City of Bothell™

April 1, 2020

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

Re: Quarterly Progress Report for period ending March 2020

Site Name:	**BOTHELL SERVICE CENTER/ SIMON & SON**
Site Address:	18107 Bothell Way NE, Bothell WA 98011
Parcel Numbers:	237420-0065
Facility/Site No.:	33215922
Consent Decree No.:	18-2-02852-3 SEA (Effective date February 2, 2018)

Reporting Period: January – March 2020

Summary:

City of Bothell (PLP) continues to make progress on work being performed for the Bothell Service Center site (BSCSS), in accordance with the Consent Decree (CD) with the Department of Ecology.

Per the requirements of Section XI of the Consent Decree "Progress Reports", the attached quarterly progress report has been prepared for the three-month period preceding this submittal to satisfy the terms described in the Consent Decree.

During this period the work has been geared towards continued operation of the bio-remediation system and quarterly groundwater sampling.

The attached progress report provides an update on work accomplished for the period ending March 31, 2020. Please contact me if you have any questions.

Sincerely,

Nduta Mbuthia

Nduta Mbuthia
Project Coordinator, City of Bothell

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

City of Bothell™

Reporting Period:	Jan – Mar 2020
Date submitted (electronically):	April , 2020
Date mailed (certified w/return receipt):	April , 2020
Prepared by:	Nduta Mbuthia, Project Coordinator City of Bothell, Public Works Department Phone: 425.806.6829 Email: nduta.mbuthia@bothellwa.gov

CONTENTS

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

- Continued operation of the bio-remediation system
- Groundwater sampling was completed in January 2020; analytical data sent to Ecology
- Site meeting with Ecology site manager on February 14, 2020 following the accidental water main break in the project vicinity to Ecology on January 31, 2020

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

None. Note, however, that there was an incident involving damage to a live water main in the vicinity of the Wexler excavation work. As a result of this incident, some sampling activities were undertaken in the northern portion of the BSC site, in an area designated to be future Main St right of way; these samples were along a proposed trench alignment for a new replacement water line. This was described in detail in a Technical memo dated Feb 14, 2020 following a site visit by the Ecology site manager – see attached. Received Ecology's concurrence to proceed with new water line alignment through the northern portion of the BSC site.

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

N/A

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

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

Q1 – Winter 2019: March 5, 2019 – March 15, 2019
Q2 – Spring 2019: May 20, 2019 – June 3, 2019
Q3 – Summer 2019: July 15, 2019 - August 5, 2019
Q4 – Fall 2019: October 7, 2019 – October 25, 2019
Q5 – Winter 2020: January 6, 2020 – January 20, 2020
Q6 – Spring 2020: Week of April 6, 2020 through week of April 20, 2020
Q7 – Summer 2020: Week of July 6, 2020 through week of July 20, 2020
Q8 – Fall 2020: Week of October 5, 2020 through week of October 19, 2020

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

GW monitoring Winter 2020 quarter sampling results table attached

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

Attachments

- Updated Exhibit D from the CD (8-13-19)
- Memorandum – February 14, 2020 Site Visit Summary (RE: Water main break)
- Pertinent email correspondence
- Groundwater sampling tables

Exhibit D

Site Schedule of Work and Deliverables

	Deliverables	Due (Calendar Days)[1]
	A. Administrative	
A.1	Consent Decree entered by the King County Superior Court (Effective Date of the CD)	Within 5 days of the execution by the Parties
A.2	Notification of selected contractor name and qualifications	Within 5 days of the effective date of Consent Decree (A.1)
A.3	Progress Reports	Quarterly on the 10th of the month beginning after the effective date of the Consent Decree (A.1)
A.4	Financial Assurances – submit cost estimate for Ecology review and approval	Within 60 days of the effective date of Consent Decree
A.5	Financial Assurances - provide proof of financial assurances	Within 60 days after Ecology approves cost estimate (A.4)
	B. Design	
B.1	Draft Pre-Remedial Design (PRDI) Project Plans[2]	Within 5 days of the effective date of Consent Decree (A.1)
B.2	Draft PRDI Data Report and Draft Engineering Design Report (EDR)[3]	Within 5 days of Ecology approval of Final PRDI Project Plans (B.1)
B.3	Final PRDI Data Report and EDR Report	Within 5 days of receipt of Ecology's comments on the Draft PRDI Data and EDR Reports (B.2)
B.4	90 % Plans and Specs [per WAC 173-340-400(4)(b)]	Within 5 days of receipt of Ecology comments on Final EDR Report (B.3)
B.5	100 % Plans and Specs	Within 5 days of receipt of Ecology comments on 90 % plans and specifications (B.4)
	C. Field Construction	
C.1	Complete Construction Procurement	Within 5 days of completion of the 100% plans and specifications (B.1)
C.2	ERH System installation	Within 2 months of the effective date of Consent Decree
	ERH Operation	Within 6 to 8 months of the effective date of Consent Decree
C.3	Start install and begin operation of bioremediation-groundwater recirculation/SVE systems	Within 2 months of the effective date of Consent Decree
C.4	Install compliance monitoring well network	Within 2 months of the effective date of Consent Decree
C.5	Complete Construction	Within 2 months of the effective date of Consent Decree
C.6	ERH soil performance sampling	Within 6 to 8 months of the effective date of Consent Decree
C.7	Contingent soil excavation in ERH treatment area	Within 6 to 9 months of the ERH system shutdown

C.8	Decommission ERH; install and operate SVE system	Within 4 to 6 weeks of ERH system final shutdown. SVE system operation beginning March 2019.
C.9	Cleanup Action Report and As-Built Drawings and Report; Draft Environmental Covenant(s); and an updated Title Report	Within 60 days of decommission of SVE systems
D. Post Construction Work		
D.1	Final Environmental Covenant(s)	Within 30 days of receipt of Ecology comments on the Draft Environmental Covenant(s).
D.2	Record Final Environmental Covenant(s) with King County Auditor	Within 5 days after completion of the Final Environmental Covenant or Ecology's signature as grantee of the Final Environmental Covenant(s), whichever occurs last.
D.3	Performance Groundwater Monitoring Quarterly Performance Monitoring Biannual Performance Monitoring	Quarterly performance monitoring for one year starting Summer 2019; Biannual performance monitoring until PCE, and its breakdown products reach their applicable cleanup levels in the selected performance monitoring wells provided in CAP
D.4	Decommission Bioremediation/Groundwater Recirculation system	Upon attainment of cleanup levels in performance monitoring wells
D.5	Indoor Air Sampling (two rounds)	1st round - post-construction and pre-occupation of buildings 2nd round - upon completion of Groundwater Closure report per Section 7.0 of the BSCSS Final CAP
D.6	Groundwater Confirmation Monitoring Quarterly Compliance Monitoring	Quarterly for two years following completion of performance monitoring. As described in CAP, contingency of an additional year of quarterly sampling if cleanup levels not attained. After one additional year, if COC groundwater cleanup levels have not been reached, include a 5-year compliance sampling event for the duration of the environmental covenant.
D.7	As Built Drawings and Report of vapor intrusion mitigation measures (vapor barrier and passive venting systems), and other engineering and institutional controls (if any).	Within 30 days of the City's receipt from the developer
D.8	Five Year Compliance Monitoring and Periodic Review reports	To follow Groundwater compliance monitoring (D.6). Groundwater monitoring required once every five years for the duration of the institutional controls on groundwater (if present) under the environmental covenant.

1) *Schedule is in calendar days. Deliverable due date may be modified with Ecology concurrence without amendment to the Consent Decree.*
2) *Project Plans include the following: Work Plan, Sampling and Analysis Plan, Quality Assurance Project Plan, and Health and Safety Plan, to be submitted for Ecology review and approval. All plans will include a schedule for implementation as applicable.*
3) *The Engineering Design Report includes: a Construction Quality Assurance Project Plan, a Compliance Monitoring and Contingency Response Plan, Proposed Best Management Practices, Water Quality Monitoring Plan, and Substantive Requirements of Procedurally Exempt Permits. Ecology will not approve the Final EDR until the required permits have been obtained.*

From: John Kane
To: Cruz, Jerome (ECY)
Cc: Nduta Mbuthia; Jeff Jensen; John Kane
Subject: Kane Environmental - Water line alignment at Wexler
Date: Monday, February 10, 2020 5:20:31 PM
Attachments: Outlook-3h2stlmw.png
82305 - Wexler - Water Line Installation.pdf

Jerome:

Please open the attached Figure 1 with this email.

The city has decided to change the alignment for the public water line. They want to extend the water line from the current location in front of the SHAG development (which is in the new Main Street roadway) directly west to 98th Ave NE, and disconnect the water service that runs east along the former HWY 522 along the road just south of the BSCSS site and turns north through the Wexler soil excavation. The water line that will be disconnected is shown with dashes. The north-south water line through the Wexler soil excavation was previously disconnected prior to starting the Wexler soil excavation activity, so that portion of the water is already gone. Please note that the water line in front of SHAG and heading west to 98th Ave NE is the new Main Street roadway, so the new water line will not be located on Lot D.

In order to connect the current water line to 98th Ave NE, a trench needs to be excavated as shown on Figure 1. We have provided green dots where we propose to collect soil samples to make sure the soil is non-detect for HVOCs, but if HVOCs are detected, the soil will be transported to a Subtitle C landfill. The city would like to get this done as soon as possible, and since its not a large volume of soil, there is no need to apply for a Contained-In letter from Ecology. Soil sampling depths will extend to a depth of approximately 7-10 feet below ground surface to allow for ground elevation changes along the trench.

In order to complete the trenching and water line installation, the city needs to have the Bioremediation trailer and piping moved temporarily. We propose to move the trailer and piping further south on the BSCSS site, but still within the secured fencing. The automatic bioremediation system will need to be shut down for about a month. However, we propose to continue the Carbstrate injection during the month by applying Carbstrate manually into each injection well. We will check with the remediation contractor, but our plan is for a weekly dose to continue the Carbstrate volume currently injected by the automatic injection system. The city would like to disconnect the Bioremediation system sometime this week (week of 2/10/20).

Let's discuss this scope of work at your convenience.

From:	John Kane
To:	Cruz, Jerome (ECY)
Cc:	Nduta Mbuthia; Jeff Jensen; John Kane
Subject:	Response to Comments 2-11-2020 Kane Environmental - Water line alignment at Wexler
Date:	Tuesday, February 11, 2020 4:20:48 PM
Attachments:	image004.png Outlook-lserggow.png Wexler HASP .pdf

Jerome:

Responses to your questions from this morning.

- What will happen to the groundwater recirculation system?

  During the trenching and installation of the water line, the groundwater recirculation system will need to be deactivated for about 1 month as the power supply will be temporarily removed. The injection and extraction lines will need to be disconnected from the remediation trailer and temporarily moved to the south of the proposed trench. The extraction and injection which is run through the remediation trailer will temporarily cease to operate. During this time we propose to continue the Carbstrate injection by applying Carbstrate manually into each injection well. However, groundwater extraction will not occur during this temporary shutdown.

- Will the trenching and water line intersect the water table at any time of the year? What H&S measures will be taken with regard to working in areas of contamination from soil and/or groundwater?

  The eastern portion of the trenching (on the eastern end of the BSCSS former building concrete slab) will most likely intersect groundwater. Trenching will most likely extend to approximately 11 feet below ground surface (bgs) and in January of 2020, groundwater on this portion of the concrete slab was measured at approximately 8.22 feet bgs. The western majority of the trenching/water line will be above groundwater. We do not anticipate encountering any contaminated soil during trenching activities. Some of the soils encountered will most likely contain detectable concentrations of PCE and breakdown below their respective CULs. Soils that contain detectable concentrations of PCE and breakdown will be disposed of offsite to a regulated disposal facility. As for H&S, the excavation will be conducted by the contractor Wyser - the H&S plan that was submitted for this project is attached. Once the desired depth has been achieved, clean backfill will be placed in the trench for bedding of the pipe. Once the pipe has been installed, the trench will be backfilled with clean imported backfill. Therefore, exposure to any impacted soil should be minimal.

- Will the soil samples be bottom or sidewall? What did the RI show about contamination in the area of the proposed water line?

The proposed soil sampling locations noted in Figure 1 were actually soil boring locations to be advanced prior to trenching activities. The goal of this is to characterize the soil before the trenching begins to minimize work delay. 2 to 3 soil samples will be collected from each boring. During RI activities, PCE was detected in soils at concentrations below the MTCA Method A CUL in the eastern portion of the BSCSS concrete slab. Not a lot of soil sampling was conducted in the asphalt north of the concrete slab (in the northwestern portion of the BSCSS property) due to the delineation of contamination extent being essentially within the western portion of the BSCSS concrete slab. It should also be noted that the SVE system operated along the eastern and northeastern footprint of the BSCSS concrete slab so it is possible that PCE has been effectively removed in these soils.

- Should petroleum, BTEX, and metals such as arsenic be included in the soil analyses?
  Considering PCE and breakdown products were the Site specific COCs for this area of the BSCSS Site, we do not think it is necessary to analyze for those additional constituents.

- Will the water line be in contact with contaminated groundwater from the site? How will it be protected?
  The eastern portion of the water line may be in contact with the groundwater. The line itself will be ductile iron and the line is wrapped in sheeting so permeation should not be an issue.The trench will also be dewatered during pipe laying and backfilling - the effluent will be collected in Baker tanks and treated before being discharged to the sanitary sewer under a King County permit.

- Will the trench/water line become a preferential pathway for groundwater contamination?
  This is a possibility. To address this, we propose that at least two check dams (Control Density Fill (CDF) 4ft x 4ft) are installed along the line (one in the western portion and one in the eastern portion) to inhibit contaminant migration.

- Is this going to be a future trend where construction work during the cleanup will need Ecology notice and involvement or approval? Just want to be prepared. Maybe we need to memorialize or come up with a system to handle situations such as these.
  In this case, the proposed water line work is an emergency measure that has happened as a result of the water pipe break that occurred on 1/31/2020. Originally there was no plan to install a water line through the BSCSS site. However, since the 1/31 incident resulted in damage to approximately 600LF of water line (that we were not originally going to touch), the most reasonable resolution now is to install about 250LF along this new alignment. We felt that since the proposed work will temporarily disrupt the active cleanup efforts at the BSCSS Site by deactivating the groundwater recirculation system and supplementing with manual injections, your concurrence was required. In the future, when there are planned construction activities such as building construction during site development (e.g. once Lot D is sold), Ecology will be involved early on in the process, such as when the developer agreements are being crafted. Additionally, a large portion of the proposed work will be conducted within the BSCSS Site boundary and in areas where low level concentrations of PCE had previously been detected in soil so we wanted to be sure you were aware.

John

John Kane, CEO/President
Kane Environmental, Inc. | Environmental Issues. Business Solutions.
4015 13th Ave W., Seattle, WA 98119
D 206-691-0476 C 206-715-2779 Toll Free 1-844-529-KANE
jkane@kane-environmental.com www.kane-environmental.com
Seattle, WA | Tacoma, WA | Phoenix, AZ | Nationwide Services

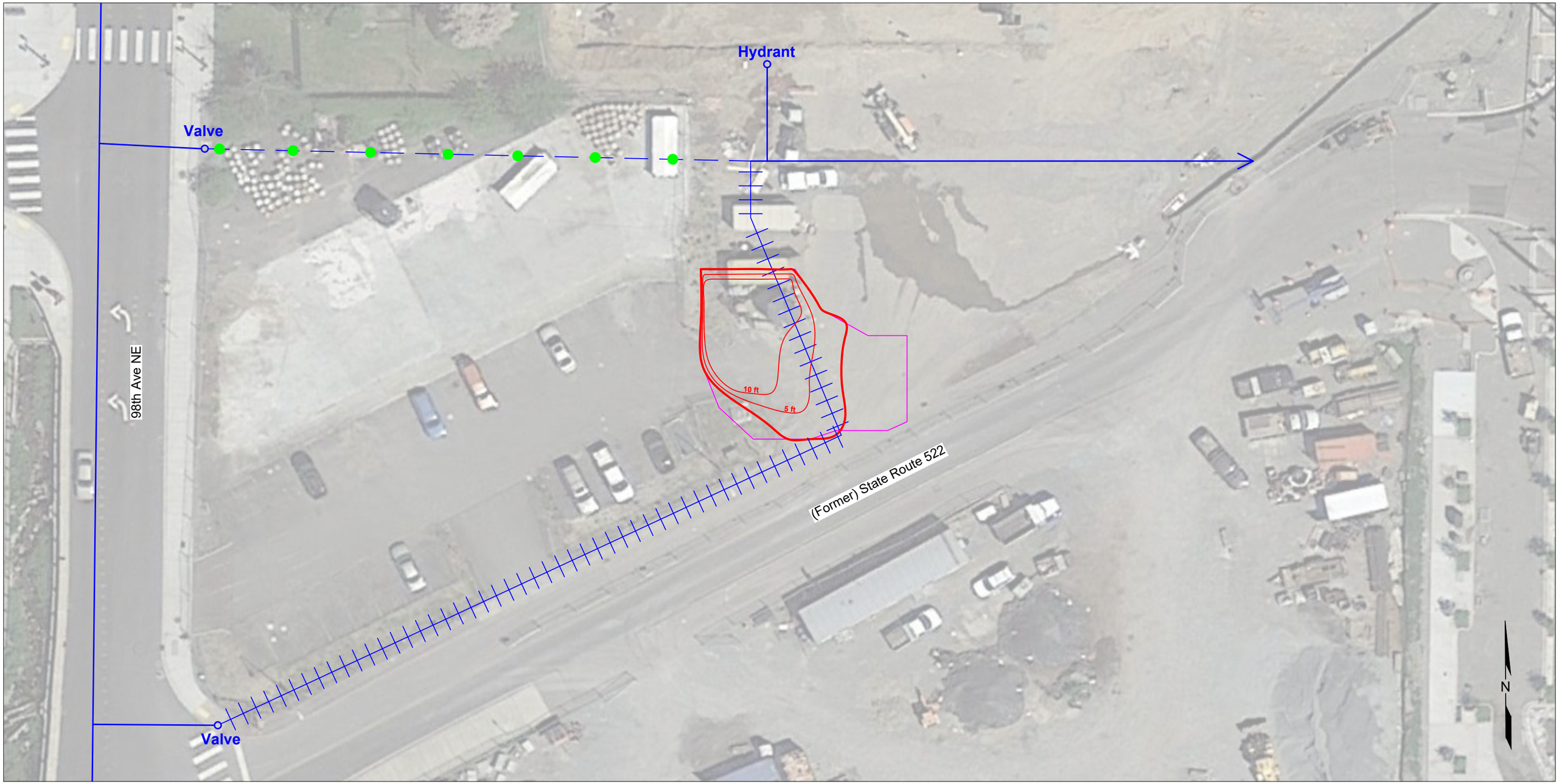
From: Cruz, Jerome (ECY) <JCRU461@ECY.WA.GOV>
Sent: Tuesday, February 11, 2020 9:02 AM
To: John Kane <jkane@kane-environmental.com>
Cc: Nduta Mbuthia <Nduta.Mbuthia@bothellwa.gov>; Jeff Jensen <Jeff@kane-environmental.com>
Subject: RE: Kane Environmental - Water line alignment at Wexler

John,
Yes, let's discuss. Some questions in the meantime:

- What will happen to the groundwater recirculation system?
- Will the trenching and water line intersect the water table at any time of the year? What H&S measures will be taken with regard to working in areas of contamination from soil and/or groundwater?
- Will the soil samples be bottom or sidewall? What did the RI show about contamination in the area of the proposed water line?
- Should petroleum, BTEX, and metals such as arsenic be included in the soil analyses?
- Will the water line be in contact with contaminated groundwater from the site? How will it be protected?
- Will the trench/water line become a preferential pathway for groundwater contamination?
- Is this going to be a future trend where construction work during the cleanup will need Ecology notice and involvement or approval? Just want to be prepared. Maybe we need to memorialize or come up with a system to handle situations such as these.

