Analysis Batch: 35829**

Analyte	Sample	Sample	DU	DU	RPD			
	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
TPH as Gasoline	ND		ND		ug/L		NC	35
Surrogate	DU	DU	Limits	Limits	RPD			
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	98		68.7 - 141	68.7 - 141	9			

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

**Lab Sample ID: MB 590-35943/1-A**

**Matrix: Water**

**Analysis Batch: 35940**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed	
DRO (C10-C25)	131.9	J	240	110	ug/L		04/29/22 08:21	04/29/22 09:01	1
RRO (C25-C36)	151.7	J	400	120	ug/L		04/29/22 08:21	04/29/22 09:01	1
Surrogate	MB	MB	Limits	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier							
<i>o</i> -Terphenyl	72		50 - 150	50 - 150	04/29/22 08:21	04/29/22 09:01	1		
<i>n</i> -Triaccontane-d62	75		50 - 150	50 - 150	04/29/22 08:21	04/29/22 09:01	1		

**Lab Sample ID: LCS 590-35943/2-A**

**Matrix: Water**

**Analysis Batch: 35940**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	Dil Fac
	Added	Result	Qualifier					
DRO (C10-C25)	1600	1323		ug/L		83	50 - 150	
RRO (C25-C36)	1600	1595		ug/L		100	50 - 150	
Surrogate	LCS	LCS	Limits	Limits	Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier						
<i>o</i> -Terphenyl	86		50 - 150	50 - 150	04/29/22 08:21	04/29/22 09:01	1	
<i>n</i> -Triaccontane-d62	88		50 - 150	50 - 150	04/29/22 08:21	04/29/22 09:01	1	

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 35943**

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# QC Sample Results

Client: GHD Services Inc.

Job ID: 590-17328-1

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

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

**Lab Sample ID: LCSD 590-35943/3-A**

**Matrix: Water**

**Analysis Batch: 35940**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 35943**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C25)	1600	1361		ug/L		85	50 - 150	3	25
RRO (C25-C36)	1600	1619		ug/L		101	50 - 150	2	25
<b>Surrogate</b>									
<i>o-Terphenyl</i> %Recovery Qualifier Limits									
89 50 - 150									
<i>n-Triacotane-d62</i> %Recovery Qualifier Limits									
93 50 - 150									

## Method: 6010D - Metals (ICP)

**Lab Sample ID: MB 590-35813/2-A**

**Matrix: Water**

**Analysis Batch: 35869**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 35813**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		60.0	5.10	ug/L		04/20/22 09:26	04/22/22 13:10	1

**Lab Sample ID: LCS 590-35813/1-A**

**Matrix: Water**

**Analysis Batch: 35869**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 35813**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	1000	1080		ug/L		108	80 - 120

**Lab Sample ID: 590-17344-A-1-C MS**

**Matrix: Water**

**Analysis Batch: 35869**

**Client Sample ID: Matrix Spike**

**Prep Type: Total Recoverable**

**Prep Batch: 35813**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		1000	1060		ug/L		106	75 - 125

**Lab Sample ID: 590-17344-A-1-D MSD**

**Matrix: Water**

**Analysis Batch: 35869**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total Recoverable**

**Prep Batch: 35813**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD
Lead	ND		1000	1049		ug/L		105	75 - 125

**Lab Sample ID: 590-17344-A-1-B DU**

**Matrix: Water**

**Analysis Batch: 35869**

**Client Sample ID: Duplicate**

**Prep Type: Total Recoverable**

**Prep Batch: 35813**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		ug/L		NC	20

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# Lab Chronicle

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

Job ID: 590-17328-1

## **Client Sample ID: MW-05**

Date Collected: 04/18/22 09:42

Date Received: 04/19/22 11:30

## **Lab Sample ID: 590-17328-1**

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	35828	04/20/22 13:38	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	35829	04/20/22 13:38	JSP	TAL SPK
Total/NA	Prep	3510C			255.3 mL	2 mL	35943	04/29/22 08:21	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			35940	04/29/22 10:43	NMI	TAL SPK

## **Client Sample ID: MW-111**

Date Collected: 04/18/22 10:45

Date Received: 04/19/22 11:30

## **Lab Sample ID: 590-17328-2**

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	35828	04/20/22 14:21	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	35829	04/20/22 14:21	JSP	TAL SPK
Total/NA	Prep	3510C			262.3 mL	2 mL	35943	04/29/22 08:21	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			35940	04/29/22 11:04	NMI	TAL SPK

## **Client Sample ID: MW-112A**

Date Collected: 04/18/22 11:50

Date Received: 04/19/22 11:30

## **Lab Sample ID: 590-17328-3**

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	35828	04/20/22 15:27	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	35829	04/20/22 15:27	JSP	TAL SPK
Total/NA	Prep	3510C			256.9 mL	2 mL	35943	04/29/22 08:21	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			35940	04/29/22 11:24	NMI	TAL SPK

