



City of Bothell™

October 1, 2020

Jerome Cruz, Ecology Site Manager
Department of Ecology,
Northwest Regional Office Toxic Cleanup Program
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Re: Quarterly Progress Report

Reporting Period: July – September 2020

Site Names: **BOTHELL LANDING**
BOTHELL PAINT & DECORATING
BOTHELL FORMER HERTZ

Summary:

City of Bothell continues to implement the Cleanup Action Plans for the afore-mentioned sites as part of the Agreed Orders between the City and the Department of Ecology. Per the requirements of Section VII of the Agreed Orders “Work to be Performed”, the attached quarterly progress reports (QPRs) have been prepared for the three-month period preceding this submittal.

Kane Environmental continues to conduct the quarterly groundwater monitoring for all three sites.

Please contact me if you have any questions.

Sincerely,

Nduta Mbutia

Nduta Mbutia

Public Works Department
18415 101st Ave NE
Bothell, WA 98011
425.806.6800
www.bothellwa.gov

Reporting Period: July – September 2020
 Date submitted (electronically): October 1, 2020
 Date mailed (certified w/return receipt): *(deferred due to COVID-19 Stay at Home Order)*
 Prepared by: Nduta Mbuthia, Project Coordinator
 City of Bothell, Public Works Department
 Phone: 425.806.6829
 Email: nduta.mbuthia@bothellwa.gov

CONTENTS

- A. A list of on-site activities that have taken place during the reporting period;
- B. Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests;
- C. Description of all deviations from Schedule (Exhibit D) during the current reporting period
- D. For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule
- E. All raw data (including laboratory analyses) received by PLP during the past reporting period and an identification of the source of the sample; and
- F. A list of deliverables for the upcoming reporting period if different from the schedule.

Site Name: **BOTHELL LANDING**
 Agreed Order No.:15746, Effective date June 11, 2018

- A. **A list of on-site activities that have taken place during this quarter**
 Groundwater compliance monitoring for the summer quarter was performed in July 2020.
- B. **Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests**
 None
- C. **Description of all deviations from the Schedule (Exhibit D) during the current quarter and any planned deviations in the upcoming quarter**
 None.
- D. **For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule**
 None; GW compliance monitoring schedule below received Ecology site manager’s concurrence:-
Q1 – Winter 2019: March 5, 2019 – March 15, 2019
Q2 – Spring 2019: May 20, 2019 – June 3, 2019
Q3 – Summer 2019: July 15, 2019 - August 5, 2019
Q4 – Fall 2019: October 7, 2019 – October 25, 2019
Q5 – Winter 2020: January 6, 2020 – January 20, 2020
Q6 – Spring 2020: Week of April 6, 2020 through week of April 20, 2020
Q7 – Summer 2020: Week of July 6, 2020 through week of July 20, 2020
Q8 – Fall 2020: Week of October 5, 2020 through week of October 19, 2020
- E. **All raw data (including laboratory analyses) received by Defendants during the past quarter and an identification of the source of the sample**
 Groundwater compliance monitoring was conducted per the CMP Table 3-1B (as modified below). Table of the sampling results is attached.

**Table 3-1B
Sampling Approach – Ground Water
SUBSEQUENT ROUNDS**

Sample type	Sampling location	Sampling Frequency / Rationale	Analytes
Arsenic			
Point of compliance	BLMW-11 BLMW-12 MW-1	Quarterly for two years, then modify based on results and consultation with Ecology*	Total Arsenic Dissolved Arsenic Total petroleum hydrocarbons, diesel and oil range TPH-D, TPH-O, Field parameters

* If compliance monitoring from the Site shows that the arsenic remains at elevated concentrations for eight quarters of monitoring, with no other detections of petroleum hydrocarbon contamination, this data can be used to demonstrate that the elevated concentrations represents a locally high natural background for arsenic. Based on this evidence, a request can be made to remove the institutional controls for ground water at the site and discontinue monitoring.

*Naphthalene,
Methylnaphthalene, &
2-Methylnaphthalene*

LANDING – To include in A. *A list of on-site activities that have taken place during this quarter*

During a meeting with Jerome Cruz, Ching Pi and John Kane, Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene will continued to be included in compliance groundwater monitoring for one well, BL-MW-12 only. Concentrations of these chemicals were above their respective MTCA cleanup standard.