Thanks,

Jerome



Aerial Photo Source: Google Earth
Aerial Photo Date: May 22, 2017

LEGEND

- Approximate location of excavation extent as of 1/31/2020
- Approximate location of proposed excavation extent
- Approximate location of existing water line to remain in service
- Approximate location of permanently removed/decommissioned water line, not to be replaced
- Approximate location of proposed water line installation
- Approximate location of proposed soil boring

0 30 60
Approximate Scale in Feet

KANE ENVIRONMENTAL INC

Project No. 82305

Wexler Remedial Excavation
Bothell, Washington 98011

Figure 1
Proposed Water Line Installation

MEMORANDUM

To: Mr. Jerome Cruz
Washington State Department of Ecology

cc: Ms. Nduta Mbuthia
City of Bothell

From: John Kane
Kane Environmental, Inc.

Date: February 14, 2020

Re: Site Visit Summary
February 14, 2020

Thank you for meeting with Jeff Jensen and me this morning (Friday February 14, 2020) at the Bothell Service Center Simon & Sons (BSCSS) site in Bothell. This memorandum provides a summary of our discussions from this morning. Please note that this soil trenching location is the future location of the new Main Street East-West roadway extension, and the activity is consistent with the City of Bothell policy of installing public utilities within City right-of-ways.

Due to the fire hydrant water line release during the Wexler soil excavation activity on Friday January 31, 2020, approximately 600 linear feet of water line was damaged. As an emergency measure, the City of Bothell proposed the installation of approximately 250 linear feet of water line to extend east from the water main located in 98th Avenue NE, near the northwest corner of the BSCSS Site, through the northern portion of the BSCSS Site to connect to the existing main located to the south of the SHAG building. This location also represents the future location of the new Main Street. The Bothell Fire department has requested that the water line installation be completed as soon as possible, expressing concerns related to the reduced fire flow capacity (currently at 85%) due to the loss of the 600 linear feet. In order to install the new water line, a trench will be advanced across the northern portion of the BSCSS Site to depths ranging between 4 to 10 feet below ground surface (bgs). One of the factors inhibiting the swift execution of the trenching and subsequent installation is the current location of the BSCSS bioremediation /groundwater recirculation system. A temporary power unit, which supplies power to the bioremediation /groundwater recirculation system is located in the northwest corner of the BSC property, directly within the path of the proposed water line. Additionally, injection and extraction conveyance lines, as well as electrical conduit supplying the extraction pumps, are located along the eastern portion of the BSC property, also directly within the path of the proposed water line.

Kane Environmental evaluated different alternatives for the automatic bioremediation /groundwater recirculation (Bio/GR) system at BSCSS during the trench excavation along the new Main Street. The trench will be located just south of the Bio/GR trailer, so the trailer does not need to be moved. However, bioremediation product lines and electrical power to the well pumps in the extraction wells need to be disconnected during the trench activity. Kane Environmental evaluated three alternatives to address the Bio/GR trailer:

The first alternative was to provide power to the trailer using a large generator that would keep the well extraction pumps and injection pumps inside the trailer powered on. This would include having to move the trailer to the south of the trench excavation, along with all the hose and the three 500-gallon water tanks currently located next to the trailer. Furthermore, noise from the external gasoline generator is of concern since the SHAG building is now fully functioning with tenants, and a 24/7 generator would cause significant noise. Additionally, an aboveground gasoline fuel tank would be required for the generator, which we considered both a safety concern and some time needed to get it permitted as an active gasoline AST.

The second alternative is to move the power from the northwest corner further to the east along the northern boundary of the BSCSS property. The time needed to get the new power location approved by Puget Sound Energy and then retain the electrical contractor to move and install the new system would take too much time to address the current immediate need to connect the fire water line system.

The third alternative is to disconnect the Bio/GR system and add the bioremediation product to the injection wells manually for the duration of the water line installation. Kane Environmental will also collect groundwater samples from 4 wells (Figure 1 provided with this email) to monitor the HVOC concentration in these wells to confirm that the contaminant plume is not expanding during the shutdown time period. Please note that it is possible that the shutdown may be two to three weeks, and not an entire month. We are using a month for the estimate in case there are any unexpected delays in the trenching and water line installation activity.

Per our discussion, we are moving forward with the third alternative.

Wexler Excavation Status

We also discussed the possibility that the extent of the petroleum-contaminated soil could have some preferential distribution to the east and/or west of the currently characterized soil contamination on the Wexler Settlement Area. If east/west preferential distribution is observed along the former Hwy 522 roadway, Kane Environmental will contact you immediately. It is our understanding that this may alter the

location(s) for some of the compliance monitoring wells for the Wexler Settlement Area, but that will be determined at a later date after the soil excavation has been completed.

BSCSS Gio/GR Status

Kane Environmental informed you that groundwater PCE concentrations in some of the previously elevated PCE groundwater wells have significantly decreased in PCE in the latest Winter 2020 sampling round. We will provide you with an updated PCE isopleth map and groundwater data tables after we receive all the final groundwater data from the laboratory for the Winter 2020 sampling round.

From:	Cruz, Jerome (ECY)
To:	John Kane; Nduta Mbuthia
Subject:	[EXTERNAL] RE: Memo - Summary of FEb 14 Site Visit at Bothell, Main St water line
Date:	Thursday, February 20, 2020 9:13:31 AM
Attachments:	image005.png Response to Comments 2-11-2020 Kane Environmental - Water line alignment at Wexler.msg Kane Environmental - Water line alignment at Wexler.msg

Hi John and Nduta,
Ecology concurs with the City's request for water line alignment at the Wexler excavation/Bothell Service Center Simon & Son site. Please ensure the tasks in your February 14, 2020 memorandum and your emails dated February 10, 2020 and February 11, 2020 (attached) are followed.
Jerome

DEPARTMENT OF ECOLOGY State of Washington

Jerome B. Cruz, Ph.D.
Toxics Cleanup Program, Northwest Regional Office
3190 - 160th SE Bellevue, WA 98008
Tel: (425) 649-7094 Fax: (425) 649-7098
Jerome.Cruz@ecy.wa.gov
http://www.ecy.wa.gov/programs/tcp/cleanup.html

From: Cruz, Jerome (ECY)
Sent: Tuesday, February 18, 2020 8:27 AM
To: 'John Kane' <jkane@kane-environmental.com>
Cc: Nduta Mbuthia <Nduta.Mbuthia@bothellwa.gov>
Subject: RE: Memo - Summary of FEb 14 Site Visit at Bothell, Main St water line

Hi John,
Thanks for the memo. I am seeking final confirmation internally before I give a more official response.

I wanted to follow up with my request for a more accurate map of the Paint and Decorating confirmation wells juxtaposed with the parcel boundaries and ICAs.

Thanks,

Jerome

DEPARTMENT OF ECOLOGY State of Washington

Jerome B. Cruz, Ph.D.
Toxics Cleanup Program, Northwest Regional Office

3190 - 160th SE Bellevue, WA 98008
Tel: (425) 649-7094 Fax: (425) 649-7098
Jerome.Cruz@ecy.wa.gov
http://www.ecy.wa.gov/programs/tcp/cleanup.html

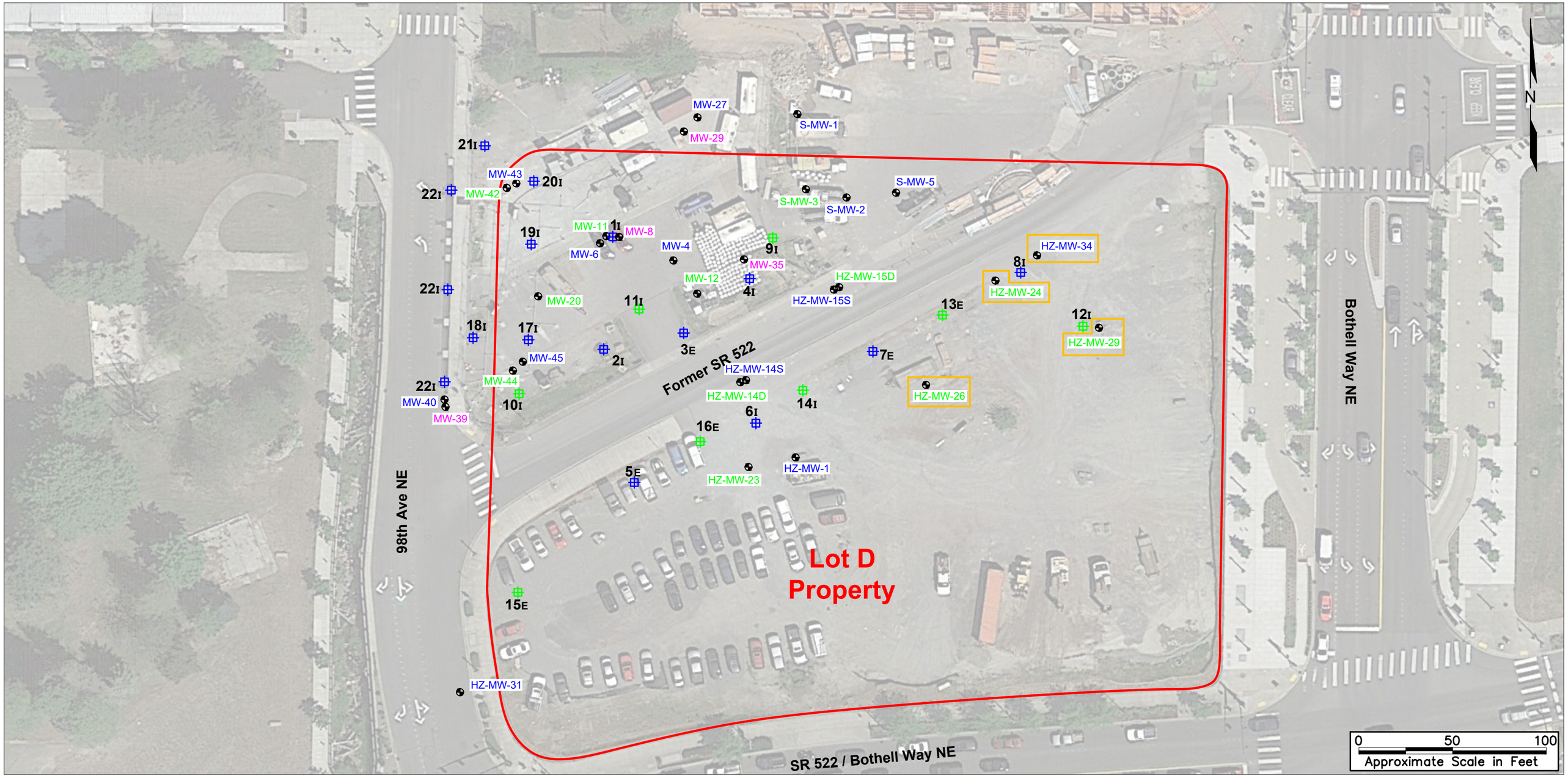
From: John Kane [mailto:jkane@kane-environmental.com]
Sent: Monday, February 17, 2020 4:24 PM
To: Cruz, Jerome (ECY) <JCRU461@ECY.WA.GOV>
Cc: Nduta Mbuthia <Nduta.Mbuthia@bothellwa.gov>; John Kane <jkane@kane-environmental.com>
Subject: Memo - Summary of FEb 14 Site Visit at Bothell, Main St water line

Jerome:

Memorandum attached regarding our site visit on Friday February 14, 2020 for the Main St. water line installation.

John

John Kane, CEO/President
Kane Environmental, Inc. | Environmental Issues. Business Solutions.
4015 13th Ave W., Seattle, WA 98119
D 206-691-0476 C 206-715-2779 Toll Free 1-844-529-KANE
jkane@kane-environmental.com www.kane-environmental.com
Seattle, WA | Tacoma, WA | Phoenix, AZ | Nationwide Services



LEGEND

- MW-1 — Location of shallow monitoring well (screened 5-25 ft bgs)
- MW-2 — Location of intermediate monitoring well (screened 25-35 ft bgs)
- MW-3 — Location of deep monitoring well (screened 35-55 ft bgs)
- Approximate location of shallow injection/extraction well (screened 5-25 ft bgs)
- Approximate location of intermediate/deep injection/extraction well (screened 25-55 ft bgs)
- E — Extraction well
- I — Injection well
- Well location to monitor while GW recirculation system deactivated

KANE ENVIRONMENTAL INC

Bothell Service Center Simon & Son
Compliance Groundwater Monitoring Wells
& Bioremediation Injection/Extraction Wells