## **Client Sample ID: SH-04**

Date Collected: 04/18/22 11:21

Date Received: 04/19/22 11:30

## **Lab Sample ID: 590-17328-4**

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	35828	04/20/22 16:10	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	35829	04/20/22 16:10	JSP	TAL SPK
Total/NA	Prep	3510C			255.4 mL	2 mL	35943	04/29/22 08:21	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			35940	04/29/22 11:45	NMI	TAL SPK

## **Client Sample ID: MW-104**

Date Collected: 04/18/22 10:11

Date Received: 04/19/22 11:30

## **Lab Sample ID: 590-17328-5**

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	NWTPH-Gx		1	43 mL	43 mL	35829	04/20/22 16:32	JSP	TAL SPK
Total/NA	Prep	3510C			254.7 mL	2 mL	35943	04/29/22 08:21	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			35940	04/29/22 12:05	NMI	TAL SPK
Total Recoverable	Prep	3005A			50 mL	50 mL	35813	04/20/22 09:26	AMB	TAL SPK
Total Recoverable	Analysis	6010D		1			35869	04/22/22 13:27	AMB	TAL SPK

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# Lab Chronicle

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

Job ID: 590-17328-1

**Client Sample ID: TB-1**

**Lab Sample ID: 590-17328-6**

**Date Collected: 04/18/22 08:00**

**Matrix: Water**

**Date Received: 04/19/22 11:30**

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	35828	04/20/22 16:53	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	35829	04/20/22 16:53	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: 590-17328-1

### 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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Eurofins Spokane

## Method Summary

Client: GHD Services Inc.

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

Job ID: 590-17328-1

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
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

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## LAB (LOCATION)

<input type="checkbox"/> ACCUTEST	( <input type="text"/>
<input type="checkbox"/> CALSCIENCE	( <input type="text"/>
<input checked="" type="checkbox"/> TESTAMERICA	( <input type="text"/>
<input type="checkbox"/> Other	( <input type="text"/>

Lab Vendor #  Dropdown



## Shell Oil Products US Chain Of Custody Record

## Please Check Appropriate Box:

<input type="checkbox"/> SGW FDG	<input type="checkbox"/> PIPELINE	<input type="checkbox"/> RETAIL
<input type="checkbox"/> CHEMICALS	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> TRANSPORTATION	<input type="checkbox"/> OTHER	

## Print Bill To Contact Name

## Plant Site or Project ID

 CHECK IF NO INCIDENT # APPLIES

DATE: 4/18/22

PAGE 1 of 1

PO #

GSAP Project ID

SAMPLING COMPANY:  
Blaine Tech Services IncLOG CODE:  
BTSSSITE ADDRESS: Street and City  
2555 13th AvenueState  
WAGHD Project / Task Number:  
11218519ADDRESS:  
1680 Rogers Ave, San Jose, CA, 95112EOF DELIVERABLE TO (Name, Company, Office Location):  
Jacquelyn England, GHD, Santa RosaPHONE NO:  
(707)523-1010E-MAIL:  
jacquelyn.england@ghd.com

PROJECT CONTACT (Hardcopy or PDF Report to):

Jacquelyn England

TELEPHONE:  (707)523-1010 FAX:  Bill To Contact E-MAIL:  jacquelyn.england@ghd.comTURNAROUND 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
- EDO NOT NEEDED
- RECEIPT VERIFICATION REQUESTED
- PROVIDE LEDD DISK

Christina Mroz

## REQUESTED ANALYSIS

## UNIT COST

## NON-UNIT COST

## FIELD NOTES.

TEMPERATURE ON RECEIPT C°

26°C  
Corro 1400Container PID Readings  
or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	8280C-BTEX	NWTPH-Dx	8270D-SIM PAHs	300.0 Sulphite	NWTPH-Gx	6020A Total Lead	553.2 Nitrate & Nitrite	6020A Diss. Iron & Manganese (as filter)	300.0 Chloride	2220B Alkalinity			
		DATE	TIME		HCl	HNO3	H2SO4	NONE	OTHER														
	MW-05	4/18/22	0942	WT	X					6	X	X						X					
	MW-111	4/18/22	1045	WT	X					6	X	X						X					
	MW-112A	4/18/22	1150	WT	X					6	X	X						X					
	SH-04	4/18/22	1121	WT	X					6	X	X						X					
	MW-104	4/18/22	1011	WT	X	X				7	X						X	X					
	TB-1	4/18/22	0800	WT	X					2	X						X						

590-17328 Chain of Custody

Relinquished by: (Signature)  

