City of Bothell™

October 1, 2019

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 September 2019

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: July 1 – September 30, 2019

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 much of the work has been geared towards continued operation of the bio-remediation system, monitoring well sampling and performing localized soil excavation and soil-vapor extraction system. Additionally, there was considerable effort to amend the BSCSS consent decree to incorporate the Wexler Settlement Area.

The attached progress report provides an update on work accomplished during the period ending September 30, 2019. 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

City of Bothell™

Reporting Period:	July 1 – September 30
Date submitted (electronically):	October 1, 2019
Date mailed (certified w/return receipt):	October 2019
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

The following activities have occurred this quarter –

- Continued operation of the bio-remediation system
- Extended soil excavation in the former ERH area; see attached technical memorandum titled "Amendment No. 2: Vadose Soil Excavation in the former ERH Treatment Area & Location along 98th Ave NE, Bothell Service Center Simon & Son" dated September 4, 2019
- Groundwater sampling was completed in August
- Decommissioning of the SVE system was completed at the end of August
- *(Related work – coordination for the public comment period including updates to the BSCSS CAP documents as they pertain to the BSCSS CD amendment that will incorporate Wexler Settlement Area)*

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

This quarter there was a deviation from the CAP pertaining to the following:

- The addition of carbstrate in the ERH excavation. The excavation was backfilled in the first week of September
- A modification to remediation approach for a hotspot located in the paved roadways at 98th Ave NE (southwest of the ERH treatment area).

The above deviations were memorialized in the September 4, 2019 technical memorandum, and received Ecology's concurrence

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:

See the September 4, 2019 technical memorandum attached

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

The CD schedule (Exhibit D) was updated to show a more representative timeline for the operation and decommissioning of the SVE system. This updated schedule was included in the public comment package for the BSCSS CD amendment that will incorporate Wexler Settlement Area work. The public comment period started on late August and ended on September 24, 2019. A public meeting was held at Bothell City Hall on August 28, 2019.

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

- For soil analytical data, see attached September 4, 2019 technical memorandum
- GW monitoring summer 2019 quarter sampling results – table attached

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

Same as the updated schedule. Note that according to the updated schedule, the work on an environmental covenant (EC) for this site is slated to begin within 60 days of decommissioning the SVE system. Therefore, a draft EC is due to Ecology at the end of October 2019

Attachments

Site Photos, excavation area
Pertinent email correspondence
September 4, 2019 technical memorandum (electronic transmittal link)
Updated Exhibit D from the CD (8-13-19)
Documentation compliance list, updated
Groundwater sampling tables and maps

HOT SPOT EXCAVATION

Excavation; monitoring wells intact

Carbstrate application

Backfill complete

View facing NE; site left bare

From: Nduta Mbuthia
To: Cruz, Jerome (ECY)
Cc: John Kane; Jeff Jensen; Tebeau, Kara J. (ATG); Cardona-Marek, Tamara (ECY); Petrovich, Brad (ECY); Warren, Bob (ECY)
Subject: RE: [EXTERNAL] carbstrate in BSCSS ERH area vadose zone excavations
Date: Wednesday, September 4, 2019 10:31:12 AM

Hi Jerome,
The memo documenting carbstrate addition to the excavation is available for your review – please click this link to download the document
https://cityofbothell-my.sharepoint.com/:b:/g/personal/nduta_mbuthia_bothellwa_gov/EfYx8CgWpr1Ej43S0pLGwckBUiPPO7coq5xhEyUsk3uwXw?e=4njfGd
Thanks
Nduta

From: Cruz, Jerome (ECY) <JCRU461@ECY.WA.GOV>
Sent: Tuesday, September 3, 2019 9:28 AM
To: Nduta Mbuthia <Nduta.Mbuthia@bothellwa.gov>
Cc: John Kane <jkane@kane-environmental.com>; Tebeau, Kara J. (ATG) <kara.tebeau@atg.wa.gov>; Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Petrovich, Brad (ECY) <bpet461@ECY.WA.GOV>; Warren, Bob (ECY) <rwar461@ECY.WA.GOV>
Subject: Re: [EXTERNAL] carbstrate in BSCSS ERH area vadose zone excavations

Hi Nduta,
I am working remotely this week, but can be contacted at my cell (206-327-1593).

I do not know if the excavations have been filled in yet. I asked John for more information (see below), but in general, it should do no harm if the bioremediation agent (Carbstrate) is placed in the excavations before filling in. Since the recirculation and treatment system also reinjects Carbstrate, it's the same technology that is already being used at the site to remediate the solvent plume. Therefore, I believe it's within the scope of the CAP and additional public comment is not needed and that it is not a major deviation to the CAP.

I recommend that the City submit a memorandum documenting the proposal to place Carbstrate in the ERH treatment area excavations. John mentioned adding a horizontal pipe delivery system, but I lack additional information on this and since it involves extra construction, I am hesitant to make a decision on it.

Thanks,

Jerome

From: Nduta Mbuthia <Nduta.Mbuthia@bothellwa.gov>
Sent: Friday, August 23, 2019 11:44 AM
To: Cruz, Jerome (ECY)
Subject: RE: [EXTERNAL] carbstrate in BSCSS ERH area vadose zone excavations

Hi Jerome,
I agree – it is a deviation from the CAP, and needs a formal document to capture the requested change in advance of the work.
Thanks
Nduta

From: Cruz, Jerome (ECY) <JCRU461@ECY.WA.GOV>
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To: Nduta Mbuthia <Nduta.Mbuthia@bothellwa.gov>
Subject: [EXTERNAL] carbstrate in BSCSS ERH area vadose zone excavations

Hi Nduta,
John called me a few days ago about adding Carbstrate in the open excavations and adding an infiltration gallery for additional

From: Cruz, Jerome (ECY)
To: Nduta Mbuthia
Cc: John Kane; Jeff Jensen; Tebeau, Kara J. (ATG); Cardona-Marek, Tamara (ECY); Petrovich, Brad (ECY); Warren, Bob (ECY)
Subject: Re: [EXTERNAL] carbstrate in BSCSS ERH area vadose zone excavations
Date: Wednesday, September 4, 2019 11:54:08 AM

Hi Nduta,
Ecology concurs with the memo and its contents. This includes the remaining remedial activities such as Carbstrate application in the excavation.

Will there be enough time for rainfall to infiltrate the area for the bioremediation agent to reach groundwater? Will it remain bare earth until it's sold?

Thanks,

Jerome

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Cc: John Kane <jkane@kane-environmental.com>; Tebeau, Kara J. (ATG) <kara.tebeau@atg.wa.gov>; Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Petrovich, Brad (ECY) <bpet461@ECY.WA.GOV>; Warren, Bob (ECY) <rwar461@ECY.WA.GOV>
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To: Nduta Mbuthia <Nduta.Mbuthia@bothellwa.gov>
Subject: [EXTERNAL] carbstrate in BSCSS ERH area vadose zone excavations

Hi Nduta,
John called me a few days ago about adding Carbstrate in the open excavations and adding an infiltration gallery for additional applications as mentioned in the 8-19-2019 memorandum on the Vadose zone excavations at the BSCSS ERH area.

I had told him it was not part of the original CAP, so more information would be needed. Information should cover questions like how much it would cost, what is it actually remediating (how much remnant plume and soil contamination is it addressing), duration, design, and expectations given that the ERH systems was have cleaned up much of this area. I need this to make an informed decision and was not about to make a snap decision on it.

I just quickly checked the consent decree and under VI. WORK TO BE PERFORMED it says the following: "B. Defendants agree not to perform any remedial actions outside the scope of this Decree unless the Parties agree to modify the CAP (Exhibit C) and Schedule (Exhibit D) to cover these actions. All work conducted by Defendants under this Decree shall be done in accordance with WAC 173-340 unless otherwise provided herein."

What's your take on this language?