Figure 1
Site Plan

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
MW-1	Shallow *Decomissioned*	5 to 20	46.952	3/16/01			ERM	**113**	**38.3**	**28.1**	*<1.0*													
				7/13/01			ERM	**23.7**	**10.3**	**4.82**	*<1.0*													
				10/26/01			ERM	**8.71**	**2.84**	**1.29**	*<1.0*													
				12/2/02			ERM	**239**	**380**	**1,200**	*<1.0*													
				10/1/02			Farallon	**6.8**	**6.4**	**17**		6.5		196.0	1.14	13.8								
				4/27/05			Farallon	**2,600**	**80**	**53**		6.7		201.0	3.02	97.6								
				8/15/05			Farallon	**12,000**	*<50*	*<50*														
				8/14/06			Farallon	**18,000**	*<200*	*<200*		5.9		284.0	0.9	499								
				5/14/07			Farallon	**12,000**	*<50*	**63**		6.1		249.0	2.27	448								
				11/27/07			Farallon	**11,000**	*<100*	*<100*		6.6		233.0	4.87	135								
				8/26/08			Farallon	**23,000**	*<200*	*<200*		6.3		189.0	1.87	175		22			13.1	<1.2	<1.1	3.25
				1/9/09			Farallon	**450**	**10**	**6.6**		6.3		88.0	10.5	120		8.8			<0.5	<0.5	<0.5	2.95
				6/11/09			Farallon	**17,000**	*<100*	*<100*		6.1		242.0	2.32	80.1		18			8.6	<0.5	<0.5	2.2
				9/14/09			Farallon	**31,000**	*<200*	*<200*		6.3		328.0	0.74	158		21			28	<2.5	<2.5	3.7
				5/27/10			Farallon	**23,000**	*<100*	*<100*	*<100*	6.4		200.0	2.26	58.4								
				9/9/10			Farallon	**24,000**	*<200*	*<200*	*<200*	6.8		249.0	0.38	0.3		20			14	<1.0	<1.0	2.6
				6/10/11			Farallon	**1,900**	**42**	**52**	*<10*	6		141.0	5.6	39.3		13			1.1	<0.5	<0.5	4.3
				3/21/13			DOF	**8,000**	**56**	**81**	<0.2	6.7		203.0	5.5	68.4					4.5	<1.2	<1.1	11.8
				4/4/14			DOF	**270**	**16**	**49**	<0.02	7.1		117.0	5.5	-14					<0.7	<1.2	<1.1	8.28
				10/10/14			DOF	**28,000**	**160**	**140**	*<2.0 U*	6.3		348.0	0.3	18.6					36.8	<1.2 U	<1.1 U	3.15
				11/11/15	10.07	36.92	HWA	**14,000**	**92**	**87**	*<50*	6.06		341.0	3.89	80.4		19			0.76	<0.50	<0.50	2.9
				9/21/16	9.14	37.81	Kane	**6,700**	**170**	**610**	**160**	6.29		325.0										
				10/25/16	7.72	39.23	Kane	**160**	**6.6**	**16**	*<2.0*	6.33	18.4	202.0										
MW-2	Shallow *Decomissioned*	5 to 20	48.897	3/16/01			ERM	**13,800**	**834**	**106 ES**	*<1.0*													
				7/13/01			ERM	**419**	**16.4**	<1.0	*<1.0*													
				10/26/01			ERM	**532**	*<20.0*	*<20.0*	*<20.0*													
				2/12/02			ERM	**81.5**	**8.08**	<1.0	*<1.0*													
				10/1/02			Farallon	**18**	**0.65**	<0.2		6.4		319.0	0.89	-30								
				4/27/05			Farallon	**2,600**	**44**	<10		5.8		319.0	0.42	149.2								
				8/15/05			Farallon	**29,000**	*<200*	*<200*														
				8/14/06			Farallon	**32,000**	**300**	**240**		5.8		317.0	0.97	478.5								
				5/14/07			Farallon	**6,100**	**40**	**38**		6		264.0	0.7	479.8								
				11/27/07			Farallon	**38,000**	*<200*	*<200*		6.5		300.0	1.18	117.8								
				8/26/08			Farallon	**500**	**200**	**2,300**		6.4		286.0	2.26	-69.2		5.3			1330	<1.2	<1.1	25.9
				1/8/09			Farallon	**270**	**550**	**290**		6.5		296.0	0.56	24.7		7.3			500	<50	<50	6.36
				6/11/09			Farallon	**1,100**	**1,400**	**1,700**		6.3		294.0	0.73	60.9		8.5			4400	<500	<500	6.4
				9/14/09			Farallon	**1,700**	**2,200**	**7,800**		6.3		323.0	0.68	147.5		12			3800	<500	<500	13
				5/27/10			Farallon	**240**	*<60*	**12,000**	**70**	6.1		512.0	0.31	-15.9								
				9/9/10			Farallon	*<200*	*<200*	**6,400**	*<200*	6.5		420.0	0.21	-49.3		<5			9700	<500	<500	39
				6/10/11			Farallon	**150**	**1,100**	**11,000**	**3,200**	6.2		809.0	0.34	-101.4		<10			5200	<380	680	71
				3/20/13			DOF	**540**	**690**	**14,000**	830 ES	7.4		561.0	0.31	-111					15900	<1.2	1240	27
				4/7/14			DOF	**390**	**630**	**5,300**	**850**	7.2		320.0	0.3	-352					14500	<1.2	388	8.26
				10/10/14			DOF	**320**	**93**	**8,900**	**1,900**	6.2		382.0	0.2	-117					9760	<1.2 U	349	7.49
				11/11/15	10.17	38.74	HWA	**2,400**	**4,100**	**15,000**	**1,200**	5.78		463.0	0.00	-85.9		39			5900	<380	580	11
				9/23/16	9.89	39.01	Kane	**8**	**6.6**	**8.1**	**6.6**	6.59		241.0										
				11/1/16	8.31	40.59	Kane	**8.3**	**6.1**	**10**	**11**	6.31	15.3	244.0										
MW-3	Shallow	5 to 20	47.957	3/16/01			ERM	<1.0	<1.0	<1.0	*<1.0*													
				10/26/01			ERM	<1.0	<1.0	<1.0	*<1.0*													
				2/12/02			ERM	<1.0	<1.0	<1.0	*<1.0*													
				10/1/02			Farallon	**0.37**	<0.2	<0.2		5.9		284.0	1.12	30.8								
				4/27/05			Farallon	<0.2	<0.2	<0.2		5.5		275.0	0.96	132								
				8/14/06			Farallon	<0.2	<0.2	<0.2		5.8		307.0	1.95	456								
				5/14/07			Farallon	<1.0	<0.2	<0.2		5.7		264.0	1.75	408								
				11/27/07			Farallon	<1.0	<0.2	<0.2		6.2		330.0	0.76	78								2.47
				8/25/08			Farallon	<0.2	<0.2	<0.2		5.9		172.0	2.88	374		18			<1	<1.2	<1.1	2.58
				4/7/14			DOF	<0.2	<0.2	<0.2	<0.02	6.4		192.0	0.7	-71					2960	<1.2	<1.1	4.17
				10/10/14			DOF	**0.39**	<0.2 U	<0.2 U	<0.02 U	5.7		339.0	0.3	-0.9					1570	<1.2 U	<1.1 U	9.82
				9/23/16	8.26	39.70	Kane	**0.22**	<0.20	<0.20	<0.20	6.10		243.0										
				11/1/16	6.87	41.09	Kane	<0.20	<0.20	<0.20	<0.20	6.00	16.1	305.0										
				7/17/18	7.95	40.01	Kane	<1.00	<0.50	<1.00	<0.20	6.30	17.2	144.0	11.37									

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				9/11/18	8.69	39.27	Kane	<1.00	<0.50	<1.00	<0.20	6.20	18.9	118.0	6.23	116.9	<100	19	2.94	<0.100	<0.00863	<0.0162	<0.0151	2.37
				12/5/18	7.93	40.03	Kane	<1.00	<0.50	<1.00	<0.20	5.90	15.3	62.5	38.7	6.94	<100	3.18	2.79	<0.100	<0.00863	<0.0162	<0.0151	2.7
				2/12/19	7.79	40.167	Kane	<1.0	<0.50	<1.0	<0.20	6.03	12	57.5	8.2	141.5	<100	4.16	3	<0.10	<0.00863	<0.0162	<0.0151	2.36
				6/4/19	7.96	39.997	Kane	**0.72**	<0.20	<0.20	<0.20	6.35	15.5	62.1	9.97	3.6	<56	<5.0	3.4	<0.05	<0.001	<0.0005	<0.0005	2.1
MW-4	Shallow	10 to 25	45.717	7/13/01			ERM	**9,390**	**58.8 ES**	**86ES**	*<1.0*													
				10/26/01			ERM	**8,960**	**74.7 ES**	**103 ES**	*<1.0*													
				2/12/02			ERM	**11,000**	**93.4 ES**	**133 ES**	*<1.0*			.										
				10/1/02			Farallon	**21,000**	**230**	**400**		6.6		282.0	0.98	101								
				4/28/05			Farallon	**6,700**	**160**	**110**		6.6		305.0	0.83	97.4								
				8/15/06			Farallon	**8,500**	**210**	**250**		5.7		311.0	0.79	504								
				5/14/07			Farallon	**8,600**	**370**	**160**		6.1		319.0	0.64	449								
				11/27/07			Farallon	**5,400**	**220**	**120**		6.8		299.0	1.09	114								
				8/26/08			Farallon	**11,000**	**790**	**270**		6.2		248.0	2.91	159		26			5.5	<1.2	<1.1	1.59
				1/9/09			Farallon	**5,200**	**250**	**180**		6.7		289.0	0.57	25.6		24			51	<5	<5	2.47
				6/11/09			Farallon	**1,600**	**2,000**	**240**		6.3		285.0	0.63	61.7		15			310	<25	<25	2.1
				9/14/09			Farallon	**10,000**	**890**	**510**		6.1		290.0	0.59	167		17			5400	<500	<500	1.8
				5/27/10			Farallon	**5,800**	**310**	**1,200**	*<50*	6.7		255.0	0.32	-32.1								
				9/10/10			Farallon	**4,700**	**310**	**620**	*<20*	7		239.0	0.33	-10.2		19			4200	<500	<500	1.4
				6/10/11			Farallon	**3,300**	**160**	**970**	*<20*	6.8		287.0	0.34	-30.3		19			4100	<500	<500	1.7
				3/21/13			DOF	**1,400**	**140**	**530**	**0.85**	6.8		337.0	1.1	45.6					16400	<1.2	<1.1	5.68
				4/4/14			DOF	**1,500**	**160**	**1,900**	**5.6**	6.8		290.0	0.5	-53					15200	<1.2	<1.1	1.63
				10/10/14			DOF	**2,000**	**140**	**240**	*<1.0 U*	6		306.0	0.1	4.8					14400	<1.2 U	<1.1 U	1.75
				11/11/15	9.28	36.46	HWA	**960**	**120**	**1,100**	*<10*	6.12		342.0	0.00	-54.4		15			3300	<250	<16	1.4
				9/22/16	8.51	37.21	Kane	**380**	**71**	**1,300**	*<10*	6.28		433.0										
				10/31/16	6.91	38.81	Kane	**3,800**	**900**	**7,400**	*<50*	6.52	16.2	364.0										
				9/17/18	8.89	36.83	Kane	**4,060**	**360**	**1,740**	**11.9**	6.59	16.7	312.0	0.09	16.8	977	16.3	15.4	<0.100	3.79	<0.0162	<0.0151	3.94
				11/30/18	7.67	38.05	Kane	**4,370**	**373**	**1,720**	*<10*	6.35	16.2	347.4	0.12	50	604	18.8	16	<0.100	0.721	<0.162	<0.151	3.1
				2/22/19	7.23	38.49	Kane	**4,080**	**343**	**1790**	**9.72**	6.49	13.9	311.5	0.22	19.9	<100	16.2	16.5	<0.10	4.12	<0.0162	<0.0151	1.94
				5/23/19	7.59	38.13	Kane	**5,500**	**370**	**1,100**	**<30**	6.57	19.5	353.5	0.12	27.4	2100	17	16	<0.050	9.5	<0.50	<0.50	2.9
				7/16/19	8.13	37.59	Kane	**3,700**	**590**	**1,400**	**9.1**	6.26	20	354.3	0.06	-69	6,300	15	15	<0.050	5.2	<0.0005	<0.0005	2.3
				10/18/19	8.04	37.68	Kane	**1,900**	**390**	**940**	**7.5**	6.14	20.3	321.2	0.04	15.4	5,400	12	15	<0.050	11	<0.0005	<0.0005	3.7
				1/27/20	7.15	38.57	Kane	**1,600**	**250**	**760**	**6.7**	6.49	18.2	316.4	0.04	23.6	3,300	11	14	<0.050	8.0	<0.00022	<0.00029	2.1
MW-5	Shallow	10 to 25	44.297	7/13/01			ERM	**2,650**	**14.5**	**31.1**	*<1.0*													
				10/26/01			ERM	**1,670**	*<100*	*<100*	*<100*													
				2/12/02			ERM	**1,310**	**18.2**	**38.5**	*<1.0*													
				10/1/02			Farallon	**3,900**	**72**	**170**		6.2		185.0	0.84	70.6								
				4/28/05			Farallon	**2,200**	**56**	**76**		5.6		262.0	1.25	150								
				8/15/05			Farallon	**640**	**12**	**20**														
				8/14/06			Farallon	**10,000**	**240**	**270**		5.7		259.0	0.91	470								
				5/14/07			Farallon	**650**	**16**	**23**		5.7		290.0	1.63	448								
				11/27/07			Farallon	**1,300**	**25**	**31**		6		262.0	7.09	128								.
				8/26/08			Farallon	**21,000**	**660**	**630**		6		203.0	3.29	273		32			5.7	<1.2	<1.1	1.95
				5/27/10			Farallon	**6,600**	**400**	**240**	*<50*	6		198.0	0.55	109								
				3/21/13			DOF	**3,100**	**220**	**180**	<0.2	6.4		304.0	0.4	69.8					5940	<1.2	<1.1	3.94
				4/4/14			DOF	**1,300**	**79**	**65**	**0.03**	6.7		257.0	0.1	-35					2570	<1.2	<1.1	1.59
				10/10/14			DOF	**7,600**	**220**	**140**	*<10 U*	5.8		163.0	0.1	13.7					3260	<1.2 U	<1.1 U	1.78
				11/11/15	9.04	35.30	HWA	**2,200**	**93**	**76**	*<20*	5.87		170.0	1.87	29.6		20			3200	<250	<21	<1.0
				9/21/16	8.11	36.19	Kane	**910**	**39**	**35**	*<10*	5.96		170.0										
				10/24/16	6.38	37.92	Kane	**590**	**26**	**29**	*<4.0*	6.22	16.1	291.0										
				9/14/18	8.27	36.03	Kane	**2,220**	**33.9**	**24**	<0.20	5.88	16.4	193.0	0.37	166	<100	17.7	14.6	<0.100	0.303	<0.0162	<0.0151	3.1
				12/3/18	6.29	38.01	Kane	**58.5**	**13.6**	**1.13**	<0.20	6.05	15.1	325.0	0.08	19.5	1,810	15.7	7.48	<0.100	<0.00863	<0.0162	<0.0151	3.79
				6/10/19	6.93	37.37	Kane	**140**	**81**	**280**	**4.1**	6.53	16.4	548.0	0.22	-6.2	20,000	6.6	12.0	1.8	1.6	<0.250	<0.250	3.8
MW-6	Shallow	10 to 25	47.142	7/13/01			ERM	**30,000**	**618**	**231 ES**	*<1.0*													
				10/26/01			ERM	**13,500**	*<400*	*<400*	*<400*													
				2/12/02			ERM	**21,800**	**1,110 ES**	**406 ES**	*<1.0*													
				10/1/02			Farallon	**27,000**	**1,100**	**470**		6.6		201.0	0.92	95.2								
				4/27/05			Farallon	**15,000**	**1,100**	**460**		6.2		235.0	3.14	119								
				8/15/05			Farallon	**30,000**	**1,500**	**930**														
				8/14/06			Farallon	**24,000**	**1,100**	**1,500**		5.8		335.0	1.06	483								
				5/14/07			Farallon	**17,000**	**860**	**1,300**		6		296.0	2.18	471								

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				11/27/07			Farallon	**22,000**	**940**	**1,300**		6.6		285.0	2.75	149								
				8/26/08			Farallon	**25,000**	**1,200**	**1,200**		6.1		256.0	2.34	273		23			8.2	<1.2	<1.1	3.12
				1/9/09			Farallon	**12,000**	**610**	**440**		6.5		190.0	4.94	115		15			2.9	<0.5	<0.5	2.54
				6/11/09			Farallon	**20,000**	**780**	**710**		6		270.0	1.96	98		20			8	<0.5	<0.5	2.1
				9/14/09			Farallon	**23,000**	**1,200**	**870**		6.3		315.0	0.74	158		23			8.8	<0.5	<0.5	3.1
				2/25/10			Farallon	**17,000**	**730**	**450**	*<100*	6.4		176.0	2.49	170								
				5/27/10			Farallon	**13,000**	**480**	**320**	*<60*	6.6		250.0	0.3	38.1								
				9/10/10			Farallon	**860**	**430**	**8,300**	*<50*	6.6		492.0	0.34	-67.2		<5			64	<6.0	<6.0	19
				6/10/11			Farallon	**460**	**72**	**2,100**	*<20*	6.5		561.0	0.44	-178		<5			490	<50	<50	33
				3/20/13			DOF	**500**	**140**	**9,600**	56 ES	7.3		444.0	0	-144					5790	<1.2	2	12.3
				4/4/14			DOF	**950**	**220**	**240**	**19**	6.8		243.0	0.4	-142					1620	<1.2	<1.1	1.93
				10/10/14			DOF	**73**	**28**	**6,600**	**2,700**	6.6		623.0	0.3	-139					6220	<1.2 U	1200	12.9
				11/11/15	10.23	36.98	HWA	**26**	*<20*	**3,800**	**2,900**	6.37		749.0	0.00	-110.1		<10			3400	<250	850	11
				9/23/16	9.31	37.83	Kane	**240**	**69**	**10,000**	**2,400**	6.81		559.0										
				10/27/16	7.87	39.27	Kane	*<50*	*<50*	**9,500**	**1,900**	6.60	17.5	410.0										
				7/17/18	8.92	38.22	Kane	**27.4**	**14.3**	**4,480**	**851**	6.91	20.3	365.0	0.00									
				9/18/18	9.51	37.63	Kane	**738**	**238**	**2,620**	**472**	6.39	34.8	383.0	0.07	-42.6	6,340	20.1	14.2	0.162	0.666	<0.062	0.0596	9.01
				12/21/18	8.79	38.35	Kane	**2,670**	**1,000**	**2,560**	**25.5**	5.96	49.4	378.0	0.23	-65.4	5,260	8.68	11.2	0.413	0.0808	<0.162	<0.151	14.3
				2/22/19	7.79	39.35	Kane	**1,820**	**568**	**1040**	**14**	6.16	42.6	295.1	0.15	-52	5,800	13	7.69	<0.10	0.706	<0.0162	<0.0151	13.2
				5/22/19	8.46	38.68	Kane	**3,800**	**1,800**	**750**	*<20*	6.14	43.7	407.0	0.04	-70.8	8,800	<5.0	14	0.16	1	0.0012	<0.0005	20
				7/25/19	9.06	38.08	Kane	**3,600**	**1,100**	**490**	**7.4**	6.16	41.5	401.0	0.04	-108.1	9,200	<5.0	14	0.18	0.73	<0.0005	0.019	22
				10/21/19	8.76	38.38	Kane	**74**	**38**	**1,200**	**3.2**	6.08	31.3	562.0	0.04	-74.6	13,000	<5.0	16	0.12	2.3	<0.0005	0.00094	19
				1/22/20	7.77	39.37	Kane	**10**	**5**	**170**	**74**	6.62	20.9	364.9	--	-77.8	12,000	<5.0	10	0.11	4.3	<0.00022	<0.00029	8.4
MW-7	Shallow	10 to 25	45.527	7/13/01			ERM	**10,100**	**35**	**30**	*<1.0*													
				10/26/01			ERM	**4,880**	**15**	**13.8**	*<1.0*													
				2/12/02			ERM	**3,800**	**10.5**	**9.28**	*<1.0*													
				10/1/02			Farallon	**9,600**	*<100*	*<100*		6.7		214.0	0.71	-22.6								
				4/28/05			Farallon	**1,100**	*<10*	<10		6.2		315.0	0.84	126								
				8/15/05			Farallon	**4,900**	**27**	*<20*														
				8/14/06			Farallon	**4,000**	*<40*	*<40*		6.1		303.0	0.82	386								
				5/14/07			Farallon	**320**	**2.7**	<2.0		6.2		352.0	0.54	437								
				11/27/07			Farallon	**1,200**	*<10*	<10		6.9		336.0	0.38	76.6								
				8/26/08			Farallon	**4,300**	**43**	**43**		6.5		240.0	2.74	116		25			42.6	<1.2	<1.1	2.1
				1/8/09			Farallon	**760**	**7.8**	**4.8**		6.7		330.0	0.7	84.3		27			110	<5.0	<5.0	3.6
				6/11/09			Farallon	**2,100**	**34**	**33**		6.5		340.0	0.62	62.3		25			140	<10.0	<10.0	2.3
				9/14/09			Farallon	**6,300**	**120**	**79**		6.3		318.0	0.72	170		24			23	<2.5	<2.5	1.9
				5/27/10			Farallon	**830**	**18**	**14**	*<10*	6.6		289.0	0.63	-22.6								
				9/9/10			Farallon	**5,400**	**110**	**55**	*<50*	6.8		295.0	0.31	-21.4		24			190	<25.0	<25.0	1.7
				6/10/11			Farallon	**810**	**24**	**16**	*<4.0*	6.7		346.0	0.52	-43.5		16			240	<10.0	<10.0	2.4
				3/21/13			DOF	**3,300**	**140**	**240**	**0.28**	7		385.0	0.21	-3.6					741	<1.2	<1.1	6.29
				4/4/14			DOF	**2,100**	**130**	**750**	**2.3**	7.1		329.0	0.6	-47					989	<1.2	<1.1	2.57
				10/11/14			DOF	**6,200**	**380**	**3,400**	**10**	6.3		391.0	0.1	-27					6580	<1.2 U	<1.1 U	2.44
				11/11/15	10.12	35.45	HWA	**950**	**42**	**240**	*<10*	6.32		282.0	0.00	12.5		16			290	<25	<2.0	2.5
				9/21/16	8.92	36.61	Kane	**3,800**	**160**	**1,300**	*<20*	6.32		350.0										
				10/25/16	8.21	37.32	Kane	**450**	**32**	**280**	*<4.0*	6.88	15.7	323.0										
				10/26/16	7.3	38.23	Kane					6.62	14.9	316.0				22		<0.050				2.8
				9/18/18	9.12	36.41	Kane	**1,370**	**78.1**	**673**	**5.85**	6.69	15.8	369.0	0.12	17.3	2,620	37	5.48	<0.100	1.29	<0.0162	<0.0151	3.84
				11/30/18	8.9	36.63	Kane	**2,670**	**305**	**1,440**	*<10*	6.41	15.1	411.3	0.11	30.8	1,620	35	8.5	<0.100	0.197	<0.162	<0.151	4.18
				5/24/19	7.96	37.57	Kane	**1,000**	**84**	**240**	*<10*	6.68	13.6	409.5	0.16	-9.2	3,900	37	6.1	<0.050	0.049	<0.003	<0.003	2.3
MW-8	Deep	45 to 50	47.387	10/1/02			Farallon	**51**	**0.98**	**0.88**		7		487.0	0.73	-355								
				4/28/05			Farallon	**6.4**	<0.2	<0.2		6.3		186.0	0.97	104								
				8/15/06			Farallon	**0.44**	<0.2	<0.2		6.2		167.0	2.43	447								
				5/14/07			Farallon	**4.3**	<0.2	<0.2		6.1		145.0	2.89	419								
				11/27/07			Farallon	**2.2**	<0.2	<0.2		6.7		164.0	0.54	80.7								
				5/22/08			Farallon	**79**	**7.2**	**12**		6.2		139.0	5.8	153								
				8/25/08			Farallon	**93**	**4.8**	**4.4**		6.3		118.0	2.1	391		12			<0.7	<1.2	<1.1	<1.5
				3/20/13			DOF	**33**	**1**	**2**	<0.02	6.7		218.0	0.06	10.1					649	<1.2	<1.1	6.04
				4/4/14			DOF	**130**	**37**	**41**	<0.02	6.8		181.0	1	-44					<0.7	<1.2	<1.1	1.98
				10/11/14			DOF	**150**	**37**	**140**	**0.2**	6.2		190.0	0.9	49.1					43.3	<1.2U	<1.1U	1.99
				11/11/15	10.82	36.63	HWA	**180**	**50**	**160**	<1.0	6.06		225.0	0.85	-26.8		13			19	<1.0	0.59	2.2