Received by: (Signature)

Shipped via UPS

Date: 4/18/22

Time: 1330

Relinquished by: (Signature)

Received by: (Signature)

Date: 4/19/22

Time: 1130

Relinquished by: (Signature)

Received by: (Signature)

Date:

Time:

Version: 14Dec15

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-17328-1

**Login Number:** 17328

**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.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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](mailto:roxanne.cisneros@et.eurofinsus.com)

Designee for

Tracy Dutton, Client Relations Manager

(253)248-4970

[Tracy.Dutton@et.eurofinsus.com](mailto:Tracy.Dutton@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# Case Narrative

Client: GHD Services Inc.  
Project/Site: 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		

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-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
<b>Ethylbenzene</b>	<b>1.06</b>		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
<b>TPH as Gasoline</b>	<b>648</b>		150	30.5	ug/L			07/07/22 16:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>DRO (C10-C25)</b>	<b>381</b>		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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<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

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-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

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-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

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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-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			

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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-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

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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-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

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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-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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<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
<b>Surrogate</b>									
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
<b>Surrogate</b>							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
<b>1-Methylnaphthalene</b>	<b>0.0494 J</b>		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
<b>DRO (C10-C25)</b>	<b>163 J</b>		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	1
n-Triacontane-d62	98		50 - 150	07/08/22 11:15	07/08/22 18:07	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-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
<b>Benzo[a]pyrene</b>	<b>0.0123 J</b>		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
<b>Chrysene</b>	<b>0.0148 J</b>		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
<b>1-Methylnaphthalene</b>	<b>0.0272 J</b>		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
<b>DRO (C10-C25)</b>	<b>181 J</b>		244	112	ug/L			07/08/22 11:15	07/08/22 18:27
<b>RRO (C25-C36)</b>	<b>135 J</b>		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

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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-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			

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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-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
<b>Ethylbenzene</b>	<b>0.281</b>	<b>J</b>	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
<b>Xylenes, Total</b>	<b>0.485</b>	<b>J</b>	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
<b>TPH as Gasoline</b>	<b>54.5</b>	<b>J</b>	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
<b>Toluene</b>	<b>0.346</b>	<b>J</b>	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
<b>TPH as Gasoline</b>	<b>253</b>		150	30.5	ug/L			07/08/22 20:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>DRO (C10-C25)</b>	<b>936</b>		242	111	ug/L		07/08/22 11:15	07/08/22 19:28	1
<b>RRO (C25-C36)</b>	<b>166</b>	<b>J</b>	404	121	ug/L		07/08/22 11:15	07/08/22 19:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<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
o-Terphenyl	82		50 - 150				07/08/22 11:15	07/08/22 19:49	1
n-Triacontane-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.

Job ID: 590-17941-1

Project/Site: 2555 13th Avenue, Seattle WA

**Client Sample ID: TB-1**

**Lab Sample ID: 590-17941-27**

Date Collected: 06/27/22 08:00

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	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
<b>Surrogate</b>		<b>%Recovery</b>	<b>DU Qualifier</b>	<b>Limits</b>				
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
<b>Surrogate</b>		<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Surrogate</b>		<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>			
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			

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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: 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

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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: 590-17941-16 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

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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: 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
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	95		68.7 - 141				

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# 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/>									
<b>Surrogate</b>									
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/>									
<b>Surrogate</b>									
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/>							
<b>Surrogate</b>							
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/>									
<b>Surrogate</b>									
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/>								
<b>Surrogate</b>								
4-Bromofluorobenzene (Surr)	98		68.7 - 141					

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# 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/>									
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)									

**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/>								
<b>Surrogate</b>								
4-Bromofluorobenzene (Surr)								

**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/>										
<b>Surrogate</b>										
4-Bromofluorobenzene (Surr)										

## 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	1
Benzo[a]pyrene	ND		0.0900	0.0120	ug/L		07/06/22 11:22	07/06/22 12:25	1
Benzo[b]fluoranthene	ND		0.0900	0.0250	ug/L		07/06/22 11:22	07/06/22 12:25	1
Benzo[k]fluoranthene	ND		0.0900	0.0150	ug/L		07/06/22 11:22	07/06/22 12:25	1
Chrysene	ND		0.0900	0.0100	ug/L		07/06/22 11:22	07/06/22 12:25	1
Dibenz(a,h)anthracene	ND		0.0900	0.0130	ug/L		07/06/22 11:22	07/06/22 12:25	1
Indeno[1,2,3-cd]pyrene	ND		0.0900	0.0220	ug/L		07/06/22 11:22	07/06/22 12:25	1
1-Methylnaphthalene	ND		0.0900	0.0230	ug/L		07/06/22 11:22	07/06/22 12:25	1
2-Methylnaphthalene	ND		0.0900	0.0440	ug/L		07/06/22 11:22	07/06/22 12:25	1
Naphthalene	ND		0.0900	0.0530	ug/L		07/06/22 11:22	07/06/22 12:25	1
<hr/>									
<b>Surrogate</b>									
2-Fluorobiphenyl (Surr)									
p-Terphenyl-d14									