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

original version

C.8	Decommission ERH and SVE system	Within 4 to 6 weeks of ERH system final shutdown
C.9	Cleanup Action Report and As-Built Drawings and Report; Draft Institutional Control (IC) Plan; Draft Environmental Covenant(s); and an updated Title Report	Within 60 days of decommission of ERH and SVE systems (C.8)
	D. Post Construction Work	
D.1	Final IC Plan and Final Environmental Covenant(s)	Within 30 days of receipt of Ecology comments on the Draft IC Plan and Draft Environmental Covenant(s).
D.2	Record Final Environmental Covenant(s) with King County Auditor	Within 5 days after Ecology's approval of the Final IC Plan or Ecology's signature as grantee of the Final Environmental Covenant(s), whichever occurs last.
D.3	Indoor Air Sampling of all occupied buildings on the site	May-July 2019, 2020,2021
D.4	Performance Groundwater Monitoring Quarterly Performance Monitoring Biannual Performance Monitoring	June 2018 to June 2020 June 2018 to June 2019 June 2019 to June 2020
D.5	Decommission Bioremediation/Groundwater Recirculation system and monitoring wells	2020 to 2022 (if operation of bioremediation system is extended)
D.6	Soil Vapor Sampling	2020
D.7	Groundwater Confirmation Monitoring Quarterly Compliance Monitoring	2020-2024 June 2020 to June 2022
D.8	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.9	Five Year Compliance Monitoring and Periodic Review reports	To follow Groundwater compliance monitoring (D.7). 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*

updated version

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.

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From: Cruz, Jerome (ECY)
To: Nduta Mbuthia
Cc: John Kane; Petrovich, Brad (ECY); Tebeau, Kara J. (ATG)
Subject: RE: [EXTERNAL] RE: Kane Environmental - Soil Vapor Extraction well installation
Date: Tuesday, July 9, 2019 8:50:07 AM
Attachments: image008.png
image009.png
image010.png

Hi Nduta,

Thanks for following up on this. I am OK with a delay to the deliverables (C8 and C9). C8 (running the remediation systems) would work better if run longer, but it should not matter now. However, it would be good to get official dates for when the system started and ended, just for the record.
Delays to C9 should be OK, if you can provide the estimated timetable to deliver.

I think the real focus now should be getting the draft RI/FS report, BSCSS and Wexler dCAPs ready for public comment. The clock is ticking and the review cycle and logistics of outreach here can be very tricky. Too many moving parts.

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
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Jerome.Cruz@ecy.wa.gov
http://www.ecy.wa.gov/programs/tcp/cleanup.html

From: Nduta Mbuthia [mailto:Nduta.Mbuthia@bothellwa.gov]
Sent: Tuesday, July 9, 2019 8:40 AM
To: Cruz, Jerome (ECY) <JCRU461@ECY.WA.GOV>
Cc: John Kane <jkane@kane-environmental.com>
Subject: RE: [EXTERNAL] RE: Kane Environmental - Soil Vapor Extraction well installation

Hi Jerome,

Just checking for clarification on the CD deliverables schedule, specifically items C8 & C9… which state that the SVE system is to be decommissioned and a cleanup action report with as-built drawings is to follow within 60 days (along with an IC plan, ECs and updated title report).

John, please correct me if I'm wrong… but was the SVE shut down in February or is it still running? And if the former is the case Jerome, are you okay will the delay in getting these deliverables to you? Please let me know. Thanks

Nduta

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.*

FINANCIAL OBLIGATIONS (A. Administrative)		
Provide a cost estimate to Ecology for the implementation of the CD requirements, including operation, maintenance, and compliance monitoring	*Feb 12, 2018 BSCSS grant submitted through Ecology EAGL with all cost estimates attached*	A4
Provide Ecology with proof of financial assurances in a form acceptable to Ecology	*Provided in CFP sheet*	A5
Adjust the cost estimated to reflect inflation and changes in cost estimates and provide updated financial assurances	Ongoing with EAGL, spending updated each quarter	-
Pay outstanding Ecology oversight costs of $13,108.83	*Confirmed; All Ecology invoices have been processed*	-
Pay Ecology's future oversight costs	Within 30 days of receiving Ecology's invoice; On-going	-
PRE-CLEANUP OBLIGATIONS (B. Design)		
Notify Ecology of selected contractor name and qualifications	*Completed, March 13, 2018*	A2
Submit written monthly Progress Reports	*Submitted 4/10/18 (QPR1); 7/9/18 (QPR2); 10/1/18 (QPR3)*	A3
Submit draft Pre-Remedial Design Project Plans (PRDI)[2]	*Completed (included in draft EDR report)*	B1
Submit draft PRDI Data Report and draft Engineering Design Report (EDR)[3]	*Completed, Feb 8, 2018(v1); March 15, 2018(v2)*	B2
Submit final PRDI Data Report and EDR	*Completed, April 24, 2018(v1); July 2018 (v2, addressing ECY's 6/5/18 comments). Approved EDR - August 28, 2018*	B3
Submit 90% plans and specs (per WAC 173-340-400(4)(b)	*Completed, same time as above*	B4
Submit 100% plans and specs	*Completed, same time as above*	B5
FIELD CONSTRUCTION (C)		**EXH D ref**
Complete construction procurement	*Completed; Feb 13, 2018 through March 2018*	C1
ERH System Installation	*Completed; Feb 13 through May 14, 2018*	C2
ERH Operation	*Completed; November 20, 2018*	
Start install and begin operation of bioremediation-groundwater recirculation /SVE systems	Ongoing; Started well installation in May 2018. Bio system operational since August 2018. SVE installed in March 2019; operation ongoing. Additional wells were installed and sampled in the ERH area	C3
Install compliance well monitoring network	*Completed; July 2018*	C4
Complete construction	*Completed; May 2019*	C5
Conduct ERH soil performance sampling	*Completed; Nov/Dec 2018*	C6
Contingent soil excavation in ERH treatment area	Completed; June 2019 per 6/7/19 work plan. Supplemental Excavation done in Aug 2019 in compliance with the lower CULs per amended BSCSS CAP (Aug Public comment period)	C7
Decommission ERH system; install and operate SVE system	Within 4 to 6 weeks of ERH final system shutdown*. ERH system was shut down on Nov 20, 2018. The ERH wells were then repurposed and tied in to the bio-remediation system*	C8
Submit Cleanup Action Report and As-Built Drawings and Report; draft Environmental Covenant (s); and an updated Title Report	Within 60 days of decommissioning SVE system. SVE system operation started March 2019 and was decommissioned end of August	C9

POST-CONSTRUCTION (D)		
Submit final Environmental Covenant(s)	Within 30 days of Ecology's comments on draft Environmental Covenant	D1
Record the restrictive covenant with the office of the King County Auditor	Within 5 days after the later of Ecology's approval of the Final Environmental Covenant or Ecology's signature as grantee of the Final Environmental Covenant(s), whichever occurs last	D2
Indoor Air Sampling	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	D3
Performance Groundwater Monitoring Quarterly Performance Monitoring Biannual Performance Monitoring	Summer 2018 to Summer 2020 - Event#1 – Sep 2018; Event#2 – Dec 2018, Event#3 – Mar 2019; Event#4 – May 2019; Event#5 – July 2019	D4
Decommission Bioremediation/Groundwater Recirculation system and monitoring wells	Upon attainment of cleanup levels in performance monitoring wells	D5
Groundwater Confirmation Monitoring Quarterly Compliance Monitoring	Quarterly for two years following completion of performance monitoring	D7
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	D8
PERIODIC REVIEWS		
Meet with Ecology to discuss the status of the Site	Every 5 years after initiation of cleanup action (until 10 years after termination of the CD)	D9
Five Year Compliance Monitoring and Periodic Review reports	To follow Groundwater compliance monitoring (D.7). Groundwater monitoring required once every five years for the duration of the institutional controls on groundwater (if present) under the environmental covenant.	
Submit periodic review reports to Ecology documenting whether human health and the environment are being protected	At least 90 days prior to each periodic review meeting with Ecology (until 10 years after termination of the CD)	