- F. A list of deliverables for the upcoming quarter if different from the schedule.
 Same as the schedule

EXHIBIT D

**Bothell Landing Facility
 Schedule of Deliverables**

<u>Deliverables.</u>	<u>Due Date</u>
Draft Institutional Control (IC) Plan; Draft Environmental Covenant(s); and a Title Report	Within 120 days after the effective date of the Agreed Order
Final IC Plan and Final Environmental Covenant(s)	Within 30 days of receipt of Ecology comments on the Draft IC Plan and Draft Environmental Covenant(s).
Record Final Environmental Covenant(s) with King County Auditor	Within 5 days after Ecology's approval of the Final IC Plan or Ecology's signature as grantee of the Final Environmental Covenant(s), whichever occurs last.
Start ground water monitoring	Within 90 days after final CAP is approved
Combined TPH/Arsenic ground water monitoring	Quarterly for two years, then modify based on results and consultation with Ecology
Combined TPH/Arsenic ground water monitoring reports	90 days after 4 th quarter sampling
Progress reports	Every 3 months unless Ecology authorizes less frequent reporting

Site Name: BOTHELL PAINT & DECORATING Agreed Order No.: 15748 (Effective date May 31, 2018)

A. A list of on-site activities that have taken place during this quarter

Groundwater compliance monitoring for the spring quarter was performed in July 2020; sampling results are attached.

B. Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests

None

C. Description of all deviations from the Schedule (Exhibit D) during the current quarter and any planned deviations in the upcoming quarter

None

D. For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule

None; GW compliance monitoring schedule below received Ecology site manager's concurrence:-

Q1 – Winter 2019: March 5, 2019 – March 15, 2019

Q2 – Spring 2019: May 20, 2019 – June 3, 2019

Q3 – Summer 2019: July 15, 2019 - August 5, 2019

Q4 – Fall 2019: October 7, 2019 – October 25, 2019

Q5 – Winter 2020: January 6, 2020 – January 20, 2020

Q6 – Spring 2020: Week of April 6, 2020 through week of April 20, 2020

Q7 – Summer 2020: Week of July 6, 2020 through week of July 20, 2020

Q8 – Fall 2020: Week of October 5, 2020 through week of October 19, 2020

E. All raw data (including laboratory analyses) received by Defendants during the past quarter and an identification of the source of the sample

Groundwater compliance monitoring was conducted per the CMP Table 3-1B below. Table of the sampling results is attached.

**Table 3-1B
Sampling Approach – Ground Water
SUBSEQUENT ROUNDS**

Sample type	Sampling location	Sampling Frequency / Rationale	Analytes
Petroleum hydrocarbons – Ground Water			
Point of Compliance	BPMW-6 BPMW-2R* BC-10	Quarterly for two years, then modify based on results and consultation with Ecology Duration: 5 years BC-10 will be monitored for two quarters to confirm compliance, if results exceed cleanup levels, monitoring will be the same as other wells.	Total petroleum hydrocarbons, diesel and oil range TPH-D, TPH-O, nitrate, manganese (soluble), sulfate, methane, alkalinity. Field parameters: dissolved oxygen, redox potential, pH, conductivity, temperature, ferrous iron
Petroleum hydrocarbons – Storm Water			
1 sample upgradient of Site, 2 samples on Site	See Figure 2	One time event	Total petroleum hydrocarbons, gasoline, diesel and oil range, BTEX TPH-G/BTEX, TPH-D, TPH-O, HVOCs
Arsenic – Ground Water			
Point of compliance	BPMW-1 BPMW-6 BC-10 BC-11	Same as petroleum hydrocarbon, but with additional quarterly monitoring for two years if TPH decreases to be in compliance** BC-10 will be monitored for two quarters to confirm compliance, if results exceed cleanup levels, monitoring will be the same as other wells.	Total Arsenic Dissolved Arsenic Field parameters

* BPMW-2R is a replacement well to be installed 30 to 35 feet northwest of BPMW-2, which was located in the middle of the newly constructed Horse Creek and therefore decommissioned.