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 36918**

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# 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	
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
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
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>					
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
<b>Surrogate</b>									
<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

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# 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
<i>Surrogate</i>		<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>			
<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
<i>Surrogate</i>		<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>			
<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

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# 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

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# Lab Chronicle

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**

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**  
**Date Collected: 06/27/22 12:00**  
**Date Received: 07/05/22 14:53**

**Lab Sample ID: 590-17941-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	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**  
**Date Collected: 06/27/22 11:24**  
**Date Received: 07/05/22 14:53**

**Lab Sample ID: 590-17941-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	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**  
**Date Collected: 06/29/22 10:38**  
**Date Received: 07/05/22 14:53**

**Lab Sample ID: 590-17941-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	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**  
**Date Collected: 06/28/22 11:31**  
**Date Received: 07/05/22 14:53**

**Lab Sample ID: 590-17941-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	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

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# 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

1

2

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Eurofins Spokane

## 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

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

ACOM 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

	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	

## FIELD NOTES.

TEMPERATURE ON RECEIPT C°

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

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

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: 7/5/22	Time: 14:53

Version: 14Dec15

1  
2  
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6  
7  
8  
9  
10  
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

LOG CODE: BTSS

ADDRESS: 1680 Rogers Ave, San Jose, CA, 95112

PROJECT CONTACT (Hardcopy or PDF Report to)

Jacquelyn England

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

 TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

 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	NWTPH-DX	8270D-SIM PAHs	300.0 Sulphite	NWTPH-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										
	MW 301	6/28/22	1027	WG	4					4	X												
	MW 302	6/28/22	0914	WG	4					4	X												
	MW 303	6/28/22	0811	WG	4					4	X												
	MW -304	6/28/22	0845	WG	4					4	X												
	MW 307	6/28/22	1148	WG	6					6	X	X											
	MW 308	6/28/22	1221	WG	4					4	X												
	MW 309	6/28/22	1056	WG	4					4	X												
	MW 310	6/28/22	0945	WG	4					4	X												
	MW 311	6/28/22	1502	WG	4					4	X												
Relinquished by: (Signature)					Received by: (Signature)																		Date: 7/15/22
Relinquished by: (Signature)					Received by: (Signature)																		Time: 1450
Relinquished by: (Signature)					Received by: (Signature)																		Date:
Relinquished by: (Signature)					Received by: (Signature)																		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	8280C BTEX	NWTPH-Dx	8270D SiM PAHs	3200 Sulfate	NWTPH-Gx	8020A Total Lead	3532 Nitrate & Nitrite	6020A Diss. Iron & Manganese (lab filter)	300.0 Chloride	2320B Alkalinity	FIELD NOTES	
			DATE	TIME		HCl	HN03	H2SO4												NONE	OTHER
MW 312	6/29/22	1115	WG	4				4	X												
MW 313	6/29/22	1235	WG	6				6	X X												
MW 314	6/29/22	1520	WG	6				6	X X												
MW 315	6/29/22	1203	WG	6				6	X X												
SH 04	6/29/22	1305	WG	6				6	X X												
TX 03A	6/29/22	1531	WG	4				4	X												
TB-1	6/29/22	0800	WG	2				2	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	

# **Attachment B**

## **Data Quality Review Reports**

# Technical Memorandum

**May 23, 2022**

<b>To</b>	Amy Monier	<b>Tel</b>	1 206 914 3141
<b>Copy to</b>	Heather Gadwa	<b>Email</b>	Jeffrey.Cloud@ghd.com
<b>From</b>	Jeffrey Cloud/eew/8-NF	<b>Ref. No.</b>	11218519
<b>Subject</b>	<b>Analytical Results and Reduced Validation of Report J17328</b> <b>Quarterly Groundwater Sampling</b> <b>Shell International Petroleum - Triton West Consent Decree</b> <b>Seattle, Washington</b> <b>April 2022</b>		

## 1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during April 2022. Samples were submitted to Eurofins Environment Testing America, located in Spokane, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report forms, method blank data, laboratory duplicate data, recovery data from surrogate spikes, laboratory control samples, matrix spikes and a field QC sample.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the documents entitled:

1. "National Functional Guidelines for Organic Superfund Methods Data Review", USEPA 540-R-20-005, November 2020
2. "National Functional Guidelines for Inorganic Superfund Methods Data Review", USEPA 542-R-20-006, November 2020

These items will subsequently be referred to as the "Guidelines" in this Memorandum.