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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 Procedural*

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)	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	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	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

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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)	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	**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	305.0										
				7/17/18	7.95	40.01	Kane	<1.00	<0.50	<1.00	<0.20	6.30	144.0	11.37									
				9/11/18	8.69	39.27	Kane	<1.00	<0.50	<1.00	<0.20	6.20	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	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	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	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	364.0										
				9/17/18	8.89	36.83	Kane	**4,060**	**360**	**1,740**	**11.9**	6.59	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	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	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	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	354.3	0.06	-69	6,300	15	15	<0.050	5.2	<0.0005	<0.0005	2.3
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	291.0										
				9/14/18	8.27	36.03	Kane	**2,220**	**33.9**	**24**	<0.20	5.88	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	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	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*												

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				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								
				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	410.0										
				7/17/18	8.92	38.22	Kane	**27.4**	**14.3**	**4,480**	**851**	6.91	365.0	0.00									
				9/18/18	9.51	37.63	Kane	**738**	**238**	**2,620**	**472**	6.39	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	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	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	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	401.0	0.04	-108.1	9,200	<5.0	14	0.18	0.73	<0.0005	0.019	22
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			Farailon	**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	323.0										
				10/26/16	7.3	38.23	Kane					6.62	316.0				22		<0.050				2.8
				9/18/18	9.12	36.41	Kane	**1,370**	**78.1**	**673**	**5.85**	6.69	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	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	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								

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)	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)
				5/14/07			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			Farailon	**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
				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	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	173.0	0.32									
				9/17/18	10.33	37.06	Kane	**14.8**	**2.14**	**8.25**	<0.20	6.56	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	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	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	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	221.5	0.11	54.2	450	7.5	8.4	<0.050	0.14	<0.0005	<0.0005	2.1
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	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	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	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	295.0	0.16									
				9/17/18	9.82	37.39	Kane	**35.8**	**29.6**	**27.6**	<0.20	6.24	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	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	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	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	407.0	0.04	-43.8	660	10	11	0.068	1.1	<0.0005	<0.0005	26
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

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)	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)
				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			Farailon	**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			Farailon	**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
				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	369.0				13		<0.050				2.1
				7/20/18	8.44	37.03	Kane	**4,110**	**351**	**2,110**	**14.3**	6.45	162.0	0.66									
				9/10/18	9.14	36.33	Kane	**3,460**	**231**	**1,460**	**11.1**	6.46	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	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	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	672.0	0.05	-341	3,400	18	42	<0.050	3.2	<0.0005	<0.0005	2.8
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	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	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	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	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	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	210.2	0.13	-82	800	<5.0	6.4	0.89	0.67	<0.0005	<0.0005	8
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	319.0										
				9/10/18	9.31	36.41	Kane	**410**	**12**	**9**	<0.20	6.22	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	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	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	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	214.0	0.00									
				9/19/18	8.85	36.11	Kane	<1.00	<0.50	**1.22**	<0.20	7.54	251.0	0.45	33.9	<100	0.932	6.65	0.392	0.654	<0.0162	<0.0151	2.37

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)	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)
				12/3/18	8.63	36.33	Kane	<1.00	<0.50	**1.11**	<0.20	7.22	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	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	128.0										
				9/19/18	9.04	38.99	Kane	<1.00	<0.50	<1.00	<0.20	6.16	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	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	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	113.4	0.87	19.1	720	6.7	3.3	<0.050	0.14	<0.0075	<0.0075	1.6
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	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	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	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	63.0										
				7/19/18	10.40	37.78	Kane	**138**	<0.50	<1.00	<0.20	5.89	126.0	17.18									
				9/14/18	10.98	37.20	Kane	**106**	<0.50	<1.00	<0.20	5.64	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	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	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	120.9	6.39	155.7	<56	23	3.6	<0.050	<0.001	<0.0005	<0.0005	<1.0
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	105.0										
				7/19/18	10.48	37.71	Kane	<1.00	<0.50	<1.00	<0.20	6.32	122.0	3.12									
				9/14/18	10.6	37.59	Kane	<1.00	<0.50	<1.00	<0.20	6.12	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	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	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	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	252.0										
				7/17/18	10.32	37.92	Kane	<1.00	<0.50	<1.00	<0.20	7.57	236.0	0.00									
				9/14/18	10.73	37.51	Kane	<1.00	<0.50	<1.00	<0.20	7.31	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	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	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	274.4	0.11	-106.2	460	<5.0	5.2	0.3	0.35	<0.0005	<0.00050	2.1
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	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	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	221.0										
				12/5/18	10.4	39.15	Kane	<1.00	<0.50	<1.00	<0.20	6.13	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	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	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	254.0										
				7/16/18	8.82	37.78	Kane	<1.00	<0.50	<1.00	<0.20	6.53	240.0	0.00									
				9/18/18	9.45	37.15	Kane	<1.00	<0.50	<1.00	<0.20	6.37	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	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	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	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	235.0										
				7/16/18	7.74	36.51	Kane	<1.00	<0.50	<1.00	<0.20	7.35	217.0	0.13									
				9/10/18	8.45	35.80	Kane	<1.00	<0.50	<1.00	<0.20	7.08	244.0	0.25	21.8	1,130	2.94	8.11	0.244	0.323	<0.0162	<0.0151	3.3

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)	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)
				12/11/18	7.53	39.07	Kane	<1.00	<0.50	<1.00	<0.20	6.66	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	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	590.0	0.08	-224	2,700	5.2	12	0.23	0.21	<0.0005	<0.0005	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	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										
				11/1/16	7.53	40.03	Kane	**0.74**	<0.20	<0.20	<0.20	6.54	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	279.0										
				7/25/18	7.15	37.37	Kane	<1.00	<0.50	**1.03**	<0.20	7.11	190.0	0.00									
				12/17/18	6.33	38.19	Kane	**2.32**	**2.62**	**6.81**	<0.20	6.39	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	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	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	215.5	0.25	-96.6	4,300	<5.0	4.3	0.44	1	<0.0005	<0.0005	2.9
MW-40	Shallow	15 to 25	44.521	10/25/16	8.21	36.31	Kane	**25,000**	*<100*	*<100*	*<100*	6.69	321.0										
				11/2/16	6.3	38.22	Kane	**11,000**	*<100*	*<100*	*<100*	6.73	229.0										
				7/25/18	7	37.52	Kane	**5,460**	**55.6**	**9.5**	<0.20	7.24	320.0	0.13									
				12/17/18	6.28	38.24	Kane	**212**	**46**	**56.7**	<0.20	6.43	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	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	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	319.8	0.05	-112.4	19,000	<5.0	12	0.39	0.49	0.0082	<0.0005	12
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	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	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	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	713.0	0.05	-321.9	5,300	8	8.1	0.27	2.5	<0.0005	<0.0005	1.7
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	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	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	711.0	0.09	-281	280	11	5.7	0.11	0.44	<0.0005	<0.0005	4.7
MW-44	Intermediate	25 to 35		6/6/19	7.49		Kane	<0.20	**1.70**	**28.0**	<0.20	6.35	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	254.1	0.34	-77	2,200	<5.0	6.6	0.71	0.13	<0.0005	0.0039	20
MW-45	Shallow	7 to 17		6/6/19	7.29		Kane	<0.20	<0.20	**6.0**	<0.20	6.81	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	825.0	0.25	-67.4	2,000	<5.0	21	0.63	1.2	<0.0005	<0.0005	88
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	113.0										
				7/20/18	7.47	34.17	Kane	<1.00	<0.50	<1.00	<0.20	6.73	125.0	10.69									
				9/13/18	8.2	33.44	Kane	**10.8**	<0.50	<1.00	<0.20	6.59	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	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	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	189.6	4.08	-70.1	<56	6.6	4.4	<0.050	<0.001	<0.0005	<0.0005	1
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									
				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										

