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JULY 2018 GROUNDWATER MONITORING REPORT

CHS AUBURN SITE
AUBURN, WASHINGTON

Submitted by:
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Farallon PN: 301-004

For:
CHS Inc.
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February 14, 2019

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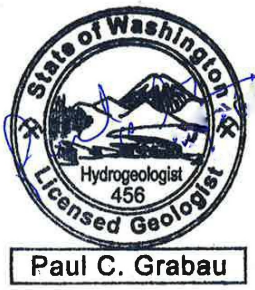

Paul C. Grabau, L.G., L.H.G.
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1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this report on behalf of CHS Inc. (CHS) to document the groundwater monitoring activities conducted on July 31 and August 1, 2018 at the CHS Auburn site in Auburn, Washington (herein referred to as the Site). For the purpose of this report, the groundwater monitoring activities conducted on July 31 and August 1, 2018 will be referred to herein as the July 2018 monitoring event. This report also presents the planned modifications for the air sparging (AS) and soil vapor extraction (SVE) system at the Site. The site vicinity map is provided on Figure 1; a site plan is provided on Figure 2. The Site is listed in the Washington State Department of Ecology (Ecology) Confirmed and Suspected Contaminated Sites List database as Cenex Valley Supply Coop, and has been assigned Site Identification No. 2487.

A Remedial Investigation/Feasibility Study for the Site was completed in accordance with the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), as established in Chapter 173-340 of the Washington Administrative Code, and pursuant to the requirements of Agreed Order No. 4033 entered into between CHS and Ecology on June 12, 2007. The Remedial Investigation Report was submitted to Ecology on July 20, 2011 (Farallon 2011). A Feasibility Study for the Site was submitted to Ecology on August 6, 2014 (Farallon 2014). A working draft of the Draft Cleanup Action Plan was submitted for Ecology review on May 28, 2015 (Farallon 2015). The public review and comment period for the Draft Cleanup Action Plan issued by Ecology and for the Draft Consent Decree for the Site was completed on May 7, 2018. The Final Cleanup Action Plan (Ecology 2018a) was included as Exhibit B of Consent Decree No. 18-2-15430-8 between Ecology and CHS, with an effective date of June 20, 2018 (Final Cleanup Action Plan).

The scope of work for the July 2018 monitoring event was conducted in accordance with the Technical Memorandum regarding Groundwater Monitoring Program Modification, CHS Auburn Site, Auburn, Washington dated March 2, 2012, from Mr. Paul C. Grabau of Farallon (2012) to Mr. Jerome Cruz of Ecology (March 2012 Technical Memorandum), which was approved by Ecology in a telephone conversation.

This report is organized as follows:

- **Section 2, Field Methods**, describes the sampling protocols and selected monitoring wells and analyses for the July 2018 monitoring event.
- **Section 3, Groundwater Monitoring Results**, presents groundwater elevations and analytical results from the July 2018 monitoring event, and the data validation conducted.
- **Section 4, Status of Treatment System**, provides details on the status of the AS/SVE system and planned modifications to the AS and SVE remediation well network.
- **Section 5, Discussion**, presents a summary of contaminant distribution in groundwater at the Site.

- **Section 6, Ongoing and Planned Activities**, discusses ongoing groundwater monitoring events and modifications to the AS/SVE system at the Site planned for 2019.
- **Section 7, References**, provides a list of the documents cited in this report.

2.0 FIELD METHODS

This section summarizes the sampling protocols and the selected monitoring wells and analyses for the July 2018 monitoring event conducted at the Site.

2.1 SAMPLING PROTOCOLS

Groundwater samples were collected at the Site on July 31 and August 1, 2018 using low-flow sampling methods, as described in the March 2012 Technical Memorandum. Groundwater elevations were measured at select well locations on July 31, 2018 prior to initiation of sampling. Measurements of dissolved-oxygen levels in groundwater typically have been obtained in tandem with groundwater elevations; however due to technical issues associated with the InsiteIG Model 3100 dissolved-oxygen analyzer and optical fluorescence down-hole probe, dissolved-oxygen content level measurements in groundwater were collected during purging using the YSI Model ProDSS water-quality analyzer prior to sample collection. Groundwater elevations at each monitoring well were measured also during sampling. The depth to groundwater in each monitoring well was measured to the nearest 0.01 foot using an electronic water-level measuring device from the surveyed location on the top of the well casing. The depth-to-groundwater measurements and the water-level elevations determined prior to sampling for the groundwater monitoring events conducted from June 2008 through July 2018 are presented in Table 1.

Before the monitoring wells were purged, the intake of the dedicated polyethylene tubing was placed in the approximate middle of the saturated portion of the well screen. Groundwater was purged from each well at a flow rate of approximately 100 to 250 milliliters per minute. Prior to sampling at each monitoring well, field measurements for pH, temperature, specific conductivity, dissolved oxygen, and oxidation-reduction potential (ORP) were recorded during purging of groundwater using a YSI Model ProDSS water-quality analyzer equipped with a flow-through cell. The results from the water-quality parameter geochemical measurements are presented in Table 2. Groundwater samples were collected after the pH, temperature, and specific conductivity parameters stabilized. Stabilization was determined for pH as a change of +/-0.1 pH unit between readings for three consecutive measurements, and for temperature and specific conductivity as a relative percent difference of less than 3 percent between readings for three consecutive measurements.

Following stabilization of the water-quality parameters, samples were collected by pumping groundwater directly from each monitoring well through dedicated polyethylene tubing into laboratory-prepared containers, with care taken to minimize turbulence. Care was taken to not handle the container seal or lid when the samples were placed into the containers. The containers were filled to eliminate headspace, and the seal and lid were secured. The samples were placed on ice in a cooler under standard chain-of-custody protocols, and delivered to OnSite Environmental Inc. of Redmond, Washington (OnSite) for laboratory analysis. Wastewater generated during development and purging of the monitoring wells is temporarily stored in labeled 55-gallon drums at the Site.

2.2 SELECTED MONITORING WELLS AND ANALYSES

Groundwater samples were collected from monitoring wells CMW-2, CMW-8, CMW-10, CMW-12, CMW-13, CMW-25 through CMW-29, CMW-31, HMW-9 through HMW-11, and HMW-13, and analyzed for the following:

- Total petroleum hydrocarbons (TPH) as diesel-range organics (DRO) and as oil-range organics (ORO) by Northwest Method NWTPH-Dx;
- TPH as gasoline-range organics (GRO) by Northwest Method NWTPH-Gx; and
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by U.S. Environmental Protection Agency Method 8021B.

The sample extracts for the DRO and ORO analyses conducted from 2008 through November 2016 were treated with a sulfuric acid/silica gel cleanup procedure. At Ecology request, the sulfuric acid/silica gel cleanup procedure has not been used for DRO or ORO analysis from July 2017 to the present. Duplicate groundwater samples were collected from monitoring wells CMW-12 and CMW-27 for quality assurance/quality control (QA/QC) purposes.

3.0 GROUNDWATER MONITORING RESULTS

This section presents groundwater elevations and analytical results from the July 2018 monitoring event, and the data validation conducted.

3.1 GROUNDWATER ELEVATIONS

Groundwater elevations measured in the Site monitoring wells ranged from 66.06 feet above mean sea level in monitoring well CMW-30 to 64.18 feet above mean sea level in monitoring well CMW-13[1] (Table 1). Groundwater elevation contours based on the elevations measured on July 31, 2018 are shown on Figure 3. The groundwater flow direction was northeast, with an average gradient of 0.002 foot per foot. Groundwater elevations measured in July 2018 were approximately 4.9 feet lower on average than those measured during the most-recent monitoring event conducted in January 2018 (Farallon 2018a) (Table 1).

3.2 SITE-WIDE MONITORING ANALYTICAL RESULTS

The analytical results from the July 2018 monitoring event are discussed in the following sections. Comparison of analytical results for DRO, ORO, GRO, and BTEX constituents to MTCA Method A groundwater cleanup levels is shown in Table 3. Analytical results for DRO, ORO, GRO, and BTEX for the July 2018 monitoring event are presented on Figure 4. The laboratory analytical reports are provided in Appendix A.

3.2.1 Gasoline-Range Organics

GRO was detected at a concentration exceeding the MTCA Method A cleanup level of 800 micrograms per liter (µg/l) in groundwater samples collected from 3 of the 15 monitoring wells sampled (Table 3). GRO was detected as follows:

- Monitoring well CMW-12 at a concentration of 1,500 µg/l in the sample and duplicate QA/QC sample;
- Monitoring well CMW-12: at a concentration of 1,000 µg/l in the sample, and 1,100 µg/l in the duplicate QA/QC sample; and
- Monitoring well HMW-11 at a concentration of 1,600 µg/l.

3.2.2 Benzene, Toluene, Ethylbenzene, and Xylenes

None of the BTEX constituents was detected at a concentration exceeding MTCA Method A cleanup levels (Table 3).

[1] The groundwater elevation of 67.19 feet above mean sea level determined for monitoring well MW-13 on July 31, 2018 prior to sampling appears to have been erroneous based on the water level measured later the same day at the time of sampling.

3.2.3 Diesel-Range Organics

DRO was detected at concentrations exceeding the MTCA Method A cleanup level of 0.5 milligram per liter (mg/l) in groundwater samples collected from 8 of the 15 monitoring wells sampled (Table 3). The concentrations of DRO exceeding the MTCA Method A cleanup level ranged from 0.60 mg/l in the sample collected from monitoring well HMW-10 to 2.7 mg/l in the sample collected from monitoring well CMW-27. The groundwater samples collected from monitoring wells CMW-12, CMW-13, CMW-27, HMW-10 and HMW-11, which exceeded the MTCA Method A cleanup level, were flagged in the laboratory analytical report due to interferences from detected concentrations of GRO impacting DRO analytical results.

3.2.4 Oil-Range Organics

ORO was detected at concentrations exceeding the MTCA Method A cleanup level of 0.5 mg/l in groundwater samples collected from 4 of the 15 monitoring wells sampled (Table 3). The concentrations of ORO exceeding the MTCA Method A cleanup level ranged from 0.52 mg/l in the sample collected from monitoring well CMW-28 to 1.0 mg/l in the sample collected from monitoring well CMW-27. All groundwater samples that exceeded the MTCA Method A cleanup level for ORO were flagged in the analytical report due to interferences from detected concentrations of DRO impacting ORO analytical results.

3.2.5 Groundwater Geochemical Parameters

The groundwater geochemical parameters measured in the field were pH, ORP, and dissolved-oxygen content. The results for these geochemical parameters are presented in Table 2 and summarized in the following sections.

3.2.5.1 pH

The pH measurements for groundwater samples ranged from 5.95 pH units at monitoring well HMW-13 to 6.33 pH units at monitoring well CMW-8.

3.2.5.2 Oxidation-Reduction Potential

ORP readings in groundwater ranged from -43.1 millivolts at monitoring well HMW-10 to 164.0 millivolts at monitoring well CMW-2.

3.2.5.3 Dissolved Oxygen

The dissolved-oxygen readings ranged from 0.21 mg/l in monitoring well CMW-27 to 4.32 mg/l in monitoring well CMW-26.

3.3 DATA VALIDATION

Farallon reviewed the analytical data package provided by OnSite for sample delivery groups 1808-009 and 1808-022. The groundwater samples from these groups were analyzed for GRO, DRO, ORO, and BTEX constituents by the methods cited in Section 2.2, Selected Monitoring Wells and Analyses, within the prescribed method holding times. The QA/QC testing performed

by OnSite included evaluation of surrogate recoveries and matrix spike/matrix spike duplicates. Results from the QA/QC testing were within established laboratory control limits. Based on Farallon's review of the QA/QC data generated during the July 2018 monitoring event, the groundwater analytical results are acceptable for use in characterizing groundwater quality at the Site relative to the groundwater quality cleanup levels used for comparative purposes in this report. The laboratory analytical reports for the samples analyzed by OnSite are provided in Appendix A.

4.0 STATUS OF TREATMENT SYSTEM

This section provides details on the status of the AS system that is located in the central portion of the Site and along the southern perimeter (Central/Perimeter AS system) and the modifications to the existing AS and SVE well network at the Site planned for 2019.

The Central/Perimeter AS system is not operating because the air compressor was damaged beyond reasonable repair. After researching replacement air compressors that would accommodate the Central/Perimeter AS system expansion for the cleanup action, Farallon selected a construction contractor to install a larger-capacity rotary claw-type compressor and an improved piping cooling array as part of the planned modifications to the current AS remediation well network, which are anticipated to be completed during the first or second quarter of 2019.

Farallon (2018b) submitted the Preliminary AS and SVE System Design Plan Set to Ecology for review on November 19, 2018 (2018 Design Plan Set). The 2018 Design Plan Set met the requirements for the engineering design work detailed in Table 3 of the Final Cleanup Action Plan (Farallon 2018a). Ecology approved the 2018 Design Plan Set in the email regarding CHS Auburn Performance Monitoring Plan dated January 18, 2019 from Mr. Jerome Cruz of Ecology to Mr. Paul Grabau of Farallon. The 2018 Design Plan Set detailed installation of additional AS remediation wells CAS-14 through CAS-22 and SVE remediation wells CSVE-9 and CSVE-10 in target areas that are beyond the effective area of influence of current AS and SVE remediation wells, and in areas where TPH in groundwater persists at concentrations exceeding MTCA Method A cleanup levels. The 2018 Design Plan Set was submitted also to the City of Auburn as part of the construction permitting process. Farallon is in the process of obtaining bids from construction contractors to install the additional AS and SVE remediation wells. Once a construction contractor has been selected, Farallon will provide contractor business license information and Unified Business Identifier number to the City of Auburn for issuance of the construction permit.

5.0 DISCUSSION

This section provides a summary of the distribution of DRO, GRO, and BTEX constituents identified in groundwater at the Site during the July 2018 monitoring event.

Concentrations of DRO, ORO, GRO, and BTEX detected in groundwater samples collected from Site monitoring wells differed from those detected during the January 2018 monitoring event as follows:

- DRO concentrations in groundwater samples collected from monitoring well CMW-2 decreased between January and July 2018. DRO was the only constituent detected at a concentration exceeding MTCA Method A cleanup levels at this location during the July 2018 monitoring event.
- DRO and ORO concentrations in groundwater samples collected from monitoring well CMW-10 increased between January and July 2018. DRO and ORO were the only constituents detected at concentrations exceeding the MTCA Method A cleanup levels at this location during the July 2018 monitoring event. The laboratory analytical report noted that the detected concentrations of ORO were impacted by interferences in the sample from detected concentrations of DRO.
- ORO, GRO, and xylene concentrations in groundwater samples collected from monitoring well CMW-12 increased between January and July 2018; DRO and benzene concentrations decreased. DRO, ORO, and GRO were the only constituents detected at concentrations exceeding MTCA Method A cleanup levels at this location during the July 2018 monitoring event. The laboratory analytical report noted that the detected concentrations of DRO were impacted by interferences in the sample from detected concentrations of GRO, and detected concentrations of ORO were impacted by interferences in the sample from detected concentrations of DRO.
- DRO, GRO, and benzene concentrations in groundwater samples collected from monitoring well CMW-13 increased between January and July 2018. DRO was the only constituent detected at a concentration exceeding MTCA Method A cleanup levels at this location during the July 2018 monitoring event. The laboratory analytical report noted that the detected concentrations of DRO were impacted by interferences in the sample from detected concentrations of GRO.
- DRO, ORO, GRO, toluene, ethylbenzene, and xylene concentrations in groundwater samples collected from monitoring well CMW-27 increased between January and July 2018. DRO, ORO, and GRO were the only constituents detected at concentrations exceeding MTCA Method A cleanup levels at this location during the July 2018 monitoring event. The analytical report noted that the detected concentrations of DRO were impacted by interferences in the sample from detected concentrations of GRO, and detected concentrations of ORO were impacted by interferences in the sample from detected concentrations of DRO.

- DRO and ORO concentrations in groundwater samples collected from monitoring well CMW-28 increased between January and July 2018. DRO and ORO were the only constituents detected at concentrations exceeding MTCA Method A cleanup levels at this location during the July 2018 monitoring event. The analytical report noted that the detected concentrations of ORO were impacted by interferences in the sample from detected concentrations of DRO.
- DRO concentrations in groundwater samples collected from monitoring well CMW-29 decreased between January and July 2018. None of the constituents analyzed for at this location was detected at a concentration exceeding MTCA Method A cleanup levels during the July 2018 monitoring event.
- DRO concentrations in groundwater samples collected from monitoring well HMW-9 increased between January and July 2018. None of the constituents analyzed for at this location was detected at a concentration exceeding MTCA Method A cleanup levels during the July 2018 monitoring event.
- DRO concentrations in groundwater samples collected from monitoring well HMW-10 decreased between January and July 2018. DRO was the only constituent detected at a concentration exceeding MTCA Method A cleanup levels at this location during the July 2018 monitoring event. The laboratory analytical report noted that the detected concentrations of DRO were impacted by interferences in the sample from detected concentrations of GRO.
- GRO and benzene concentrations in groundwater samples collected from monitoring well HMW-11 increased between January and July 2018; DRO and ORO concentrations decreased. DRO and GRO were the only constituents detected at concentrations exceeding MTCA Method A cleanup levels at this location during the July 2018 monitoring event. The laboratory analytical report noted that the detected concentrations of DRO were impacted by interferences in the sample from detected concentrations of GRO, and detected concentrations of ORO were impacted by interferences in the sample from detected concentrations of DRO.