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				9/22/16	9.71	37.68	Kane	**50**	**6.2**	**25**	<0.20	6.33		229.0										
				10/26/16	8.48	38.91	Kane	**5.8**	**1.3**	**3.1**	<0.20	6.43	15	246.0				12		<0.050				1.4
				7/17/18	9.7	37.69	Kane	**8.75**	**1.59**	**4.21**	<0.20	6.81	15.8	173.0	0.32									
				9/17/18	10.33	37.06	Kane	**14.8**	**2.14**	**8.25**	<0.20	6.56	20.1	187.0	0.16	70.9	<100	6.05	7.92	<0.100	0.0246	<0.0162	<0.0151	3.36
				12/20/18	10.05	37.34	Kane	**14.5**	**4.37**	**9.38**	<0.20	6.13	24.1	197.6	0.28	30	<100	4.13	6.53	<0.100	<0.00863	<0.0162	<0.0151	1.66
				2/22/19	8.75	38.64	Kane	**4.98**	**2.9**	**7.33**	<0.20	6.28	28.8	183.2	0.24	65	<100	4.95	7.14	<0.10	0.0173	<0.0162	<0.0151	1.82
				5/22/19	8.99		Kane	**3.1**	**1**	**1.3**	<0.20	6.3	32.9	212.0	0.16	-8.4	300	5.8	7.8	<0.050	0.036	<0.005	<0.005	2
				7/22/19	9.65	37.74	Kane	**1.9**	**0.48**	**0.53**	<0.020	6.04	34.4	221.5	0.11	54.2	450	7.5	8.4	<0.050	0.14	<0.0005	<0.0005	2.1
				10/21/19	9.54	37.85	Kane	**1.0**	**0.35**	**0.41**	<0.020	6.06	25.8	222.7	0.14	101.3	460	9.6	9.4	<0.050	0.49	<0.0005	<0.0005	2.6
				1/28/20	8.83	38.56	Kane	**4.5**	**1.7**	**1**	<0.020	6.2	18.8	216.5	0.28	65.2	210	12	8	<0.050	0.16	0.00028	<0.00029	2.7
MW-9	Deep *Decomissioned*	45 to 50	49.857	10/1/02			Farallon	**250**	<2.0	<2.0		7.3		373.0	0.91	-197								
				4/27/05			Farallon	**53,000**	*<100*	*<100*		6.9		246.0	1.02	78.7								
				8/15/05			Farallon	**140,000**	*<200*	*<200*														
				11/27/07			Farallon	**13,000**	*<100*	*<100*		7.5		117.0	7.5	148								
				5/22/08			Farallon	**8,800**	*<50*	*<50*		7.4		191.0	1.1	68.9								
				8/26/08			Farallon	**6,000**	**3,400**	*<50*		7.2		166.0	1.2	102		<5			982	<1.2	<1.1	1.65
				1/9/09			Farallon	**160,000**	*<1,000*	*<1,000*		7.5		213.0	1.4	78.9		<5			530	<50	<50	1.79
				6/11/09			Farallon	**43,000**	*<300*	*<300*		6.6		98.0	7.7	83.3		<5			84	<5	<0.5	<1.0
				9/14/09			Farallon	**21,000**	*<200*	*<200*		6.7		139.0	3.01	167		<5			2.2	<0.5	<0.5	1.4
				2/25/10			Farallon	**16,000**	*<100*	*<100*	*<100*	7.5		63.0	5.97	148								
				9/10/10			Farallon	**6,500**	**36**	*<30*	*<30*	7.7		147.0	2.91	-63.7		<5			4.3	<0.5	<0.5	<1.0
				6/10/11			Farallon	**21,000**	*<200*	*<200*	*<200*	7.6		218.0	0.39	63.2		<5			1400	<100	<100	1.3
				3/20/13			DOF	**DNAPL**	**DNAPL**	**DNAPL**	**DNAPL**													
				4/7/14			DOF	**15,000**	**46**	**22**	<0.02	7		194.0	0.4	-98					2200	<1.2	<1.1	1.89
				10/11/14			DOF	**3,300**	**96**	**54**	*<2.0 U*	6.5		168.0	0.1	-38					757	<1.2 U	<1.1 U	1.63
				11/11/15	11.9	38.00	HWA	**890**	**560**	**680**	*<10*	5.90		139.0	0.00	45.6		<5.0			190	<15	6.1	<1.0
				9/22/16	11.2	38.66	Kane	**53,000**	*<500*	*<500*	*<500*	7.41		222.0										
				10/26/16	9.71	40.15	Kane	**42,000**	*<300*	*<300*	*<300*	7.54	14.8	254.0				3,300		0.44				<1.0
MW-10	Shallow *Decomissioned*	5 to 25		4/27/05			Farallon	**3**	<0.2	<0.2														
MW-10R	Shallow *Decomissioned*	15 to 25	49.392	9/19/16	9.98	39.41	Kane	**1.6**	<0.20	<0.20	<0.20	6.61		188.0										
				11/1/16	8.34	41.05	Kane	**1.3**	<0.20	<0.20	<0.20	6.78	15.4	212.0										
MW-11	Intermediate	25 to 33	47.207	11/28/07			Farallon	**28**	**0.26**	<0.2		6.6		176.0	1.26	165								
				5/22/08			Farallon	**23**	**0.24**	<0.2		6.2		174.0	0.84	132								
				8/25/08			Farallon	**27**	**0.53**	<0.2		6.3		142.0	1.46	238		18			29.8	<1.2	<1.1	1.71
				3/20/13			DOF	**5.6**	**0.2**	**0.26**	<0.02	6.6		296.0	0.1	-50.6					5770	<1.2	<1.1	6.53
				4/4/14			DOF	**5.6**	<0.2	<0.2	<0.02	6.8		298.0	0.2	-107					3500	<1.2	<1.1	2.61
				10/11/14			DOF	**4.8**	0.18 J	0.13 J	<0.02 U	6.1		371.0	0.4	16.8					2150	<1.2 U	<1.1 U	2.72
				11/11/15	10.34	36.91	HWA	**4.1**	**0.4**	<0.20	<0.20	6.28		594.0	0.67	-82.8		18			840	<50	<7.0	4.5
				9/23/16	9.42	37.79	Kane	**9.9**	<0.20	**0.42**	<0.20	6.29		408.0										
				10/26/16	7.98	39.23	Kane	**2.0**	<0.20	<0.20	<0.20	6.38	16.5	376.0				24		<0.050				4.2
				7/17/18	9.02	38.19	Kane	**11.2**	**2.12**	**3.73**	<0.20	6.58	20.4	295.0	0.16									
				9/17/18	9.82	37.39	Kane	**35.8**	**29.6**	**27.6**	<0.20	6.24	34.8	357.0	0.06	-4.5	1,140	42.5	22.9	<0.100	0.158	<0.0162	<0.0151	9.07
				12/20/18	8.56	38.65	Kane	**41**	**11.5**	**4.92**	<0.20	5.72	45.7	287.0	0.16	14.3	611	37.4	13.5	<0.100	0.109	<0.162	<0.151	8.99
				2/21/19	7.9	39.31	Kane	**16.9**	**14.6**	**9.58**	<0.20	5.96	47.2	316.3	0.16	-70	1,240	10.3	14.4	<0.10	0.87	<0.0162	<0.0151	23.7
				5/22/19	8.48	38.73	Kane	**75**	**69**	**14**	*<0.40*	6.13	45.7	468.0	0.04	-18	810	13	13	<0.050	0.49	<0.0005	<0.0005	27
				7/25/19	9.12	38.09	Kane	**39**	**41**	**7.7**	**0.34**	6.2	40.8	407.0	0.04	-43.8	660	10	11	0.068	1.1	<0.0005	<0.0005	26
				10/21/19	8.92	38.29	Kane	**3.5**	**3.8**	**220**	**1.5**	6.33	27.8	522.0	0.08	-59.4	1,500	<5.0	15	<0.050	1	<0.0005	<0.0005	34
				1/22/20	8.09	39.12	Kane	**2.5**	**2.7**	**230**	**70**	6.66	20.4	388.6	1.1	-35.1	4,500	<5.0	12	1.3	2	<0.00022	<0.00029	11
MW-12	Intermediate	25 to 33	45.467	11/28/07			Farallon	**2,300**	**30**	**39**		6.9		326.0	1.48	165								
				5/22/08			Farallon	**2,800**	**53**	**61**		6.5		277.0	1.51	132								2.02
				8/26/08			Farallon	**1,600**	*<10*	<10		6.3		227.0	2.12	4.6		19			<0.7	<1.2	<1.1	5.04
				1/8/09			Farallon	**3,200**	**88**	**44**		6.5		309.0	0.77	70		22			16	<1.0	<1.0	3.11
				6/11/09			Farallon	**2,500**	**53**	**29**		6.2		293.0	0.62	75.4		22			30	<3.0	<3.0	1.7
				9/14/09			Farallon	**700**	**5.1**	<4		6.2		263.0	0.77	168		20			4.8	<0.5	<0.5	2.4
				5/27/10			Farallon	**2,800**	**240**	**80**	*<20*	6.5		265.0	0.32	8.7								
				9/9/10			Farallon	**1,500**	**22**	*<20*	*<20*	6.8		226.0	0.32	9.5		15			490	<50	<50	1.1
				6/10/11			Farallon	**5,800**	**270**	**180**	*<30*	6.5		348.0	0.49	-14.6		19			1000	<100	<100	2.5
				3/20/13			DOF	**4,800**	**210**	**920**	**1.6**	6.8		392.0	0.05	-18.8					12900	<1.2	<1.1	7.97
				4/4/14			DOF	**5,900**	**240**	**730**	**2.1**	6.9		327.0	0.1	-52					12300	<1.2	<1.1	2.88