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)	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	5.22	34.96	Kane	<0.20	<0.20	<0.20	<0.20	6.36	308.0										
				7/24/18	6.95	33.23	Kane	<1.00	<0.50	<1.00	<0.20	6.75	356.0	3.35									
				9/13/18	7.59	32.59	Kane	<1.00	<0.50	<1.00	<0.20	6.52	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	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	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	309.0										
				7/20/18	7	35.38	Kane	**2,580**	**52.5**	**86.6**	**0.572**	6.87	300.0	0.70									
				9/21/18	7.36	35.02	Kane	**2,710**	**61.9**	**203**	*<2.0*	6.52	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	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	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	303.6	0.23	-57.4	160	18	7.8	0.53	0.018	<0.0005	<0.0005	1.8
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	373.0										
				7/20/18	6.96	35.44	Kane	**42.9**	**2.18**	**7.55**	<0.20	6.42	220.0	0.33									
				9/19/18	7.19	35.21	Kane	**36.4**	**1.98**	**7.14**	<0.20	6.23	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	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	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**	**0.3**	5.84	454.8	0.22	-86.5	<56	11	69	<0.050	0.92	<0.0005	<0.0005	1
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	314.0										
				9/19/18	6.61	35.14	Kane	**29.2**	**1.2**	**1.11**	<0.20	6.30	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	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	227.5	0.38	-69.1	<56	13	3.6	<0.050	0.02	<0.0005	<0.0005	1
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										
				10/28/16	5.33	36.46	Kane	**3,300**	**210**	**200**	*<20*	6.20	266.0										
				9/19/18	6.74	35.05	Kane	**4,910**	**152**	**117**	<0.20	6.05	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	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	324.0	0.24	-56.6	<56	21	13	<0.050	5	<0.0005	<0.0005	1.60
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									

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Groundwater Analytical Results

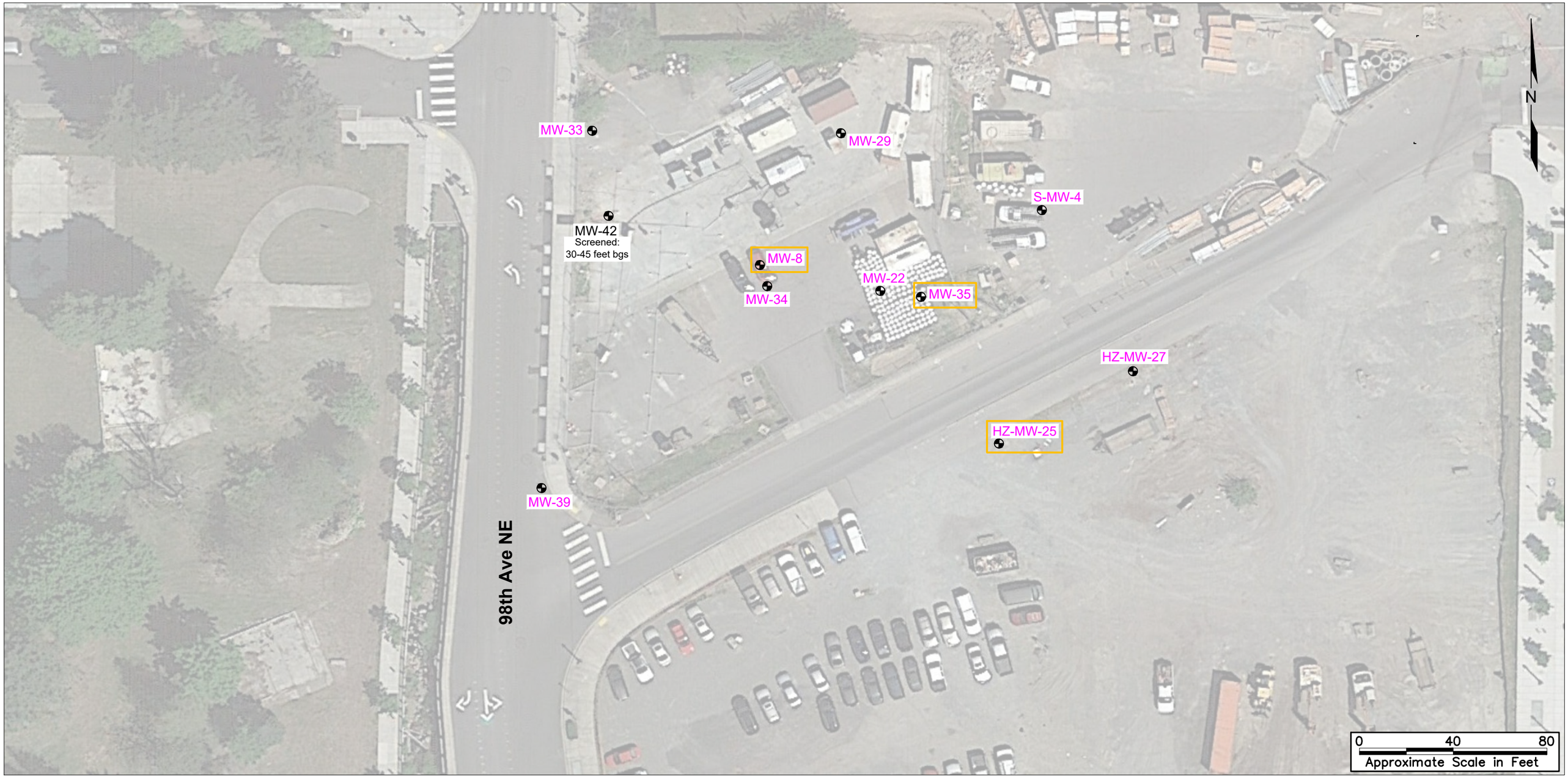
Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation 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)
				9/12/14			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	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	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	238.0										
				7/24/18	7.45	31.12	Kane	<1.00	<0.50	<1.00	<0.20	7.17	250.0	0.41									
				9/12/18	7.90	30.67	Kane	<1.00	<0.50	<1.00	<0.20	6.97	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	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	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	174.0										
				7/24/18	7.17	35.01	Kane	<1.00	<0.50	<1.00	<0.20	6.56	335.0	0.00									
				9/7/18	7.72	34.46	Kane	<1.00	**0.574**	<1.00	<0.20	6.34	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	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	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	528.0										
				7/23/18	6.90	32.62	Kane	<1.00	<0.50	<1.00	<0.20	6.77	576.0	0.19									
				9/13/18	7.37	32.15	Kane	<1.00	<0.50	<1.00	<0.20	6.65	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	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	500.7	0.11	-0.1	550	21	8.1	0.29	0.14	0.0009	<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	318.0										
				7/23/18	6.45	34.38	Kane	**1.52**	**0.849**	<1.00	<0.20	6.47	316.0	0.68									
				9/7/18	7.10	33.73	Kane	**1.44**	**1.33**	**1.07**	<0.20	6.25	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	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	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	345.0										
				9/7/18	8.26	33.42	Kane	<1.00	<0.500	<1.00	<0.20	6.84	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	416.2	0.06	7.5	1,200	16.6	11.3	<0.100	0.273	<0.0162	<0.0151	3.14
				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	281.2	0.22	-79.8	4,900	11	6.8	<0.050	0.21	<0.0005	<0.0005	3.4
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	316.0										