## 2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody document and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

### **3. Laboratory Blank Analyses**

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of two analytes present at low concentrations. The associated sample results with concentrations similar to the blank were qualified as non-detect due to contamination as evidenced by the blank (see Table 4).

### **4. Surrogate Spike Recoveries**

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

### **5. Laboratory Control Sample Analyses**

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

#### **5.1 Organic Analyses**

The LCS and LCS/LCSD contained all analytes of interest. All LCS and LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision (where applicable).

#### **5.2 Inorganic Analyses**

The LCS contained the analyte of interest. The LCS recovery was assessed per the "Guidelines". The LCS recovery was within the control limits, demonstrating acceptable analytical accuracy.

### **6. Matrix Spike Analyses**

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and

analyzed as matrix spike (MS)/matrix spike duplicate (MSD) samples. The RPD between the MS and MSD is used to assess analytical precision. MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the associated control limits, demonstrating acceptable analytical accuracy and precision.

## 7. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

## 8. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

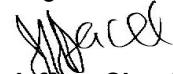
## 9. Analyte Reporting

Data were reported down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the reporting limit (RL) but greater than the MDL were reported as estimated (J) in Table 3 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 3.

## 10. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.

Regards



**Jeffrey Cloud**

Data Management Team – Data Validator

**Table 1**

**Sample Collection and Analysis Summary**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Triton West Consent Decree**  
**Seattle, Washington**  
**April 2022**

<b>Sample Identification</b>	<b>Location</b>	<b>Matrix</b>	<b>Collection Date</b>	<b>Collection Time</b>	<b><u>Analysis/Parameters</u></b>				<b>Comments</b>
			(mm/dd/yyyy)	(hr:min)	DRO/ORO	GRO	Lead	VOCs	
MW-05	MW-05	Water	04/18/2022	09:42	X	X		X	DUP
MW-104	MW-104	Water	04/18/2022	10:11	X	X	X		
MW-111	MW-111	Water	04/18/2022	10:45	X	X		X	MS/MSD
MW-112A	MW-112A	Water	04/18/2022	11:50	X	X		X	
SH-04	SH-04	Water	04/18/2022	11:21	X	X		X	
TB-1	--	Water	04/18/2022	--		X		X	Trip Blank

Notes:

- DUP - Laboratory Duplicate
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- VOCs - Volatile Organic Compounds
- GRO - Gasoline Range Organics
- DRO/ORO - Diesel Range Organics/Motor Oil Range Organics
- Not Applicable

**Table 2**

**Analytical Methods**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Triton West Consent Decree**  
**Seattle, Washington**  
**April 2022**

<b>Parameter</b>	<b>Method</b>	<b>Matrix</b>
Volatile Organic Compounds (VOCs)	SW-846 8260D <sup>(1)</sup>	Water
Gasoline Range Organics (GRO)	NWTPH-Gx <sup>(2)</sup>	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx <sup>(2)</sup>	Water
Lead	SW-846 6010D <sup>(1)</sup>	Water

**Notes:**

- (1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- (2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY-602, June 1997

**Table 3**

**Analytical Results Summary  
Quarterly Groundwater Sampling  
Shell International Petroleum - Triton West Consent Decree  
Seattle, Washington  
April 2022**

<b>Location ID:</b>	<b>MW-05</b>	<b>MW-104</b>	<b>MW-111</b>	<b>MW-112A</b>	<b>SH-04</b>
<b>Sample Name:</b>	<b>MW-05</b>	<b>MW-104</b>	<b>MW-111</b>	<b>MW-112A</b>	<b>SH-04</b>
<b>Sample Date:</b>	<b>04/18/2022</b>	<b>04/18/2022</b>	<b>04/18/2022</b>	<b>04/18/2022</b>	<b>04/18/2022</b>

<b>Parameters</b>	<b>Unit</b>					
<b>Volatile Organic Compounds</b>						
Benzene	µg/L	0.400 U	--	0.400 U	1.02	6.26
Ethylbenzene	µg/L	1.00 U	--	1.00 U	27.9	3.84
Toluene	µg/L	1.00 U	--	1.00 U	0.759 J	1.05
Xylenes (total)	µg/L	3.00 U	--	3.00 U	2.69 J	4.57
<b>Metals</b>						
Lead	µg/L	--	60.0 U	--	--	--
<b>Total Petroleum Hydrocarbons</b>						
Gasoline	µg/L	150 U	896	150 U	1870	1170
Motor oil	µg/L	392 U	393 U	381 U	389 U	392 U
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	235 U	503	229 U	1390	549

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

-- - Not analyzed

DRO - Diesel Range Organics

**Table 4**

**Qualified Sample Results Due to Analyte Concentrations in the Method Blanks**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Triton West Consent Decree**  
**Seattle, WA**  
**April 2022**