- F. A list of deliverables for the upcoming quarter if different from the schedule.
Same as the schedule

EXHIBIT D

Bothell Paint & Decorating Facility Schedule of Deliverables

<u>Deliverables.</u>	<u>Due Date</u>
Draft Institutional Control (IC) Plan; Draft Environmental Covenant(s); and a Title Report	Within 120 days after the effective date of the Agreed Order
Final IC Plan and Final Environmental Covenant(s)	Within 30 days of receipt of Ecology comments on the Draft IC Plan and Draft Environmental Covenant(s).
Record Final Environmental Covenant(s) with King County Auditor	Within 5 days after Ecology's approval of the Final IC Plan or Ecology's signature as grantee of the Final Environmental Covenant(s), whichever occurs last.
Start ground water monitoring	Within 90 days after final CAP is approved
Combined TPH/MNA/Arsenic ground water monitoring	Quarterly for two years, then modify based on results and consultation with Ecology Duration: 5 years unless a different action is triggered by the decision tree shown in table 1 of the dCAP
Combined TPH/MNA/Arsenic ground water monitoring reports	90 days after 4 th quarter sampling Annually for a minimum of 5 years unless a different action is triggered by the decision tree shown in table 1 of the dCAP
Progress reports	Every 3 months unless Ecology authorizes less frequent reporting

Site Name:	BOTHELL HERTZ
Agreed Order No.:	15747 (Effective date May 31, 2018)

A. A list of on-site activities that have taken place during this quarter

Groundwater compliance monitoring for the spring quarter was performed in July 2020; sampling results are attached.

B. Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests

None

C. Description of all deviations from the Schedule (Exhibit D) during the current quarter and any planned deviations in the upcoming quarter

None

G. For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule

None; GW compliance monitoring schedule below received Ecology site manager's concurrence:-

Q1 – Winter 2019: March 5, 2019 – March 15, 2019

Q2 – Spring 2019: May 20, 2019 – June 3, 2019

Q3 – Summer 2019: July 15, 2019 - August 5, 2019

Q4 – Fall 2019: October 7, 2019 – October 25, 2019

Q5 – Winter 2020: January 6, 2020 – January 20, 2020

Q6 – Spring 2020: Week of April 6, 2020 through week of April 20, 2020

Q7 – Summer 2020: Week of July 6, 2020 through week of July 20, 2020

Q8 – Fall 2020: Week of October 5, 2020 through week of October 19, 2020

D. All raw data (including laboratory analyses) received by Defendants during the past quarter and an identification of the source of the sample

Groundwater compliance monitoring was conducted per the CMP Table 3-1B below. Table of the sampling results is attached.

E. A list of deliverables for the upcoming quarter if different from the schedule.

Same as the schedule

**Table 3-1B
Sampling Approach – Ground Water
SUBSEQUENT ROUNDS**

Sample type	Sampling location	Sampling Frequency / Rationale	Analytes
Petroleum hydrocarbons – Ground Water			
Point of Compliance	HZMW-19 BLMW-8 BC-16	Quarterly for two years, then modify based on results and consultation with Ecology Duration: 5 years	Total petroleum hydrocarbons, diesel and oil range TPH-D, TPH-O, nitrate, manganese (soluble), sulfate, methane, alkalinity. Field parameters: dissolved oxygen, redox potential, pH, conductivity, temperature, ferrous iron
Arsenic – Ground Water			
Point of compliance	HZMW-1 HZMW-4 HZMW-12 HZMW-17 BC-16	Same as petroleum hydrocarbon, but with additional quarterly monitoring for two years if TPH decreases to be in compliance** BC-10 will be monitored for two quarters to confirm compliance, if results exceed cleanup levels, monitoring will be the same as other wells.	Total Arsenic Dissolved Arsenic Field parameters

EXHIBIT D

Bothell Former Hertz Facility Schedule of Deliverables

<u>Deliverables.</u>	<u>Due Date</u>
Draft Institutional Control (IC) Plan; Draft Environmental Covenant(s); and a Title Report	Within 120 days after the effective date of the Agreed Order
Final IC Plan and Final Environmental Covenant(s)	Within 30 days of receipt of Ecology comments on the Draft IC Plan and Draft Environmental Covenant(s).
Record Final Environmental Covenant(s) with King County Auditor	Within 5 days after Ecology's approval of the Final IC Plan or Ecology's signature as grantee of the Final Environmental Covenant(s), whichever occurs last.
Start ground water monitoring	Within 90 days after final CAP is approved
Combined TPH/MNA/Arsenic ground water monitoring	Quarterly for two years, then modify based on results and consultation with Ecology Duration: 5 years unless a different action is triggered by the decision tree shown in table 1 of the dCAP
Combined TPH/MNA/Arsenic ground water monitoring reports	90 days after 4 th quarter sampling Annually for a minimum of 5 years unless a different action is triggered by the decision tree shown in table 1 of the dCAP
Progress reports	Every 3 months unless Ecology authorizes less frequent reporting