6.0 ONGOING AND PLANNED ACTIVITIES

Farallon will conduct a semiannual groundwater monitoring event in January 2019. A January 2019 Groundwater Monitoring Report will be prepared and submitted to Ecology for review by March 2019.

Farallon is in the process of obtaining bids from construction contractors for installation of additional AS and SVE remediation wells and associated piping. The existing air compressor will be replaced in conjunction with the AS and SVE remediation well installation work, which Farallon anticipates will be completed during the first or second quarter of 2019. Following installation, Farallon will conduct monthly operation and maintenance activities on the AS/SVE system that will include measuring and adjusting: air flows and pressures in the AS system; and air flows and vacuum in the SVE system; and performing routine maintenance. Quarterly performance groundwater monitoring will be conducted for the first four quarters following start-up of the AS/SVE system after the additional AS and SVE remediation wells have been installed. Following the initial four quarters of performance groundwater monitoring, the sampling frequency will be semiannual. Details of the performance groundwater monitoring and AS/SVE system monitoring activities were provided to Ecology in the Performance Monitoring Plan dated December 17, 2018 (Farallon 2018c), as required by the Final Cleanup Action Plan, Exhibit B of Consent Decree No. 18-2-15430-8.

7.0 REFERENCES

Farallon Consulting, L.L.C. (Farallon). 2011. *Remedial Investigation Report, CHS Auburn Site, Auburn, Washington*. Prepared for CHS Inc. July 20.

———. 2012. Technical Memorandum Regarding Groundwater Monitoring Program Modification, CHS Auburn Site, Auburn, Washington. From Paul C. Grabau. To Jerome Cruz, Washington State Department of Ecology. March 2.

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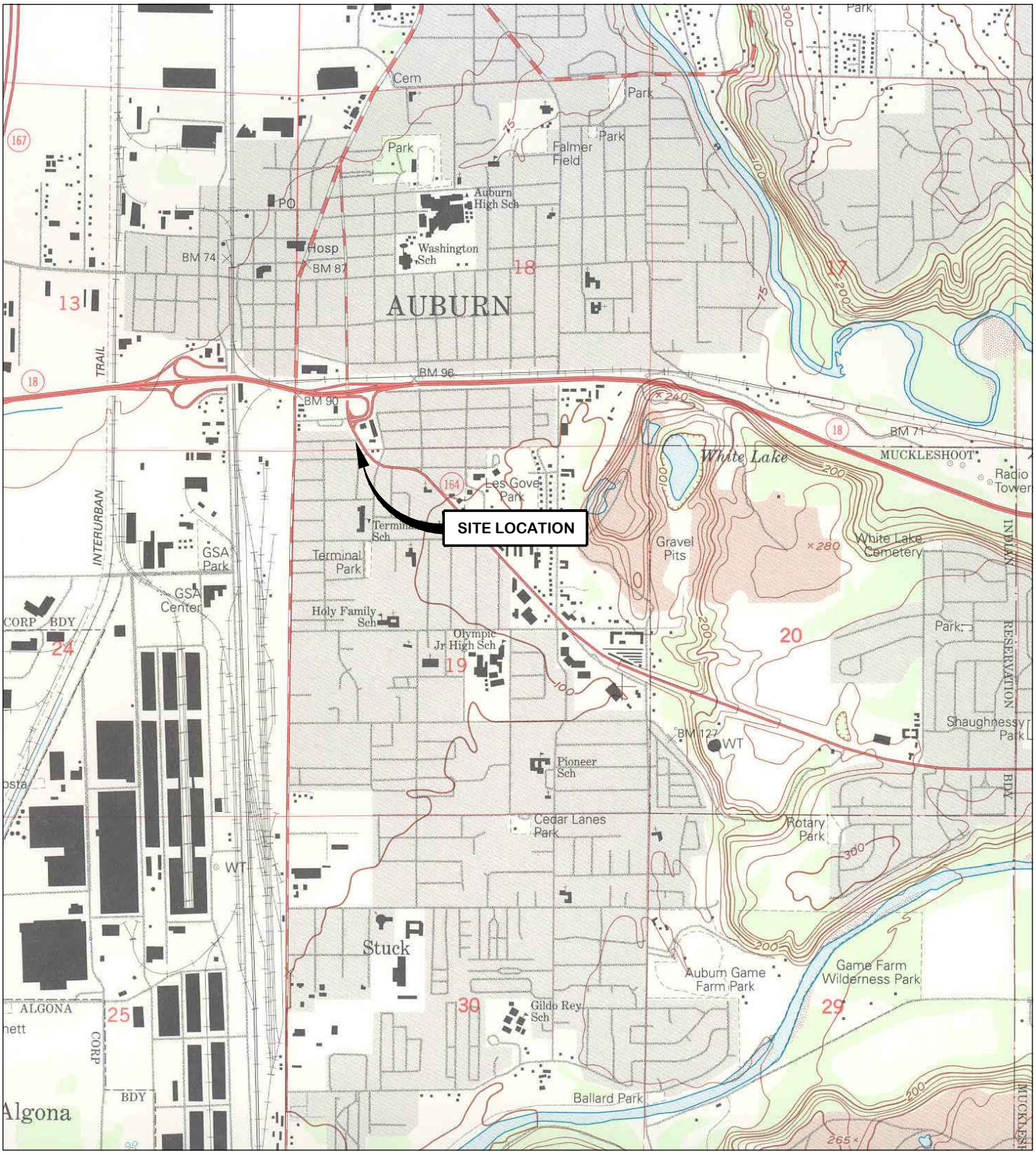
———. 2018. *Performance Monitoring Plan, CHS Auburn Site, Auburn Washington.* Prepared for CHS Inc. December 17.

Washington State Department of Ecology. 2018. *Final Cleanup Action Plan, CHS Auburn Site, 238 8th Street Southeast and Contiguous Areas, Auburn, Washington, Agreed Order No. 4033, Facility Site No. 2487.* May 8.

FIGURES

JULY 2018 GROUNDWATER MONITORING REPORT
CHS Auburn Site
Auburn, Washington

Farallon PN: 301-004



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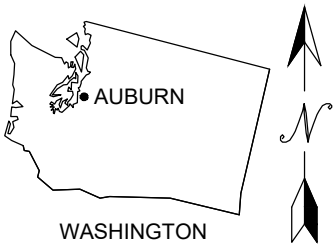

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FIGURE 1

SITE VICINITY MAP
CHS AUBURN SITE
AUBURN, WASHINGTON

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STATE ROUTE - 18

AUBURN WAY SOUTH

6TH STREET SE

7th STREET SE

8th STREET SE

D STREET SE

C STREET SE

6TH STR

7TH S

8TH S

SCHUCKS

FIRE HOUSE SQUARE

MCDONALD'S

WSIADA

THAI RESTAURANT

BIG-O TIRES

CHS AUBURN FACILITY

CHS MAIN BUILDING

CMW-20 CMW-23 CMW-22 CMW-19 DAS-13 DAS-14 DSVE-15 DSVE-16 CMW-32 CMW-14 CMW-17 CMW-21 CMW-9 CMW-15 CMW-8 CMW-31 HMW-12 CMW-5 HMW-9 HMW-5 HMW-6 HMW-10 HMW-8 CMW-18 CMW-12 CRW-2 HMW-11 CMW-7 CMW-6 CMW-27 CMW-13 CSVE-1 CMW-2 CAS-3 CAS-1 CAS-2 CMW-10 CRW-1 CMW-11 CAS-12 CSVE-7 CAS-10 CSVE-8 CAS-11 CAS-4 CSVE-4 CAS-5 CMW-25 CAS-8 CAS-13 CMW-28 CSVE-6 CAS-9 CAS-7 CSVE-5 AS-1 AS-14 SV-2 SV-14 HMW-13 SV-1 SV-15 SV-16 AS-15 SV-3 AS-13 AS-16 SV-13 CMW-4 CMW-29 CMW-26 AS-12 SV-12 AS-11 SV-11 SV-10 CMW-3 CMW-30 CMW-1 CMW-24 HMW-14

0 100

APPROXIMATE SCALE IN FEET

LEGEND

CMW-25	CHS MONITORING WELL
CRW-2	CHS RECOVERY WELL
HMW-13	HILLMAN MONITORING WELL
AS-2	AIR SPARGE (AS) WELL AS/ SOIL VAPOR EXTRACTION (SVE) PERIMETER SYSTEM
CAS-13	AS WELL AS/SVE CENTRAL SYSTEM
DAS-13	AS WELL AS/SVE DOWN-GRADIENT SYSTEM (LOST)
SV-3	SVE WELL AS/SVE PERIMETER SYSTEM
CSVE-3	SVE WELL AS/SVE CENTRAL SYSTEM
DSVE-16	SVE WELL AS/SVE DOWN-GRADIENT SYSTEM (LOST)
CAS-12 CSVE-7	DUAL COMPLETION SVE AND AS SYSTEM WELL
CMW-9	LOST OR ABANDONED MONITORING WELL

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FIGURE 2

SITE PLAN
CHS AUBURN SITE
AUBURN, WASHINGTON

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STATE ROUTE - 18

AUBURN WAY SOUTH

6TH STREET SE

CMW-19

CMW-15
(64.69)

64.80

(64.63)
CMW-8

CMW-32

CMW-17

CMW-21

6TH STREET SE

CMW-31
(64.70)

FIRE HOUSE SQUARE

SCHUCKS

CMW-5

65.00

HMW-9
(64.82)

64.80

7TH STREET SE

CMW-18

D STREET SE

HMW-10
(65.05)

65.00

CMW-12
(64.18*)

CRW-2

HMW-11

7th STREET SE

65.40

MCDONALD'S

65.20

CMW-6
(DRY)

CMW-27
(65.40)

65.60

WOODA

CMW-13
(67.19*)

CMW-2
(65.66)

8TH STREET SE

CMW-10

CRW-1

CMW-11

65.40

THAI RESTAURANT

CMW-25

CMW-28
(65.59)

65.60

65.80

8th STREET SE

HMW-13
(65.81)

CMW-4
(65.08*)

(65.83)
CMW-26

65.80

CMW-29
(65.84)

BIG-O TIRES

66.00

CMW-3

CHS AUBURN FACILITY

CMW-30
(66.06)

66.00

CHS MAIN BUILDING

CMW-24

C STREET SE

HMW-14

0 100

APPROXIMATE SCALE IN FEET

LEGEND

CMW-25	CHS MONITORING WELL
HMW-13	HILLMAN MONITORING WELL
(66.06)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
66.0	GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED
	APPROXIMATE DIRECTION OF GROUNDWATER FLOW
*	NOT USED IN CONTOUR DETERMINATION

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FIGURE 3

GROUNDWATER ELEVATION CONTOUR MAP
JULY 31, 2018
CHS AUBURN SITE
AUBURN, WASHINGTON

FARALLON PN: 301-004

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STATE ROUTE - 18

AUBURN WAY SOUTH

6TH STREET SE

7th STREET SE

8th STREET SE

7TH STREET S

8TH STREET

FIRE HOUSE SQUAR

D ST SE

C STREET SE

SCHUCKS

THAI RESTAURANT

CHS AUBURN FACILITY

CHS MAIN BUILDING

CMW-19

CMW-15

CMW-8

CMW-20

CMW-23

CMW-32

CMW-17

CMW-21

CMW-31

CMW-5

HMW-9

CMW-18

HMW-10

CMW-12

CRW-2

HMW-11

CMW-6

CMW-13

CMW-27

WSADA

CMW-2

CMW-10

CRW-1

CMW-11

CMW-25

CMW-28

CMW-4

HMW-13

CMW-29

CMW-26

CMW-3

CMW-30

CMW-24

HMW-14

DRO	ORO	GRO	B	T	E	X
0.31	<0.42	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.46	<0.41	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
1.5	**0.77**	**1,500**	1.2	<1.0	<1.0	1.6

DRO	ORO	GRO	B	T	E	X
0.60	<0.40	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
1.6	0.48	**1,600**	1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.62	<0.41	240	1.1	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
2.7	**1.0**	**1,000**	<1.0	1.3	5.9	7.4

DRO	ORO	GRO	B	T	E	X
0.63	<0.41	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
1.5	**0.67**	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.81	**0.52**	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
0.33	<0.41	<100	<1.0	<1.0	<1.0	<2.0

DRO	ORO	GRO	B	T	E	X
<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0

LEGEND

CMW-25 CHS MONITORING WELL

CRW-2 CHS RECOVERY WELL

HMW-13 HILLMAN MONITORING WELL

NOTES:

ANALYTICAL UNITS FOR DRO AND ORO ARE IN MILLIGRAMS PER LITER.

ANALYTICAL UNITS FOR GRO AND BTEX ARE IN MICROGRAMS PER LITER

< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE PRACTICAL QUANTITATION LIMIT LISTED.

BOLD = INDICATES CONCENTRATION EXCEEDS WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION (MTCA) METHOD A CLEANUP LEVEL

DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS

GRO = TPH AS GASOLINE-RANGE ORGANICS

ORO = TPH AS OIL-RANGE ORGANICS

B = BENZENE T = TOLUENE

E = ETHYLBENZENE X = XYLENES

0 100

APPROXIMATE SCALE IN FEET

FIGURE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION

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FIGURE 4

JULY 2018 GROUNDWATER ANALYTICAL RESULTS
FOR DRO, GRO, ORO, AND BTEX
CHS AUBURN SITE
AUBURN, WASHINGTON

FARALLON PN: 301-004

Drawn By: GPF Checked By: JR Date: 01/11/2019 Disk Reference: 301-004

TABLES

JULY 2018 GROUNDWATER MONITORING REPORT
CHS Auburn Site
Auburn, Washington

Farallon PN: 301-004

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-2	88.9	6/16/2008	21.57	67.33
		9/30/2008	25.43	63.47
		12/29/2008	19.74	69.16
		3/18/2009	21.58	67.32
		10/27/2009	25.55	63.35
		1/28/2010	20.20	68.70
		4/19/2010	21.16	67.74
		7/19/2010	21.57	67.33
		10/20/2010	24.03	64.87
		1/24/2011	18.35	70.55
		4/25/2011	17.80	71.10
		7/18/2011	21.22	67.68
		10/20/2011	24.05	64.85
		4/26/2012	18.67	70.23
		10/31/2012	23.57	65.33
		4/22/2013	18.82	70.08
		10/22/2013	21.96	66.94
		4/23/2014	16.78	72.12
		10/28/2014	23.96	64.94
		4/22/2015	19.57	69.33
		11/23/2015	21.78	67.12
		5/4/2016	19.19	69.71
		11/29/2016	20.98	67.92
		7/12/2017	21.23	67.67
		1/17/2018	18.52	70.38
		7/31/2018	23.24	65.66
CMW-4	90.68	6/16/2008	23.17	67.51
		9/30/2008	27.19	63.49
		12/29/2008	24.36	66.32
		3/18/2009	23.23	67.45
		10/27/2009	27.25	63.43
		1/28/2010	21.81	68.87
		4/19/2010	22.78	67.90
		7/19/2010	23.21	67.47
		10/20/2010	25.67	65.01
		1/24/2011	20.00	70.68
		4/25/2011	19.45	71.23
		7/18/2011	22.94	67.74
		10/20/2011	25.70	64.98
		4/26/2012	20.35	70.33
		10/31/2012	25.21	65.47
		4/22/2013	20.61	70.07
		10/22/2013	23.60	67.08
		4/23/2014	18.48	72.20
		10/28/2014	25.55	65.13
		4/22/2015	21.18	69.50
		11/23/2015	23.29	67.39
		5/4/2016	20.59	70.09
		11/29/2016	22.60	68.08

Table 1
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CHS Auburn Site
Auburn, Washington
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Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-4	90.68	7/12/2017	22.60	68.08
		1/17/2018	20.08	70.60
		7/31/2018	25.60	65.08
CMW-5	89.44	6/16/2008	23.03	66.41
		9/30/2008	26.88	62.56
		12/29/2008	24.17	65.27
		3/18/2009	23.09	66.35
		10/27/2009	26.93	62.51
		1/28/2010	21.70	67.74
		4/19/2010	22.64	66.8
		7/19/2010	23.17	66.27
CMW-6	90.66	6/16/2008	dry	dry
		9/30/2008	dry	dry
		12/29/2008	dry	dry
		7/18/2011	23.78	66.88
		10/20/2011	dry	dry
		4/26/2012	21.20	69.46
		10/31/2012	dry	dry
		4/22/2013	21.44	69.22
		10/22/2013	24.43	66.23
		4/23/2014	19.32	71.34
		4/22/2015	22.05	68.61
		5/4/2016	21.73	68.93
		11/29/2016	23.42	67.24
		7/12/2017	23.72	66.94
		1/17/2018	20.94	69.72
		7/31/2018	dry	dry
CMW-7	87.73	6/16/2008	20.54	67.19
		9/30/2008	24.41	63.32
		12/29/2008	21.75	65.98
		3/18/2009	20.61	67.12
		4/19/2010	20.20	67.53
		1/24/2011	17.50	70.23
		4/25/2011	16.92	70.81
		7/18/2011	20.30	67.43
		10/20/2011	23.07	64.66
		4/26/2012	17.80	69.93
		10/31/2012	22.59	65.14
		4/22/2013	18.10	69.63
		10/22/2013	21.08	66.65
		4/23/2014	15.96	71.77
		10/28/2014	22.96	64.77
		4/22/2015	18.72	69.01