<b>Parameter</b>	<b>Analyte</b>	<b>Analysis</b>	<b>Blank</b>	<b>Sample ID</b>	<b>Original</b>	<b>Qualified</b>	<b>Units</b>
		<b>Date</b> <b>(mm/dd/yyyy)</b>	<b>Result *</b>		<b>Result</b>	<b>Result</b>	
TPH	Total Petroleum Hydrocarbons - Extractable (DRO)	04/29/2022	131.9 J	MW-111	125 J	229 U	µg/L
	Motor oil	04/29/2022	151.7 J	MW-111	141 J	381 U	µg/L
				MW-112A	211 J	389 U	µg/L
				SH-04	227 J	392 U	µg/L
				MW-104	135 J	393 U	µg/L

Notes:

\* - Blank result adjusted for sample factors where applicable

U - Not detected at the associated reporting limit

J - Estimated concentration

TPH - Total Petroleum Hydrocarbons

# Technical Memorandum

August 05, 2022

<b>To</b>	Amy Monier	<b>Tel</b>	1 206 914 3141
<b>Copy to</b>	Heather Gadwa	<b>Email</b>	Jeffrey.Cloud@ghd.com
<b>From</b>	Jeffrey Cloud/eew/9-NF	<b>Ref. No.</b>	11218519
<b>Subject</b>	<b>Analytical Results and Reduced Validation of Report J17941</b> <b>Quarterly Groundwater Sampling</b> <b>Shell International Petroleum - Triton West Consent Decree</b> <b>Seattle, Washington</b> <b>June 2022</b>		

## 1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during June 2022. Samples were submitted to Eurofins Environment Testing America, located in Spokane, Washington. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, laboratory duplicate data, recovery data from surrogate spikes, laboratory control samples, matrix spikes and a field QC sample.

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The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

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### **3. Laboratory Blank Analyses**

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

### **4. Surrogate Spike Recoveries**

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), semi-volatile organic compound (SVOC), gasoline range organics (GRO) and diesel range organics (DRO)/motor oil range organics (ORO) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria.

### **5. Laboratory Control Sample Analyses**

Laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

#### **5.1 Organic Analyses**

The LCS and LCS/LCSD contained all analytes of interest. All LCS and LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision (where applicable) with the exception of two high RPDs. The associated sample results were non-detect and were not impacted. No qualification of the data was deemed necessary.

#### **5.2 Inorganic Analyses**

The LCS contained the analyte of interest. The LCS recovery was assessed per the "Guidelines". The LCS recovery was within the control limits, demonstrating acceptable analytical accuracy.

## **6. Matrix Spike Analyses**

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as matrix spike (MS)/matrix spike duplicate (MSD) samples. The RPD between the MS and MSD is used to assess analytical precision. MS/MSD analyses were performed as specified in Table 1.

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Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

## **8. Field QA/QC Samples**

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

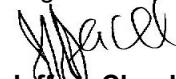
## **9. Analyte Reporting**

Data were reported down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the reporting limit (RL) but greater than the MDL were reported as estimated (J) in Table 3. Non-detect results were presented as non-detect at the RL in Table 3.

## **10. Conclusion**

Based on the assessment detailed in the foregoing, the summarized data are acceptable without qualification.

Regards



Jeffrey Cloud

Data Management Team – Data Validator

**Table 1**

**Sample Collection and Analysis Summary**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Triton West Consent Decree**  
**Seattle, WA**  
**June 2022**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>				Comments
					DRO/ORO	GRO	Lead	VOCs	
MW-05	MW-05	Water	06/29/2022	08:21	X	X		X	DUP
MW-104	MW-104	Water	06/29/2022	07:42	X	X	X	X	
MW-111	MW-111	Water	06/27/2022	13:46	X	X		X	
MW-112A	MW-112A	Water	06/28/2022	14:26	X	X		X	
MW-113	MW-113	Water	06/27/2022	12:37	X	X		X	
MW-114	MW-114	Water	06/27/2022	12:00	X	X		X	
MW-115	MW-115	Water	06/27/2022	11:24	X	X		X	
MW-202	MW-202	Water	06/29/2022	10:38	X	X			
MW-203	MW-203	Water	06/28/2022	11:31	X	X			
MW-213	MW-213	Water	06/29/2022	09:08	X	X		X	X
MW-214	MW-214	Water	06/29/2022	09:45	X	X		X	X
MW-301	MW-301	Water	06/28/2022	10:27	X			X	
MW-302	MW-302	Water	06/28/2022	09:14	X			X	
MW-303	MW-303	Water	06/28/2022	08:11	X			X	
MW-304	MW-304	Water	06/28/2022	08:45	X			X	
MW-307	MW-307	Water	06/29/2022	11:48	X	X		X	DUP
MW-308	MW-308	Water	06/29/2022	12:21	X			X	
MW-309	MW-309	Water	06/28/2022	10:55	X			X	MS/MSD
MW-310	MW-310	Water	06/28/2022	09:45	X			X	
MW-311	MW-311	Water	06/28/2022	15:02	X			X	
MW-312	MW-312	Water	06/29/2022	11:15	X			X	
MW-313	MW-313	Water	06/28/2022	12:35	X	X		X	
MW-314	MW-314	Water	06/28/2022	15:26	X	X		X	
MW-315	MW-315	Water	06/28/2022	12:03	X	X		X	
SH-04	SH-04	Water	06/28/2022	13:55	X	X		X	