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				10/10/14			DOF	**4,100**	**390**	**150**	*<2.0 U*	6.2		360.0	0.2	-25.6					12800	<1.2 U	<1.1 U	2.82
				11/11/15	9.61	35.93	HWA	**2,900**	**180**	**1,100**	<0.20	6.26		397.0	0.00	11		16			3000	<150	<18	2.2
				9/22/16	8.89	36.58	Kane	**1,100**	**140**	**730**	*<10*	6.37		410.0										
				10/26/16	7.26	38.21	Kane	**1,300**	**230**	**1,600**	*<20*	6.56	15.6	369.0				13		<0.050				2.1
				7/20/18	8.44	37.03	Kane	**4,110**	**351**	**2,110**	**14.3**	6.45	14.8	162.0	0.66									
				9/10/18	9.14	36.33	Kane	**3,460**	**231**	**1,460**	**11.1**	6.46	15.3	343.0	0.14	71.8	834	19.9	12.5	<0.100	4.12	<0.0162	<0.0151	5.72
				11/30/18	8.59	36.88	Kane	**2,340**	**194**	**669**	*<4.0*	6.16	15.1	533.8	0.11	84.5	2,330	14	46.2	<0.100	0.727	<0.162	<0.151	3.9
				5/24/19	7.92	37.55	Kane	**5,400**	**400**	**780**	*<30*	6.25	14.1	383.9	0.30	-89.5	530	24	9.5	<0.050	3.7	<0.250	<0.250	2.5
				7/22/19	8.4	37.07	Kane	**910**	**240**	**630**	**6.2**	6.12	18.6	672.0	0.05	-341	3,400	18	42	<0.050	3.2	<0.0005	<0.0005	2.8
				10/18/19	9.07	36.40	Kane	**360**	**68**	**240**	**0.84**	5.85	16.2	361.6	0.12	40	6,000	14	36	<0.050	3.3	<0.0005	<0.0005	2.1
				1/27/20	7.8	37.67	Kane	**260**	**120**	**450**	**1.9**	6.28	15.5	459.0	0.31	38.2	6,100	12	32	<0.050	2.4	<0.00022	<0.00029	2.3
MW-13	Deep *Damaged*	40 to 55	48.777	11/28/07			Farallon	<1.0	<0.2	<0.2		7.10		152.0	1.35	151								
MW-14	Intermediate *Decomissioned*	22 to 32	49.157	11/28/07			Farallon	<0.2	<0.2	<0.2		7.0		146.0	4.0	160								
				11/11/15	10.23	38.96	HWA	<0.20	<0.20	<0.20	<0.20	5.56		395.0	0.00	-99		<10			11000	<500	<55	13
				9/21/16	9.53	39.63	Kane	**0.91**	<0.20	<0.20	<0.20	6.08		243.0										
				11/1/16	8.29	40.87	Kane	<0.20	<0.20	<0.20	<0.20	5.96	15.6	307.0										
MW-15	Intermediate *Decomissioned*	22 to 32		11/28/07			Farallon	<0.2	<0.2	<0.2		6.8		157.0	4.0	170								
MW-16	Deep *Decomissioned*	40 to 55		11/28/07			Farallon	**10**	<0.2	<0.2		7.9		124.0	6.9	130								
MW-17	Deep *Damaged*	40 to 50	48.947	11/28/07			Farallon	**6.5**	<0.2	<0.2		7.7		188.0	0.49	141								
MW-18	Intermediate *Decomissioned*	22 to 30	48.747	11/28/07			Farallon	**270**	<2.0	<2.0		7.2		266.0	0.83	158								
				5/22/08			Farallon	<0.25	<0.25	<0.25														
				4/4/14			DOF	**2.4**	**1.2**	**14**	**3.3**	6.1		493.0	0.3	-111					16700	<1.2	<1.1	48.5
				10/11/14			DOF	**0.49**	<0.2 U	**3.6**	**1.3**	5.9		449.0	0.4	-6.6					13300	<1.2 U	<1.1 U	29.8
				9/23/16	9.65	39.10	Kane	**7.8**	<0.20	**1.3**	**0.26**	6.02		238.0										
				10/27/16	8.11	40.64	Kane	<0.20	<0.20	**2.0**	**0.47**	5.90	15.8	256.0										
MW-19	Shallow *Decomissioned*	9 to 19	47.517	11/16/15	9.31	38.26	HWA	**8,200**	**70**	**76**	*<50*	6.34		638.0	3.75	49.2		31			74	<15	2.2	7.9
				9/21/16	9.20	38.32	Kane	**1,800**	**84**	**490**	**34**	6.34		313.0										
				10/25/16	8.02	39.50	Kane	**5,700**	**140**	**860**	**61**	6.70	17.8	296.0										
MW-20	Intermediate	25 to 30	46.857	11/16/15	9.20	37.70	HWA	**900**	**60**	**37**	**17**	6.17		557.0	0.00	-73		22			1800	<125	9.4	2.7
				9/21/16	9.02	37.84	Kane	**190**	**45**	**120**	**9.0**	6.66		340.0										
				10/26/16	7.73	39.13	Kane	**140**	**44**	**120**	**17**	6.44	16.4	348.0				43		0.21				4.3
				12/20/18	7.5	39.36	Kane	**32**	**879**	**552**	**2.23**	5.72	-	263.9	0.05	-4.4	3,140	2.56	8.88	1.54	0.0446	<0.0162	<0.0151	95.4
				3/14/19	7.55	39.31	Kane	<0.841	**136**	**163**	*<2.0*	6	-	219.3	0.2	68.3	1,460	0.348	7.8	1.07	0.0463	<0.0162	<0.0151	45.3
				6/6/19	8.03	38.83	Kane	**0.43**	**51**	**31**	*<0.40*	6.45	55.6	218.1	0.08	4.4	950	<5.0	7.4	0.75	0.51	<0.05	<0.05	16
				7/25/19	8.64	38.22	Kane	**0.82**	**36**	**27**	**0.052**	6.36	52.5	210.2	0.13	-82	800	<5.0	6.4	0.89	0.67	<0.0005	<0.0005	8
				10/22/19	8.47	38.39	Kane	**0.46**	**19**	**68**	**0.15**	6.32	36.6	375.7	0.07	-47.2	1,200	<5.0	13	0.81	3.1	<0.0005	<0.0005	9.8
				1/28/20	7.66	39.20	Kane	**<1.0**	<1.0	**190**	**46**	6.87	26.7	483.0	0.13	-452	910	<5.0	14	0.65	13	<0.00022	<0.00029	13
MW-21	Shallow	10 to 15	45.717	11/16/15	9.41	35.58	HWA	**21,000**	**440**	**350**	*<100*	7.38		1579.0	8.60	-18		96			310	<25	2.6	3.3
				9/22/16	9.05	36.67	Kane	**27,000**	**540**	**360**	*<200*	6.56		355.0										
				10/31/16	6.97	38.75	Kane	**8,400**	**210**	**190**	*<50*	6.32	17.7	319.0										
				9/10/18	9.31	36.41	Kane	**410**	**12**	**9**	<0.20	6.22	18.1	280.0	2.40	93.5	<100	20	11.9	<0.100	0.0299	<0.0162	<0.0151	3.78
				12/3/18	7.23	38.49	Kane	**122**	**1.67**	<1.00	<0.20	5.85	15.9	272.7	2.97	75.7	<100	12.9	4.61	<0.100	<0.00863	<0.0162	<0.0151	4.03
				5/24/19	7.69	38.03	Kane	**82**	**1.40**	**0.5**	*<0.40*	6.08	14.3	248.0	3.51	2.7	<56	12	3.7	<0.050	0.0026	<0.0005	<0.0005	<1.0
MW-22	Deep	54 to 59	44.957	11/16/15	8.91	36.84	HWA	**69**	**2.8**	**2.0**	*<0.40*	7.30		296.0	0.00	-52.2		<5.0			1400	<250	<9.0	1.5
				9/22/16	8.41	36.55	Kane	**11**	<0.20	**1.5**	<0.20	7.42		236.0										
				10/26/16	7.16	37.80	Kane	**2.1**	<0.20	**2.2**	<0.20	7.63	14.7	262.0				<5.0		0.24				1.2
				7/16/18	8.27	36.69	Kane	<1.00	<0.50	**1.6**	<0.20	7.87	15.4	214.0	0.00									
				9/19/18	8.85	36.11	Kane	<1.00	<0.50	**1.22**	<0.20	7.54	15.2	251.0	0.45	33.9	<100	0.932	6.65	0.392	0.654	<0.0162	<0.0151	2.37
				12/3/18	8.63	36.33	Kane	<1.00	<0.50	**1.11**	<0.20	7.22	14.3	267.8	0.07	-16	<100	0.533	6.66	0.291	0.0695	<0.0324	<0.0303	2.26
				6/20/19	7.91	37.05	Kane	**0.43**	<0.20	**0.87**	<0.20	7.31	15.1	233.0	0.27	-106.6	250	<5.0	3.9	0.3	0.001	<0.0005	<0.0005	1.3
MW-23	Shallow	6 to 16	48.027	9/20/16	8.92	39.11	Kane	**0.46**	<0.20	<0.20	<0.20	5.91		123.0										
				11/1/16	7.29	40.74	Kane	**2.2**	<0.20	<0.20	<0.20	6.19	15.0	128.0										
				9/19/18	9.04	38.99	Kane	<1.00	<0.50	<1.00	<0.20	6.16	16.2	94.0	0.87	54.7	<100	8.86	2.79	<0.100	1.04	<0.0162	<0.0151	2.74
				12/5/18	8.70	39.33	Kane	**1.05**	<0.50	<1.00	<0.20	5.65	14.4	112.4	1.24	49.8	124	10.3	2.16	<0.100	0.0854	<0.0162	<0.0151	2.4
				2/12/19	8.18	39.85	Kane	**2.11**	<0.50	<1.0	<0.20	5.34	11.6	75.1	5.16	128.7	<100	6.02	1.46	<0.10	<0.00863	<0.0162	<0.0151	1.17
				6/4/19	8.57	39.46	Kane	**0.94**	<0.20	<0.20	<0.20	6.13	14.9	113.4	0.87	19.1	720	6.7	3.3	<0.050	0.14	<0.0075	<0.0075	1.6

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
MW-24	Deep	44 to 54	48.962	11/1/16	8.89	40.07	Kane	**9.0**	<0.20	<0.20	<0.20	8.44	14.7	225.0										
MW-25	Shallow	7.5 to 17.5	46.207	9/20/16	9.22	36.99	Kane	**4,200**	*<20.0*	*<20.0*	*<20.0*	6.56		324.0										
	Decomissioned			10/25/16	7.75	38.46	Kane	**99**	**7.4**	**10**	*<1.0*	6.58	17.3	184.0										
MW-26	Intermediate	25 to 35	46.047	9/20/16	9.04	37.01	Kane	**13**	**0.29**	**5.3**	<0.20	6.48		379.0										
	Decomissioned			10/31/16	7.65	38.40	Kane	**310**	**2.6**	<2.0	*<2.0*	6.59	16	364.0										
MW-27	Shallow	6 to 16	48.177	9/15/16	10.43	37.75	Kane	**120**	<1.0	<1.0	*<1.0*	6.31		87.0										
				10/31/16	8.22	39.96	Kane	**120**	<0.40	<0.40	*<0.40*	5.95	16.4	63.0										
				7/19/18	10.40	37.78	Kane	**138**	<0.50	<1.00	<0.20	5.89	15.2	126.0	17.18									
				9/14/18	10.98	37.20	Kane	**106**	<0.50	<1.00	<0.20	5.64	16.4	128.0	8.48	49.4	<100	38	1.07	<0.100	<0.00863	<0.0162	<0.0151	2.15
				12/12/18	10.09	38.09	Kane	**169**	**0.712**	<1.00	<0.20	5.17	14.5	133.3	7.04	48.3	<100	34.9	2.67	<0.100	<0.00863	<0.0162	<0.0151	0.793
				5/24/19	9.65	38.53	Kane	**110**	<1.0	<1.0	*<1.0*	5.73	13.1	131.9	8.54	41.5	<56	24	4.7	<0.050	<0.001	<0.0005	<0.0005	<1.0
				7/16/19	10.39	37.79	Kane	**91**	<0.40	<0.40	<0.040	4.53	16.3	120.9	6.39	155.7	<56	23	3.6	<0.050	<0.001	<0.0005	<0.0005	<1.0
				10/18/19	10.05	38.13	Kane	**130**	<1.0	<1.0	<0.10	5.20	16	97.3	7.17	243.9	<56	24	4.5	<0.050	<0.001	<0.0005	<0.0005	8.7
				1/29/20	8.22	39.96	Kane	**90**	**1.2**	**1.50**	<0.040	5.01	12.2	134.2	6.26	166.3	180	17	5.2	<0.050	<0.00055	<0.00022	<0.00029	1.3
MW-28	Intermediate	25 to 35	48.187	9/15/16	10.39	37.80	Kane	<0.20	<0.20	<0.20	<0.20	6.22		157.0										
				11/1/16	8.8	39.39	Kane	<0.20	<0.20	<0.20	<0.20	5.97	15.2	105.0										
				7/19/18	10.48	37.71	Kane	<1.00	<0.50	<1.00	<0.20	6.32	14.2	122.0	3.12									
				9/14/18	10.6	37.59	Kane	<1.00	<0.50	<1.00	<0.20	6.12	14.6	127.0	2.01	62.4	<100	8.42	7.43	<0.100	<0.00863	<0.0162	<0.0151	2.44
				12/12/18	10.01	38.18	Kane	<1.00	<0.50	<1.00	<0.20	5.70	13.9	130.1	1.78	48.7	<100	11.8	8.06	<0.100	<0.00863	<0.0162	<0.0151	0.69
				2/19/19	9.07	39.12	Kane	<1.0	<0.50	<1.0	<0.20	5.73	13.0	108.6	2.56	202.9	<100	8.78	5.65	<0.10	<0.00863	<0.0162	<0.0151	0.618
				5/24/19	9.85	38.34	Kane	<0.20	<0.20	<0.20	<0.20	5.54	13.6	116.0	1.8	-74.6	<56	9.5	6.2	<0.050	0.0096	<0.0005	<0.0005	<1.0
MW-29	Deep	45 to 55	48.242	9/15/16	10.5	37.74	Kane	<0.20	<0.20	<0.20	<0.20	7.33		254.0										
				10/27/16	9.01	39.23	Kane	**0.44**	<0.20	<0.20	<0.20	7.06	14.5	252.0										
				7/17/18	10.32	37.92	Kane	<1.00	<0.50	<1.00	<0.20	7.57	14.4	236.0	0.00									
				9/14/18	10.73	37.51	Kane	<1.00	<0.50	<1.00	<0.20	7.31	14.5	262.0	0.08	19.3	191	8.37	7.17	0.255	0.0242	<0.0162	<0.0151	4.32
				12/12/18	10.25	37.99	Kane	**1.06**	<0.50	<1.00	<0.20	7.05	13.8	276.8	0.15	-16.7	<100	6.72	5.32	0.243	0.04	<0.0162	<0.0151	3.02
				6/4/19	10.08	38.16	Kane	**0.26**	<0.20	<0.20	<0.20	7.40	16.3	265.3	0.25	15	450	<5.0	26	0.25	0.32	<0.015	<0.015	2.2
				7/16/19	10.61	37.63	Kane	<0.20	<0.20	<0.20	<0.020	6.88	16.2	274.4	0.11	-106.2	460	<5.0	5.2	0.3	0.35	<0.0005	<0.00050	2.1
				10/18/19	10.48	37.76	Kane	<0.20	<0.20	<0.20	<0.020	6.99	14.5	207.7	0.11	7.4	610	<5.0	6.4	0.29	0.39	<0.0005	<0.0005	2.2
				1/29/20	9.61	38.63	Kane	<0.20	<0.20	<0.20	<0.020	7.29	13.7	249.5	0.04	-82	570	<5.0	6.3	0.24	0.36	<0.00022	<0.00029	1.9
MW-30	Shallow	9 to 19	48.142	9/20/16	8.81	39.33	Kane	**92,000**	*<500*	*<500*	*<500*	6.65		241.0										
	Decomissioned			10/26/16	7.33	40.81	Kane	**130,000**	*<1,000*	**1,300**	*<1,000*	6.40	15.7	619.0				120		0.15				26
MW-31	Deep	40 to 50	47.817	9/20/16	9.81	38.01	Kane	**11**	**0.25**	<0.20	<0.20	6.80		244.0										
	Decomissioned			10/28/16	8.25	39.57	Kane	**7.8**	**0.22**	<0.20	<0.20	6.79		250.0										
MW-32	Deep	45 to 55	45.952	9/19/16	8.94	37.01	Kane	**950**	**7.7**	<4.0	*<4.0*	7.57		285.0										
	Decomissioned			10/27/16	7.51	38.44	Kane	**1,200**	<10	<10	*<10*	7.65	14.8	276.0										
MW-33	Deep	40 to 50	49.547	9/16/16	10.61	38.94	Kane	<0.20	<0.20	<0.20	<0.20	6.38		258.0										
				10/27/16	9.19	40.36	Kane	**0.34**	<0.20	<0.20	<0.20	6.37	15.0	221.0										
				12/5/18	10.4	39.15	Kane	<1.00	<0.50	<1.00	<0.20	6.13	18.1	174.3	0.07	43.5	<100	10.6	6.74	<0.100	<0.00863	<0.0162	<0.0151	3.01
				2/19/19	9.17	40.38	Kane	<1.0	<0.50	<1.0	<0.20	6.35	15.1	164.3	0.18	204.8	<100	11.5	6.45	<0.10	<0.00863	<0.0162	<0.0151	1.44
				6/4/19	10.56	38.99	Kane	<0.20	<0.20	<0.20	<0.20	6.42	16.1	196.6	0.19	31.6	<56	13	6.6	<0.050	0.0012	<0.0005	<0.0005	1.5
MW-34	Deep	40 to 50	46.597	9/16/16	9.19	37.41	Kane	**20**	**1.5**	**12**	**0.29**	6.33		271.0										
				10/27/16	7.75	38.85	Kane	**6.6**	**0.54**	**2.4**	<0.20	6.21	15.6	254.0										
				7/16/18	8.82	37.78	Kane	<1.00	<0.50	<1.00	<0.20	6.53	15.5	240.0	0.00									
				9/18/18	9.45	37.15	Kane	<1.00	<0.50	<1.00	<0.20	6.37	17.6	255.0	0.18	66.2	724	11.5	30.5	<0.100	0.0497	<0.0162	<0.0151	2.92
				12/11/18	8.5	38.10	Kane	<1.00	<0.50	<1.00	<0.20	5.92	22.9	284.6	0.09	44.3	561	13.5	39	<0.100	0.0103	<0.0162	<0.0151	1.2
				2/21/19	7.59	39.01	Kane	**1.29**	<0.50	**1.52**	<0.20	5.95	27.5	255.8	0.22	91.9	367	14.6	32.7	<0.10	0.0274	<0.0162	<0.0151	10.49
				6/3/19	8.28	38.32	Kane	**1.3**	<0.20	**3.2**	<0.20	6.16	32.4	263.9	0.19	18.6	440	15	29	<0.050	0.14	<0.0075	<0.0075	1.8
MW-35	Deep	48 to 58	44.247	9/16/16	8.19	36.06	Kane	**2.1**	<0.20	<0.20	<0.20	6.92		230.0										
				10/27/16	6.65	37.60	Kane	**1.4**	<0.20	<0.20	<0.20	6.92	14.4	235.0										
				7/16/18	7.74	36.51	Kane	<1.00	<0.50	<1.00	<0.20	7.35	15.0	217.0	0.13									
				9/10/18	8.45	35.80	Kane	<1.00	<0.50	<1.00	<0.20	7.08	15.1	244.0	0.25	21.8	1,130	2.94	8.11	0.244	0.323	<0.0162	<0.0151	3.3
				12/11/18	7.53	39.07	Kane	<1.00	<0.50	<1.00	<0.20	6.66	14.1	269.9	0.10	5.6	942	7.13	13.1	0.22	0.111	<0.0162	<0.0151	2.09
				6/3/19	7.41	36.84	Kane	**0.66**	<0.20	<0.20	<0.20	6.45	14.8	221.6	1.66	19.3	1,900	5.4	12	0.15	0.15	<0.0075	<0.0075	1.6
				7/25/19	7.92	36.33	Kane	<0.20	<0.20	<0.20	<0.020	6.31	18.2	590.0	0.08	-224	2,700	5.2	12	0.23	0.21	<0.0005	<0.0005	1.9
				10/18/19	7.97	36.28	Kane	**4.0**	<0.20	**0.44**	<0.020	5.76	15.1	166.7	0.15	83.2	<56	14	14	<0.050	0.0016	<0.0005	<0.0005	<1.0
				1/28/20	7.13	37.12	Kane	**0.49**	<0.20	<0.20	**0.040**	6.86	13.8	215.9	0.05	-29.1	2,700	<5.0	6.6	0.15	0.39	<0.00022	<0.00029	1.9
MW-36	Intermediate	25 to 35	47.327	9/19/16	8.68	38.65	Kane	**2.5**	<0.20	<0.20	<0.20	6.56		257.0										
				11/1/16	7.31	40.02	Kane	**7.3**	<0.20	<0.20	<0.20	6.60	15.1	264.0										
MW-37	Shallow	15 to 25	47.557	9/19/16	9.81	37.75	Kane	**0.7**	<0.20	<0.20	<0.20	6.40		272.0										