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-8	89.94	6/16/2008	23.58	66.36
		9/30/2008	27.40	62.54
		12/29/2008	24.70	65.24
		3/18/2009	23.61	66.33
		10/27/2009	27.50	62.44
		1/28/2010	22.25	67.69
		4/19/2010	23.23	66.71
		7/19/2010	23.69	66.25
		10/20/2010	26.00	63.94
		1/24/2011	20.32	69.62
		4/25/2011	19.91	70.03
		7/18/2011	23.35	66.59
		10/20/2011	26.04	63.90
		4/26/2012	20.79	69.15
		10/31/2012	25.58	64.36
		4/22/2013	21.05	68.89
		10/22/2013	23.97	65.97
		4/23/2014	18.97	70.97
		10/28/2014	25.86	64.08
		4/22/2015	21.65	68.29
		11/23/2015	23.61	66.33
		5/4/2016	21.29	68.65
		11/29/2016	23.02	66.92
		7/12/2017	23.26	66.68
		1/17/2018	20.55	69.39
		7/31/2018	25.31	64.63

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-10	NS	6/16/2008	22.42	NS
		9/30/2008	25.91	NS
		12/29/2008	23.20	NS
		3/18/2009	22.06	NS
		10/27/2009	26.05	NS
		1/28/2010	20.69	NS
		4/19/2010	21.64	NS
		7/19/2010	22.06	NS
		10/20/2010	24.50	NS
		1/24/2011	18.75	NS
		4/25/2011	18.25	NS
		7/18/2011	21.72	NS
		10/20/2011	24.51	NS
		4/26/2012	19.12	NS
		10/31/2012	24.02	NS
		4/22/2013	19.37	NS
		10/22/2013	22.43	NS
		4/23/2014	17.22	NS
		10/28/2014	24.38	NS
		4/22/2015	19.99	NS
		11/23/2015	22.18	NS
		5/4/2016	19.79	NS
		11/29/2016	21.40	NS
		7/12/2017	21.68	NS
		1/17/2018	18.80	NS
		7/31/2018	23.71	NS
CMW-11	NS	6/16/2008	22.36	NS
		9/30/2008	26.24	NS
		12/29/2008	23.54	NS
		3/18/2009	22.41	NS
		10/27/2009	26.42	NS
		1/28/2010	21.02	NS
		4/19/2010	22.00	NS
		7/19/2010	22.43	NS
		10/20/2010	24.88	NS
		1/24/2011	19.20	NS
		4/25/2011	18.66	NS
		7/18/2011	22.11	NS
		10/20/2011	24.87	NS

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
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Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-12	90.02	6/16/2008	23.11	66.91
		9/30/2008	26.98	63.04
		12/29/2008	24.28	65.74
		3/18/2009	23.16	66.86
		10/27/2009	27.13	62.89
		1/28/2010	21.79	68.23
		4/19/2010	22.75	67.27
		7/19/2010	23.21	66.81
		10/20/2010	25.57	64.45
		1/24/2011	19.94	70.08
		4/25/2011	19.43	70.59
		7/18/2011	22.87	67.15
		10/20/2011	25.62	64.40
		4/26/2012	20.29	69.73
		10/31/2012	25.09	64.93
		4/22/2013	20.58	69.44
		10/22/2013	23.54	66.48
		4/23/2014	18.43	71.59
		10/28/2014	25.52	64.50
		4/22/2015	21.18	68.84
		11/23/2015	23.24	66.78
		5/4/2016	20.81	69.21
		11/29/2016	22.57	67.45
		7/12/2017	22.78	67.24
		1/17/2018	20.12	69.90
		7/31/2018	25.84	64.18

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
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Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-13	89.67	6/16/2008	22.69	66.98
		9/30/2008	26.57	63.10
		12/29/2008	23.85	65.82
		3/18/2009	22.74	66.93
		10/27/2009	26.71	62.96
		1/28/2010	21.35	68.32
		4/19/2010	22.27	67.40
		7/19/2010	22.75	66.92
		10/20/2010	25.16	64.51
		1/24/2011	19.50	70.17
		4/25/2011	18.97	70.70
		7/18/2011	22.45	67.22
		10/20/2011	25.20	64.47
		4/26/2012	19.85	69.82
		10/31/2012	24.69	64.98
		4/22/2013	20.13	69.54
		10/22/2013	23.10	66.57
		4/23/2014	17.98	71.69
		10/28/2014	25.08	64.59
		4/22/2015	20.72	68.95
		11/23/2015	22.81	66.86
		5/4/2016	20.41	69.26
		11/29/2016	22.11	67.56
		7/12/2017	22.38	67.29
		1/17/2018	19.63	70.04
		7/31/2018	22.48[3]	67.19[3]

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-15	87.22	6/16/2008	20.76	66.46
		9/30/2008	24.58	62.64
		12/29/2008	21.89	65.33
		3/18/2009	20.79	66.43
		10/27/2009	24.69	62.53
		1/28/2010	19.45	67.77
		4/19/2010	20.36	66.86
		7/19/2010	20.86	66.36
		10/20/2010	23.17	64.05
		1/24/2011	17.58	69.64
		4/25/2011	17.12	70.10
		7/18/2011	20.46	66.76
		10/20/2011	23.25	63.97
		4/26/2012	17.96	69.26
		10/31/2012	22.75	64.47
		4/22/2013	18.24	68.98
		10/22/2013	21.23	65.99
		4/23/2014	16.16	71.06
		10/28/2014	23.05	64.17
		4/22/2015	18.78	68.44
		11/23/2015	20.87	66.35
		5/4/2016	18.47	68.75
		11/29/2016	20.25	66.97
		7/12/2017	20.42	66.80
		1/17/2018	17.78	69.44
		7/31/2018	22.53	64.69
CMW-17	88.16	6/16/2008	21.94	66.22
		9/30/2008	25.79	62.37
		12/29/2008	23.08	65.08
		3/18/2009	22.01	66.15
		1/28/2010	20.60	67.56
		4/19/2010	21.58	66.58
	NS	7/19/2010	22.07	NS
		4/25/2011	18.00	NS
		7/18/2011	21.42	NS
		10/20/2011	24.13	NS
CMW-19	88.26	9/30/2008	25.73	62.53
CMW-20	85.90	6/16/2008	21.11	64.79
		9/30/2008	23.91	61.99
		12/29/2008	21.23	64.67
		3/18/2009	20.17	65.73
CMW-21	87.48	9/30/2008	25.33	62.15

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Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-24	88.39	6/16/2008	20.60	67.79
		9/30/2008	24.52	63.87
		12/29/2008	21.81	66.58
		3/18/2009	20.65	67.74
		6/16/2008	22.02	66.37
		1/24/2011	17.42	70.97
		4/25/2011	16.89	71.50
		7/18/2011	20.31	68.08
		10/20/2011	23.09	65.30
CMW-25	NS	9/30/2008	25.86	NS
		12/29/2008	23.18	NS
		3/18/2009	22.03	NS
		10/27/2009	26.03	NS
		1/28/2010	20.64	NS
		4/19/2010	21.59	NS
		7/19/2010	22.00	NS
		10/20/2010	24.45	NS
		1/24/2011	18.85	NS
		4/25/2011	18.28	NS
		7/18/2011	21.71	NS
		10/20/2011	24.49	NS
		4/26/2012	19.13	NS
		10/31/2012	24.00	NS
		4/22/2013	19.42	NS
		10/22/2013	22.42	NS
		4/23/2014	17.27	NS
		10/28/2014	24.40	NS
		4/22/2015	19.95	NS
		11/23/2015	22.25	NS
		5/4/2016	19.65	NS
		11/29/2016	21.42	NS
		7/12/2017	21.62	NS
		1/17/2018	18.96	NS
		7/31/2018	23.64	NS

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CHS Auburn Site
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Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-26	87.80	6/16/2008	20.32	67.48
		9/30/2008	24.22	63.58
		12/29/2008	21.48	66.32
		3/18/2009	20.34	67.46
		10/27/2009	24.35	63.45
		1/28/2010	18.95	68.85
		4/19/2010	19.88	67.92
		7/19/2010	20.35	67.45
		10/20/2010	22.80	65.00
		1/24/2011	17.15	70.65
		4/25/2011	16.59	71.21
		7/18/2011	20.03	67.77
		10/20/2011	22.80	65.00
		4/26/2012	17.45	70.35
		10/31/2012	22.32	65.48
		4/22/2013	17.72	70.08
		10/22/2013	20.73	67.07
		4/23/2014	15.62	72.18
		10/28/2014	22.74	65.06
		4/22/2015	18.30	69.50
		11/23/2015	20.53	67.27
		5/4/2016	18.01	69.79
		11/29/2016	19.71	68.09
		7/12/2017	20.01	67.79
		1/17/2018	17.31	70.49
		7/31/2018	21.97	65.83

Table 1
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Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-27	89.10	6/16/2008	21.02	68.08
		9/30/2008	25.89	63.21
		12/29/2008	23.18	65.92
		3/18/2009	22.22	66.88
		10/27/2009	26.09	63.01
		1/28/2010	20.69	68.41
		4/19/2010	21.61	67.49
		7/19/2010	22.06	67.04
		10/20/2010	24.45	64.65
		1/24/2011	18.80	70.30
		4/25/2011	18.30	70.80
		7/18/2011	21.97	67.13
		10/20/2011	24.50	64.60
		4/26/2012	19.70	69.40
		10/31/2012	24.05	65.05
		4/22/2013	19.28	69.82
		10/22/2013	22.44	66.66
		4/23/2014	17.21	71.89
		10/28/2014	24.44	64.66
		4/22/2015	19.97	69.13
		11/23/2015	22.21	66.89
		5/4/2016	19.58	69.52
		11/29/2016	21.45	67.65
		7/12/2017	21.69	67.41
		1/17/2018	18.79	70.31
		7/31/2018	23.70	65.40

Table 1
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Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-28	89.48	6/16/2008	22.22	67.26
		9/30/2008	26.15	63.33
		12/29/2008	23.19	66.29
		3/18/2009	22.14	67.34
		10/27/2009	26.19	63.29
		1/28/2010	20.86	68.62
		4/19/2010	21.84	67.64
		7/19/2010	22.26	67.22
		10/20/2010	24.68	64.80
		1/24/2011	19.00	70.48
		4/25/2011	18.40	71.08
		7/18/2011	21.90	67.58
		10/20/2011	24.82	64.66
		4/26/2012	19.30	70.18
		10/31/2012	23.45	66.03
		4/22/2013	19.58	69.90
		10/22/2013	22.62	66.86
		4/23/2014	17.49	71.99
		10/28/2014	24.67	64.81
		4/22/2015	20.22	69.26
		11/23/2015	22.42	67.06
		5/4/2016	19.89	69.59
		11/29/2016	21.63	67.85
		7/12/2017	21.88	67.60
		1/17/2018	19.13	70.35
		7/31/2018	23.89	65.59

Table 1
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Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-29	88.03	6/16/2008	20.51	67.52
		9/30/2008	24.44	63.59
		12/29/2008	21.71	66.32
		3/18/2009	20.56	67.47
		10/27/2009	24.56	63.47
		1/28/2010	19.15	68.88
		4/19/2010	20.12	67.91
		7/19/2010	20.55	67.48
		10/20/2010	23.02	65.01
		1/24/2011	17.35	70.68
		4/25/2011	16.81	71.22
		7/18/2011	20.20	67.83
		10/20/2011	23.02	65.01
		4/26/2012	17.67	70.36
		10/31/2012	22.54	65.49
		4/22/2013	17.94	70.09
		10/22/2013	20.93	67.10
		4/23/2014	15.85	72.18
		10/28/2014	22.96	65.07
		4/22/2015	18.52	69.51
		11/23/2015	20.78	67.25
		5/4/2016	18.20	69.83
		11/29/2016	19.91	68.12
		7/12/2017	20.18	67.85
		1/17/2018	17.48	70.55
		7/31/2018	22.19	65.84

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-30	87.58	6/16/2008	19.90	67.68
		9/30/2008	23.82	63.76
		12/29/2008	21.11	66.47
		3/18/2009	20.97	66.61
		10/27/2009	24.01	63.57
		1/28/2010	18.57	69.01
		4/19/2010	19.51	68.07
		7/19/2010	19.93	67.65
		10/20/2010	22.40	65.18
		1/24/2011	16.78	70.80
		4/25/2011	16.19	71.39
		7/18/2011	19.60	67.98
		10/20/2011	22.40	65.18
		4/26/2012	17.05	70.53
		10/31/2012	21.94	65.64
		4/22/2013	17.34	70.24
		10/22/2013	20.32	67.26
		4/23/2014	15.22	72.36
		10/28/2014	22.35	65.23
		4/22/2015	17.86	69.72
		11/23/2015	20.16	67.42
		5/4/2016	17.60	69.98
		11/29/2016	19.28	68.30
		7/12/2017	19.55	68.03
		1/17/2018	16.82	70.76
		7/31/2018	21.52	66.06

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-31	89.02	6/16/2008	22.59	66.43
		9/30/2008	26.45	62.57
		12/29/2008	23.73	65.29
		3/18/2009	22.65	66.37
		10/27/2009	26.56	62.46
		1/28/2010	21.24	67.78
		4/19/2010	22.26	66.76
		7/19/2010	22.67	66.35
		10/20/2010	24.97	64.05
		1/24/2011	19.27	69.75
		4/25/2011	18.86	70.16
		7/18/2011	22.31	66.71
		10/20/2011	25.04	63.98
		4/26/2012	19.73	69.29
		10/31/2012	24.56	64.46
		4/22/2013	19.99	69.03
		10/22/2013	22.96	66.06
		4/23/2014	17.90	71.12
		10/28/2014	24.90	64.12
		4/22/2015	20.54	68.48
		11/23/2015	22.55	66.47
		5/4/2016	20.21	68.81
		11/29/2016	21.98	67.04
		7/12/2017	22.23	66.79
		1/17/2018	19.49	69.53
		7/31/2018	24.32	64.70

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
CMW-32	88.12	6/16/2008	21.75	66.37
		9/30/2008	25.61	62.51
		12/29/2008	22.90	65.22
		3/18/2009	21.82	66.30
		10/27/2009	25.72	62.40
		1/28/2010	20.40	67.72
		4/19/2010	21.39	66.73
	NS	7/19/2010	21.88	NS
		1/24/2011	18.47	NS
		4/25/2011	18.04	NS
		7/18/2011	21.45	NS
		10/20/2011	24.22	NS
HMW-9	89.07	6/16/2008	22.49	66.58
		9/30/2008	26.34	62.73
		12/29/2008	23.64	65.43
		3/18/2009	22.53	66.54
		10/27/2009	26.42	62.65
		1/28/2010	21.15	67.92
		4/19/2010	22.13	66.94
		7/19/2010	22.59	66.48
		10/20/2010	24.91	64.16
		1/24/2011	19.30	69.77
		4/25/2011	18.43	70.64
		7/18/2011	22.25	66.82
		10/20/2011	24.96	64.11
		4/26/2012	19.70	69.37
		10/31/2012	24.48	64.59
		4/22/2013	19.93	69.14
		10/22/2013	22.85	66.22
		4/23/2014	17.85	71.22
		10/28/2014	24.84	64.23
		4/22/2015	20.54	68.53
		11/23/2015	22.57	66.50
		5/4/2016	20.22	68.85
		11/29/2016	21.94	67.13
		7/12/2017	22.18	66.89
		1/17/2018	19.47	69.60
		7/31/2018	24.25	64.82

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
HMW-10	89.18	6/16/2008	22.42	66.76
		9/30/2008	26.24	62.94
		12/29/2008	23.57	65.61
		3/18/2009	22.45	66.73
		10/27/2009	26.40	62.78
		1/28/2010	21.19	67.99
		4/19/2010	21.99	67.19
		7/19/2010	22.51	66.67
		10/20/2010	24.85	64.33
		1/24/2011	19.23	69.95
		4/25/2011	18.73	70.45
		7/18/2011	22.15	67.03
		10/20/2011	24.90	64.28
		4/26/2012	19.60	69.58
		10/31/2012	24.39	64.79
		4/22/2013	19.88	69.30
		10/22/2013	22.83	66.35
		4/23/2014	17.72	71.46
		10/28/2014	24.75	64.43
		4/22/2015	20.41	68.77
		11/23/2015	22.56	66.62
		5/4/2016	20.10	69.08
		11/29/2016	21.88	67.30
		7/12/2017	22.09	67.09
		1/17/2018	19.40	69.78
		7/31/2018	24.13	65.05
HMW-11	NS	10/27/2009	24.52	NS
		1/28/2010	19.20	NS
		4/19/2010	20.16	NS
		7/19/2010	20.64	NS
		10/20/2010	22.99	NS
		1/24/2011	17.33	NS
		4/25/2011	16.83	NS
		7/18/2011	20.30	NS
		10/20/2011	23.02	NS
		4/26/2012	17.70	NS
		10/31/2012	22.51	NS
		4/22/2013	17.99	NS
		10/22/2013	20.98	NS
		4/23/2014	15.83	NS
		10/28/2014	22.92	NS
		4/22/2015	18.56	NS
		11/23/2015	20.68	NS
		5/4/2016	18.22	NS
		11/29/2016	19.96	NS
		7/12/2017	20.21	NS
		1/17/2018	17.51	NS
		7/31/2018	22.27	NS

Table 1
Summary of Groundwater Elevation Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Elevation Top of Well Casing (feet)[1]	Measurement Date	Depth to Water (feet)[2]	Elevation (feet)[1]
HMW-12	88.55	9/30/2008	25.53	63.02
		1/24/2011	18.55	70.00
		4/25/2011	18.00	70.55
		7/18/2011	21.40	67.15
HMW-13	88.32	6/16/2008	20.82	67.50
		9/30/2008	24.72	63.60
		12/29/2008	22.06	66.26
		3/18/2009	20.86	67.46
		10/27/2009	24.92	63.40
		1/28/2010	19.50	68.82
		4/19/2010	20.39	67.93
		7/19/2010	20.83	67.49
		10/20/2010	23.36	64.96
		1/24/2011	17.71	70.61
		4/25/2011	17.25	71.07
		7/18/2011	20.51	67.81
		10/20/2011	23.34	64.98
		4/26/2012	18.03	70.29
		10/31/2012	22.89	65.43
		4/22/2013	18.29	70.03
		10/22/2013	21.28	67.04
		4/23/2014	16.18	72.14
		10/28/2014	23.32	65.00
		4/22/2015	18.82	69.50
		11/23/2015	21.11	67.21
		5/4/2016	18.51	69.81
		11/29/2016	20.28	68.04
		7/12/2017	16.17[4]	72.15[4]
		1/17/2018	17.82	70.50
		7/31/2018	22.51	65.81

NOTES:
[1]Elevation in feet above mean sea level.
[2]Depth to water in feet below the top of the well casing.
[3]Depth to water measurement appears to be erroneous; depth to water measured during sampling on July 31, 2018 was 24.45 feet below the top of the well casing.
[4]Depth to water measurement appears to be erroneous; depth to water measured during sampling on July 13, 2017 was 20.56 feet below the top of the well casing.
NS = well not surveyed; groundwater elevation could not be determined.