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)	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)
				9/18/18	6.92	34.08	Kane	**4.48**	**2.3**	**14.8**	**0.577**	6.31	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	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	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	557.4	0.07	-167.7	15,000	7.8	13	0.39	6.3	<0.0005	<0.0005	3.8
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	248.0	0.45									
				9/11/18	8.41	33.50	Kane	<1.00	<0.50	<1.00	<0.20	6.38	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	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	265.0										
				7/23/18	7.36	33.33	Kane	**11.9**	<0.50	**2.01**	<0.20	6.98	284.0	0.31									
				9/17/18	6.83	33.86	Kane	**7.12**	<0.50	**1.3**	<0.20	6.55	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	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	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**	<0.20	**1**	**0.053**	6.42	327.9	0.21	-96.7	<56	23	9.3	0.063	0.01	<0.0005	<0.0005	<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	215.0	0.40									
				9/18/18	7.73	33.87	Kane	**1.75**	<0.50	<1.00	<0.20	6.24	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	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	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	343.0										
				7/24/18	6.65	32.09	Kane	<1.00	<0.50	<1.00	<0.20	7.08	333.0	0.42									
				9/13/18	7.00	31.74	Kane	<1.00	<0.50	<1.00	<0.20	6.86	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	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	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	271.0										
				7/23/18	6.75	33.56	Kane	**54.8**	**4.2**	**33.2**	**1.31**	6.66	241.0	0.07									
				9/11/18	7.11	33.20	Kane	**36.6**	**3.48**	**23.7**	<0.20	6.47	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	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	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	627.0	0.09	-93.7	9,300	<5.0	16	0.79	9.5	<0.0005	<0.0005	15
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	235.0										
				9/20/18	9.54		Kane	<1.00	<0.50	<1.00	<0.20	7.71	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	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	294.0										
				9/20/18	9.63		Kane	<1.00	<0.50	<1.00	<0.20	6.46	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	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	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	295.9	0.21	-64	19,000	<5.0	8.3	0.27	0.62	<0.0005	<0.0005	4.4
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										
				9/20/18	9.46		Kane	<1.00	<0.50	<1.00	<0.20	6.50	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	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	214.0	0.00									
				9/12/18	7.35		Kane	<1.00	<0.50	**1.11**	<0.20	6.84	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	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	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	265.0	0.32	152	<100	17.7	10.4	<0.100	0.0191	<0.0162	<0.0151	3.87

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)	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)
				12/7/18	5.77		Kane	**4.63**	**12.7**	**32.6**	<0.20	6.18	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	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	508.5	0.08	-158.7	11,000	5.2	13	<0.050	3.1	<0.0005	<0.0005	24
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	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	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	200.8	3.10	-74.5	<56	26	4.8	0.15	<0.001	<0.0005	<0.0005	<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	349.0										
				9/21/18	6.03	36.27	Kane	**10.3**	**4.74**	**3.66**	<0.20	6.80	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	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	338.0	0.14	-129.2	<56	21	7.4	<0.050	0.027	<0.0005	<0.0005	1.3
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	116.0										
				9/21/18	6.51	36.30	Kane	**3.8**	<0.50	<1.00	<0.20	5.95	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	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	108.6	0.14	-177.5	<56	12	3.9	<0.050	0.47	<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	183.0	0.46									
				9/21/18	6.37	36.00	Kane	<1.00	<0.50	<1.00	<0.20	6.58	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	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	259.0										
				9/24/18	6.07	35.29	Kane	**530**	<5.0	<10	*<2.0*	6.38	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	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	169.8	1.93	-76.1	<56	15	7.5	<0.050	<0.001	<0.0005	<0.0005	<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	182.8	4.90	8.7	<56	29	7.3	<0.050	0.0016	<0.0005	<0.0005	<1.0
KSB-46	Intermediate	25 to 30		6/28/17	9.60		Kane	<0.20	<0.20	<0.20	<0.20	6.57	133.7	2.07									
MTCA Method A Cleanup Level[1]								5.0	5.0		0.2												
MTCA Method B Cleanup Level[2]										16						11,200							



LEGEND

- Monitoring Well, Deep (35-55 ft)
- Well location to be included in groundwater compliance monitoring

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Figure 3
Proposed Groundwater Compliance Monitoring Wells - Deep

LEGEND

- Monitoring Well, Intermediate (25-35 ft)
- Well location to be included in groundwater compliance monitoring

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Figure 2
Proposed Groundwater Compliance Monitoring Wells - Intermediate

LEGEND

- Monitoring Well, Shallow (5-25 ft)
- Well location to be included in groundwater compliance monitoring

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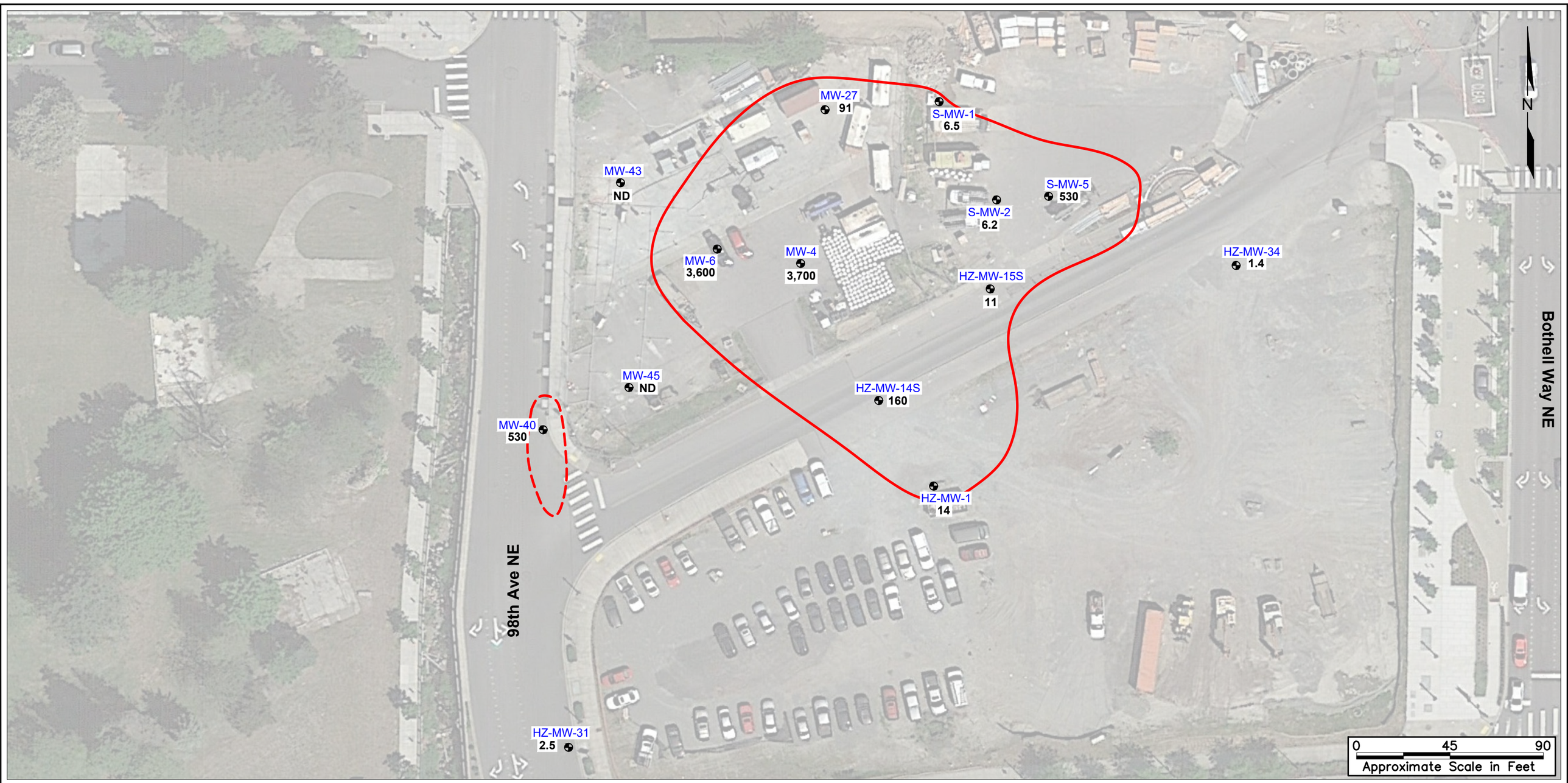
Figure 1
Proposed Groundwater Compliance Monitoring Wells - Shallow