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				11/1/16	7.53	40.03	Kane	**0.74**	<0.20	<0.20	<0.20	6.54	14.9	247.0										
MW-38	Deep	40 to 50	47.187	9/19/16	10.44	36.75	Kane	**1.3**	<0.20	<0.20	<0.20	6.89		271.0										
				10/28/16	7.66	39.53	Kane	**0.26**	<0.20	<0.20	<0.20	6.78		266.0										
MW-39	Deep	40 to 50	44.524	10/25/16	6.20	38.32	Kane	**95**	<0.40	<0.40	*<0.40*	7.11	16.5	279.0										
				7/25/18	7.15	37.37	Kane	<1.00	<0.50	**1.03**	<0.20	7.11	17.2	190.0	0.00									
				12/17/18	6.33	38.19	Kane	**2.32**	**2.62**	**6.81**	<0.20	6.39	24.1	225.4	0.15	-3.5	4,580	2.13	3.45	0.563	0.364	<0.0162	<0.0151	3.36
				3/13/19	6.32	38.20	Kane	<1.00	<1.00	**1.99**	<0.20	6.08	26.6	63.3	1.33	82.2	4,380	<0.300	3.76	0.445	0.552	<0.0162	<0.0151	4.15
				5/29/19	6.49	38.03	Kane	**0.33**	**0.34**	<0.20	<0.20	6.61	28.4	219.2	0.14	1.8	4,500	<5.0	4.3	0.48	1.1	<0.10	<0.10	3.3
				7/23/19	7.02	37.50	Kane	**0.52**	**0.63**	**1.3**	<0.020	6.33	28.2	215.5	0.25	-96.6	4,300	<5.0	4.3	0.44	1	<0.0005	<0.0005	2.9
				10/24/19	6.94	37.58	Kane	**0.52**	**0.52**	**1.6**	<0.020	6.1	26.2	250.0	0.24	19.8	4,600	<5.0	4.5	0.48	0.91	<0.0005	<0.0005	3.1
				1/28/20	5.53	38.99	Kane	<0.20	<0.20	**1.8**	<0.020	6.5	20.2	272.1	0.21	57.1	5,000	<5.0	4.8	0.53	0.67	<0.00022	<0.00029	3.2
MW-40	Shallow	15 to 25	44.521	10/25/16	8.21	36.31	Kane	**25,000**	*<100*	*<100*	*<100*	6.69	16.5	321.0										
				11/2/16	6.3	38.22	Kane	**11,000**	*<100*	*<100*	*<100*	6.73	14.9	229.0										
				7/25/18	7	37.52	Kane	**5,460**	**55.6**	**9.5**	<0.20	7.24	20.4	320.0	0.13									
				12/17/18	6.28	38.24	Kane	**212**	**46**	**56.7**	<0.20	6.43	34.3	69.2	2.39	52.6	<100	1.55	0.586	<0.100	<0.00863	<0.0162	<0.0151	1.11
				3/13/19	6.29	38.23	Kane	**213**	**146**	**746**	<0.20	6.08	29.5	63.3	1.33	82.2	<100	0.819	2.08	<0.10	0.00959	<0.0162	<0.0151	2.03
				5/29/19	6.49	38.03	Kane	**560**	**600**	**4,300**	*<20*	6.41	30.7	268.1	0.23	3.8	7,600	<5.0	11	0.35	0.47	0.011	<0.025	11
				7/23/19	7	37.52	Kane	**530**	**380**	**4,700**	**11**	6.29	30.5	319.8	0.05	-112.4	19,000	<5.0	12	0.39	0.49	0.0082	<0.0005	12
				10/25/19	6.82	37.70	Kane	**65**	**84**	**1,500**	**1.6**	5.82	23.7	163.6	0.06	35.6	4,600	<5.0	4.9	0.14	0.51	<0.0005	0.0016	13
				1/28/20	5.51	39.01	Kane	**150**	**130**	**2,300**	**1600**	6.89	21.2	368.4	0.01	-60.6	9,800	<5.0	19	0.33	10	<0.00022	0.12	10
MW-41	Shallow	5 to 15		1/3/17	8.31		Kane	**3.4**	<0.20	<0.20	<0.20	6.13		129.0										
				10/23/18	-	-	Kane	**2.02**	<0.50	<0.50	<0.20													
				6/7/19	8.12		Kane	**1.30**	<0.20	<0.20	<0.20	6.31	15.1	84.9	5.26	43.2	<56	6.6	4.5	<0.050	<0.001	<0.0005	<0.0005	<1.0
MW-42	Int./Deep	30 to 45		1/3/19	10.21		Kane	<1.00	<0.50	<1.0	<0.20													
				3/18/19	8.79		Kane	<1.00	<0.50	<1.0	<0.20	6.63	32.8	155.4	0.06	76.4	821	1.99	3.57	0.266	0.177	<0.0162	<0.0151	1.9
				6/5/19	9.11		Kane	<0.20	<0.20	<0.20	<0.20	6.92	22.9	216.9	0.13	5	5,500	<5.0	6.3	0.2	4.1	<0.25	<0.25	2.3
				7/30/19	9.65		Kane	<0.20	<0.20	**0.72**	**0.053**	6.49	26.4	713.0	0.05	-321.9	5,300	8	8.1	0.27	2.5	<0.0005	<0.0005	1.7
				10/22/19	9.29		Kane	<0.20	**1.90**	**1.9**	**0.056**	6.04	18.3	254.0	0.10	-10.2	7,600	7.3	13	0.28	3.2	<0.0005	<0.0005	3.9
				1/29/20	8.49		Kane	<0.20	<0.20	**20**	**3.3**	6.52	14.1	454.1	0.02	-24.8	19,000	<0.50	14	0.16	7.1	<0.00022	<0.00029	6.3
MW-43	Shallow	10 to 25		1/2/19	10.4		Kane	**225**	**31.6**	**7.16**	<0.20													
				3/18/19	8.42		Kane	**1.66**	<0.50	**1.20**	<0.20	6.61	33.3	183.6	0.10	-4.6	286	14.4	3.34	<0.10	0.0336	<0.0162	<0.0151	8.25
				6/5/19	8.68		Kane	**9.10**	**7.60**	**35.0**	<0.20	6.86	24.1	168.3	0.09	21.5	450	15	3.7	0.08	0.53	<0.038	<0.038	5.8
				7/30/19	9.17		Kane	<0.20	**0.23**	**2.0**	<0.020	6.32	26.0	711.0	0.09	-281	280	11	5.7	0.11	0.44	<0.0005	<0.0005	4.7
				10/22/19	9.67		Kane	**0.80**	<0.20	**24.0**	**0.29**	6.17	19.2	552.0	0.06	-40.2	18,000	9.3	10	0.43	0.32	<0.0005	<0.0005	110
				1/29/20	7.76		Kane	**0.88**	<0.20	**8.7**	**1.9**	6.58	12.2	836.0	0.18	141.7	1,800	130	8.2	0.66	0.42	<0.00022	0.0029	10
MW-44	Intermediate	25 to 35		6/6/19	7.49		Kane	<0.20	**1.70**	**28.0**	<0.20	6.35	51.4	229.6	0.18	-1.9	1,700	<5.0	7.6	0.49	0.24	<0.025	<0.025	19
				7/25/19	8.11		Kane	<0.20	**1.50**	**2.7**	**0.047**	6.15	47.4	254.1	0.34	-77	2,200	<5.0	6.6	0.71	0.13	<0.0005	0.0039	20
				10/22/19	9.85		Kane	<0.20	**0.77**	**14.0**	**0.29**	5.94	37.2	450.1	0.07	15.4	3,900	<5.0	12	0.73	1.4	<0.0005	0.0011	22
				1/29/20	7.14		Kane	<0.40	**1.20**	**38.0**	**0.48**	6.44	27.5	349.5	0.13	46.8	3,400	<5.0	10	0.62	9.9	<0.00022	<0.00029	16
MW-45	Shallow	7 to 17		6/6/19	7.29		Kane	<0.20	<0.20	**6.0**	<0.20	6.81	45.7	798.0	0.09	18.4	770	<5.0	38	0.36	0.11	<0.0075	<0.0075	120
				7/25/19	7.96		Kane	<0.20	<0.20	**0.75**	**0.043**	6.49	44.1	825.0	0.25	-67.4	2,000	<5.0	21	0.63	1.2	<0.0005	<0.0005	88
				10/22/19	7.44		Kane	<0.20	<0.20	**0.88**	<0.020	6.28	32.5	569.0	0.14	51.6	1,600	12	15	0.75	1.5	<0.0005	<0.0005	33
				1/29/20	6.6		Kane	<1.0	<1.0	**160**	**46**	6.70	21.8	609.0	0.01	-54.2	5,400	<5.0	14	0.79	5.2	<0.00022	0.0072	21
HZ-MW-1	Shallow	5 to 15	41.637	9/5/08			HWA	**0.58**	<0.2	<0.2	<0.20													
				5/30/14			HWA	**21**	**0.22**	<0.20	<0.20	6.62		478.0	3.23									
				9/12/14			HWA	**33**	**0.33**	<0.20	<0.20	6.51		279.0	2.35									
				12/15/14			HWA	**15**	<0.20	<0.20	<0.20	6.3		223.0	2.02									
				3/19/15			HWA	**11**	<0.20	<0.20	<0.20	6.54		295.0	8.29									
				9/21/16	7.89	33.75	Kane	**7.2**	<0.20	<0.20	<0.20	6.42		120.0										
				10/31/16	6.23	35.41	Kane	**6.9**	<0.20	<0.20	<0.20	6.49	14.5	113.0										
				7/20/18	7.47	34.17	Kane	<1.00	<0.50	<1.00	<0.20	6.73	16.9	125.0	10.69									
				9/13/18	8.2	33.44	Kane	**10.8**	<0.50	<1.00	<0.20	6.59	18.7	139.0	7.20	100.6	<100	6.43	2.73	<0.100	<0.00863	<0.0162	<0.0151	1.54
				12/19/18	6.94	34.70	Kane	**7.8**	<0.50	<1.00	<0.20	6.21	13.5	159.8	5.00	45	<100	8.54	3.43	<0.100	<0.00863	<0.0162	<0.0151	1.17
				5/30/19	6.81	34.83	Kane	**11**	<0.20	<0.20	<0.20	6.55	14.0	190.5	7.81	15.2	<56	7.4	5.9	<0.050	0.0014	<0.0005	<0.0005	1.1
				7/30/19	7.2	34.44	Kane	**14**	<0.20	**1.1**	<0.020	6.17	17.3	189.6	4.08	-70.1	<56	6.6	4.4	<0.050	<0.001	<0.0005	<0.0005	1
				10/21/19	7.45	34.19	Kane	**15**	<0.20	**0.61**	<0.020	5.65	15.9	172.5	4.58	200	<56	6.5	5.1	<0.050	<0.001	<0.0005	<0.0005	1.1
				1/24/20	6.39	35.25	Kane	**5.9**	<0.20	<0.20	<0.020	5.85	12.6	173.1	24.0	86.3	<56	16	4.0	<0.050	1.5	<0.00022	<0.00029	1.2
HZ-MW-4	Shallow	8 to 18	40.177	9/5/08			HWA	<0.2	<0.2	<0.2	<0.20													
				6/9/14			HWA	<0.20	<0.20	<0.20	<0.20	6.35		407.0	2.73									
				9/12/14			HWA	**2.6**	<0.20	<0.20	<0.20	6.42		361.0	2.12									

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				12/16/14			HWA	**0.54**	<0.20	<0.20	<0.20	6.56		316.0	2.17									
				3/30/15			HWA	<0.20	<0.20	<0.20	<0.20	5.47		323.0	2.67			<50			<0.50			
				11/11/15	6.18	34.06	HWA	**0.27**	<0.20	**0.51**	**0.44**	6.22		459.0	39.20	6.5		23			1.3	<0.50	<0.50	2.3
				9/23/16	7.16	33.02	Kane	**0.31**	<0.20	<0.20	<0.20	6.23		331.0										
				10/28/16	5.22	34.96	Kane	<0.20	<0.20	<0.20	<0.20	6.36	16.9	308.0										
				7/24/18	6.95	33.23	Kane	<1.00	<0.50	<1.00	<0.20	6.75	15.8	356.0	3.35									
				9/13/18	7.59	32.59	Kane	<1.00	<0.50	<1.00	<0.20	6.52	16.9	354.0	2.25	53.6	161	40.7	13	<0.100	<0.00863	<0.0162	<0.0151	3.95
				12/21/18	6.27	33.91	Kane	<1.00	<0.50	<1.00	<0.20	6.21	13.1	420.9	0.19	10	<100	36.5	15	<0.100	<0.00863	<0.0162	<0.0151	3.1
				5/30/19	6.37	33.81	Kane	**0.41**	<0.20	<0.20	<0.20	6.38	16.3	446.1	0.30	45.3	<56	45	21	<0.050	0.0016	<0.0005	<0.0005	2.6
HZ-MW-14S	Shallow	5 to 15	42.377	2/25/13			HWA	**2,400**	**47**	**29**														
				5/29/14			HWA	**1,000**	**23**	**11**	*<10*	6.46		799.0	0.16									
				9/11/14			HWA	**4,900**	**96**	**78**	*<20*	6.51		441.0	0.54									
				12/15/14			HWA	**790**	**16**	**13**	*<4.0*	6.34		396.0	0.48									
				3/20/15			HWA	**200**	**6.5**	**3.8**	*<1.0*	6.4		482.0	13.86									
				11/11/15	7.65	34.79	HWA	**75.0**	**3.1**	**8.6**	*<0.40*	6.10		437.0	1.3	24.8		30			170	<0.50	<0.50	2.2
				9/26/16	7.52	34.86	Kane	**1,800**	**57**	**110**	*<20*	6.34		330.0										
				10/28/16	5.82	36.56	Kane	**440**	**13**	**12**	*<2.0*	6.43	18.4	309.0										
				7/20/18	7	35.38	Kane	**2,580**	**52.5**	**86.6**	**0.572**	6.87	16.9	300.0	0.70									
				9/21/18	7.36	35.02	Kane	**2,710**	**61.9**	**203**	*<2.0*	6.52	19.1	346.0	0.13	42.9	<100	27.4	7.81	<0.100	0.361	<0.0162	<0.0151	3.87
				12/13/18	6.23	36.15	Kane	**240**	**7.33**	**6.12**	<0.20	6.11	15.5	327.3	0.17	20.4	<100	22.4	7.29	<0.100	<0.00863	<0.0162	<0.0151	1.89
				5/21/19	6.43	35.95	Kane	**240**	**7.0**	**3.2**	*<2.0*	6.47	14.7	339.2	0.11	-26.3	490	21	7.2	<0.050	0.053	<0.005	<0.005	1.7
				7/25/19	6.31	36.07	Kane	**160**	**6.8**	**7**	<0.10	6.15	20.8	303.6	0.23	-57.4	160	18	7.8	0.53	0.018	<0.0005	<0.0005	1.8
				10/16/19	6.99	35.39	Kane	**78**	**5.9**	**3.6**	<0.04	6.41	18.7	295.1	0.05	103.9	<56	17	8	<0.050	0.29	<0.0005	<0.0005	1.9
				1/22/20	5.65	36.73	Kane	**23**	**4.2**	**15**	0.069	6.31	11.6	265.0	2.22	115	<56	19	9.5	<0.050	0.014	<0.00022	<0.00029	2.8
HZ-MW-14D	Intermediate	30 to 40	42.397	2/25/13			HWA	**360**	**7.6**	**21**														
				5/29/14			HWA	**100**	**3.7**	**16**	*<1.0*	6.47		622.0	0.23									
				9/11/14			HWA	**100**	**3.2**	**17**	*<1.0*	6.45		352.0	0.28									
				12/15/14			HWA	**100**	**2.8**	**15**	*<1.0*	6.41		332.0	0.87									
				3/20/15			HWA	**62**	**2.4**	**9.8**	*<0.40*	6.69		423.0	NA									
				11/11/15	8.12	34.31	HWA	**970**	**16**	**14**	*<10*	6.08		414.0	0.00	24.9		12			69	<0.50	<0.50	1.2
				9/26/16	7.38	35.02	Kane	**37**	**1.5**	**2.9**	<0.20	6.10		434.0										
				10/28/16	5.62	36.78	Kane	**55**	**2.8**	**6.1**	<0.20	6.21	18.1	373.0										
				7/20/18	6.96	35.44	Kane	**42.9**	**2.18**	**7.55**	<0.20	6.42	16.4	220.0	0.33									
				9/19/18	7.19	35.21	Kane	**36.4**	**1.98**	**7.14**	<0.20	6.23	15.9	500.0	0.23	100.4	<100	10	100	<0.100	0.0317	<0.0162	<0.0151	4.3
				12/13/18	6.7	35.70	Kane	**44.2**	**3.3**	**13.5**	<0.20	5.87	14.9	523.1	0.07	36	<100	15.5	90.8	<0.100	0.0524	<0.0162	<0.0151	0.968
				5/21/19	6.16	36.24	Kane	**65**	**2.9**	**12**	<0.20	6.09	14.7	500.3	0.06	-40.7	<56	10	87	<0.050	0.18	<0.01	<0.01	<1.0
				7/30/19	6.92	35.48	Kane	**100**	**4.7**	**28**	**0.30**	5.84	19.6	454.8	0.22	-86.5	<56	11	69	<0.050	0.92	<0.0005	<0.0005	1
				10/16/19	7.7	34.70	Kane	**190**	**7.9**	**48**	**0.51**	6.13	16.3	443.8	0.02	143.8	<56	9.3	75	<0.050	1.5	<0.0005	<0.0005	<1.0
				1/22/20	5.98	36.42	Kane	**400**	**24**	**140**	**1.1**	5.99	13.0	453.7	2.10	132.8	<56	11	65	<0.050	2.6	<0.00022	<0.00029	1.2
HZ-MW-15S	Shallow	10 to 15	41.747	3/25/13			HWA	**86**	**2.3**	**3.6**														
				5/29/14			HWA	**150**	**7.1**	**3.6**	*<1.0*	6.35		785.0	1.45									
				9/13/14			HWA	**400**	**19**	**12**	<0.20	6.87		575.0	0.25									
				12/15/14			HWA	**300**	**14**	**12**	*<2.0*	6.44		549.0	0.95									
				3/20/15			HWA	**140**	**6.2**	**3.5**	*<1.0*	6.32		579.0	NA									
				11/12/15	6.99	34.79	HWA	**110**	**4.9**	**4.2**	*<10*	5.9		394.0	0.13	97.4		26			3.1	<250	<12	1.1
				9/27/16	6.65	35.10	Kane	**57**	**1.6**	**1.4**	*<0.40*	6.21		280.0										
				10/28/16	4.15	37.60	Kane	**81**	**3.3**	**2.9**	*<0.40*	6.30	17.3	314.0										
				9/19/18	6.61	35.14	Kane	**29.2**	**1.2**	**1.11**	<0.20	6.30	19.5	260.0	0.47	187	<100	18.8	2.67	<0.100	<0.00863	<0.0162	<0.0151	4.16
				12/27/18	4.4	37.35	Kane	**11.8**	<0.50	<1.00	<0.20	6.07		278.8	0.68	38.5	<100	19.5	2.85	<0.100	<0.00863	<0.0162	<0.0151	1.36
				6/4/19	4.92	36.83	Kane	**8.9**	**0.34**	<0.20	<0.20	6.32	15.9	256.6	0.33	-10.7	<56	16	3	<0.050	0.019	<0.001	<0.001	1.1
				7/24/19	5.66	36.09	Kane	**11**	**0.41**	<0.20	<0.02	6.06	18.7	227.5	0.38	-69.1	<56	13	3.6	<0.050	0.02	<0.0005	<0.0005	1
				10/17/19	5.87	35.88	Kane	**9.8**	**0.39**	<0.20	<0.02	6.01	16.3	202.4	0.23	189	<56	13	5.1	<0.050	0.0076	<0.0005	<0.0005	1.2
				1/22/20	4.02	37.73	Kane	**4.2**	<0.20	<0.20	<0.02	5.99	10.4	295.5	6.00	129.5	<56	12	3.0	<0.050	0.0086	<0.00022	<0.00029	1.4
HZ-MW-15D	Intermediate	20 to 30	41.787	3/25/13			HWA	**330**	**18**	**12**														
				5/29/14			HWA	**3,700**	**290**	**180**	*<20*	6.28		1000.0	0.12									
				9/13/14			HWA	**93**	**6.9**	**4.5**	*<0.40*	6.33		308.0	0.30									
				12/15/14			HWA	**130**	**9.2**	**4.3**	*<1.0*	6.34		290.0	1.87									
				3/20/15			HWA	**6,700**	**400**	**280**	*<30*	6.27		491.0	NA									
				11/11/15	7.2	34.63	HWA	**1,800**	**120**	**100**	*<10*	5.66		260.0	0.00	95.5		28			2800	<250	<12	<1.0
				9/27/16	6.69	35.10	Kane	**840**	**40**	**43**	*<4.0*	5.96		211.0										