Table 2
Summary of Groundwater Geochemical Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-2	6/16/2008	13.72	6.02	54.5	0.16
	10/1/2008	16.36	6.26	44.7	0.53
	12/30/2008	10.81	7.12	97.1	11.29
	3/19/2009	12.37	6.18	39	0.71
	10/28/2009	13.62	6.43	-28.6	1.49
	1/26/2010	14.29	6.68	124.6	9.33
	4/20/2010	14.23	6.79	64.9	8.9
	7/20/2010	15.32	—[3]	42.5	10.5
	10/21/2010	15.61	6.04	149.8	7.9
	1/25/2011	13.79	6.81	134.1	9.7
	4/27/2011	12.5	5.89	309.2	5.2
	7/18/2011	15.73	5.88	14.5	4.0
	10/21/2011	13.59	7.06	32.7	8.7
	4/27/2012	13.18	6.80	10.8	8.8
	10/31/2012	14.58	7.15	5.8	5.76
	4/22/2013	13.13	7.60	160.3	6.33
	10/23/2013	13.40	6.92	166.8	6.54
	4/24/2014	16.48	6.47	124	5.55
	10/29/2014	19.47	6.84	17	5.79
	4/23/2015	13.77	6.38	190	4.80
	11/23/2015	—	—	—	4.95
	5/4/2016	14.71	7.08	84.7	9.60
	11/29/2016	14.7	6.73	130.5	8.01
	7/13/2017	14.6	5.77	238.1	1.85
	1/18/2018	13.5	6.03	252.3	1.15
	7/31/2018	15.5	6.14	164.0	0.47

Table 2
Summary of Groundwater Geochemical Data – June 2008 through July 2018
CHS Auburn Site
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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-4	6/16/2008	15.34	6.08	138.3	4.43
	10/1/2008	17.96	6.04	209.6	3.13
	12/30/2008	11.47	6.35	124.9	4.74
	3/19/2009	12.72	6.18	203.8	3.95
	10/28/2009	12.03	6.26	351.0	5.40
	1/26/2010	12.89	6.12	365.1	4.30
	4/19/2010	14.15	6.36	284.4	4.8
	7/20/2010	15.20	5.98	111.3	4.1
	10/21/2010	14.47	5.61	210.1	3.05
	1/25/2011	12.59	6.23	170.9	5.1
	4/26/2011	14.02	6.07	168.5	4.1
	7/18/2011	13.39	6.05	17.6	3.4
	10/20/2011	15.15	6.78	23.8	2.43
	4/26/2012	—	—	—	6.1
	10/31/2012	—	—	—	4.75
	4/22/2013	—	—	—	2.60
	10/22/2013	—	—	—	4.85
	4/23/2014	—	—	—	3.32
	10/28/2014	—	—	—	1.55
	4/22/2015	—	—	—	2.14
	11/23/2015	13.16	—[3]	329.0	2.14
	5/4/2016	—	—	—	4.95
	11/29/2016	—	—	—	4.00
	7/12/2017				3.98
	1/17/2018	—	—	—	4.52
	7/31/2018	—	—	—	—
CMW-6	4/26/2012	—	—	—	2.65
	4/22/2013	—	—	—	3.93
	10/22/2013	—	—	—	0.67
	4/23/2014	—	—	—	2.17
	4/22/2015	—	—	—	1.79
	11/23/2015	—	—	—	—
	5/4/2016	—	—	—	4.48
	11/29/2016	—	—	—	1.87
	7/12/2017	—	—	—	1.85
	1/17/2018	—	—	—	4.09
	7/31/2018	—	—	—	—

Table 2
Summary of Groundwater Geochemical Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-7	6/17/2008	13.45	6.35	50.9	5.08
	10/1/2008	14.51	6.14	47.2	4.51
	12/30/2008	11.53	6.50	72.1	4.82
	3/19/2009	10.72	6.39	161.0	5.19
	1/24/2011	—	—	—	5.2
	4/25/2011	—	—	—	4.6
	7/18/2011	—	—	—	3.60
	4/27/2012	11.12	5.96	104.3	3.90
	10/31/2012	12.80	6.19	304.6	2.75
	4/22/2013	12.88	6.48	207.0	2.98
	10/22/2013	12.39	6.02	204.5	5.14
	4/23/2014	14.81	6.06	119.0	2.70
	10/28/2014	16.38	5.91	147	2.40
	4/23/2015	12.01	6.14	149.7	2.53
CMW-8	6/17/2008	15.90	6.51	9.5	0.17
	10/2/2008	13.92	6.30	132.3	0.64
	12/30/2008	10.64	6.60	68.2	0.66
	3/19/2009	10.39	6.51	30	0.72
	10/29/2009	12.09	6.48	31.3	1.18
	1/26/2010	12.37	6.45	-4.8	0.12
	4/20/2010	13.68	6.49	24.6	1.06
	7/20/2010	16.18	—[3]	25.4	0.98
	10/22/2010	12.97	6.02	122.9	1.90
	1/24/2011	11.73	6.42	13.9	0.30
	4/27/2011	11.30	6.32	288.0	<0.1
	7/19/2011	14.22	6.41	-39.1	1.1
	10/21/2011	13.96	6.48	69.0	0.61
	4/26/2012	11.33	7.93	-24.9	0.34
	10/31/2012	13.05	6.39	31.6	0.85
	4/22/2013	12.28	6.77	49.7	0.14
	10/23/2013	12.12	6.39	21.3	3.10
	4/23/2014	14.60	6.68	-40.0	2.63
	10/28/2014	13.75	6.44	-33.5	3.96
	4/23/2015	14.30	5.99	31	0.04
	11/23/2015	12.37	6.16	-93.2	0.51
	5/4/2016	13.88	6.05	-209.9	0.65
	11/29/2016	12.90	6.38	-23.7	0.28
	7/12/2017	17.60	6.09	25.3	0.16
	1/18/2018	12.0	6.66	-14.3	0.29
	8/1/2018	14.5	6.33	-32.3	0.52

Table 2
Summary of Groundwater Geochemical Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-10	6/17/2008	15.86	6.13	-183.3	0.16
	10/1/2008	16.98	6.26	27.1	0.48
	12/30/2008	12.55	6.24	-1.8	0.68
	3/19/2009	12.75	6.25	-41	0.64
	10/28/2009	14.15	6.32	-1.6	1.16
	1/26/2010	14.24	5.90	53.4	0.19
	4/20/2010	14.70	6.05	-12.3	0.61
	7/20/2010	17.97	—[3]	-33.0	0.55
	10/21/2010	15.23	5.68	125.3	1.32
	1/25/2011	14.44	5.74	155.3	0.35
	4/26/2011	3.13	—[4]	100.7	0.18
	7/18/2011	14.85	6.01	-80.5	0.07
	10/21/2011	13.62	7.59	-140.3	0.74
	4/26/2012	12.38	6.02	89.1	2.3
	10/31/2012	14.29	6.32	49.1	0.07
	4/22/2013	13.90	6.81	187.3	3.52
	10/23/2013	13.65	5.56	192.0	6.31
	4/24/2014	16.89	5.89	48.0	3.53
	10/29/2014	19.79	6.10	-9	0.04
	4/22/2015	15.62	6.47	150.5	1.83
	11/23/2015	14.44	—[3]	141	0.55
	5/4/2016	15.83	6.23	-116.7	3.62
	11/30/2016	14.80	6.26	124.7	1.48
	7/12/2017	15.20	5.96	88.4	0.18
	1/18/2018	13.4	6.12	194.4	0.70
	8/1/2018	14.9	6.12	-40.1	0.26

Table 2
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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-12	6/17/2008	14.76	6.37	-125.3	0.62
	10/1/2008	15.77	6.23	-9.8	0.54
	12/30/2008	12.22	6.53	54.9	1.29
	3/19/2009	12.55	6.42	-12	0.53
	10/28/2009	13.05	6.42	-1.7	1.36
	1/26/2010	12.78	6.36	-89.9	1.10
	4/20/2010	14.51	6.46	66.9	0.42
	7/21/2010	15.16	6.09	9.1	0.14
	10/21/2010	13.63	6.40	105.6	0.12
	1/25/2011	12.79	6.04	28.2	0.30
	4/26/2011	15.60	6.12	14.6	<0.1
	7/19/2011	13.59	6.28	-67.2	0.37
	10/21/2011	13.37	8.00	-161.3	0.09
	4/26/2012	12.94	9.10	-123.8	0.57
	11/1/2012	13.79	6.22	-144.3	0.36
	4/22/2013	14.04	6.09	-12.1	1.62
	10/23/2013	13.32	6.22	-54.2	0.25
	4/24/2014	15.30	6.36	-169.0	0.05
	10/29/2014	14.80	6.34	-89.2	0.08
	4/23/2015	14.53	6.20	9.2	0.04
	11/23/2015	12.37	6.14	-230.8	0.3
	5/4/2016	16.08	6.16	-242.9	0.13
	11/30/2016	12.8	6.35	14.3	0.29
	7/13/2017	17.8	6.17	-20.6	0.18
	1/18/2018	12.8	6.46	-47.0	0.18
	8/1/2018	15.8	6.19	-22.5	0.41

Table 2
Summary of Groundwater Geochemical Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-13	6/17/2008	14.03	6.23	82.2	0.17
	10/1/2008	14.44	6.19	91.8	0.43
	12/30/2008	13.05	5.79	141.0	1.07
	3/19/2009	12.81	5.98	50.4	0.68
	10/29/2009	12.80	6.45	-14.8	1.43
	1/26/2010	13.79	5.81	56.4	0.25
	4/20/2010	14.30	6.40	72.1	2.19
	7/20/2010	20.00	5.79	-18.9	0.22
	10/21/2010	14.32	6.43	111.3	0.63
	1/25/2011	13.64	6.27	154.1	7.70
	4/27/2011	11.90	6.23	377.2	3.41
	7/18/2011	13.17	6.27	-33.1	1.30
	10/20/2011	14.09	6.29	46.9	0.06
	4/26/2012	11.61	7.52	-41.0	1.33
	10/31/2012	13.33	5.81	-52.0	1.97
	4/22/2013	20.11	3.16	120.0	0.17
	10/22/2013	14.65	5.53	73.8	5.55
	4/24/2014	12.67	6.41	186.0	1.62
	10/28/2014	14.59	6.22	-64.9	0.66
	4/23/2015	13.72	5.69	96.6	0.11
	11/23/2015	13.57	5.88	-10.3	0.35
	5/4/2016	14.13	5.98	11.8	0.95
	11/30/2016	13.1	5.99	18.8	0.63
	7/12/2017	15.5	5.92	89.1	0.21
	1/18/2018	13.1	6.30	107.2	1.25
	7/31/2018	15.9	6.18	-40.3	0.26

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-15	6/17/2008	12.46	6.37	46.7	0.17
	10/2/2008	13.07	6.21	65.1	0.90
	12/30/2008	11.56	6.40	83.1	0.70
	3/19/2009	10.81	6.26	61	1.61
	10/29/2009	11.84	6.30	58.6	1.66
	1/26/2010	12.29	6.23	35.4	0.15
	4/20/2010	12.64	6.45	127.6	0.92
	7/20/2010	14.46	—[3]	33.1	0.75
	10/22/2010	13.35	5.59	167.5	0.65
	1/25/2011	12.27	5.68	387.6	0.35
	4/27/2011	10.96	6.19	336.0	0.11
	7/19/2011	12.94	6.21	14.0	0.10
	10/21/2011	12.56	6.24	87.4	0.17
	4/26/2012	—	—	—	0.08
	10/31/2012	—	—	—	0.25
	4/22/2013	—	—	—	0.19
	10/22/2013	—	—	—	2.41
	4/23/2014	—	—	—	0.07
	10/28/2014	—	—	—	2.64
	4/22/2015	—	—	—	0.04
	11/23/2015	—	—	—	0.60
	5/4/2016	—	—	—	0.70
	11/29/2016	—	—	—	0.43
	7/12/2017	—	—	—	0.16
	1/17/2018	—	—	—	0.37
	7/31/2018	—	—	—	—

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-25	6/16/2008	16.57	5.97	160.7	4.80
	10/1/2008	14.32	6.15	49.9	0.53
	12/30/2008	12.08	6.04	135.3	3.70
	3/19/2009	12.68	6.03	91.3	0.75
	10/28/2009	12.45	6.32	42.7	1.47
	1/26/2010	13.42	5.89	358.1	5.10
	4/20/2010	13.35	6.25	262.4	7.3
	7/20/2010	15.47	5.23	105.7	6.3
	10/21/2010	13.14	6.14	223.9	0.18
	1/25/2011	13.12	5.94	174.9	7.1
	4/26/2011	11.94	5.88	184.2	4.5
	7/18/2011	13.68	6.07	17.9	4.1
	10/21/2011	12.80	6.14	154.7	0.73
	4/27/2012	12.25	6.60	15.7	4.5
	10/31/2012	12.67	6.36	88.8	0.12
	4/22/2013	13.64	6.23	193.8	2.68
	10/22/2013	12.69	6.01	189.3	5.64
	4/23/2014	17.12	5.85	108	2.80
	10/28/2014	17.47	5.72	96	0.38
	4/23/2015	12.86	5.67	164.7	2.08
	11/23/2015	12.34	—[3]	195	1.62
	5/4/2016	13.24	5.64	139.6	3.44
	11/29/2016	14.0	5.94	144.9	5.57
	7/12/2017	14.1	5.75	213.2	2.27
	1/18/2018	12.7	6.14	269.4	4.68
	7/31/2018	16.3	6.03	88.5	0.75

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-26	6/16/2008	15.32	6.29	111.7	3.79
	10/1/2008	14.09	6.14	84.7	4.47
	12/30/2008	11.84	6.30	203.4	3.71
	3/19/2009	11.88	6.32	170.1	4.75
	10/28/2009	12.16	6.31	344.2	4.08
	1/26/2010	12.46	6.16	352.9	3.90
	4/20/2010	13.14	6.49	272.0	4.30
	7/20/2010	14.40	6.03	92.8	4.10
	10/21/2010	12.30	6.37	186.8	4.00
	1/25/2011	11.97	6.30	169.9	5.60
	4/26/2011	13.07	6.20	108.6	4.90
	7/18/2011	13.77	6.32	38.8	3.65
	10/20/2011	12.93	6.61	27.8	3.51
	4/27/2012	11.33	6.04	104.2	4.7
	10/31/2012	12.61	5.70	323.0	2.52
	4/22/2013	13.54	6.49	242.1	2.56
	10/22/2013	12.50	6.08	239.7	2.15
	4/24/2014	15.12	6.11	131.0	0.10
	10/29/2014	15.03	5.54	250	1.83
	4/22/2015	15.64	6.03	141.9	1.64
	11/23/2015	12.33	—[3]	294	1.83
	5/4/2016	14.01	5.72	72.3	5.80
	11/30/2016	11.00	6.21	149.5	3.94
	7/12/2017	14.50	6.13	210.1	4.34
	1/18/2018	10.7	6.44	233.6	4.04
	8/1/2018	16.0	6.22	160.6	4.32