LEGEND

Monitoring Well, Shallow (5-25 ft)

Concentration of PCE greater than 5.0 ppb - 2019, dashed where uncertain

Concentrations of PCE are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method A Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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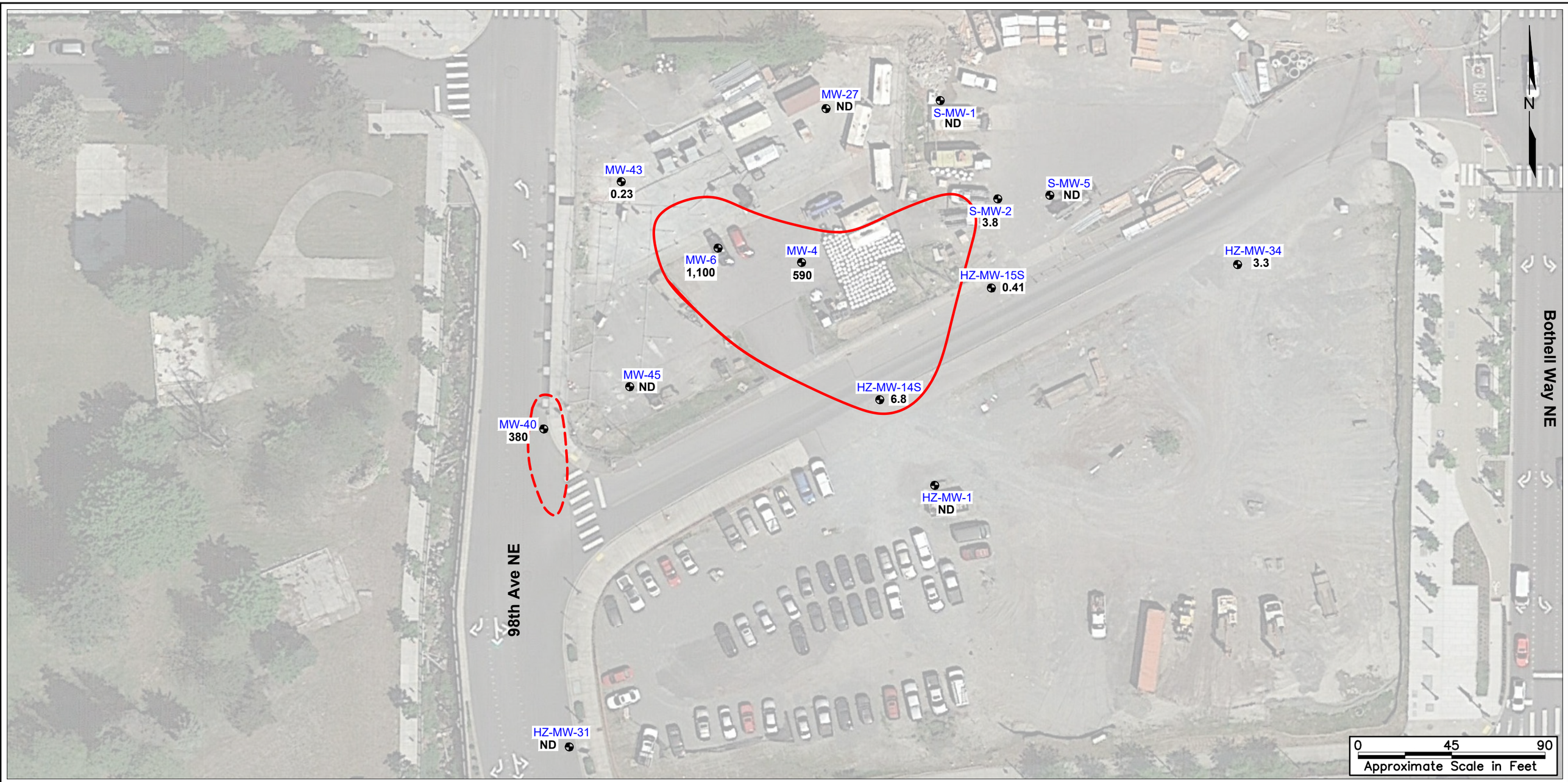
Figure 1
Groundwater PCE Concentrations - Shallow (5-25 feet bgs)



LEGEND

Monitoring Well, Shallow (5-25 ft)

Concentration of TCE greater than 5.0 ppb - 2019, dashed where uncertain

Concentrations of TCE are listed in ug/L, equivalent to parts per billion (ppb).
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Figure 2
Groundwater TCE Concentrations - Shallow (5-25 feet bgs)

LEGEND

Monitoring Well, Shallow (5-25 ft)

Concentration of (cis) 1,2-DCE greater than 16 ppb - 2019, dashed where uncertain

Concentrations of (cis) 1,2-DCE are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method B Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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Figure 3
Groundwater
(cis) 1,2-DCE
Concentrations -
Shallow (5-25 feet bgs)

LEGEND

Monitoring Well, Shallow (5-25 ft)

Concentration of vinyl chloride greater than 0.2 ppb - 2019, dashed where uncertain

Concentrations of vinyl chloride are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method A Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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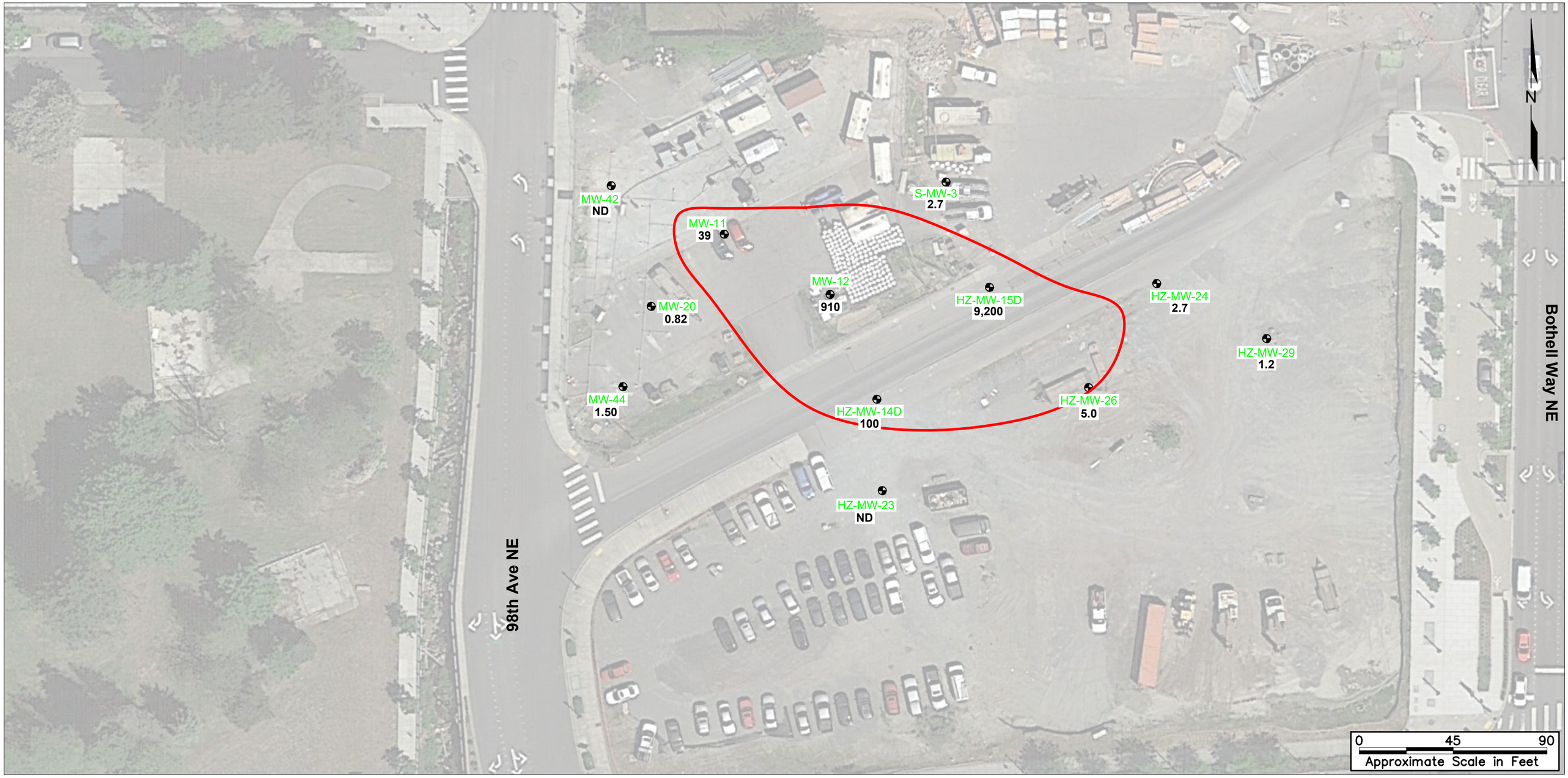
Figure 4
Groundwater
Vinyl Chloride
Concentrations -
Shallow (5-25 feet bgs)