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				10/28/16	5.33	36.46	Kane	**3,300**	**210**	**200**	*<20*	6.20	15.9	266.0										
				9/19/18	6.74	35.05	Kane	**4,910**	**152**	**117**	<0.20	6.05	15.3	282.0	0.21	204	<100	22.8	16.5	<0.100	2.23	<0.0162	<0.0151	4.7
				12/27/18	4.23	37.56	Kane	**6,410**	**229**	**199**	*<10.0*	5.95		315.5	0.09	52.4	<100	19.5	2.85	<0.100	<0.00863	<0.0162	<0.0151	1.36
				6/4/19	6.11	35.68	Kane	**10,000**	**390**	**260**	*<100*	6.25	15.1	337.4	0.12	20.9	<56	23	14	<0.05	5	<0.25	<0.25	1.50
				7/24/19	6.83	34.96	Kane	**9,200**	**390**	**340**	*<5.0*	5.93	16.9	324.0	0.24	-56.6	<56	21	13	<0.050	5	<0.0005	<0.0005	1.60
				10/17/19	7.02	34.77	Kane	**7,700**	**410**	**360**	*<5.0*	5.83	15.1	292.1	0.12	173.5	100	18	13	<0.050	5	<0.0005	<0.0005	1.30
				1/22/20	6.05	35.74	Kane	**4,000**	**280**	**410**	*<2.0*	6.21	12.3	430.0	0.11	88.9	<56	13	16	<0.050	2.4	<0.00022	<0.00029	1.20
HZ-MW-16	Shallow	15 to 25		5/28/14			HWA	**0.32**	<0.20	**0.30**	<0.20	6.52		451.0	0.16									
				9/12/14			HWA	**4.2**	<0.20	<0.20	<0.20	7.08		207.0	1.23									
				12/15/14			HWA	**0.4**	<0.20	<0.20	<0.20	7.01		235.0	0.57									
				3/19/15			HWA	**0.35**	<0.20	**0.24**	<0.20	6.59		326.0	NA						<0.50			
				11/28/16	4.53		Kane	**0.34**	<0.20	<0.20	<0.20	6.78		167.0										
				9/24/18	6.23		Kane	<1.00	<0.50	<1.00	<0.20	6.62	16.6	131.0	1.85	83.4	<100	9.78	2.83	<0.100	<0.00863	<0.0162	<0.0151	1.58
				1/3/19	5.56		Kane	**1.39**	<0.50	<1.00	<0.20	6.09		220.2	0.66	63.5	<100	15.2	8.5	<0.100	<0.00863	<0.0162	<0.0151	0.645
				6/5/19	5.8		Kane	**2.00**	**0.30**	**0.61**	<0.20	6.46	15.0	222.3	0.29	26.7	<56	16	7.6	<0.050	<0.001	<0.0005	<0.0005	<1.0
HZ-MW-17	Shallow	10 to 20	38.567	6/9/14			HWA	<0.20	<0.20	<0.20	<0.20	6.61		594.0	0.15									
				9/12/14			HWA	**2.0**	<0.20	<0.20	<0.20	6.94		345.0	0.89									
				12/16/14			HWA	**0.5**	<0.20	<0.20	<0.20	6.71		309.0	1.55									
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.96		434.0	NA									
				9/26/16	8.90	29.67	Kane	<0.20	<0.20	<0.20	<0.20	6.73		230.0										
				10/27/16	6.61	31.96	Kane	<0.20	<0.20	<0.20	<0.20	6.89	14.9	238.0										
				7/24/18	7.45	31.12	Kane	<1.00	<0.50	<1.00	<0.20	7.17	16.1	250.0	0.41									
				9/12/18	7.90	30.67	Kane	<1.00	<0.50	<1.00	<0.20	6.97	16.2	267.0	0.09	39.9	2,540	16.9	7	<0.100	<0.00863	<0.0162	<0.0151	2.54
				12/6/18	7.68	30.89	Kane	<1.00	<0.50	<1.00	<0.20	6.65	14.9	297.5	0.32	29.1	2,060	23.7	9.1	<0.100	<0.00863	<0.0162	<0.0151	2.28
				5/31/19	7.08	31.49	Kane	<0.20	<0.20	<0.20	<0.20	6.91	15.2	312.3	0.11	-30.1	3,600	16	9	0.081	0.25	<0.015	<0.015	1.1
HZ-MW-18	Shallow	7.5 to 17.5		6/10/14			HWA	<0.20	<0.20	<0.20	<0.20	6.38		1901.0	0.14									
HZ-MW-19	Shallow	5 to 15	42.177	5/30/14			HWA	**0.97**	**0.94**	**0.40**	<0.20	6.38		1210.0	0.10									
				6/9/14			HWA	**0.28**	**0.67**	**1.1**	<0.20	6.26		1213.0	0.13									
				9/12/14			HWA	**3.3**	**0.76**	**0.67**	<0.20	6.37		675.0	0.50									
				12/16/14			HWA	**1.0**	<0.20	<0.20	<0.20	6.75		301.0	0.42									
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.33		376.0	NA						100			
				8/6/15			HWA					6.18		513.0	0.00									
				11/11/15	7.01	35.22	HWA	**0.6**	**0.77**	**1.1**	<0.20	6.03		623.0	0.00	-13.9		25			11	<0.50	<0.50	8.4
				9/26/16	7.73	34.45	Kane	**0.59**	**0.54**	**0.48**	<0.20	6.29		438.0										
				10/31/16	4.78	37.40	Kane	<0.20	<0.20	<0.20	<0.20	6.11	14.2	174.0										
				7/24/18	7.17	35.01	Kane	<1.00	<0.50	<1.00	<0.20	6.56	17.3	335.0	0.00									
				9/7/18	7.72	34.46	Kane	<1.00	**0.574**	<1.00	<0.20	6.34	18.0	504.0	1.16	102.7	1,460	61.5	5.2	<0.100	<0.00863	<0.0162	<0.0151	8.59
				12/7/18	6.32	35.86	Kane	<1.00	<0.50	<1.00	<0.20	5.99	14.5	376.6	0.12	64.7	2,500	24.5	2.44	<0.100	0.0158	<0.0162	<0.0151	6.15
				5/30/19	6.25	35.93	Kane	**0.21**	**0.25**	<0.20	<0.20	6.25	18.1	424.6	0.15	34.5	240	28	3.9	<0.050	0.019	<0.001	<0.001	3.5
HZ-MW-20	Shallow	5 to 15		6/9/14			HWA	<0.20	<0.20	<0.20	<0.20	6.79		1914.0	0.28									
				9/13/14			HWA	**1.3**	<0.20	<0.20	<0.20	7.09		1018.0	0.72									
				12/16/14			HWA	**0.41**	<0.20	<0.20	<0.20	6.72		851.0	0.44									
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.91		1139.0	NA									
HZ-MW-21	Shallow	6 to 16	39.517	9/13/16	7.14	32.38	Kane	<0.20	<0.20	<0.20	<0.20	6.55		509.0										
				10/31/16	5.90	33.62	Kane	<0.20	<0.20	<0.20	<0.20	6.31	14.7	528.0										
				7/23/18	6.90	32.62	Kane	<1.00	<0.50	<1.00	<0.20	6.77	17.6	576.0	0.19									
				9/13/18	7.37	32.15	Kane	<1.00	<0.50	<1.00	<0.20	6.65	17.9	700.0	0.12	71.6	739	35.6	7.12	0.169	0.0386	<0.0162	<0.0151	18.3
				12/10/18	6.69	32.83	Kane	<1.00	<0.50	<1.00	<0.20	6.43	14.1	120.9	0.71	71.7	<100	8.51	1.4	0.125	<0.00863	<0.0162	<0.0151	1.94
				5/23/19	6.55	32.97	Kane	<0.20	<0.20	<0.20	<0.20	6.60	15.3	500.7	0.11	-0.1	550	21	8.1	0.29	0.14	0.00093	<0.0005	14
HZ-MW-22	Shallow	5 to 15	40.827	9/14/16	6.77	34.06	Kane	**0.67**	**0.62**	**0.24**	<0.20	6.13		303.0										
				10/28/16	4.85	35.98	Kane	**0.46**	<0.20	<0.20	<0.20	6.52	16.5	318.0										
				7/23/18	6.45	34.38	Kane	**1.52**	**0.849**	<1.00	<0.20	6.47	17.6	316.0	0.68									
				9/7/18	7.10	33.73	Kane	**1.44**	**1.33**	**1.07**	<0.20	6.25	18.9	338.0	0.51	98.7	<100	20.3	14.1	<0.100	<0.00863	<0.0162	<0.0151	5.38
				12/21/18	5.35	35.48	Kane	**1.46**	**0.956**	<1.00	<0.20	6.16	13.3	392.0	0.98	32.7	<100	25.5	10.2	<0.100	<0.00863	<0.0162	<0.0151	2.52
				5/21/19	5.72	35.11	Kane	**1.2**	**0.66**	**0.51**	<0.20	6.37	14.3	413.6	0.50	-19.1	<56	31	8.1	<0.050	0.004	<0.0005	<0.0005	2.3
HZ-MW-23	Intermediate	28 to 38	41.677	9/14/16	8.21	33.47	Kane	**2.4**	<0.20	**0.41**	<0.20	6.55		378.0										
				10/31/16	6.80	34.88	Kane	**2.3**	<0.20	**0.33**	<0.20	6.77	14.4	345.0										
				9/7/18	8.26	33.42	Kane	<1.00	<0.500	<1.00	<0.20	6.84	15.6	401.0	0.07	24.8	3,800	13.2	11.1	<0.100	0.527	<0.0162	<0.0151	6.14
				12/19/18	7.40	34.28	Kane	<1.00	<0.50	<1.00	<0.20	6.53	14.2	416.2	0.06	7.5	1,200	16.6	11.3	<0.100	0.273	<0.0162	<0.0151	3.14