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-27	6/17/2008	16.53	6.44	-12.4	0.17
	10/1/2008	15.53	6.26	10.3	0.51
	12/30/2008	13.08	6.59	70.2	0.64
	3/19/2009	12.39	6.46	-48	0.58
	10/28/2009	13.58	6.48	-29.1	1.45
	1/26/2010	13.80	6.39	-132.2	5.17
	4/20/2010	14.35	6.47	-34.6	0.53
	7/21/2010	15.16	—[3]	-14.5	0.87
	10/21/2010	14.97	6.50	95.1	0.12
	1/25/2011	14.35	6.18	154.9	4.90
	4/26/2011	13.4	—[4]	75.6	0.26
	7/18/2011	15.45	6.01	-51.9	0.15
	10/21/2011	13.62	7.69	-144.9	0.00
	4/27/2012	12.78	5.19	-81.3	1.51
	10/31/2012	14.22	6.35	-126.7	0.06
	4/22/2013	13.70	6.07	3.6	0.19
	10/23/2013	14.00	5.99	6.8	1.59
	4/24/2014	14.22	6.54	16	2.09
	10/29/2014	15.30	6.24	-94.3	0.05
	4/23/2015	14.79	6.03	-17.3	0.22
	11/23/2015	14.34	6.09	-256.0	0.07
	5/4/2016	16.55	6.13	-56.4	0.38
	11/30/2016	14.2	6.14	-3.4	0.38
	7/13/2017	16.0	6.17	-86.4	0.08
	1/18/2018	14.0	6.12	155.5	0.44
	8/1/2018	16.0	6.05	-26.7	0.21

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-28	6/16/2008	15.93	6.31	-19.7	0.16
	10/1/2008	18.34	5.98	46.2	0.50
	12/30/2008	6.96	6.16	44.0	0.81
	3/19/2009	9.11	6.15	167.5	3.40
	10/28/2009	14.97	5.59	179.3	1.36
	1/26/2010	8.89	5.86	176.7	8.33
	4/20/2010	11.37	5.96	307.3	6.4
	7/20/2010	16.44	—[3]	36.8	0.36
	10/21/2010	17.04	5.77	194.1	<0.1
	1/25/2011	7.05	5.74	165.3	9.91
	4/26/2011	10.54	5.92	361.8	7.60
	7/18/2011	16.69	5.66	5.2	5.0
	10/20/2011	14.46	5.61	7.9	0.32
	4/27/2012	9.92	5.73	80.2	8.3
	11/1/2012	15.34	5.94	93.8	1.51
	4/22/2013	11.73	6.21	183.3	5.92
	10/23/2013	14.78	5.46	170.3	6.07
	4/24/2014	16.25	5.84	137.0	5.29
	10/29/2014	19.56	4.97	279	5.02
	4/22/2015	15.37	5.61	172	4.54
	11/23/2015	13.46	—[3]	229	1.38
	5/4/2016	13.79	5.37	-99.1	4.10
	11/30/2016	14.0	6.14	146.0	7.97
	7/12/2017	15.9	5.80	130.2	0.46
	1/18/2018	9.3	6.17	204.4	2.04
	8/1/2018	15.2	5.98	44.9	0.52

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-29	6/17/2008	14.81	6.06	34.5	0.21
	10/1/2008	13.76	6.27	32.9	0.64
	12/30/2008	11.63	6.22	15.8	1.04
	3/19/2009	11.73	6.04	98.1	1.24
	10/28/2009	12.22	6.26	77.3	1.57
	1/27/2010	12.44	5.38	205.5	1.25
	4/20/2010	13.74	6.32	226.3	6.0
	7/20/2010	13.59	5.75	74.6	0.54
	10/21/2010	12.17	5.74	59.8	1.94
	1/25/2011	13.20	5.93	109.5	2.19
	4/26/2011	12.13	5.93	135.7	1.15
	7/18/2011	13.54	5.97	-4.9	1.55
	10/20/2011	13.00	6.46	21.9	1.08
	4/26/2012	12.80	8.53	-47.0	0.63
	10/31/2012	12.88	6.11	333.1	0.11
	4/22/2013	12.98	6.27	175.4	0.20
	10/22/2013	13.12	5.85	162.5	0.36
	4/23/2014	15.54	5.97	-60.0	0.06
	10/28/2014	16.59	5.80	131.0	0.17
	4/22/2015	15.42	5.65	166.3	0.12
	11/23/2015	12.88	—[3]	183	0.82
	5/4/2016	14.14	6.02	85.9	0.70
	11/30/2016	13.1	5.84	282.0	2.82
	7/12/2017	14.4	5.56	145.8	0.23
	1/17/2018	11.9	6.15	109.6	0.55
	7/31/2018	16.7	6.07	43.2	0.41

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-30	3/19/2009	11.65	6.27	191.0	1.14
	10/28/2009	11.99	6.18	344.2	1.96
	1/27/2010	12.35	5.99	313.2	1.21
	4/20/2010	13.35	6.36	299.9	0.14
	7/20/2010	13.92	5.58	140.7	0.06
	10/21/2010	13.10	5.70	196.6	0.08
	1/25/2011	12.89	6.17	130.0	1.01
	4/26/2011	12.05	6.05	57.8	1.03
	7/19/2011	13.27	6.30	-1.0	0.05
	10/20/2011	13.24	6.51	22.2	0.00
	4/26/2012	—	—	—	0.35
	10/31/2012	—	—	—	1.15
	4/22/2013	—	—	—	0.06
	10/22/2013	—	—	—	0.06
	4/23/2014	—	—	—	0.56
	10/28/2014	—	—	—	0.06
	4/22/2015	—	—	—	0.04
	11/23/2015	—	—	—	0.38
	5/4/2016	—	—	—	0.24
	11/29/2016	—	—	—	0.32
	7/12/2017	—	—	—	0.22
	1/17/2018	—	—	—	1.11
	7/31/2018	—	—	—	—

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
CMW-31	6/16/2008	14.08	6.22	124.8	0.73
	10/2/2008	14.01	6.29	60.8	0.50
	12/31/2008	10.89	6.32	155.4	5.14
	3/20/2009	11.63	6.16	211.6	2.59
	10/29/2009	12.28	6.50	62.4	2.32
	1/27/2010	11.57	6.07	147.5	1.55
	4/20/2010	12.99	6.20	169.8	0.92
	7/20/2010	15.15	5.61	130.1	0.93
	10/22/2010	13.38	5.99	145.1	1.19
	1/25/2011	12.20	5.86	396.9	2.80
	4/26/2011	13.13	5.97	402.8	0.73
	7/19/2011	13.46	6.23	43.5	0.10
	10/20/2011	13.59	6.23	184.3	0.61
	4/26/2012	12.33	5.99	32.4	0.64
	10/31/2012	12.86	5.33	91.3	3.81
	4/22/2013	20.43	5.27	175.0	0.71
	10/22/2013	13.35	5.88	82.6	1.70
	4/23/2014	13.52	6.33	178.0	1.13
	10/28/2014	13.43	6.22	88.7	3.08
	4/23/2015	13.35	5.62	203.0	0.19
	11/23/2015	12.77	6.02	167.1	2.13
	5/4/2016	14.50	5.60	-86.6	1.28
	11/29/2016	13.7	5.99	153.7	3.33
	7/12/2017	17.1	5.88	158.6	0.54
	1/18/2018	12.0	6.34	153.3	2.90
	7/31/2018	14.6	6.03	97.6	0.71

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
HMW-9	6/17/2008	15.16	6.43	8.5	0.68
	10/2/2008	14.13	6.36	45.2	0.54
	12/31/2008	11.98	6.40	3.7	0.71
	3/19/2009	12.88	6.29	42	0.61
	10/29/2009	13.22	6.39	39.7	1.15
	1/26/2010	12.22	6.39	-41.6	0.09
	4/20/2010	14.61	6.48	73.9	0.86
	7/20/2010	15.18	—[3]	22.7	1.01
	10/22/2010	13.61	6.28	101.7	0.45
	1/25/2011	13.11	6.10	144.0	3.70
	4/26/2011	13.91	6.24	99.5	<0.1
	7/19/2011	13.93	6.20	-22.2	0.6
	10/20/2011	14.28	6.30	72.0	0.37
	4/26/2012	13.64	8.53	-76.9	0.10
	10/31/2012	13.61	6.16	-54.2	1.02
	4/22/2013	12.18	6.23	-18.6	0.04
	10/23/2013	13.13	6.28	7.0	0.09
	4/24/2014	15.60	6.57	-20.0	0.46
	10/29/2014	14.07	6.41	-33.3	0.54
	4/23/2015	14.42	5.92	40	0.03
	11/23/2015	13.83	6.24	-76.2	0.20
	5/4/2016	14.47	6.03	-159.0	1.50
	11/29/2016	14.2	6.27	3.7	0.35
	7/12/2017	15.1	6.17	26.8	0.15
	1/18/2018	12.6	6.51	-13.0	0.51
	8/1/2018	14.8	6.23	-20.0	0.25

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
HMW-10	6/17/2008	15.06	6.45	-4.0	0.60
	10/2/2008	14.72	6.30	72.9	0.70
	12/31/2008	10.97	6.43	-14.2	0.83
	3/19/2009	12.98	6.45	-25	0.58
	10/29/2009	12.12	6.46	6.7	1.20
	1/26/2010	12.15	6.42	-80.4	0.09
	4/20/2010	14.38	6.41	68.6	0.62
	7/20/2010	14.70	—[3]	-14.2	0.67
	10/21/2010	13.95	5.84	124.0	0.36
	1/25/2011	12.71	6.10	149.3	0.50
	4/26/2011	14.49	6.15	114.5	<0.1
	7/19/2011	13.62	6.30	-70.5	1.0
	10/21/2011	13.24	6.33	80.9	0.46
	4/26/2012	12.90	6.51	-78.8	0.44
	11/1/2012	13.14	6.06	-84.5	1.03
	4/22/2013	19.27	3.01	133.0	0.07
	10/22/2013	14.04	6.25	-38.9	0.06
	4/23/2014	14.27	6.58	-60.0	0.10
	10/28/2014	14.01	6.35	-136.8	0.66
	4/23/2015	13.86	5.96	32	0.05
	11/23/2015	12.17	—[3]	132	0.14
	5/4/2016	14.84	6.10	-235.1	0.52
	11/29/2016	13.6	6.17	-5.4	0.33
	7/12/2017	15.0	6.22	-25.6	0.17
	1/17/2018	12.3	6.49	-38.1	0.47
	7/31/2018	14.8	6.22	-43.1	0.26

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Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
HMW-11	6/17/2008	14.44	6.38	13.2	0.15
	10/1/2008	14.71	6.18	40.0	0.50
	12/31/2008	11.04	6.38	-17.1	1.20
	3/20/2009	11.71	5.70	53	0.62
	10/28/2009	12.89	6.39	11.7	1.16
	1/26/2010	13.25	6.19	44.5	0.37
	4/20/2010	14.00	6.41	85.7	1.89
	7/20/2010	17.71	6.10	-19.1	0.98
	10/21/2010	14.01	5.79	128.2	0.43
	1/25/2011	13.08	5.77	197.9	1.10
	4/27/2011	13.08	6.02	380.4	<0.1
	7/19/2011	13.36	6.39	-55.4	1.0
	10/21/2011	13.18	6.36	72.5	0.56
	4/26/2012	12.25	7.62	67.7	0.49
	11/1/2012	13.66	6.19	-70.7	0.10
	4/22/2013	12.65	5.89	90.2	0.85
	10/23/2013	13.76	6.19	-12.6	0.08
	4/24/2014	12.87	6.16	79.0	0.18
	10/29/2014	13.99	6.13	-62.4	0.99
	4/23/2015	14.77	5.79	83	0.13
	11/23/2015	13.13	5.93	-136.0	0.25
	5/4/2016	14.85	6.00	113.0	0.17
	11/30/2016	13.8	6.21	-57.0	0.37
	7/12/2017	15.2	6.14	-2.1	0.14
	1/18/2018	13.7	6.07	176.6	0.46
	8/1/2018	15.3	6.20	-27.6	0.29

Table 2
Summary of Groundwater Geochemical Data – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Sample Location	Date[1]	Temperature[2] (°Celsius)	pH[2]	ORP[2] (millivolts)	Dissolved Oxygen[1] (milligrams per liter)
HMW-13	6/16/2008	18.52	6.07	114.6	0.74
	10/1/2008	15.26	6.19	61.5	0.55
	12/30/2008	11.54	6.09	127.8	1.19
	3/19/2009	12.66	6.03	184.3	1.11
	10/28/2009	12.38	6.29	103.1	1.49
	1/26/2010	12.42	5.95	330.9	0.20
	4/20/2010	14.52	6.31	201.9	0.56
	7/20/2010	15.08	5.95	81.1	0.23
	10/21/2010	13.17	5.48	211.8	0.35
	1/25/2011	12.71	6.04	176.2	6.9
	4/26/2011	12.42	5.95	188.6	0.59
	7/18/2011	14.39	6.13	5.7	1.6
	10/21/2011	12.66	6.10	27.0	0.20
	4/26/2012	12.05	6.30	52.6	0.94
	11/1/2012	13.27	6.09	73.3	0.26
	4/22/2013	13.97	6.30	233.0	0.11
	10/23/2013	12.37	5.86	233.5	4.40
	4/23/2014	15.26	5.86	118.0	0.37
	10/28/2014	16.84	5.63	182	0.41
	4/22/2015	15.78	5.40	125	0.11
	11/23/2015	12.96	—[3]	267	2.49
	5/4/2016	13.71	5.71	119.8	0.35
	11/30/2016	12.4	6.05	291.9	0.40
	7/13/2017	17.1	5.34	143.4	0.51
	1/18/2018	12.2	6.18	233.4	0.55
	8/1/2018	14.7	5.95	157.5	0.85

NOTES:

-- = not measured

ORP = oxidation-reduction potential

[1]Date shown represents date of groundwater sample collection. Dissolved-oxygen measurements typically are collected 1 to 2 days prior using a dissolved-oxygen analyzer with a down-hole probe.

[2]Temperature, pH, and ORP were measured using a YSI or Horiba multiparameter water-quality analyzer.

[3]Not measured due to malfunctioning pH meter.

[4]pH readings did not stabilize.

