



City of Bothell™

October 1, 2018

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 #2

Reporting Period: July 1 – Sep 30, 2018

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.

As noted in the previous QPR, and as required by Section VIII.C of the Agreed Order the City is notifying Ecology that Kane Environmental will likely continue conducting the quarterly groundwater monitoring for the three sites beyond the first quarter, due to a delay in the consultant procurement process.

Please contact me if you have any questions.

Sincerely,

Nduta Mbutia

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Bothell, WA 98011
425.806.6800
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Reporting Period: July 1 – Sep 30, 2018
Date submitted (electronically): October 9, 2018
Date mailed (certified w/return receipt): October 10, 2018
Prepared by: Nduta Mbuthia, Project Coordinator
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- 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 Oder No.:15746, Effective date June 11, 2018
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A. A list of on-site activities that have taken place during this quarter

The following activities have occurred this quarter – The initial round of groundwater compliance monitoring was conducted in September. Sampling results are in the process of being analyzed and tabulated, and will therefore be provided to Ecology under separate cover (as soon as they are available)

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

There have been no deviations this quarter

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

There have been no deviations this quarter

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

There have been no deviations this quarter

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

The initial round of groundwater compliance monitoring was conducted per the CMP Table 3-1A; sampling results to be provided under separate cover

**Table 3-1A
Sampling Approach– Ground Water
INITIAL ROUND**

Sample type	Sampling location	Sampling Frequency / Rationale	Analytes
Arsenic			
Point of compliance	BLMW-11 BLMW-12 MW-1	Initial Round	Total petroleum hydrocarbons, diesel and oil range (TPH-D, TPH-O) Volatile Organic compounds (VOCs) Semivolatile Organic compounds (SVOCs) Total and dissolved metals (arsenic, cadmium, chromium, lead, mercury) Field parameters: dissolved oxygen, redox potential, pH, conductivity, temperature, ferrous iron

During the next quarter the subsequent round of sampling will be done, in accordance with the CMP per table 3-1B below.

**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.

- 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 Oder No.:	15748 (Effective date May 31, 2018)

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

The following activities have occurred this quarter – The initial round of groundwater compliance monitoring was conducted in September. Sampling results are in the process of being analyzed and tabulated, and will therefore be provided to Ecology under separate cover (as soon as they are available)

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

There have been no deviations this quarter

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

There have been no deviations this quarter

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

There have been no deviations this quarter

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

The initial round of groundwater compliance monitoring was conducted in accordance with the CMP per table 3-1A below; sampling results to be provided under separate cover

**Table 3-1A
Sampling Approach – Ground Water
INITIAL ROUND**

Sample type	Sampling location	Sampling Frequency / Rationale	Analytes
Point of Compliance	BPMW-6 BPMW-2R* BC-10	Initial Round	Total petroleum hydrocarbons, diesel and oil range (TPH-D, TPH-O) Nitrate, manganese (soluble), sulfate, methane, alkalinity Volatile Organic compounds (VOCs) Semivolatile Organic compounds (SVOCs) Total and dissolved metals (arsenic, cadmium, chromium, lead, mercury) Field parameters: dissolved oxygen, redox potential, pH, conductivity, temperature, ferrous iron

During the next quarter the subsequent round of sampling will be done, in accordance with the CMP per table 3-1B below.

**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 Oder No.:	15747 (Effective date May 31, 2018)

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

The following activities have occurred this quarter – The initial round of groundwater compliance monitoring was conducted in September. Sampling results are in the process of being analyzed and tabulated, and will therefore be provided to Ecology under separate cover (as soon as they are available)

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

There have been no deviations this quarter

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

There have been no deviations this quarter

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

There have been no deviations this quarter

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

The initial round of groundwater compliance monitoring was conducted per the CMP Table 3-1A; sampling results to be provided under separate cover

**Table 3-1A
Sampling Approach – Ground Water
INITIAL ROUND**

Sample type	Sampling location	Sampling Frequency / Rationale	Analytes	
Point of Compliance	HZMW-19	Initial Round	Total petroleum hydrocarbons, diesel and oil range (TPH-D, TPH-O)	
	BLMW-8			
	BC-16			
	HZMW-1			Nitrate, manganese (soluble), sulfate, methane, alkalinity
	HZMW-4			Volatile Organic compounds (VOCs)
	HZMW-12			Semivolatile Organic compounds (SVOCs)
	HZMW-17			Total and dissolved metals (arsenic, cadmium, chromium, lead, mercury)
		Field parameters: dissolved oxygen, redox potential, pH, conductivity, temperature, ferrous iron		

During the next quarter the subsequent round of sampling will be done in accordance with the CMP per

table 3-1B below.

**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

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

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