**Table 1**

**Sample Collection and Analysis Summary**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Triton West Consent Decree**  
**Seattle, WA**  
**June 2022**

<b>Sample Identification</b>	<b>Location</b>	<b>Matrix</b>	<b>Collection Date</b> (mm/dd/yyyy)	<b>Collection Time</b> (hr:min)	<b><u>Analysis/Parameters</u></b>				<b>Comments</b>	
					<b>DRO/ORO</b>	<b>GRO</b>	<b>Lead</b>	<b>VOCs</b>	<b>SVOCs</b>	
TX-03A	TX-03A	Water	06/28/2022	15:54	X	X				
TB-1	--	Water	06/27/2022	--	X	X				Trip Blank

Notes:

- DUP - Laboratory Duplicate
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- VOCs - Volatile Organic Compounds
- SVOCs - Semivolatile Organic Compound
- GRO - Gasoline Range Organics
- DRO/ORO - Diesel Range Organics/Motor Oil Range Organics
- "--" - Not Applicable

**Table 2**

**Analytical Methods**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Triton West Consent Decree**  
**Seattle, WA**  
**June 2022**

<b>Parameter</b>	<b>Method</b>	<b>Matrix</b>
Volatile Organic Compounds (VOCs)	SW-846 8260D <sup>(1)</sup>	Water
Semivolatile Organic Compounds (SVOCs)	SW-846 8270E SIM <sup>(1)</sup>	Water
Gasoline Range Organics (GRO)	NWTPH-Gx <sup>(2)</sup>	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx <sup>(2)</sup>	Water
Lead	SW-846 6010D <sup>(1)</sup>	Water

## Notes:

- (1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- (2) - NWTPH - Referenced from "Washington State Department of Ecology Analytical Methods for Petroleum Hydrocarbons", Publication No. ECY 97-602, June 1997
- SIM - Selective Ion Monitoring

Table 3

**Analytical Results Summary  
Quarterly Groundwater Sampling  
Shell International Petroleum - Triton West Consent Decree  
Seattle, WA  
June 2022**

Location ID:	MW-05	MW-104	MW-111	MW-112A	MW-113	MW-114	MW-115	MW-202	MW-203
Sample Name:	MW-05	MW-104	MW-111	MW-112A	MW-113	MW-114	MW-115	MW-202	MW-203
Sample Date:	06/29/2022	06/29/2022	06/27/2022	06/28/2022	06/27/2022	06/27/2022	06/27/2022	06/29/2022	06/28/2022

Parameters	Unit	MW-05	MW-104	MW-111	MW-112A	MW-113	MW-114	MW-115	MW-202	MW-203
<b>Volatile Organic Compounds</b>										
Benzene	µg/L	0.400 U	0.400 U	2.74	1.39	156	0.400 U	0.400 U	--	--
Ethylbenzene	µg/L	1.00 U	1.06	1.00 U	10.6	4.05	1.00 U	1.00 U	--	--
Toluene	µg/L	1.00 U	1.00 U	1.00 U	0.935 J	5.22	1.00 U	1.00 U	--	--
Xylenes (total)	µg/L	3.00 U	3.00 U	3.00 U	2.63 J	5.40	3.00 U	3.00 U	--	--
<b>Semi-volatile Organic Compounds, SIM</b>										
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--	--
<b>Metals</b>										
Lead	µg/L	--	60.0 U	--	--	--	--	--	--	--
<b>Total Petroleum Hydrocarbons</b>										
Gasoline	µg/L	150 U	648	110 J	1260	15000 U	150 U	372	3330	34.3 J
Motor oil	µg/L	405 U	413 U	402 U	407 U	156 J	160 J	240 J	1090	1560
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	243 U	381	118 J	675	933	413	4930	2840	645

Table 3

**Analytical Results Summary  
Quarterly Groundwater Sampling  
Shell International Petroleum - Triton West Consent Decree  
Seattle, WA  
June 2022**