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-2	CMW2-061708	6/17/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW2-100108	10/1/2008	0.44	**0.85**	<400	<4.0	<4.0	<4.0	<8.0
	CMW2-123008	12/30/2008	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW2-031909	3/19/2009	0.35	<0.43	<100	<1.0	<1.0	<1.0	1.6
	CMW2-102809	10/28/2009	<0.25	<0.40	240	2.0	1.2	<1.0	2.0
	CMW2-012610	1/26/2010	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW2-042010	4/20/2010	0.28	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW2-072010	7/20/2010	**0.92**	**<0.67[4]**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-102110	10/21/2010	**0.63**	<0.44	<100	<1.0	<1.0	1.1	1.5
	CMW-2-012511	1/25/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW2-042711	4/27/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-071811	7/18/2011	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-102111	10/21/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-042712	4/27/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-110112	11/1/2012	0.44	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-042313	4/23/2013	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-102313	10/23/2013	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-042414	4/24/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-102914	10/29/2014	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-042315	4/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-050516	5/5/2016	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-112916	11/29/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-071317	7/13/2017	0.33	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-011818	1/18/2018	**0.93**	**<0.62[4]**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-2-073118	7/31/2018	**0.63**	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-4	CMW4-061608	6/16/2008	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW4-100108	10/1/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW4-123008	12/30/2008	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW4-031909	3/19/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW4-102809	10/28/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW4-012610	1/26/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW4-042010	4/20/2010	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-4-072010	7/20/2010	<0.31	<0.49	<100	<1.0	<1.0	<1.0	<2.0
	CMW-4-102110	10/21/2010	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-4-012511	1/25/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-4-042611	4/26/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-4-071911	7/19/2011	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-4-102011	10/20/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
CMW-5	CMW5-061608	6/16/2008	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW5-100208	10/2/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW5-123108	12/31/2008	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW5-032009	3/20/2009	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW5-102909	10/29/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW5-012710	1/27/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW5-042010	4/20/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-5-072010	7/20/2010	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-7	CMW7-061708	6/17/2008	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW7-100108	10/1/2008	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW7-123008	12/30/2008	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW7-031909	3/19/2009	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-7-042712	4/27/2012	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-7-102112	10/31/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-7-042213	4/22/2013	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-7-102213	10/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-7-042314	4/23/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-7-102814	10/28/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-7-042315	4/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-8	CMW8-061708	6/17/2008	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	BAIL2-061708[6]	6/17/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW8-100208	10/2/2008	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW8-123008	12/30/2008	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW8-031909	3/19/2009	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW8-102909	10/29/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW8-012610	1/26/2010	<0.26	<0.42	<100	<1.0	<1.0	<1.0	2.6
	CMW8-042010	4/20/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW8-072010	7/20/2010	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-102210	10/22/2010	<0.29	<0.47	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-012411	1/24/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-042711	4/27/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-071911	7/19/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW8-102111	10/21/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-042612	4/26/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-110112	11/1/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-042313	4/23/2013	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-102313	10/23/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-042314	4/23/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-102814	10/28/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-042315	4/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-112315	11/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-050416	5/4/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-112916	11/29/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-071217	7/12/2017	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-011818	1/18/2018	0.38	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-8-080118	8/1/2018	0.31	<0.42	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-10	CMW10-061708	6/17/2008	**1.9**	<0.41	**1,300**[8]	<4.0	<4.0	12	179
	CMW10-061708[7]	6/17/2008	**2.0**	<0.40	**1,300**[8]	<4.0	<4.0	12	181
	BAIL1-061708[6]	6/17/2008	**92**	**<7.0**	**4,600**[8]	<4.0	6.9	31	540
	CMW10-061708[9]	6/17/2008	**11.2**	**<2.53**	61.0	<0.500	<0.500	0.618	9.80
	CMW10-100108	10/1/2008	**0.74**	<0.40	**3,500**	1.9	4.8	64	750
	CMW10-123008	12/30/2008	**1.1**[10]	<0.40	**6,100**	4.1	5.3	140	**1,290**
	CMW10-031909	3/19/2009	**1.3**[10]	<0.46	**1,600**[8]	<4.0	<4.0	13	204
	CMW10-102809	10/28/2009	**0.78**[10]	<0.40	**8,100**	2.7	2.9	140	**1,440**
	QAQC-102809[7]	10/28/2009	**5.5**[10]	**0.76**[10]	**8,400**	2.8	3.1	150	**1,570**
	CMW10-012610	1/26/2010	**5.8**	**<0.65**[4]	**1,100**[8]	<1.0	<1.0	3.5	76
	QAQC-1-012610[7]	1/26/2010	**5.6**	**<0.63**[4]	**1,200**[8]	<1.0	<1.0	3.7	74
	CMW10-042010	4/20/2010	**2.7**[10]	<0.41	560[8]	<1.0	<1.0	<1.0	19.3
	QA/QC-1-042010[7]	4/20/2010	**2.2**[10]	<0.41	660[8]	<4.0	<4.0	<4.0	12
	CMW10-072010	7/20/2010	**2.3**	**<0.57**[4]	740[8]	<1.0	<1.0	1.2	67
	CMW-10-102110	10/21/2010	**2.6**[10]	<0.47	**7,200**	<4.0	<4.0	10	**1,430**
	CMW-10-012511	1/25/2011	**0.79**	<0.42	<400	<4.0	<4.0	<4.0	<8.0
	CMW-10-042611	4/26/2011	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-071811	7/18/2011	**1.2**	<0.42	<400	<4.0	<4.0	<4.0	<8.0
	CMW-10-102111	10/21/2011	**1.4**[10]	<0.41	**3,600**	<4.0	<4.0	9.6	610
	CMW-10-042712	4/27/2012	0.33	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-110112	11/1/2012	**0.67**[10]	<0.41	**840**	1.7	<1.0	1.3	55
	CMW-10-042313	4/23/2013	0.30	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-1023013	10/23/2013	**1.3**	<0.42	260[8]	<1.0	<1.0	<1.0	6.9
	CMW-10-042414	4/24/2014	0.28	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-102914	10/29/2014	**0.59**	<0.41	300[8]	1.3	<1.0	1.7	10.8
	CMW-10-042215	4/22/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-112415	11/24/2015	**2.0**[10]	0.41	**980**[8]	1.4	<1.0	<1.0	14.6
	CMW-10-050516	5/5/2016	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-113016	11/30/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-071317	7/13/2017	**0.62**	**0.60**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-011818	1/18/2018	**1.4**	**<0.89**[4]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-10-080118	8/1/2018	**1.5**	**0.67**[11]	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-11	CMW11-061708	6/17/2008	<0.27	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW11-100108	10/1/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW11-123008	12/30/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW11-031909	3/19/2009	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW11-102809	10/28/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW11-012610	1/26/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW11-042010	4/20/2010	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW11-072010	7/20/2010	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-11-102110	10/21/2010	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-11-042711	1/25/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-11-012512	4/27/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-11-071811	7/18/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-11-102111	10/21/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
CMW-12	CMW12-061708	6/17/2008	<0.25	<0.40	780	**21**	<4.0	15	11
	CMW12-100108	10/1/2008	<0.40	<0.41	**800**	**18**	<4.0	24	8.4
	QA/QC-1-100108[7]	10/1/2008	<0.45	<0.41	**820**	**17**	<1.0	23	7.7
	CMW12-123008	12/30/2008	<0.26	<0.42	**890**	**19**	<1.0	28	14
	CMW12-031909	3/19/2009	<0.28	<0.44	**980**	**25**	<4.0	26	20
	CMW12-102809	10/28/2009	**1.3**	<0.40	440	**7.2**	<1.0	1.4	<2.0
	QAQC3-102809[7]	10/28/2009	**1.4**	0.41[11]	460	**7.4**	<1.0	1.4	<2.0
	CMW12-012610	1/26/2010	<0.39[4]	<0.43	**980**	**8.5**	<1.0	12	4.3
	CMW12-042010	4/20/2010	**<0.61[4]**	<0.43	**1,200**	**12**	<4.0	17	14
	CMW12-072110	7/21/2010	<0.44[4]	<0.45	**1,300[8]**	**13**	<1.0	25	16.2
	Dup-CMW12-072110[7]	7/21/2010	<0.49[4]	<0.44	**1,300[8]**	**13**	<1.0	26	15
	CMW-12-102110	10/21/2010	<0.36[4]	<0.41	660	**7.6**	<1.0	4.6	2.6
	Dup-CMW-12-102110[7]	10/21/2010	<0.46[4]	<0.43	610	**7.1**	<1.0	5.1	2.4
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-12	CMW-12-012511	1/25/2011	<0.48[4]	<0.41	**1,100**	**6.2**	<4.0	<4.0	4.4
	QA/QC-2-012511[7]	1/25/2011	<0.48[4]	<0.41	**1,100**	**6.4**	<4.0	<4.0	4.2
	CMW12-042611	4/26/2011	**<0.62**[4]	<0.41	**1,500**	**9.7**	<4.0	15	8.4
	QA/QC-1-042611[7]	4/26/2011	**<0.63**[4]	<0.41	**1,500**	**9.1**	<4.0	15	8.1
	CMW-12-071911	7/19/2011	**<0.73**[4]	<0.43	**1,600**	**11**	<1.0	11	11
	CMW-12-102111	10/21/2011	<0.41[4]	<0.42	780	**5.4**	<1.0	1.6	1.2
	DUP-2-102111[7]	10/21/2011	<0.42[4]	<0.41	750	**5.4**	<1.0	1.5	1.2
	CMW-12-042612	4/26/2012	**<0.90**[4]	<0.44	**1,600**	**7.1**	1.1	6.4	14
	QA/QC-1-042612[7]	4/26/2012	**<0.84**[4]	<0.44	**1,600**	**7.1**	1.2	6.5	13
	CMW-12-110112	11/1/2012	**0.56**[10]	<0.41	**850**	4.7	<1.0	<1.0	1.5
	DUP1-110112[7]	11/1/2012	0.46[10]	<0.41	**890**	**5.1**	<1.0	<1.0	2.0
	CMW-12-042313	4/23/2013	**<0.60**[4]	<0.43	390	2.6	<1.0	<1.0	1.6
	DUP1-042313[7]	4/23/2013	**<0.52**[4]	<0.43	390	2.1	<1.0	<1.0	1.5
	CMW-12-102313	10/23/2013	**<0.55**[4]	<0.41	740	3.1	<1.0	<1.0	<2.0
	DUP2-102313[7]	10/23/2013	<0.48[4]	<0.41	790	3.0	<1.0	<1.0	<2.0
	CMW-12-042414	4/24/2014	**<0.75**[4]	<0.41	**1,600**	4.3	<1.0	17	7.3
	DUP-2-042414[7]	4/24/2014	**<0.75**[4]	<0.41	**1,500**	4.1	<1.0	16	7.1
	CMW-12-102914	10/29/2014	**<0.50**[4]	<0.41	**950**	4.4	<1.0	<1.0	1.2
	DUP-2-102914[7]	10/29/2014	**<0.61**[4]	<0.41	**880**	4.5	<1.0	<1.0	1.0
	CMW-12-042315	4/23/2015	**<1.0**[4,10]	<0.41	**1,600**	**5.7**	<1.0	1.6	5.0
	DUP-2-042315[7]	4/23/2015	**<0.91**[4,10]	<0.41	**1,600**	**5.5**	<1.0	1.6	5.0
	CMW-12-112415	11/24/2015	<0.26	<0.41	420	1.9	<1.0	<1.0	<2.0
	CMW-120-112415[7]	11/24/2015	<0.26	<0.41	460	2.1	<1.0	<1.0	<2.0
	CMW-12-050516	5/5/2016	**0.90**[10]	<0.41	**1,600**	**5.4**	<1.0	2.8	6.7
	QA/QC-1-050516[7]	5/5/2016	0.811	<0.41	**1,700**	**5.8**	<1.0	2.9	7.2
	CMW-12-113016	11/30/2016	0.38[10]	<0.41	590	<4.0	<4.0	<4.0	<8.0
	CMW-12-071317	7/13/2017	**2.1**[10]	<0.41	**1,800**	5.0	<1.0	1.6	4.3
	QA/QC-2-071317[7]	7/13/2017	**1.8**[10]	**0.65**	**1,800**	4.9	<1.0	1.6	4.1
	CMW-12-011818	1/18/2018	**2.1**[10]	**<0.55**[4]	**1,300**	3.0	<1.0	<1.0	<2.0
	QA/QC-1-011818[7]	1/18/2018	**2.2**[10]	**<0.70**[4]	**1,200**	2.6	<1.0	<1.0	<2.0
	CMW-12-080118	8/1/2018	**1.5**[10]	**0.77**[11]	**1,500**	1.2	<1.0	<1.0	1.6
	QA/QC-1-080118[7]	8/1/2018	**1.4**[10]	**0.56**[11]	**1,500**	1.1	<1.0	<1.0	1.9
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-13	CMW13-061708	6/17/2008	<0.26	<0.41	<100	1.1	<1.0	<1.0	<2.0
	CMW13-100108	10/1/2008	<0.55	<0.43	**1,000**	<4.0	<4.0	21	11
	CMW13-123008	12/30/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW13-031909	3/19/2009	<0.25	<0.40	<100	1.2	<1.0	<1.0	<2.0
	CMW13-102909	10/29/2009	**1.6**	<0.40	**860**	2.2	<1.0	1.3	<1.0
	CMW13-012609	1/26/2009	<0.27	<0.43	110	<1.0	<1.0	<1.0	<2.0
	CMW13-042010	4/20/2010	<0.26	<0.41	120	<1.0	<1.0	2.7	<2.0
	CMW-13-072010	7/20/2010	<0.28	<0.45	140	<1.0	<1.0	2.6	<2.0
	CMW-13-102110	10/21/2010	**<0.60**[4]	<0.43	**840**	2.2	<1.0	5.5	4.5
	CMW-13-012511	1/25/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW13-042711	4/27/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-071911	7/19/2011	<0.31	<0.50	130	<1.0	<1.0	<1.0	<2.0
	CMW13-102011	10/20/2011	<0.30	<0.46	460	1.7	<1.0	<1.0	<2.0
	CMW-13-042612	4/26/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-110112	11/1/2012	<0.26	<0.42	170	<1.0	<1.0	<1.0	<2.0
	CMW-13-042213	4/22/2013	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-102213	10/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-042414	4/24/2014	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-102814	10/28/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-042315	4/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-112415	11/24/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-050516	5/5/2016	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-113016	11/30/2016	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-071317	7/13/2017	**1.7**	**0.70**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-011818	1/18/2018	0.29	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-13-073118	7/31/2018	**0.62** [10]	<0.41	240	1.1	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-15	CMW15-061708	6/17/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW15-100208	10/2/2008	<0.25	<0.40	<400	<4.0	<4.0	<4.0	<8.0
	CMW15-123008	12/30/2008	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<1.0
	CMW15-031909	3/19/2009	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<1.0
	CMW15-102909	10/29/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<1.0
	CMW15-012610	1/26/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<1.0
	CMW15-042010	4/20/2010	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<1.0
	CMW15-072010	7/20/2010	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-15-102210	10/22/2010	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-15-012511	1/25/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW15-042711	4/27/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-15-071911	7/19/2011	<0.29	<0.47	<100	<1.0	<1.0	<1.0	<2.0
	CMW15-102111	10/21/2011	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
CMW-17	CMW17-061708	6/17/2008	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW17-100208	10/2/2008	<0.28	<0.45	<400	<4.0	<4.0	<4.0	<8.0
	CMW17-123108	12/31/2008	<0.30	<0.48	<100	<1.0	<1.0	<1.0	<2.0
	CMW17-032009	3/20/2009	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW17-012710	1/27/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW17-042010	4/20/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-17-072010	7/20/2010	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW17-042611	4/26/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-17-071911	7/19/2011	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW17-102011	10/20/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
CMW-19	CMW19-100208	10/2/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
CMW-20	CMW20-061708	6/17/2008	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW20-100208	10/2/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW20-123108	12/31/2008	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW20-032009	3/20/2009	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-21	CMW21-100208	10/2/2008	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
CMW-24	CMW24-061708	6/17/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW24-100108	10/1/2008	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW24-123008	12/30/2008	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW24-031909	3/19/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
CMW-25	CMW25-061608	6/16/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW25-100108	10/1/2008	<0.25	<0.40	<400	<4.0	<4.0	<4.0	<8.0
	CMW25-123008	12/30/2008	<0.33	<0.52	<100	<1.0	<1.0	<1.0	<2.0
	CMW25-031909	3/19/2009	<0.25	<0.40	130	<1.0	<1.0	<1.0	<2.0
	CMW25-102809	10/28/2009	0.29	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW25-012610	1/26/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW25-042010	4/20/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-072010	7/20/2010	<0.28	<0.45	120	<1.0	<1.0	<1.0	<2.0
	CMW-25-102110	10/21/2010	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-012511	1/25/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	1.6
	CMW-25-042611	4/26/2011	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-071811	7/18/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW25-102111	10/21/2011	<0.28	<0.45	110	<1.0	<1.0	<1.0	<2.0
	CMW-25-042712	4/27/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-110112	11/1/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-042213	4/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-102213	10/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-042314	4/23/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-102814	10/28/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-042315	4/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-112415	11/24/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-050416	5/4/2016	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-112916	11/29/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-071317	7/13/2017	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-011818	1/18/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-25-073118	7/31/2018	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-26	CMW26-061608	6/16/2008	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW26-100108	10/1/2008	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW26-123008	12/30/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW26-031909	3/19/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW26-102809	10/28/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW26-012610	1/26/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW26-042010	4/20/2010	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-072010	7/20/2010	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-102110	10/21/2010	<0.29	<0.47	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-012511	1/25/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-042611	4/26/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-071811	7/18/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-102011	10/20/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-042712	4/27/2012	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-103112	10/31/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-042213	4/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-102213	10/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-042414	4/24/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-102914	10/29/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-042215	4/22/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-112315	11/23/2015	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-050416	5/4/2016	<0.27	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-113016	11/30/2016	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-071317	7/13/2017	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-011818	1/18/2018	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-26-080118	8/1/2018	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-27	CMW27-061708	6/17/2008	**1.0**	<0.40	**2,300**	**33**	<4.0	110	211
	CMW27-061708[7]	6/17/2008	**1.1**	<0.40	**2,300**	**35**	<4.0	110	200
	CMW27-061708[9]	6/17/2008	**2.91**	**0.570**	**2,600**	**25.5**	1.22	143	289
	CMW27-100108	10/1/2008	**<0.75**	<0.40	**2,600**	**37**	<4.0	100	273
	QA/QC-2-100108[7]	10/1/2008	**<0.65**	<0.40	**2,600**	**35**	<1.0	99	271
	CMW27-123008	12/30/2008	**0.64**[10]	<0.44	**2,400**	**34**	<4.0	64	243
	QA/QC-2-123008[7]	12/30/2008	**0.66**[10]	<0.44	**2,500**	**32**	<1.0	74	273
	CMW27-031909	3/19/2009	<0.27	<0.43	**4,000**	**49**	<10.0	170	41.5
	QAQC1-031909[7]	3/19/2009	<0.25	<0.40	**4,200**	**48**	<4.0	170	424
	CMW27-102809	10/28/2009	**2.3**[10]	0.43[11]	**3,700**	**32**	1.6	180	354
	QAQC2-102809[7]	10/28/2009	**2.6**[10]	0.50[11]	**3,900**	**32**	1.6	160	304
	CMW27-012610	1/26/2010	**0.93**[10]	<0.41	**4,500**[8]	**25**	1.4	100	180
	QAQC-2-012610[7]	1/26/2010	**1.0**[10]	<0.40	**4,000**[8]	**24**	1.4	100	179.7
	CMW27-042010	4/20/2010	**2.5**[10]	<0.41	**2,300**	**28**	<4.0	84	88
	QA/QC-2-042010[7]	4/20/2010	**3.0**[10]	<0.41	**2,400**	**26**	<4.0	87	94
	CMW27-072110	7/21/2010	**3.8**[10]	**<0.61**[4]	**2,800**	**36**	<4.0	150	150
	Dup-CMW27-072110[7]	7/21/2010	**2.2**[10]	<0.42	**2,900**	**37**	<4.0	150	150
	CMW-27-102110	10/21/2010	**1.5**[10]	<0.43	**1,400**	**23**	<4.0	69	41
	dup-CMW-27-102110[7]	10/21/2010	**1.4**[10]	<0.43	**1,400**	**23**	<4.0	70	42
	CMW-27-012511	1/25/2011	**2.9**[10]	<0.41	**4,800**	<4.0	<4.0	53	413
	CMW-27-042611	4/26/2011	**1.1**[10]	<0.41	**2,100**	<4.0	<4.0	20	122
	QA/QC-2-042611[7]	4/26/2011	**0.96**[10]	<0.44	**2,100**	<4.0	<4.0	21	133
	CMW-27-071811	7/18/2011	**5.0**[10]	<0.46	**9,100**	**37**	<10	390	999
	QA/QC-1-071811[7]	7/18/2011	**4.1**[10]	<0.43	**6,300**	**25**	<10	220	550
	CMW-27-102111	10/21/2011	**2.3**[10]	<0.41	**1,700**	**13**	<4.0	41	32
	DUP-1-102111[7]	10/21/2011	**2.2**[10]	<0.42	**1,700**	**13**	<4.0	42	33
	CMW-27-042712	4/27/2012	**4.4**[10]	<0.41	**5,100**[8]	<4.0	<4.0	59	355
	QA/QC-2-042712[7]	4/27/2012	**6.9**[10]	**<0.57**[4]	**5,100**[8]	<4.0	<4.0	66	356
	CMW-27-110112	11/1/2012	**2.4**[10]	<0.41	**3,300**[8]	**8.6**	<1.0	58	128.6
	DUP2-110112[7]	11/1/2012	**3.0**[10]	<0.41	**3,400**[8]	**8.5**	<1.0	168	8.7
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-27	CMW-27-042313	4/23/2013	**4.0**[10]	<0.43	**1,900**	<1.0	<1.0	25	149.2
	DUP2-042313[7]	4/23/2013	**2.9**[10]	<0.45	**1,800**	<1.0	<1.0	27	139.5
	CMW-27-102313	10/23/2013	**2.8**[10]	<0.41	**2,200**[8]	4.3	<1.0	32	60.1
	DUP-1-102313[7]	10/23/2013	**2.6**[10]	<0.42	**2,100**[8]	4.5	<1.0	32	61.2
	CMW-27-042414	4/24/2014	0.42	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	DUP-1-042414[7]	4/24/2014	**0.55**	<0.41	<100	1/18/2018	1/18/2018	1/18/2018	1/18/2018
	CMW-27-102914	10/29/2014	**1.2**[10]	<0.41	**1,200**	3.7	<1.0	11	11
	DUP-1-102914[7]	10/29/2014	**1.3**[10]	<0.41	**1,200**	4.1	<1.0	12	12
	CMW-27-042315	4/23/2015	**4.0**	<0.41	760[8]	<1.0	<1.0	5.8	22.2
	DUP-2-042315[7]	4/23/2015	**5.8**	<0.41	800[8]	<1.0	<1.0	6.1	23.3
	CMW-27-112415	11/24/2015	**2.9**[10]	<0.41	460	4.6	<1.0	9.3	7.2
	CMW-270-112415[7]	11/24/2015	**2.9**[10]	<0.41	**930**[8]	3.6	<1.0	9.0	7.2
	CMW-27-050516	5/5/2016	**2.9**	<0.45	<400	<4.0	27	<4.0	<8.0
	QA/QC-2-050516[7]	5/5/2016	**2.8**	<0.41	<400	<4.0	26	<4.0	<8.0
	CMW-27-113016	11/30/2016	**1.5**[10]	<0.42	750	<4.0	<4.0	6.0	5.0
	CMW-27-071317	7/13/2017	**3.3**[10]	**1.3**	**1,200**	2.8	1.4	4.5	8.2
	QA/QC-1-071317[7]	7/13/2017	**3.5**[10]	**0.77**	**1,200**	2.9	1.3	4.6	8.4
	CMW-27-011818	1/18/2018	**1.7**	**<1.0**[4]	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-2-011818[7]	1/18/2018	**1.6**	**<0.96**[4]	<100	<1.0	<1.0	<1.0	<2.0
	CMW-27-080118	8/1/2018	**2.7**[10]	**1.0**[11]	**1,000**	<1.0	1.3	5.9	7.4
	QA/QC-2-080118[7]	8/1/2018	**2.6**[10]	**0.89**[11]	**1,100**	<1.0	1.3	5.8	7.8
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