Table 2
Compliance Groundwater Sampling
Bothell Landing Site
Bothell, Washington

Sample ID	Sample Date	Approximate Depth to Groundwater	Diesel Range Organics	Heavy Oil Range Organics	Total		Total		Total		Total		Total		Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Other Semi-Volatile Organic Compounds (SVOCs)	Other Volatile Organic Compounds (VOCs)	Ferrous Iron	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity
					Arsenic	Dissolved	Cadmium	Dissolved	Chromium	Dissolved	Lead	Dissolved	Mercury	Dissolved										
		Feet Below Ground Surface	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L		mg/L	mV	uS/cm
MW-1:W	9/6/2018	6.96	<50.0	101	<1.75	<1.75	<0.200	<0.200	<1.00	3.51	0.911	<0.500	<0.100	<0.100	<1.00	<0.503	<0.503	nd	nd	2.5	6.48	0.26	64.8	570
	3/11/2019	5.85	<52.8	<106	<1.75	<1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	6.37	0.32	33.3	428.1
	5/24/2019	6.38	<260	<420	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	6.05	0.39	-77.3	488.9
	7/17/2019	7.05	<260	470	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	6.26	0.19	5.9	586
	10/8/2019	6.72	<250	<400	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	6.49	0.04	-8.8	512
	1/13/2020	5.41	<250	<400	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	6.58	1.79	59.8	299.4
	4/10/2020	5.76	<250	410	9.6	8.20	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	5.92	0.13	66.3	206
7/16/2020	6.33	<200	270	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	6.02	0.32	41	462	
BL-MW-11:W	9/6/2018	9.84	91.8 b	167	78.5	11.3	<0.200	<0.200	1.61	6.88	0.882	<0.500	<0.100	<0.100	<1.00	<0.501	<0.501	nd	nd	2.0	6.48	0.12	-4.7	920
	3/6/2019	5.02	<50.5	159	6.97	3.58	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	6.56	0.27	-49.1	388.8
	5/22/2019	8.31	<260	510	7.9	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	6.17	0.25	-82.2	404.7
	7/19/2019	9.44	<260	<420	27	21	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	6.33	0.06	-28.9	589.6
	10/9/2019	9.44	<260	450	30	24	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	6.59	0.14	-100.5	601
	1/8/2020	5.97	<260	420	12	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	6.66	0.19	24.5	340.6
	4/10/2020	5.28	<260	270	7.4	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	6.56	4.45	-27.9	367.9
7/16/2020	8.02	<210	520	20	15	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	6.14	0.26	-38	536.9	
BL-MW-12:W	9/6/2018	9.51	362 b	144	87.6	14.4	<0.200	<0.200	3.75	6.92	0.712	<0.500	<0.100	<0.100	370*	13.3	12.3	SR	SR	2.5	6.62	0.1	34.8	840
	3/11/2019	7.75	<53.1	114	17.7	3.6	-	-	-	-	-	-	-	<0.100	<0.100	<0.100	-	-	2.5	6.02	0.27	52.2	207.5	
	5/22/2019	8.25	<260	<420	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	5.39	0.49	85.8	70.2
	7/22/2019	9.52	<260	790	16	14	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	5.91	0.04	84.8	500.3
	10/9/2019	9.6	<250	<400	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.83	0.13	171.4	66.3
	1/30/2020	7.06	<210	<210	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.35	0.34	130.8	47.5
	4/10/2020	8.17	<210	<210	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2	6.56	0.22	20.5	420.5
7/16/2020	9.07	<210	980	26	22	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5.85	0.25	43.4	449.4	
Site Specific Cleanup Level +			500	500	10																			
MTCA Method A or Method B Cleanup Level^			500	500	5.0		5.0		50		15		2.0		160	(1.51)	32	Varies#	Varies#	n/a	n/a	n/a	n/a	n/a

Notes:

All results reported in ug/L (micrograms per liter), or mg/L (milligrams per liter)

ug/L = micrograms per liter [equivalent to parts per billion (ppb)]

mg/L = milligrams per liter [equivalent to parts per million (ppm)]

Bold concentrations are detectable concentrations, below their Site Specific Cleanup Level (if available).