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				5/30/19	7.17	34.51	Kane	<0.20	<0.20	<0.20	<0.20	6.74		358.2	0.20	11.5	7,500	13	11	<0.050	0.75	<0.05	<0.05	3.4
				7/30/19	7.98	33.70	Kane	<0.20	<0.20	<0.20	<0.020	6.65	18.6	281.2	0.22	-79.8	4,900	11	6.8	<0.050	0.21	<0.0005	<0.0005	3.4
				10/24/19	8.61	33.07	Kane	<0.20	<0.20	<0.20	<0.020	6.40	14.9	290.2	0.17	-5	8,700	8.1	7.1	<0.050	0.92	<0.0005	<0.0005	24
				1/29/20	6.69	34.99	Kane	<0.20	<0.20	<0.02	**0.039**	6.55	13.2	502.7	0.20	13.5	10,000	<5.0	9.4	<0.050	1.9	<0.00022	<0.00029	42
HZ-MW-24	Intermediate	25 to 35	40.997	9/14/16	7.20	33.80	Kane	**4.9**	**2.4**	**21**	**0.8**	6.47		356.0										
				10/27/16	5.66	35.34	Kane	**6.7**	**0.8**	**12**	**0.6**	6.69	17.1	316.0										
				9/18/18	6.92	34.08	Kane	**4.48**	**2.3**	**14.8**	**0.577**	6.31	16.2	286.0	0.22	99.2	<100	26.1	8.28	<0.100	0.0181	<0.0162	<0.0151	3.98
				12/10/18	6.04	34.96	Kane	**2.79**	**0.908**	**5.38**	<0.20	6.26	15.0	273.7	0.08	-1.4	828	10.3	7.18	<0.100	<0.00863	<0.0162	<0.0151	7.02
				5/31/19	6.06	34.94	Kane	**2.0**	**0.92**	**21**	**0.77**	6.61	15.3	533.7	0.13	-11.7	8,500	<5.0	13	0.19	5.4	<0.25	<0.25	3.5
				7/17/19	7.10	33.90	Kane	**2.7**	**1.1**	**16**	**0.58**	6.39	17.1	557.4	0.07	-167.7	15,000	7.8	13	0.39	6.3	<0.0005	<0.0005	3.8
				10/24/19	6.82	34.18	Kane	<0.40	<0.40	**93**	**0.76**	6.21	16.0	442.3	0.16	10	20,000	<5.0	14	1.1	9.7	<0.0005	<0.0005	4.7
				1/27/20	5.71	35.29	Kane	**2.2**	**1.3**	**150**	**3.2**	6.47	13.0	452.3	0.13	35.3	14,000	<5.0	15	2.5	9.5	<0.00022	<0.00029	4.9
HZ-MW-25	Deep	44.33 to 54.33	41.907	9/14/16	8.17	33.74	Kane	**6.4**	<0.20	<0.20	<0.20	6.71		254.0										
				10/28/16	7.02	34.89	Kane	**1.2**	<0.20	<0.20	<0.20	6.46		237.0										
				7/19/18	8.00	33.91	Kane	<1.00	<0.50	<1.00	<0.20	6.67	14.7	248.0	0.45									
				9/11/18	8.41	33.50	Kane	<1.00	<0.50	<1.00	<0.20	6.38	15.3	273.0	0.08	102.8	201	9.38	25.8	<0.100	0.00931	<0.0162	<0.0151	2.72
				12/4/18	7.35	34.56	Kane	**3.67**	**1.36**	<1.00	<0.20	6.11	14.7	299.6	0.07	48.7	5,900	14.5	21.1	<0.100	<0.00863	<0.0162	<0.0151	4.34
				5/30/19	7.60	34.31	Kane	<0.20	<0.20	<0.20	<0.20	6.36		259.6	0.32	21.3	330	12	22	<0.050	0.056	<0.005	<0.005	<1.0
HZ-MW-26	Intermediate	25 to 35	40.692	9/14/16	7.55	33.14	Kane	**99**	**3.5**	**4.7**	*<0.40*	6.71		267.0										
				10/28/16	6.26	34.43	Kane	**3.3**	<0.20	**0.25**	<0.20	6.74	16.0	265.0										
				7/23/18	7.36	33.33	Kane	**11.9**	<0.50	**2.01**	<0.20	6.98	16.4	284.0	0.31									
				9/17/18	6.83	33.86	Kane	**7.12**	<0.50	**1.3**	<0.20	6.55	15.0	316.0	0.37	187	<100	24.9	7.46	<0.100	<0.00863	<0.0162	<0.0151	3.54
				12/4/18	7.23	33.46	Kane	**6.21**	<0.50	**1.03**	<0.20	6.38	14.2	334.2	0.10	75.6	<100	25.3	8.08	<0.100	<0.00863	<0.0162	<0.0151	2.3
				5/30/19	6.85	33.84	Kane	**9.7**	<0.20	**1.4**	<0.20	6.70	16.6	329.9	0.18	17	<56	28	9.3	<0.050	0.0042	<0.0005	<0.0005	<1.0
				7/30/19	7.34	33.35	Kane	**5.0**	<0.20	**1.0**	**0.053**	6.42	16.5	327.9	0.21	-96.7	<56	23	9.3	0.063	0.01	<0.0005	<0.0005	<1.0
				10/16/19	7.91	32.78	Kane	**2.8**	<0.20	**0.53**	**0.055**	6.61	15.1	322.7	0.03	152.3	<56	24	11	<0.050	0.022	<0.0005	<0.0005	<1.0
				1/24/20	6.86	33.83	Kane	**1.5**	<0.20	**0.42**	**0.041**	6.55	13.1	334.4	0.10	36.3	<56	23	14	<0.050	0.035	<0.00022	0.00052	<1.0
HZ-MW-27	Deep	45 to 55	41.597	9/14/16	8.00	33.60	Kane	**1.6**	<0.20	**0.34**	<0.20	6.80		227.0										
				10/28/16	6.55	35.05	Kane	**0.84**	<0.20	<0.20	<0.20	6.51		208.0										
				7/13/18	7.35	34.25	Kane	**2.24**	<0.50	**1.07**	<0.20	6.77	15.1	215.0	0.40									
				9/18/18	7.73	33.87	Kane	**1.75**	<0.50	<1.00	<0.20	6.24	15.1	222.0	0.34	62.8	<100	15.3	8.08	<0.100	0.0449	<0.0162	<0.0151	4.12
				12/7/18	8.18	33.42	Kane	<1.00	<0.50	<1.00	<0.20	6.12	14.5	229.6	0.13	49.8	835	21.1	8.36	<0.100	0.0636	<0.0162	<0.0151	1.28
				5/30/19	7.30	34.30	Kane	<0.20	<0.20	<0.20	<0.20	6.51	15.8	223.5	0.22	18.6	1,200	18	8.7	<0.050	0.093	<0.005	<0.005	1.4
HZ-MW-28	Intermediate	25 to 35	38.744	10/27/16	5.90	32.84	Kane	**0.96**	<0.20	<0.20	<0.20	6.87	15.3	343.0										
				7/24/18	6.65	32.09	Kane	<1.00	<0.50	<1.00	<0.20	7.08	15.6	333.0	0.42									
				9/13/18	7.00	31.74	Kane	<1.00	<0.50	<1.00	<0.20	6.86	15.1	368.0	0.13	35.8	420	17.6	16	<0.100	0.0191	<0.0162	<0.0151	2.29
				12/6/18	6.40	32.34	Kane	<1.00	<0.50	<1.00	<0.20	6.58	14.2	429.8	0.28	56.7	<100	37.6	14	<0.100	0.0101	<0.0162	<0.0151	2.77
				5/31/19	6.35	32.39	Kane	<0.20	<0.20	<0.20	<0.20	6.75	14.6	416.1	0.14	-7.1	<56	45	16	<0.050	0.053	<0.003	<0.003	1.4
HZ-MW-29	Intermediate	25 to 35	40.309	10/27/16	6.03	34.28	Kane	**85**	**9.0**	**100**	**6.6**	6.60	15.7	271.0										
				7/23/18	6.75	33.56	Kane	**54.8**	**4.2**	**33.2**	**1.31**	6.66	16.9	241.0	0.07									
				9/11/18	7.11	33.20	Kane	**36.6**	**3.48**	**23.7**	<0.20	6.47	15.3	254.0	0.15	95.2	<100	16	10.9	<0.100	<0.00863	<0.0162	<0.0151	2.73
				12/10/18	5.68	34.63	Kane	**13.6**	**4.06**	**11.4**	<0.20	6.18	14.3	330.7	0.07	3.5	2,140	17.9	17.2	<0.100	<0.00863	<0.0162	<0.0151	2.68
				5/31/19	6.29	34.02	Kane	**1.4**	**0.6**	**32**	**0.26**	6.52	15.8	705.0	0.35	-2.3	10,000	<5.0	18	0.65	3.9	<0.25	<0.25	52
				7/17/19	7.03	33.28	Kane	**1.2**	**0.58**	**32**	**0.47**	6.20	15.9	627.0	0.09	-93.7	9,300	<5.0	16	0.79	9.5	<0.0005	<0.0005	15
				10/24/19	7.98	32.33	Kane	<1.0	<1.0	**100**	**0.94**	6.15	15.2	466.6	0.14	-9.6	9,500	<5.0	13	1.6	9.9	<0.0005	<0.0005	2.1
				1/27/20	6.41	33.90	Kane	<1.0	**1.5**	**100**	**1.5**	6.33	13.4	579.5	0.17	42.1	12,000	6.9	14	3.2	8.6	<0.00022	<0.00029	1.8
HZ-MW-30	Deep	40 to 50		11/28/16	7.08		Kane	<0.20	<0.20	<0.20	<0.20	8.01		418.0										
				8/27/18	8.60		Kane	<1.00	<0.50	<1.00	<0.20	7.71	16.9	235.0										
				9/20/18	9.54		Kane	<1.00	<0.50	<1.00	<0.20	7.71	15.0	273.0	0.25	-140	162	0.506	3.51	0.937	0.426	<0.0162	<0.0151	2.1
				12/18/18	7.71		Kane	<1.00	<0.50	<1.00	<0.20	7.60	13.9	281.5	0.05	-2.4	247	<0.300	3.62	0.956	0.307	<0.0162	<0.0151	2.15
				5/19/19	7.88		Kane	<0.20	<0.20	<0.20	<0.20	7.68		260.5	0.17	22.8	170	<5.0	4.8	0.61	0.91	<0.05	<0.05	1.8
HZ-MW-31	Shallow	15 to 25		11/28/16	8.42		Kane	<0.20	<0.20	<0.20	<0.20	6.80		325.0										
				8/27/18	9.55		Kane	<1.00	<0.50	<1.00	<0.20	6.52	16.3	294.0										
				9/20/18	9.63		Kane	<1.00	<0.50	<1.00	<0.20	6.46	15.5	321.0	0.43	-45.4	8,800	7.69	9.3	0.33	0.0618	<0.0162	<0.0151	5.41
				12/18/18	9.40		Kane	<1.00	<0.50	<1.00	<0.20	6.33	14.2	331.1	0.07	2	1,880	8.74	8.76	0.297	0.151	<0.0162	<0.0151	4.99
				5/29/19	9.34		Kane	**0.78**	<0.20	<0.20	<0.20	6.58	15.0	320.7	0.23	19.8	20,000	<5.0	8.7	0.26	0.34	<0.025	<0.025	4.6
				7/24/19	9.45		Kane	**2.5**	<0.20	**0.69**	**0.048**	6.33	16.9	295.9	0.21	-64	19,000	<5.0	8.3	0.27	0.62	<0.0005	<0.0005	4.4
				10/25/19	9.16		Kane	<0.20	<0.20	<0.20	**0.048**	6.22	15.1	232.9	0.10	23	19,000	<5.0	6.3	0.3	0.9	<0.0005	<0.0005	4.8
				1/28/20	8.75		Kane	<0.20	<0.20	<0.20	**0.054**	6.27	12.9	298.6	0.24	69	18,000	<5.0	6.7	0.29	0.76	<0.00022	<0.00029	4.8
HZ-MW-32	Shallow	15 to 25		11/28/16	7.68		Kane	<0.20	<0.20	<0.20	<0.20	6.78		331.0										

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				9/20/18	9.46		Kane	<1.00	<0.50	<1.00	<0.20	6.50	14.8	355.0	0.20	-68.3	13,500	3.07	13.3	0.402	0.147	<0.0162	<0.0151	6.79
				12/19/18	8.70		Kane	<1.00	<0.50	<1.00	<0.20	6.28	13.2	377.0	0.14	-5	234	5.93	13.6	0.356	0.121	<0.0162	<0.0151	6.56
				5/29/19	8.25		Kane	<0.20	<0.20	<0.20	<0.20	6.56		377.1	0.46	25.6	27,000	<5.0	13	0.39	0.27	<0.015	<0.015	5.9
HZ-MW-33	Intermediate	25 to 35		11/28/16	6.33		Kane	<0.20	<0.20	**0.48**	<0.20	7.39		242.0										
				7/24/18	6.87		Kane	<1.00	<0.20	<1.00	<0.20	7.02	17.0	214.0	0.00									
				9/12/18	7.35		Kane	<1.00	<0.50	**1.11**	<0.20	6.84	15.2	237.0	0.25	103.4	<100	14.2	6.54	<0.100	<0.00863	<0.0162	<0.0151	2.08
				12/6/18	7.19		Kane	<1.00	<0.50	**2.06**	**0.303**	6.55	14.1	259.5	0.21	48.1	<100	19.1	7.87	<0.100	<0.00863	<0.0162	<0.0151	2.36
				5/31/19	6.82		Kane	**0.51**	<0.20	**1.7**	<0.20	6.77	15.6	271.0	0.14	-12.5	<56	16	7.3	<0.050	0.0027	<0.0005	<0.0005	<1.0
HZ-MW-34	Shallow	15 to 25		11/28/16	4.81		Kane	**7.2**	**14**	**44**	**3.1**	6.64		272.0										
				9/17/18	6.68		Kane	**8.05**	**16.5**	**40.6**	**2.97**	6.12	17.1	265.0	0.32	152	<100	17.7	10.4	<0.100	0.0191	<0.0162	<0.0151	3.87
				12/7/18	5.77		Kane	**4.63**	**12.7**	**32.6**	<0.20	6.18	15.9	383.7	0.10	0.9	5,750	7.8	14.2	<0.100	<0.00863	<0.0162	<0.0151	3.96
				5/31/19	5.88		Kane	**0.83**	**3.3**	**24**	**0.26**	6.46	14.7	550.0	0.16	-17.2	10,000	5.7	13	<0.050	1.1	<0.05	<0.05	42
				7/17/19	6.41		Kane	**1.4**	**3.3**	**20**	**0.28**	6.24	17.3	508.5	0.08	-158.7	11,000	5.2	13	<0.050	3.1	<0.00050	<0.0005	24
				10/23/19	6.60		Kane	<1.0	<1.0	**110**	**0.97**	6.25	16.2	258.4	0.07	24.7	4,900	17	9	0.69	7.7	<0.0005	<0.0005	5.8
				1/27/20	5.22		Kane	<1.0	**2.6**	**120**	**31**	6.25	14.0	570.1	0.14	48.8	6,200	11	14	0.67	11	<0.00022	<0.00029	2.3
S-MW-1	Shallow	5.5 to 15.5	43.527	9/20/16	6.96	36.57	Kane	**150**	<1.0	<1.0	*<1.0*	6.48		303.0										
				10/24/16	4.64	38.89	Kane	**17**	<0.20	<0.20	<0.20	6.74	16.5	140.0										
				10/23/18	6.80	36.73	Kane	**9.1**	<0.50	<1.0	<0.20	6.59		161.0										
				6/6/19	6.00	37.53	Kane	**8.9**	<0.20	<0.20	<0.20	6.25	14.4	256.6	3.46	5	<56	50	4.6	<0.050	<0.001	<0.0005	<0.0005	1.4
				7/24/19	6.61	36.92	Kane	**6.5**	<0.20	<0.20	<0.020	6.01	18.8	200.8	3.10	-74.5	<56	26	4.8	0.15	<0.001	<0.0005	<0.0005	<1.0
				10/23/19	6.18	37.35	Kane	**7.3**	<0.20	<0.20	<0.020	5.92	15.4	162.8	3.82	164.3	<56	23	4.2	<0.050	<0.001	<0.0005	<0.0005	<1.0
				1/21/20	4.78	38.75	Kane	**3.4**	<0.20	<0.20	<0.020	6.32	11.0	236.2	4.38	105.9	<56	42	3.7	<0.050	<0.00055	<0.00022	<0.00029	<1.0
S-MW-2	Shallow	5 to 15	42.297	9/20/16	6.21	36.09	Kane	**47**	**7**	**26**	*<0.40*	6.41		339.0										
				10/24/16	3.95	38.35	Kane	**35**	**20**	**69**	**5.1**	6.83	17.8	349.0										
				9/21/18	6.03	36.27	Kane	**10.3**	**4.74**	**3.66**	<0.20	6.80	18.4	246.0	0.12	105.6	<100	19.3	4.29	<0.100	<0.00863	<0.0162	<0.0151	2.25
				1/2/19	4.40	37.90	Kane	**7.55**	**4.2**	**5.02**	<0.20	6.45		278.4	0.11	34.7	<100	19	4.74	<0.100	<0.00863	<0.0162	<0.0151	1.02
				6/6/19	5.14	37.16	Kane	**5.8**	**3.8**	**3.2**	<0.20	6.68	15.6	363.7	0.25	0.5	<56	35	6.6	<0.050	0.033	<0.0025	<0.0025	1.6
				7/24/19	5.34	36.96	Kane	**6.2**	**3.8**	**4.1**	**0.11**	6.18	18.5	338.0	0.14	-129.2	<56	21	7.4	<0.050	0.027	<0.0005	<0.0005	1.3
				10/17/19	5.26	37.04	Kane	**5.8**	**3.7**	**4.2**	**0.11**	6.34	17.6	245.9	0.10	193.1	<56	26	6.9	<0.050	0.023	<0.0005	<0.0005	1.6
S-MW-3	Intermediate	25 to 35	42.807	9/16/16	6.62	36.19	Kane	**0.44**	<0.20	<0.20	<0.20	5.79		116.0										
				10/31/16	4.93	37.88	Kane	**1.7**	<0.20	<0.20	<0.20	6.04	15.9	116.0										
				9/21/18	6.51	36.30	Kane	**3.8**	<0.50	<1.00	<0.20	5.95	14.8	95.0	0.24	80.3	<100	13.7	2.82	<0.100	0.0652	<0.0162	<0.0151	1.24
				1/3/19	5.17	37.64	Kane	**2.28**	<0.50	<1.00	<0.20	5.57		103.2	0.14	49	<100	15	3.63	<0.100	0.0994	<0.0162	<0.0151	0.723
				6/5/19	6.05	36.76	Kane	**2.2**	<0.20	<0.20	<0.20	5.88	14.5	113.8	0.19	-9.3	<56	13	3.6	<0.050	0.49	<0.025	<0.025	<1.0
				7/24/19	6.75	36.06	Kane	**2.8**	<0.20	<0.20	<0.020	5.31	16.5	108.6	0.14	-177.5	<56	12	3.9	<0.050	0.47	<0.0005	<0.0005	<1.0
				10/17/19	6.08	36.73	Kane	**3.7**	<0.20	<0.20	<0.020	5.20	15	84.7	0.14	218.6	<56	13	4.4	<0.050	0.51	<0.0005	<0.0005	<1.0
S-MW-4	Deep	40 to 50	42.367	9/14/16	6.32	36.05	Kane	<0.20	<0.20	<0.20	<0.20	6.74		206.0										
				10/28/16	4.93	37.44	Kane	**0.66**	<0.20	<0.20	<0.20	6.44		191.0										
				7/19/18	6.23	36.14	Kane	**1.25**	<0.50	<1.00	<0.20	6.85	14.6	183.0	0.46									
				9/21/18	6.37	36.00	Kane	<1.00	<0.50	<1.00	<0.20	6.58	15.4	200.0	0.08	95.8	621	15	6.13	0.133	0.0092	<0.0162	<0.0151	2.37
				1/2/19	5.90	36.47	Kane	<1.00	<0.50	<1.00	<0.20	6.15		202.9	0.09	56.9	449	14.5	6.18	<0.100	0.0132	<0.0162	<0.0151	1.52
				6/5/19	6.04	36.33	Kane	**0.56**	<0.20	<0.20	<0.20	6.17	14.7	153.2	0.15	-4.6	410	15	4.5	<0.050	0.084	<0.005	<0.005	<1.0
S-MW-5	Shallow	15 to 25	41.357	10/28/16	4.56	36.80	Kane	**340**	<4.0	<4.0	*<4.0*	6.68	18.0	259.0										
				9/24/18	6.07	35.29	Kane	**530**	<5.0	<10	*<2.0*	6.38	16.2	164.0	2.17	48.5	<100	12.6	6.05	<0.100	<0.00863	<0.0162	<0.0151	1.36
				12/27/18	3.90	37.46	Kane	**1,690**	**6.03**	**16.7**	<0.20	6.31		235.5	0.98	58.2	<100	21.6	6.56	<0.100	<0.00863	<0.0162	<0.0151	0.506
				6/5/19	5.20	36.16	Kane	**880**	*<10*	<10	*<10*	6.57	15.2	205.1	1.81	7.3	<56	19	5.9	<0.050	<0.001	<0.0005	<0.0005	<1.0
				7/24/19	5.72	35.64	Kane	**530**	<4.0	<4.0	*<0.40*	6.22	17.6	169.8	1.93	-76.1	<56	15	7.5	<0.050	<0.001	<0.0005	<0.0005	<1.0
				10/17/19	5.88	35.48	Kane	**820**	<4.0	<4.0	*<0.40*	6.05	15.8	159.8	1.78	198.6	<56	17	5.3	<0.050	<0.001	<0.0005	<0.0005	<1.0
				1/21/20	5.00	36.36	Kane	**780**	<4.0	<4.0	*<0.40*	6.65	12.8	195.6	1.30	74.8	<56	22	6.1	<0.050	<0.00055	<0.00022	<0.00029	<1.0
S-MW-6	Shallow	4 to 14		1/3/17	5.51		Kane	<0.20	<0.20	<0.20	<0.20	6.23		155.0										
				1/11/19	5.54		Kane	<1.00	<0.50	<1.00	<0.20	6.11		129.0										
				6/7/19	7.57		Kane	<0.20	<0.20	<0.20	<0.20	6.1	13.5	182.8	4.90	8.7	<56	29	7.3	<0.050	0.0016	<0.0005	<0.0005	<1.0
MTCA Method A Cleanup Level[1]								5.0	5.0		0.2													
MTCA Method B Cleanup Level[2]										16							11,200							

* HWA TOC elevation was used to calculate GW elevation during HWA sampling events.

Notes:
PCE – Tetrachloroethene
TCE – Trichloroethene
1,1-DCE - 1,1-Dichloroethene
(cis) 1,2-DCE - (cis) 1,2-Dichloroethene

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)

(trans) 1,2-DCE - (trans) 1,2-Dichloroethene
Blank – Not analyzed or not available
Bold – Analyte detected
Bold / highlighted – Analyte exceeds MTCA A/B cleanup level
Italicized - Detection limit exceeds respective cleanup level
< – Analyte not detected at listed reporting limit
mg/L – micrograms per liter
MV – Millivolts
ES – Estimated concentration because analyte concentration was outside of lab instrument calibration range
DNAPL – Dense Non-Aqueous Phase Liquid
1 – Table 720-1, WAC 173-340-900
2 – WA Dept. of Ecology CLARC ground water data table (https://fortress.wa.gov/ecy/clarc/FocusSheets/Groundwater%20Methods%20B%20and%20A%20and%20ARARs.pdf)
NA – Not Applicable
- Well was not sampled by Kane
* HWA TOC elevation was used to calculate GW elevation during HWA sampling events.