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CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-28	CMW28-061608	6/16/2008	**0.54**	<0.40	120[8]	<1.0	<1.0	3.0	12.1
	CMW28-100108	10/1/2008	**0.6**[10]	<0.40	**1,900**	<4.0	<4.0	39	141
	CMW28-123008	12/30/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	QA/QC-1-123008[7]	12/30/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW28-031909	3/19/2009	0.28	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW28-102809	10/28/2009	**3.2**	**0.59**[11]	<100	<1.0	<1.0	<1.0	1.7
	CMW28-012610	1/26/2010	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW28-042010	4/20/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW28-072010	7/20/2010	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-102110	10/21/2010	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-012511	1/25/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW28-042611	4/26/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-071811	7/18/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-102011	10/20/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-042712	4/27/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-110112	11/1/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-042313	4/23/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-102313	10/23/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-042414	4/24/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-102914	10/29/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-042215	4/22/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-112415	11/24/2015	0.29	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-050516	5/5/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-113016	11/30/2016	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-071217	7/12/2017	**1.3**	**0.92**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-011818	1/18/2018	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-28-080118	8/1/2018	**0.81**	**0.52**[11]	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-29	CMW29-061708	6/17/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW29-100108	10/1/2008	0.31	<0.40	<400	<4.0	<4.0	<4.0	<8.0
	CMW29-123008	12/30/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW29-031909	3/19/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW29-102809	10/28/2009	0.44	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW29-012710	1/27/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW29-042010	4/20/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-072010	7/20/2010	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-102110	10/21/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-012511	1/25/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-042611	4/26/2011	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-071811	7/18/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-102011	10/20/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-042612	4/26/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-103112	10/31/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-042313	4/23/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-102213	10/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-042314	4/23/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-102814	10/28/2014	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-042215	4/22/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-112315	11/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-050416	5/4/2016	<0.26	<0.42	<400	<4.0	<4.0	<4.0	8.2
	CMW-29-113016	11/30/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-071317	7/13/2017	**0.76[10]**	<0.41	220	**7.1**	6.8	<1.0	<2.0
	CMW-29-011718	1/17/2018	**0.70**	**<0.54[4]**	<100	<1.0	<1.0	<1.0	<2.0
	CMW-29-073118	7/31/2018	0.33	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

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CHS Auburn Site
Auburn, Washington
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Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-30	CMW30-061608	6/16/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW30-100108	10/1/2008	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW30-123008	12/30/2008	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW30-031909	3/19/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW30-102809	10/28/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW30-012610	1/26/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW30-042010	4/20/2010	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-072010	7/20/2010	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-102110	10/21/2010	<0.30	<0.47	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-012511	1/25/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-042611	4/26/2011	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-071911	7/19/2011	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-30-102011	10/20/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

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CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-31	CMW31-061608	6/16/2008	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW31-100208	10/2/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW31-123108	12/31/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW31-032009	3/20/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW31-102909	10/29/2009	**0.53**	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW31-012710	1/27/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW31-042010	4/20/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-072010	7/20/2010	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-102210	10/22/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-012511	1/25/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW31-042611	4/26/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-071911	7/19/2011	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	CMW31-102011	10/20/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-042612	4/26/2012	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-110112	11/1/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-042213	4/22/2013	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-102213	10/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-042314	4/23/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-102814	10/28/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-042315	4/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-112315	11/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-050416	5/4/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-112916	11/29/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-071217	7/12/2017	**0.69**	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-011818	1/18/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-31-073118	7/31/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
CMW-32	CMW32-061708	6/17/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW32-100208	10/2/2008	<0.25	<0.40	<400	<4.0	<4.0	<4.0	<8.0
	CMW32-123108	12/31/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW32-032009	3/20/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	CMW32-102909	10/29/2009	**0.58**	<0.4	<100	<1.0	<1.0	<1.0	<2.0
	CMW32-012710	1/27/2010	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW32-042010	4/20/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW-32-072010	7/20/2010	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW-32-102210	10/22/2010	<0.28	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	CMW-32-012511	1/25/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW32-042611	4/26/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	CMW-32-071911	7/19/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	CMW32-102011	10/20/2011	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
HMW-9	HMW9-061708	6/17/2008	<0.27	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	HMW9-100208	10/2/2008	<0.25	<0.40	<400	<4.0	<4.0	<4.0	<8.0
	HMW9-123108	12/31/2008	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	HMW9-031909	3/19/2009	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	HMW9-102909	10/29/2009	**0.62**	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	HMW9-012610	1/26/2010	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW9-042010	4/20/2010	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	HMW9-072010	7/20/2010	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-102210	10/22/2010	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-012511	1/25/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW9-042611	4/26/2011	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-071911	7/19/2011	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	HMW9-102011	10/20/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-042612	4/26/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-110112	11/1/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-042313	4/23/2013	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-102313	10/23/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-042414	4/24/2014	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-102914	10/29/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-042315	4/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-112315	11/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-050416	5/4/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-112916	11/29/2016	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-071317	7/13/2017	0.49	**0.51**	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-011818	1/18/2018	0.35	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-9-080118	8/1/2018	0.46	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
HMW-10	HMW10-061708	6/17/2008	0.27	<0.41	<100	2.9	<1.0	<1.0	<2.0
	HMW10-100208	10/2/2008	<0.28	<0.44	240	3.1	<1.0	<1.0	<2.0
	HMW10-123108	12/31/2008	<0.25	<0.40	<400	<4.0	<4.0	<4.0	<8.0
	HMW10-031909	3/19/2009	<0.27	<0.43	250	4.1	<1.0	<1.0	<1.0
	HMW10-102909	10/29/2009	**1.1**	<0.40	220	2.6	<1.0	<1.0	<2.0
	HMW10-012610	1/26/2010	<0.25	<0.40	210	2.3	<1.0	<1.0	<2.0
	HMW10-042010	4/20/2010	<0.26	<0.42	210	2.4	<1.0	<1.0	<2.0
	HMW10-072010	7/20/2010	<0.28	<0.44	240	2.3	<1.0	<1.0	<2.0
	HMW-10-102110	10/21/2010	<0.29	<0.47	180	1.9	<1.0	<1.0	<2.0
	HMW-10-012511	1/25/2011	<0.26	<0.42	<400	<4.0	<4.0	<4.0	<8.0
	QA/QC-1-012511[7]	1/25/2011	<0.26	<0.41	<400	<4.0	<4.0	<4.0	<8.0
	HMW10-042611	4/26/2011	<0.26	<0.41	180	1.6	<1.0	<1.0	<2.0
	HMW-10-071911	7/19/2011	<0.28	<0.44	310	2.3	<1.0	<1.0	1.4
	QA/QC-2-071911[7]	7/19/2011	<0.29	<0.46	350	2.3	<1.0	<1.0	1.8
	HMW10-102111	10/21/2011	<0.28	<0.45	200	2.6	<1.0	<1.0	<2.0
	HMW-10-042612	4/26/2012	<0.26	<0.42	170	1.9	<1.0	<1.0	<2.0
	HMW-10-110112	11/1/2012	<0.26	<0.42	200	1.8	<1.0	<1.0	<2.0
	HMW-10-042213	4/22/2013	<0.26	<0.42	150	1.7	<1.0	<1.0	<2.0
	HMW-10-102213	10/22/2013	<0.26	<0.41	160	2.0	<1.0	<1.0	<2.0
	HMW-10-042314	4/23/2014	<0.26	<0.41	250	1.8	<1.0	<1.0	<2.0
	HMW-10-102814	10/28/2014	<0.26	<0.41	120	1.6	<1.0	<1.0	<2.0
	HMW-10-042315	4/23/2015	0.29	<0.41	<100	<1.0	<1.0	<1.0	<1.0
	HMW-10-112414	11/24/2015	<0.26	<0.41	<100	1.3	<1.0	<1.0	<1.0
	HMW-10-050416	5/4/2016	<0.26	<0.41	<400	<4.0	<4.0	<4.0	<8.0
	HMW-10-112916	11/29/2016	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-071317	7/13/2017	**0.82**	**0.55**	170	1.7	<1.0	<1.0	<2.0
	HMW-10-011718	1/17/2018	**0.72**	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-10-073118	7/31/2018	**0.60** [10]	<0.40	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
Farallon PN: 301-004

Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
HMW-11	HMW11-061708	6/17/2008	**0.83**	<0.44	**940**	**9.0**	<4.0	14	8.3
	HMW11-100108	10/1/2008	**0.89**[10]	<0.42	490	**5.7**	<1.0	1.9	1.4
	HMW11-123108	12/31/2008	<0.25	<0.40	760	**8.1**	<4.0	9.2	4.4
	HMW11-032009	3/20/2009	<0.25	<0.43	680	**7.5**	<4.0	8.2	5.2
	QAQC2-032009[7]	3/20/2009	<0.27	<0.43	720	**7.6**	1.5	8.4	5.4
	HMW11-102809	10/28/2009	**1.4**	<0.40	450	3.6	<1.0	<1.0	<2.0
	HMW11-012610	1/26/2010	<0.26	<0.41	460	1.4	<1.0	2.8	1.5
	HMW11-042010	4/20/2010	**1.0**	<0.43	**1,200**	3.4	1.1	5.7	3.3
	HMW-11-072010	7/20/2010	**<0.60**[4]	<0.46	**1,400**[8]	4.3	1.1	4.6	6.0
	HMW-11-102110	10/21/2010	<0.50[4]	<0.41	740	4.3	<1.0	1.2	2.2
	HMW-11-012511	1/25/2011	0.30	<0.42	<400	<4.0	<4.0	<4.0	<8.0
	HMW11-042711	4/27/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-071911	7/19/2011	**0.57**	<0.42	**1,000**	3.1	<1.0	1.4	6.5
	HMW11-102111	10/21/2011	**0.57**	<0.42	**860**	<4.0	<4.0	<4.0	<8.0
	HMW-11-042612	4/26/2012	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-110112	11/1/2012	**0.58**[10]	<0.41	**1,300**	3.5	<1.0	<1.0	2.6
	HMW-11-042313	4/23/2013	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-102313	10/23/2013	**<0.54**[4]	<0.41	**820**	2.4	<1.0	2.1	<2.0
	HMW-11-042414	4/24/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-102914	10/29/2014	<0.40[4]	<0.41	710	2.8	<1.0	<1.0	<2.0
	HMW-11-042315	4/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-112415	11/24/2015	<0.39[4,10]	<0.41	460	2.4	<1.0	<1.0	<2.0
	HMW-11-050516	5/5/2016	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-113016	11/30/2016	**0.61**[10]	<0.41	**1,000**	<4.0	<4.0	<4.0	<8.0
	HMW-11-071317	7/13/2017	**2.0**[10]	**0.63**	**990**	3.5	<1.0	<1.0	1.7
	HMW-11-011818	1/18/2018	**2.5**	**<1.3**[4]	<100	<1.0	<1.0	<1.0	<2.0
	HMW-11-080118	8/1/2018	**1.6**[10]	0.48[11]	**1,600**	1.0	<1.0	<1.0	<2.0
HMW-12	HMW12-100208	10/2/2008	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

Table 3
Summary of Laboratory Analytical Results for TPH and BTEX in Groundwater – June 2008 through July 2018
CHS Auburn Site
Auburn, Washington
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Well Identification	Sample Identification	Sample Date	Analytical Results (milligrams per liter)		Analytical Results (micrograms per liter)				
			DRO[1]	ORO[1]	GRO[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]
HMW-13	HMW13-061608	6/16/2008	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW13-061608[7]	6/16/2008	0.396	**<0.532**	<50.0	<0.500	<0.500	<0.500	<1.00
	HMW13-100108	10/1/2008	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW13-123008	12/30/2008	<0.27	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW13-031909	3/19/2009	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	HMW13-102809	10/28/2009	**5.7**	**0.86**[11]	<100	<1.0	<1.0	<1.0	<2.0
	HMW13-012610	1/26/2010	<0.25	<0.40	<100	<1.0	<1.0	<1.0	<2.0
	HMW13-042010	4/20/2010	<0.28	<0.44	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-072010	7/20/2010	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-102110	10/21/2010	<0.29	<0.46	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-012511	1/25/2011	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-042611	4/26/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-071811	7/18/2011	<0.28	<0.45	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-102111	10/21/2011	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-042612	4/26/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-110112	11/1/2012	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-042213	4/22/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-102313	10/23/2013	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-042314	4/23/2014	<0.25	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-102814	10/28/2014	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-042215	4/22/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-112315	11/23/2015	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-050416	5/4/2016	<0.26	<0.42	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-113016	11/30/2016	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-071317	7/13/2017	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-011818	1/18/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
	HMW-13-080118	8/1/2018	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater[5]			**0.5**	**0.5**	**800**	**5**	**1,000**	**700**	**1,000**

NOTES:

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

Results in **bold** denote sample result or reporting limit exceeds applicable MTCA Method A cleanup levels for groundwater.