Shaded and Bold concentrations are detectable concentrations, exceeding their Site Specific Cleanup Level

nd = No analytes detected above the laboratory reporting limit. See laboratory analytical report for full list of results

= Various cleanup levels for multiple analytes. See laboratory analytical report for full list of analytes

b = Identified as Diesel Range Organics, indicating the presence of unresolved compounds eluting from dodecane through tetracosane (~C12-C24).

SR = Minor detections of other VOCs or SVOCs, at concentrations below state cleanup levels. See analytical report for specific detections.

- = Not analyzed

^ = MTCA Method B Cleanup Level in parentheses

* - Result from analysis by EPA Method 8260. Concentration of 160 ug/L reported from analysis by EPA Method 8270

+ = Site specific cleanup level as established in Cleanup Action Plan dated May 24, 2018

Table 3
Compliance Groundwater Sampling
Bothell Paint Site
Bothell, Washington

Sample ID	Sample Date	Approximate Depth to Groundwater	Diesel Range Organics	Heavy Oil Range Organics	Total		Total		Total		Total		Total		Dissolved Manganese	Semi-Volatile Organic Compounds (SVOCs)	Volatile Organic Compounds (VOCs)	Methane	Nitrate (as Nitrogen)	Sulfate	Ferrous Iron	Total Alkalinity (as CaCO3)	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	
					Arsenic	Cadmium	Chromium	Lead	Mercury	ug/L	ug/L	ug/L	ug/L	ug/L													ug/L
		Feet Below Ground Surface	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mV	uS/cm	
BPMW-2R:W	11/20/2018	8.08*	51.4 ^b	<101	<1.75	<1.75	<0.200	<0.200	1.72	<1.00	<0.500	<0.500	<0.100	<0.100	161	SR	nd	0.106	<0.1	5.98	1.0	124	7.27	0.14	3.2	229.5	
	3/7/2019	5.5*	122 ^b	219	-	-	-	-	-	-	-	-	-	-	94	-	-	0.651	<0.100	1.87	0.5	117	7.47	0.19	-64.7	240	
	5/20/2019	7.98*	<260	<420	-	-	-	-	-	-	-	-	-	-	60	-	-	0.66	0.055	<5.0	0.5	110	7.25	0.26	-120.9	235	
	7/18/2019	8.46*	<260	<420	-	-	-	-	-	-	-	-	-	-	92	-	-	1.2	<0.050	<5.0	0.5	110	7.14	0.07	38.9	258.7	
	10/10/2019	8.50*	<260	<410	-	-	-	-	-	-	-	-	-	-	120	-	-	0.9	<0.050	<5.0	0.5	110	7.51	0	-78.5	246.7	
	1/9/2020	8.09	<260	350	-	-	-	-	-	-	-	-	-	-	76	-	-	1.5	<0.050	<5.0	0.5	110	7.29	0.16	-67.6	247.1	
	4/7/2020	7.95	<260	<410	-	-	-	-	-	-	-	-	-	-	130	-	-	1.2	<0.050	<5.0	0.5	120	7.38	0.14	-71.5	248.2	
7/7/2020	8.33	<210	<210	-	-	-	-	-	-	-	-	-	-	130	-	-	1.2	<0.050	5.5	0.5	120	6.83	0.36	-13.6	249.4		
BPMW-6:W	11/20/2018	2.87	<50.2	194	16.5	15.0	0.207	<0.200	4.51	2.94	4.46	1.09	<0.100	<0.100	67.7	nd	nd	0.511	4.26	19.9	0.0	68.0	5.96	0.11	105.4	292.8	
	3/7/2019	2.25	<50.3	<101	14.7	13.8	-	-	-	-	-	-	-	-	27.7	-	-	2.25	10 ^e	5.18	0.5	25.7	5.68	0.32	98.9	159.2	
	5/20/2019	1.4	<270	500	9.3	8.4	-	-	-	-	-	-	-	-	26	-	-	1.8	25	<5.0	0.5	44.0	5.87	0.44	32.8	359.6	
	7/18/2019	3.14	<300	<490	44	38	-	-	-	-	-	-	-	-	130	-	-	5.9	<0.050	<5.0	1.5	120.0	6.06	0.07	109.9	382.4	
	10/10/2019	2.71	<290	740	9.1	5.8	-	-	-	-	-	-	-	-	190	-	-	4.4	9.1	<5.0	1.0	110.0	6.2	0.02	99.5	364	
	1/9/2020	0.35	<210	240	11	8.0	-	-	-	-	-	-	-	-	23	-	-	5.3	9.4	<5.0	0.0	44.0	5.86	0.62	174	211.6	
	4/7/2020	1.71	<210	430	11	8.7	-	-	-	-	-	-	-	-	16	-	-	3.8	19	<5.0	0.0	42.0	6	1.15	142.4	274.1	