	<b>Location ID:</b>	<b>MW-213</b>	<b>MW-214</b>	<b>MW-301</b>	<b>MW-302</b>	<b>MW-303</b>	<b>MW-304</b>	<b>MW-307</b>	<b>MW-308</b>	<b>MW-309</b>
<b>Sample Name:</b>	<b>MW-213</b>	<b>MW-214</b>	<b>MW-301</b>	<b>MW-302</b>	<b>MW-303</b>	<b>MW-304</b>	<b>MW-307</b>	<b>MW-308</b>	<b>MW-309</b>	
<b>Sample Date:</b>	<b>06/29/2022</b>	<b>06/29/2022</b>	<b>06/28/2022</b>	<b>06/28/2022</b>	<b>06/28/2022</b>	<b>06/28/2022</b>	<b>06/29/2022</b>	<b>06/29/2022</b>	<b>06/29/2022</b>	<b>06/28/2022</b>
<b>Parameters</b>										Unit
<b>Volatile Organic Compounds</b>										
Benzene	µg/L	0.400 U	0.400 U	21.5	2.82	107	16.9	149	0.400 U	0.400 U
Ethylbenzene	µg/L	1.00 U	1.00 U	3.16	21.4	27.2	3.18	176	0.281 J	1.00 U
Toluene	µg/L	1.00 U	1.00 U	0.854 J	0.505 J	3.03	0.903 J	31.8	1.00 U	1.00 U
Xylenes (total)	µg/L	3.00 U	3.00 U	0.735 J	4.56	9.22	1.12 J	158 J	0.485 J	3.00 U
<b>Semi-volatile Organic Compounds, SIM</b>										
1-Methylnaphthalene	µg/L	0.0494 J	0.0272 J	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	0.0905 U	0.0910 U	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	0.0905 U	0.0910 U	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	0.0905 U	0.0123 J	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	0.0905 U	0.0910 U	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	0.0905 U	0.0910 U	--	--	--	--	--	--	--
Chrysene	µg/L	0.0905 U	0.0148 J	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	0.0905 U	0.0910 U	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.0905 U	0.0910 U	--	--	--	--	--	--	--
Naphthalene	µg/L	0.0905 U	0.0910 U	--	--	--	--	--	--	--
<b>Metals</b>										
Lead	µg/L	--	--	--	--	--	--	--	--	--
<b>Total Petroleum Hydrocarbons</b>										
Gasoline	µg/L	150 U	150 U	478	414	2250	549	2870	54.5 J	108 J
Motor oil	µg/L	475 U	135 J	--	--	--	--	330 J	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	163 J	181 J	--	--	--	--	4020	--	--

Table 3

**Analytical Results Summary  
Quarterly Groundwater Sampling  
Shell International Petroleum - Triton West Consent Decree  
Seattle, WA  
June 2022**

	<b>Location ID:</b>	<b>MW-310</b>	<b>MW-311</b>	<b>MW-312</b>	<b>MW-313</b>	<b>MW-314</b>	<b>MW-315</b>	<b>SH-04</b>	<b>TX-03A</b>
	<b>Sample Name:</b>	<b>MW-310</b>	<b>MW-311</b>	<b>MW-312</b>	<b>MW-313</b>	<b>MW-314</b>	<b>MW-315</b>	<b>SH-04</b>	<b>TX-03A</b>
	<b>Sample Date:</b>	<b>06/28/2022</b>	<b>06/28/2022</b>	<b>06/29/2022</b>	<b>06/28/2022</b>	<b>06/28/2022</b>	<b>06/28/2022</b>	<b>06/28/2022</b>	<b>06/28/2022</b>
<b>Parameters</b>		<b>Unit</b>							
<b>Volatile Organic Compounds</b>									
Benzene	µg/L	39.2	2.53	35.8	0.400 U	0.400 U	17.7	11.7	114
Ethylbenzene	µg/L	17.9	0.596 J	2.30	1.00 U	1.00 U	0.548 J	2.63	13.2
Toluene	µg/L	0.966 J	3.49	2.69	1.00 U	0.346 J	3.82	1.10	6.32
Xylenes (total)	µg/L	5.50	0.644 J	2.05 J	3.00 U	3.00 U	2.84 J	2.26 J	3.56
<b>Semi-volatile Organic Compounds, SIM</b>									
1-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--	--
<b>Metals</b>									
Lead	µg/L	--	--	--	--	--	--	--	--
<b>Total Petroleum Hydrocarbons</b>									
Gasoline	µg/L	924	2050	2280	150 U	253	2370	813	1390
Motor oil	µg/L	--	--	--	140 J	166 J	207 J	140 J	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	177 J	936	2310	380	--

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentrations

"--" - Not analyzed

SIM - Selective Ion Monitoring