[1]Analyzed by Northwest Method NWTPH-Dx. Samples analyzed by OnSite Environmental Inc. between June 2008 and November 2016 were analyzed using acid silica gel cleanup procedure.

[2]Analyzed by Northwest Method NWTPH-Gx.

[3]Analyzed by U.S. Environmental Protection Agency Method 8021B.

[4]The practical quantitation limit is elevated due to interferences in the sample.

[5]MTCA Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

[6]Sample collected using disposable bailer.

[7]Quality assurance/quality control duplicate sample.

[8]Hydrocarbons indicative of heavier fuels present in the sample that are impacting the gasoline result.

[9]Duplicate sample analyzed at TestAmerica Laboratories Inc.

[10]Hydrocarbons in the gasoline range are impacting the diesel-range result.

[11]Hydrocarbons in the diesel range are impacting the oil-range result.

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = TPH as diesel-range organics

GRO = TPH as gasoline-range organics

MTCA = Washington State Model Toxics Control Act Cleanup Regulation

ORO = TPH as oil-range organics

TPH = total petroleum hydrocarbons

APPENDIX A
LABORATORY ANALYTICAL REPORTS

JULY 2018 GROUNDWATER MONITORING REPORT
CHS Auburn Site
Auburn, Washington

Farallon PN: 301-004

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 9, 2018

Paul Grabau
Farallon Consulting, LLC
1201 Cornwall Avenue, Suite 105
Bellingham, WA 98225

Re: Analytical Data for Project 301-004
Laboratory Reference No. 1808-009

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on August 1, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 9, 2018
Samples Submitted: August 1, 2018
Laboratory Reference: 1808-009
Project: 301-004

Case Narrative

Samples were collected on July 31, 2018 and received by the laboratory on August 1, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 9, 2018
Samples Submitted: August 1, 2018
Laboratory Reference: 1808-009
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-29-073118**					
Laboratory ID:	08-009-01					
Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Toluene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Gasoline	**ND**	100	NWTPH-Gx	8-6-18	8-6-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*66-117*				
Client ID:	**CMW-13-073118**					
Laboratory ID:	08-009-02					
Benzene	**1.1**	1.0	EPA 8021B	8-7-18	8-7-18	
Toluene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
Gasoline	**240**	100	NWTPH-Gx	8-7-18	8-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*66-117*				
Client ID:	**CMW-25-073118**					
Laboratory ID:	08-009-03					
Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Toluene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Gasoline	**ND**	100	NWTPH-Gx	8-6-18	8-6-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*66-117*				

Date of Report: August 9, 2018
Samples Submitted: August 1, 2018
Laboratory Reference: 1808-009
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-31-073118**					
Laboratory ID:	08-009-04					
Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Toluene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Gasoline	**ND**	100	NWTPH-Gx	8-6-18	8-6-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*66-117*				
Client ID:	**HMW-10-073118**					
Laboratory ID:	08-009-05					
Benzene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
Toluene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
Gasoline	**ND**	100	NWTPH-Gx	8-7-18	8-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*66-117*				
Client ID:	**CMW-2-073118**					
Laboratory ID:	08-009-06					
Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Toluene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Gasoline	**ND**	100	NWTPH-Gx	8-6-18	8-6-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*66-117*				

Date of Report: August 9, 2018
Samples Submitted: August 1, 2018
Laboratory Reference: 1808-009
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B
METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0806W1					
Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Toluene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-6-18	8-6-18	
Gasoline	**ND**	100	NWTPH-Gx	8-6-18	8-6-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*66-117*				
Laboratory ID:	MB0807W1					
Benzene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
Toluene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-7-18	8-7-18	
Gasoline	**ND**	100	NWTPH-Gx	8-7-18	8-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*66-117*				

Date of Report: August 9, 2018
Samples Submitted: August 1, 2018
Laboratory Reference: 1808-009
Project: 301-004

GASOLINE RANGE ORGANICS/BTEX
NWTPH-Gx/EPA 8021B
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-009-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*93*	*93*	*66-117*			
Laboratory ID:	08-009-02										
	ORIG	DUP									
Benzene	**1.06**	**1.03**	NA	NA		NA		NA	3	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**239**	**209**	NA	NA		NA		NA	13	30	
Surrogate:											
Fluorobenzene						*87*	*87*	*66-117*			
MATRIX SPIKES											
Laboratory ID:	08-009-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**45.5**	**45.9**	50.0	50.0	ND	**91**	**92**	82-122	1	11	
Toluene	**44.0**	**44.4**	50.0	50.0	ND	**88**	**89**	83-123	1	12	
Ethyl Benzene	**44.5**	**44.9**	50.0	50.0	ND	**89**	**90**	83-123	1	12	
m,p-Xylene	**44.0**	**44.4**	50.0	50.0	ND	**88**	**89**	83-123	1	12	
o-Xylene	**44.1**	**44.5**	50.0	50.0	ND	**88**	**89**	83-123	1	11	
Surrogate:											
Fluorobenzene						*79*	*81*	*66-117*			
Laboratory ID:	08-009-02										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**55.0**	**55.8**	50.0	50.0	1.06	**108**	**109**	82-122	1	11	
Toluene	**53.2**	**53.5**	50.0	50.0	ND	**106**	**107**	83-123	1	12	
Ethyl Benzene	**53.4**	**53.5**	50.0	50.0	ND	**107**	**107**	83-123	0	12	
m,p-Xylene	**52.9**	**53.0**	50.0	50.0	ND	**106**	**106**	83-123	0	12	
o-Xylene	**53.6**	**53.7**	50.0	50.0	ND	**107**	**107**	83-123	0	11	
Surrogate:											
Fluorobenzene						*90*	*94*	*66-117*			

Date of Report: August 9, 2018
Samples Submitted: August 1, 2018
Laboratory Reference: 1808-009
Project: 301-004

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-29-073118**					
Laboratory ID:	08-009-01					
Diesel Range Organics	**0.33**	0.26	NWTPH-Dx	8-2-18	8-2-18	
Lube Oil Range Organics	**ND**	0.41	NWTPH-Dx	8-2-18	8-2-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**CMW-13-073118**					
Laboratory ID:	08-009-02					
Diesel Range Organics	**0.62**	0.25	NWTPH-Dx	8-2-18	8-2-18	M
Lube Oil Range Organics	**ND**	0.41	NWTPH-Dx	8-2-18	8-2-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**CMW-25-073118**					
Laboratory ID:	08-009-03					
Diesel Range Organics	**ND**	0.26	NWTPH-Dx	8-2-18	8-2-18	
Lube Oil Range Organics	**ND**	0.42	NWTPH-Dx	8-2-18	8-2-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**CMW-31-073118**					
Laboratory ID:	08-009-04					
Diesel Range Organics	**ND**	0.26	NWTPH-Dx	8-2-18	8-2-18	
Lube Oil Range Organics	**ND**	0.41	NWTPH-Dx	8-2-18	8-2-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				
Client ID:	**HMW-10-073118**					
Laboratory ID:	08-009-05					
Diesel Range Organics	**0.60**	0.25	NWTPH-Dx	8-2-18	8-2-18	M
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	8-2-18	8-2-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**CMW-2-073118**					
Laboratory ID:	08-009-06					
Diesel Range Organics	**0.63**	0.26	NWTPH-Dx	8-2-18	8-2-18	
Lube Oil Range Organics	**ND**	0.41	NWTPH-Dx	8-2-18	8-2-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

Date of Report: August 9, 2018
Samples Submitted: August 1, 2018
Laboratory Reference: 1808-009
Project: 301-004

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0802W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	8-2-18	8-2-18	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	8-2-18	8-2-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-004-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*91*	*91*	*50-150*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 301-004
Project Name: Cenex Auburn
Project Manager: Paul Grabau
Sampled by: A. Burns / G. Peters

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 08-009

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	CMW-29-073118	7-31-18	14:24	Water	5
2	CMW-13-073118		14:57		
3	CMW-25-073118		15:16		
4	CMW-31-073118		15:40		
5	HMW-10-073118		16:26		
6	CMW-2-073118		16:29		

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up) 1020	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BTEX by 8021B				% Moisture
1			X	X														X				
2																						
3																						
4																						
5																						
6																						

	Signature	Company	Date	Time
Relinquished	AB	Farallon	8-1-18	7:42
Received	Kathleen Leeel	OSE	8/1/18	1200
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Please send invoice to Jerry Eide at CHS.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 10, 2018

Paul Grabau
Farallon Consulting, LLC
1201 Cornwall Avenue, Suite 105
Bellingham, WA 98225

Re: Analytical Data for Project 301-004
Laboratory Reference No. 1808-022

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on August 2, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

Case Narrative

Samples were collected on August 1, 2018 and received by the laboratory on August 2, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Gx/BTEX

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HWM-13-080118**					
Laboratory ID:	08-022-01					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**ND**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*107*	*66-117*				
Client ID:	**HWM-9-080118**					
Laboratory ID:	08-022-02					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**ND**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*109*	*66-117*				
Client ID:	**CMW-8-080118**					
Laboratory ID:	08-022-03					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**ND**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*107*	*66-117*				

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Gx/BTEX

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-10-080118**					
Laboratory ID:	08-022-04					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**ND**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*104*	*66-117*				
Client ID:	**HMW-11-080118**					
Laboratory ID:	08-022-05					
Benzene	**1.0**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**1600**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*107*	*66-117*				
Client ID:	**CMW-26-080118**					
Laboratory ID:	08-022-06					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**ND**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*107*	*66-117*				

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Gx/BTEX

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-12-080118**					
Laboratory ID:	08-022-07					
Benzene	**1.2**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**1.6**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**1500**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*110*	*66-117*				
Client ID:	**CMW-28-080118**					
Laboratory ID:	08-022-08					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**ND**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*105*	*66-117*				
Client ID:	**CMW-27-080118**					
Laboratory ID:	08-022-09					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**1.3**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**5.9**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**7.4**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**1000**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*108*	*66-117*				

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Gx/BTEX

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**QA/QC-1-080118**					
Laboratory ID:	08-022-10					
Benzene	**1.1**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**1.9**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**1500**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*106*	*66-117*				
Client ID:	**QA/QC-2-080118**					
Laboratory ID:	08-022-11					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**1.3**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**5.8**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**7.8**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**1100**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*108*	*66-117*				

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Gx/BTEX
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0808W1					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**ND**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*105*	*66-117*				
Laboratory ID:	MB0808W2					
Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Toluene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Ethyl Benzene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
m,p-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
o-Xylene	**ND**	1.0	EPA 8021B	8-8-18	8-8-18	
Gasoline	**ND**	100	NWTPH-Gx	8-8-18	8-8-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*107*	*66-117*				

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Gx/BTEX
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-022-01										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*107*	*105*	*66-117*			
Laboratory ID:	08-022-03										
	ORIG	DUP									
Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*107*	*103*	*66-117*			
MATRIX SPIKES											
Laboratory ID:	08-022-01										
	MS	MSD	MS	MSD		MS	MSD				
Benzene	**50.7**	**48.0**	50.0	50.0	ND	**101**	**96**	82-122	5	11	
Toluene	**49.8**	**46.9**	50.0	50.0	ND	**100**	**94**	83-123	6	12	
Ethyl Benzene	**50.1**	**47.0**	50.0	50.0	ND	**100**	**94**	83-123	6	12	
m,p-Xylene	**49.7**	**46.7**	50.0	50.0	ND	**99**	**93**	83-123	6	12	
o-Xylene	**50.1**	**47.0**	50.0	50.0	ND	**100**	**94**	83-123	6	11	
Surrogate:											
Fluorobenzene						*84*	*88*	*66-117*			

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HWM-13-080118**					
Laboratory ID:	08-022-01					
Diesel Range Organics	**ND**	0.26	NWTPH-Dx	8-6-18	8-7-18	
Lube Oil Range Organics	**ND**	0.41	NWTPH-Dx	8-6-18	8-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				
Client ID:	**HWM-9-080118**					
Laboratory ID:	08-022-02					
Diesel Range Organics	**0.46**	0.26	NWTPH-Dx	8-6-18	8-7-18	
Lube Oil Range Organics	**ND**	0.41	NWTPH-Dx	8-6-18	8-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**CMW-8-080118**					
Laboratory ID:	08-022-03					
Diesel Range Organics	**0.31**	0.26	NWTPH-Dx	8-6-18	8-7-18	
Lube Oil Range Organics	**ND**	0.42	NWTPH-Dx	8-6-18	8-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**CMW-10-080118**					
Laboratory ID:	08-022-04					
Diesel Range Organics	**1.5**	0.26	NWTPH-Dx	8-6-18	8-7-18	
Lube Oil Range Organics	**0.67**	0.41	NWTPH-Dx	8-6-18	8-7-18	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**HMW-11-080118**					
Laboratory ID:	08-022-05					
Diesel Range Organics	**1.6**	0.26	NWTPH-Dx	8-6-18	8-7-18	M
Lube Oil Range Organics	**0.48**	0.41	NWTPH-Dx	8-6-18	8-7-18	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**CMW-26-080118**					
Laboratory ID:	08-022-06					
Diesel Range Organics	**ND**	0.26	NWTPH-Dx	8-6-18	8-7-18	
Lube Oil Range Organics	**ND**	0.42	NWTPH-Dx	8-6-18	8-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CMW-12-080118**					
Laboratory ID:	08-022-07					
Diesel Range Organics	**1.5**	0.26	NWTPH-Dx	8-6-18	8-7-18	M
Lube Oil Range Organics	**0.77**	0.41	NWTPH-Dx	8-6-18	8-7-18	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				
Client ID:	**CMW-28-080118**					
Laboratory ID:	08-022-08					
Diesel Range Organics	**0.81**	0.26	NWTPH-Dx	8-6-18	8-7-18	
Lube Oil Range Organics	**0.52**	0.42	NWTPH-Dx	8-6-18	8-7-18	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*97*	*50-150*				
Client ID:	**CMW-27-080118**					
Laboratory ID:	08-022-09					
Diesel Range Organics	**2.7**	0.26	NWTPH-Dx	8-6-18	8-7-18	M
Lube Oil Range Organics	**1.0**	0.41	NWTPH-Dx	8-6-18	8-7-18	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**QA/QC-1-080118**					
Laboratory ID:	08-022-10					
Diesel Range Organics	**1.4**	0.26	NWTPH-Dx	8-6-18	8-7-18	M
Lube Oil Range Organics	**0.56**	0.41	NWTPH-Dx	8-6-18	8-7-18	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**QA/QC-2-080118**					
Laboratory ID:	08-022-11					
Diesel Range Organics	**2.6**	0.26	NWTPH-Dx	8-6-18	8-7-18	M
Lube Oil Range Organics	**0.89**	0.41	NWTPH-Dx	8-6-18	8-7-18	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Laboratory Reference: 1808-022
Project: 301-004

NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0806W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	8-6-18	8-7-18	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	8-6-18	8-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-022-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*99*	*89*	*50-150*			
Laboratory ID:	08-022-10										
	ORIG	DUP									
Diesel Range Organics	**1.43**	**1.40**	NA	NA		NA		NA	2	NA	M
Lube Oil Range Organics	**0.558**	**0.469**	NA	NA		NA		NA	17	NA	N1
Surrogate:											
o-Terphenyl						*100*	*100*	*50-150*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

INVOICE NUMBER: 1808-022

Paul Grabau
Farallon Consulting, LLC
1201 Cornwall Avenue, Suite 105
Bellingham, WA 98225

ATTENTION: ACCOUNTS PAYABLE
Credit terms are net 30 days. Please include the invoice number with your remittance.
Invoices are due in full by the due date, unless specifically contracted otherwise.
OnSite Environmental, Inc. Federal Tax ID Number is 91-1550636.
Past Due Accounts: 1.5% interest per month

Date of Report: August 10, 2018
Samples Submitted: August 2, 2018
Project: 301-004

Quantity	Analysis	Turnaround	Unit Price	Amount
11	NWTPH-Gx/BTEX	Standard	75.00	$ 825.00
11	NWTPH-Dx	Standard	75.00	825.00
		Total Due		$1,650.00

Chain of Custody

Page 1 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 801-004
Project Name: Cenex Auburn
Project Manager: P. Grabau
Sampled by: AB / GP

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 08-022

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BTEx by 8021B				% Moisture
1	MW-13-080118	8-1-18	9:54	W	5			X	X														X				
2	MW-9-080118		10:38																								
3	CMW-8-080118		11:30																								
4	CMW-10-080118		11:41																								
5	MW-11-080118		12:35																								
6	CMW-26-080118		13:18																								
7	CMW-12-080118		13:28																								
8	CMW-28-080118		14:08																								
9	CMW-27-080118		14:46																								
10	QA/QC-1-080118		13:38																								

	Signature	Company	Date	Time
Relinquished		Farallon	8-1-18	17:35
Received	Matthew Liddell	OSE	8/2/18	1055
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Please send invoice to Jerry Eide of CHS.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 301-004
Project Name: Cenex Auburn
Project Manager: P. Graybar
Sampled by: AB / GP

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Laboratory Number: 08-022

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up) 8020	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A		BTEX 8021B			% Moisture
11	QA/QC-2-080118	8-1-18	14:56	Water	5			X	X															X			

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	AB	Farallon	8-1-18	17:35	
Received	Matthew Lissell	OSE	8/2/18	1055	
Relinquished					
Received					
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