7/7/2020	2.28	<220	350	19	16	-	-	-	-	-	-	-	-	79	-	-	4.2	0.21	<5.0	1.5	64.0	5.34	0.41	121.7	202.8		
BC-10:W	11/27/2018	9.71	<49.9	<99.8	<1.75	<1.75	<0.200	<0.200	1.03	<1.00	<0.500	<0.500	<0.100	<0.100	184	nd	nd	0.958	<0.1	6.41	2.0	160	6.53	0.38	27.7	384.7	
	3/15/2019	9.42	<50.3	<101	<1.75	<1.75	-	-	-	-	-	-	-	-	194	-	-	0.0872	<0.10	6.22	3.0	167	6.62	0.23	-1	351	
	5/23/2019	10.9	<260	<410	<3.3	<3.0	-	-	-	-	-	-	-	-	150	-	-	0.23	<0.050	6	4.0	160	6.27	0.28	-149	348.8	
BC-11R	3/7/2019	10.06	-	-	<1.75	<1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.44	0.26	-4.8	467.4	
	5/20/2019	11.06	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0	-	6.22	0.33	-45.7	461.9	
	7/18/2019	11.87	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	-	6.13	0.07	50	509.6	
	10/10/2019	11.7	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	6.51	0.01	-20.8	482.9	
	1/21/2020	9.66	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.42	0.02	-21.8	465.5	
	4/7/2020	9.73	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.53	0.11	2.3	501.5	
7/7/2020	10.31	-	-	<3.0	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	6.03	0.47	36.5	526.6		
BPMW-1	3/7/2019	12.56	-	-	12.9	4.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	-	6.52	0.24	0.4	515.6	
	5/23/2019	12.35	-	-	22	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	6.21	0.37	-162.7	514.9	
	7/19/2019	12.42	-	-	14	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	-	6.56	0.08	-23.3	535.6	
	10/10/2019	12.16	-	-	17	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.62	0	-43.9	509	
	1/21/2020	11.72	-	-	16	8.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	-	6.65	0.1	-14.9	500.8	
	4/8/2020	12.08	-	-	19	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.6	0.14	-24.4	527	
	7/8/2020	12.1	-	-	18	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5	-	6.16	0.39	3.6	567.2	
Site Specific Cleanup Level +			500	500	10																						
MTCA Method A or Method B Cleanup Level^			500	500	5.0		5.0		50		15		2.0		(2,240)	Varies#	Varies#	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Notes:
All results reported in ug/L (micrograms per liter), or mg/L (milligrams per liter)
ug/L = micrograms per liter [equivalent to parts per billion (ppb)]
mg/L = milligrams per liter [equivalent to parts per million (ppm)]
Bold concentrations are detectable concentrations, below their Site Specific Cleanup Level (if available).
Shaded and Bold concentrations are detectable concentrations, exceeding their Site Specific Cleanup Level
nd = No analytes detected above the laboratory reporting limit. See laboratory analytical report for full list of results
= Various cleanup levels for multiple analytes. See laboratory analytical report for full list of analytes
* = Well is angled at approximately 47 degree angle
b = Identified as Diesel Range Organics, indicating the presence of unresolved compounds eluting from dodecane through tetracosane (~C12-C24).
SR = Minor detections of other VOCs or SVOCs, at concentrations below state cleanup levels. See analytical report for specific detections.
- = Not analyzed
^ = MTCA Method B Cleanup Level in parentheses
+ = Site specific cleanup level as established in Cleanup Action Plan dated May 29, 2018