LEGEND

Monitoring Well, Intermediate (25-35 ft)

Concentration of PCE greater than 5.0 ppb - 2019

Concentrations of PCE are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method A Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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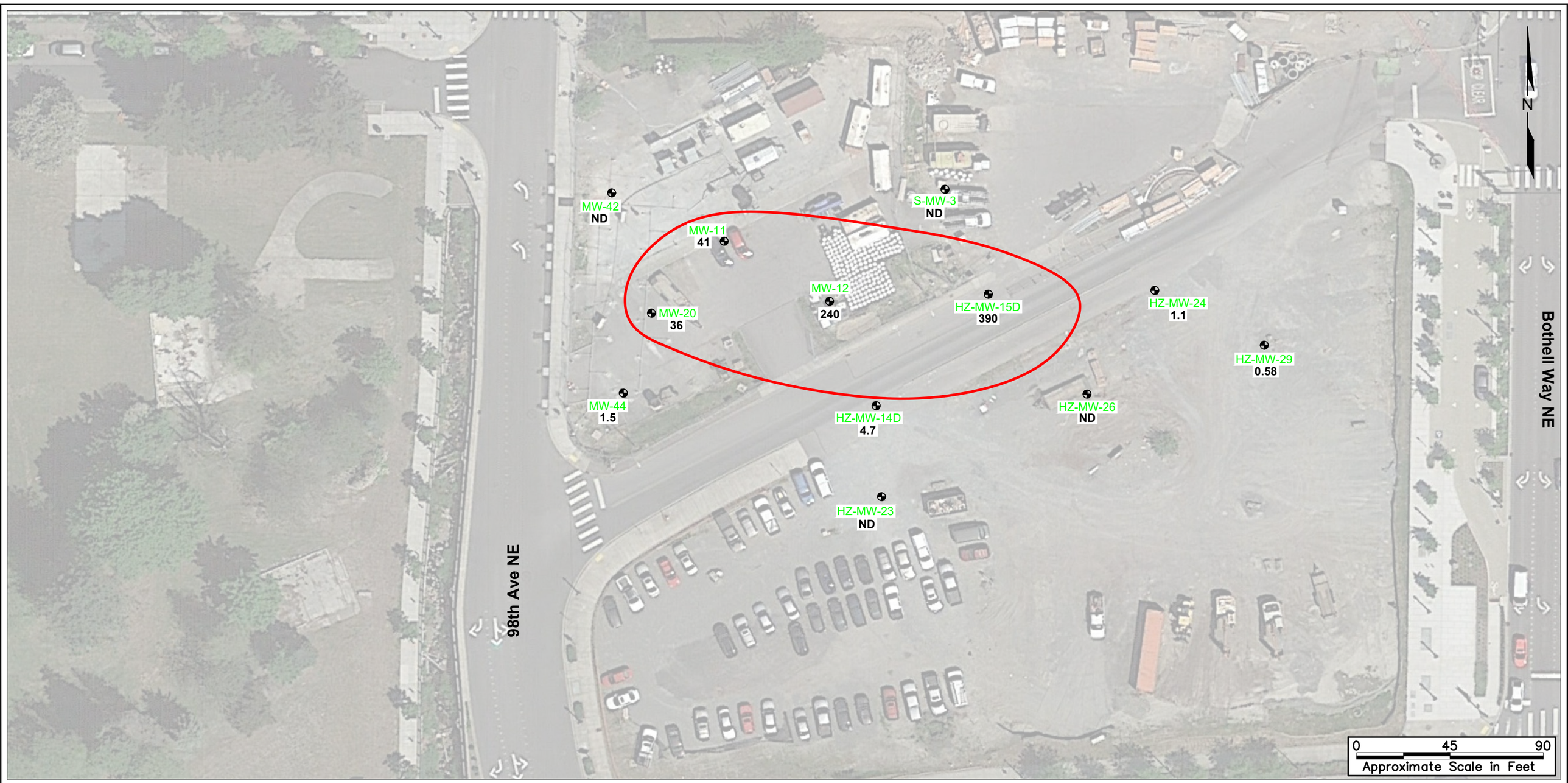
Figure 5
Groundwater PCE Concentrations - Intermediate (25-35 feet bgs)



LEGEND

Monitoring Well, Intermediate (25-35 ft)

Concentration of TCE greater than 5.0 ppb - 2019

Concentrations of TCE are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method A Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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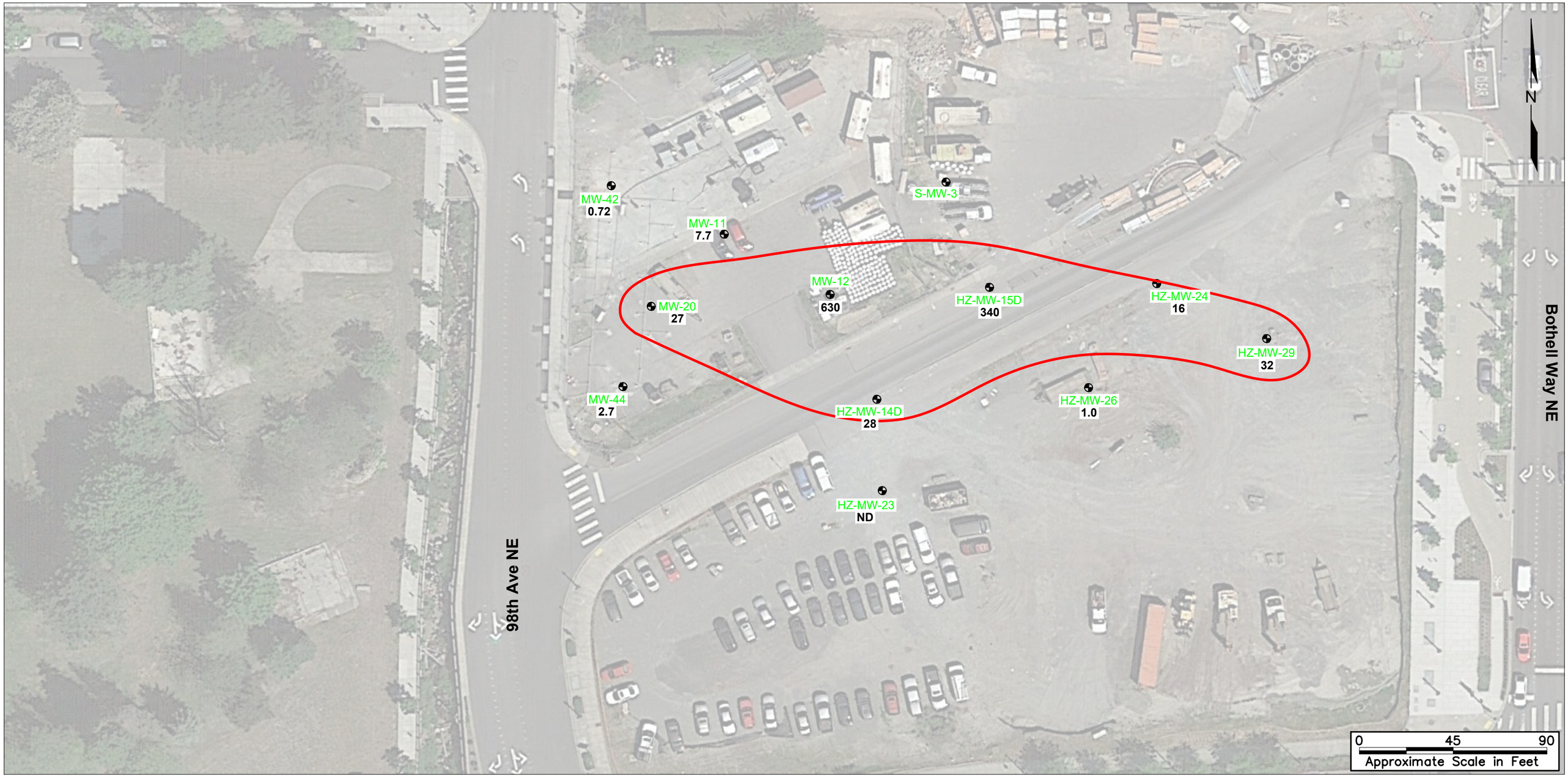
Figure 6
Groundwater TCE Concentrations - Intermediate (25-35 feet bgs)



LEGEND

Monitoring Well, Intermediate (25-35 ft)

Concentration of (cis) 1,2-DCE greater than 16 ppb - 2019

Concentrations of (cis) 1,2-DCE are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method B Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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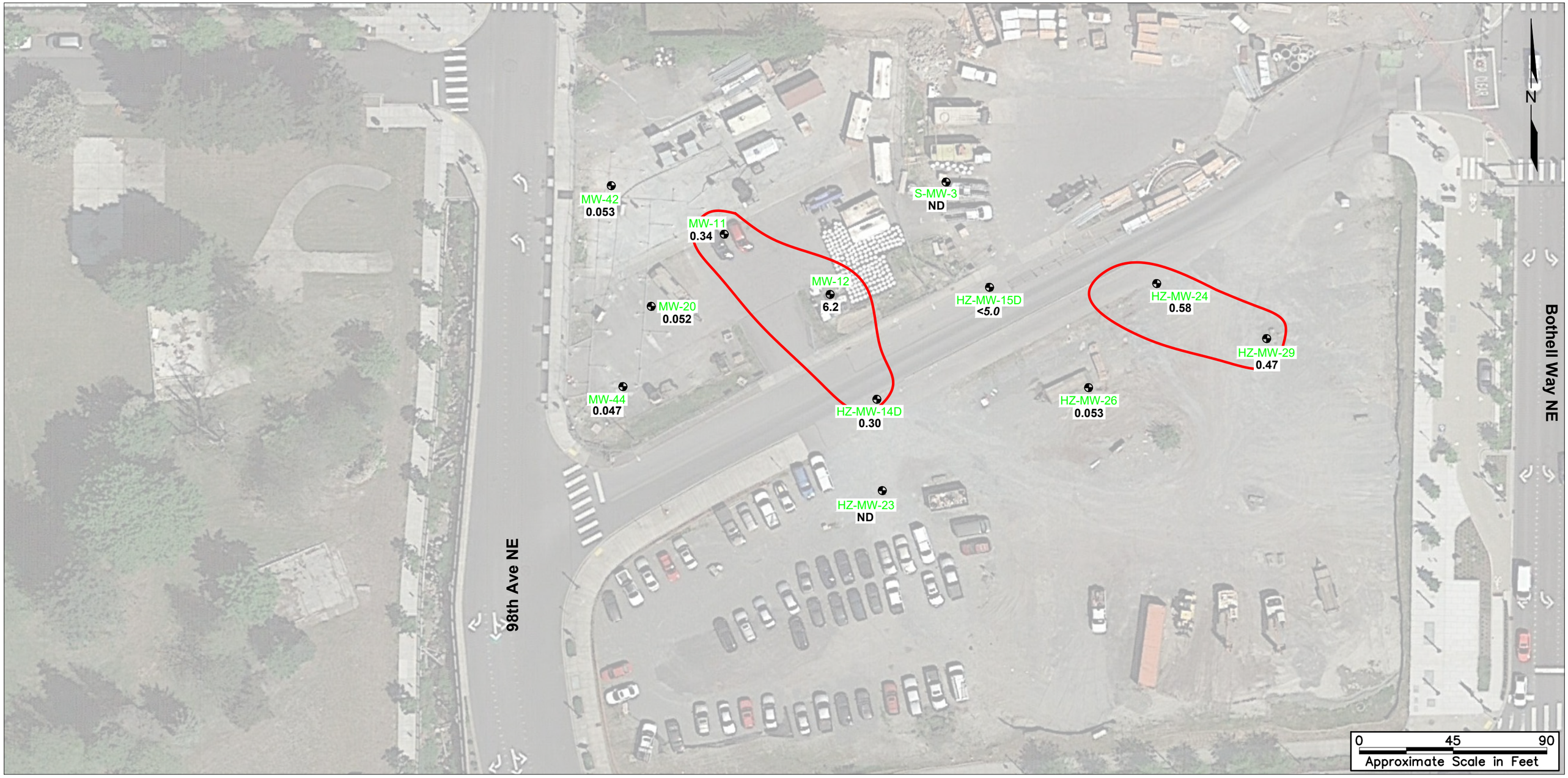
Figure 7
Groundwater (cis)1,2-DCE Concentrations - Intermediate (25-35 feet bgs)



LEGEND

Monitoring Well, Intermediate (25-35 ft)

Concentration of vinyl chloride greater than 0.2 ppb - 2019

Concentrations of vinyl chloride are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method A Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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Figure 8
Groundwater Vinyl Chloride Concentrations - Intermediate (25-35 feet bgs)

LEGEND

Monitoring Well, Deep (35-55 ft)

Concentration of PCE greater than 5.0 ppb - 2019

Concentrations of PCE are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method A Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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Figure 9
Groundwater PCE Concentrations - Deep
(35-55 feet bgs)

LEGEND

Monitoring Well, Deep (35-55 ft)

Concentration of TCE greater than 5.0 ppb - 2019

Concentrations of TCE are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method A Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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Figure 10
Groundwater TCE Concentrations - Deep
(35-55 feet bgs)

LEGEND

Monitoring Well, Deep (35-55 ft)

Concentration of (cis) 1,2-DCE greater than 16 ppb - 2019

Concentrations of (cis) 1,2-DCE are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method B Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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Figure 11
Groundwater
(cis) 1,2-DCE
Concentrations - Deep
(35-55 feet bgs)

LEGEND

Monitoring Well, Deep (35-55 ft)

Concentration of vinyl chloride greater than 0.2 ppb - 2019

Concentrations of vinyl chloride are listed in ug/L, equivalent to parts per billion (ppb).
ND = Not detected above the laboratory reporting limit (*italicized* when above the MTCA Method A Cleanup Level)

2019 groundwater results represent the most recent sampling event for each well.
Samples were collected in July 2019 and August 2019.

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Figure 12
Groundwater
Vinyl Chloride
Concentrations - Deep
(35-55 feet bgs)