Table 1
Compliance Groundwater Sampling
Bothell Hertz Site
Bothell, Washington

Sample ID	Sample Date	Approximate Depth to Groundwater Feet Below Ground Surface	Diesel Range Organics ug/L	Heavy Oil Range Organics ug/L	Arsenic		Cadmium		Chromium		Lead		Mercury		Dissolved Manganese ug/L	Semi-Volatile Organic Compounds (SVOCs) ug/L	Volatile Organic Compounds (VOCs) ug/L	Methane mg/L	Nitrate (as Nitrogen) mg/L	Sulfate mg/L	Ferrous Iron mg/L	Total Alkalinity (as CaCO3) mg/L	pH	Dissolved Oxygen mg/L	Oxidation Reduction Potential mV	Conductivity uS/cm	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved													
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L													
HZ-MW-1-W	9/4/2018	8.05	<49.8	<99.7	<1.75	<1.75	<0.200	<0.200	13.6	12.8	<0.500	<0.500	<0.100	<0.100	<2.00	nd	PCE - 10.2	<0.00863	1.69	7.42	0.0	52.1	6.52	8.48	63.7	140	
	9/5/2019	6.5	-	-	<1.75	<1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.18	5.59	152.5	149.3	
	5/21/2019	6.81	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	5.99	7	66.7	159.6	
	7/16/2019	7.2	-	-	<3.0	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.23	7.98	158.3	203.4	
	10/16/2019	7.45	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.4	3.56	148.7	200.1	
	1/10/2020	6.39	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.34	1.74	228.8	197.9	
	4/9/2020	6.35	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.39	0.06	172.7	153	
7/13/2020	6.88	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	5.75	0.69	172	289.5		
HZ-MW-4-W	9/4/2018	7.61	<50.0	124	<1.75	<1.75	<0.200	<0.200	1.15	<1.00	<0.500	<0.500	<0.100	<0.100	165	nd	SR	<0.00863	1.7	37.4	0.0	116	6.37	2.36	12.8	359	
	3/5/2019	5.8	-	-	<1.75	<1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.27	0.24	133.6	486.1		
	5/21/2019	6.37	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-	6.1	0.35	26.2	426.1		
	7/16/2019	7.2	-	-	<3.0	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.05	4.65	114.6	396		
	10/11/2019	7.13	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.37	1.88	100.1	353.8		
	1/10/2020	6	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.37	0.33	175.4	459.3		
	4/9/2020	6.11	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	6.36	0.13	166.3	489		
7/13/2020	6.24	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	5.82	0.41	221.1	446.5			
HZ-MW-12-W	9/5/2018	10.85	115^b	253	4.84	5.54	<0.200	<0.200	<1.00	<1.00	<0.500	<0.500	<0.100	<0.100	4,090	nd	nd	3.17	<0.1	0.367	2.5	608	6.38	0.32	33.1	1,180	
	3/6/2019	8.33	-	-	2.89	<1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	6.37	0.59	-66.9	1,063		
	5/22/2019	9.46	-	-	4.20	3.20	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	-	6.01	0.26	-115.3	1,151		
	7/19/2019	10.35	-	-	4.60	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	-	6.14	0.09	9.7	1,220		
	10/9/2019	10.7	-	-	4.40	3.80	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.38	0.03	-39.3	1,133		
	1/8/2020	8.31	-	-	5.20	4.50	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.38	0.21	-3.4	1,015		
	4/8/2020	8.61	-	-	3.60	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.46	0.13	-52.2	1,085		
7/8/2020	9.29	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	-	5.97	0.35	-9.5	1,150			
HZ-MW-17-W	9/4/2018	7.9	<50.0	<99.9	<1.75	<1.75	<0.200	<0.200	<1.00	<1.00	<0.500	<0.500	<0.100	<0.100	234	nd	SR	0.00892	<0.1	17.7	3.0	111	6.85	7.94	15	269	
	3/5/2019	7.1	-	-	<1.75	<1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	-	6.76	0.13	-24.9	269.6		
	5/23/2019	7.08	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	-	6.31	1.02	-79.6	304		
	7/17/2019	7.63	-	-	<3.0	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.65	0.07	-12.1	8.44		
	10/11/2019	7.7	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-	6.98	0.73	41.4	340.5		
	1/17/2020	7.15	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-	6.96	0.14	-21.6	252.3		
	4/8/2020	7.01	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.74	0.4	-11.1	382.4		
7/10/2020	7.11	-	-	<3.3	<3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	6.35	0.41	-8.6	329.6			
HZ-MW-19-W	9/5/2018	7.69	125^b	150	<1.75	<1.75	<0.200	<0.200	<1.00	<1.00	<0.500	<0.500	<0.100	<0.100	954	nd	SR	0.0296	<0.1	65.6	3.5	198	6.34	0.48	26.1	513	
	3/5/2019	6.00	210^b	<98.5	-	-	-	-	-	-	-	-	-	-	136	-	-	0.0332	0.414 ^H	8.98	2.0	162	5.94	0.33	77.7	221.1	
	5/21/2019	6.25	410	<420	<3.3	<3.0	-	-	-	-	-	-	-	-	720	-	-	0.11	0.14	17	4.0	180	5.87	0.31	-11	330.9	
	7/16/2019	7.1	<260	<420	<3.0	<3.0	-	-	-	-	-	-	-	-	850	-	-	0.035	<0.050	44	2.0	210	6.09	0.12	45.9	520.9	
	10/16/2019	6.8	340	950	<3.3	<3.0	-	-	-	-	-	-	-	-	840	-	-	0.018	<0.050	48	1.5	190	6.33	0.04	15.9	486.5	
	1/10/2020	4.82	510	<210	<3.3	<3.0	-	-	-	-	-	-	-	-	32	-	-	0.01	1.8	23	0.0	98	6.02	1.67	198.9	244.5	
	4/9/2020	5.21	430	370	<3.3	<3.0	-	-	-	-	-	-	-	-	71	-	-	0.06	0.24	13	0.5	120	6.15	0.33	124.4	242.5	
7/15/2020	6.24	610	530	<3.3	<3.0	-	-	-	-	-	-	-	-	430	-	-	0.29	<0.050	45	6.0	180	5.94	0.35	47.8	388.5		
BC-16-W	9/5/2018	8.77	91.4^b	104	3.34	<1.75	<0.200	<0.200	2.35	<1.00	2.91	<0.500	<0.500	<0.100	<0.100	3,470	nd	nd	2.18	<0.1	13	3.0	560	6.3	0.92	31.4	1,040
	3/6/2019	3.78	<50.4	179	2.56	<1.75	-	-	-	-	-	-	-	-	3,760	-	-	3.44	0.31	270	3.0	371	6.37	0.44	-31	1,118	
	5/22/2019	5.89	<260	450	<3.3	<3.0	-	-	-	-	-	-	-	-	4,600	-	-	2.1	0.27	260	4.5	510	6.09	0.35	-114.1	1,292	
	7/19/2019	7.63	<260	540	<3.3	<3.0	-	-	-	-	-	-	-	-	4,800	-	-	8.9	<0.050	160	2.0	560	6.15	0.84	39.7	1,347	
	10/11/2019	8.32	<270	<440	<3.3	<3.0	-	-	-	-	-	-	-	-	3,900	-	-	6	<0.050	61	1.0	520	6.36	0.32	-35.3	1,150	
	1/8/2020	3.55	260	350	<3.3	<3.0	-	-	-	-	-	-	-	-	5,600	-	-	1.9	0.13	300	1.5	560	6.44	0.14	-30.1	1,500	
	4/8/2020	4.19	570	590	<3.3	<3.0	-	-	-	-	-	-	-	-	3,800	-	-	3.1	<0.050	340	0.5	520	6.55	0.09	-46.3	1,320	
7/8/2020	5.74	520	630	<3.3	<3.0	-	-	-	-	-	-	-	-	4,800	-	-	3.7	0.14	260	0.5	540	6.13	0.32	-29.8	1,413		
BLMW-8R-W	11/21/2018	8.53	879^b	1,680	6.63	2.12	0.276	<0.200	1.25	<1.00	<0.500	<0.500	<0.100	<0.100	1,070	SR	nd	0.648	<0.1	2.37	2.5	244	6.56	0.19	43.5	570.7	
	3/6/2019	7.72	<49.5	234	-	-	-	-	-	-	-	-	-	-	3,480	-	-	4.26	<0.100	1.7	2.5	348	6.74	0.31	-64.4	669.8	
	5/21/2019	7.91	400	720	7.10	5.60	-	-	-	-	-	-	-	-	2,400	-	-	2.90	0.14	<5.0	3.0</						