City of Bothell

July7, 2020

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

Re: Quarterly Progress Report for period ending June 2020

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

Reporting Period: April – June 2020

Summary:

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

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

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

The attached progress report provides an update on work accomplished for the period ending June 30, 2020. Please contact me if you have any questions.

Sincerely,

Nduta Mbuthia

Nduta Mbuthia
Project Coordinator, City of Bothell

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

City of Bothell™

Reporting Period:	Apr – Jun 2020
Date submitted (electronically):	July 7, 2020
Date mailed (certified w/return receipt):	*(deferred due to COVID-19 Stay at Home Order)*
Prepared by:	Nduta Mbuthia, Project Coordinator City of Bothell, Public Works Department Phone: 425.806.6829 Email: nduta.mbuthia@bothellwa.gov

CONTENTS

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

- Continued operation of the bio-remediation system
- Groundwater sampling was completed in April 2020; analytical data sent to Ecology
- Sent a courtesy email to Ecology site manager indicating that the City has received a letter of interest from a prospective buyer/developer for Lot D (where BSC, Hertz & Wexler sites are located), and per the terms of the Consent Decree (and Agreed Order) a formal notification letter will be sent to Ecology upon successful negotiation of a Purchase and Sale agreement for the property (at a later date)

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

Received Ecology's concurrence to temporarily shut down the bio-remediation system in order to proceed with the new water line alignment through the northern portion of the BSC site. The system was shut-down on May 15, 2020 and restarted again on June 11, 2020. This deviation was related to the incident involving damage to a live water main in the vicinity of the Wexler excavation work (refer to previous QPRs)

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

N/A

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

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

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

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

GW monitoring quarter sampling results attached

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

Attachments

- Updated Exhibit D from the CD (8-13-19)
- Finalized and recorded the Environmental Covenant for Lot D related to BSCSS site and Hertz site (Deliverables D.1 & D.2)
- Groundwater sampling table and data

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.*

Instrument Number: 20200513000357 Document:COV Rec: $111.50 Page-1 of 9
Record Date:5/13/2020 10:05 AM
Electronically Recorded King County, WA

After Recording Return
Original Signed Covenant to:
Jerome Cruz, Ph.D.
Toxics Cleanup Program
Department of Ecology
Northwest Regional Office
3190 - 160th Ave. SE
Bellevue, WA 98008

Environmental Covenant

Grantor: City of Bothell

Grantee: State of Washington, Department of Ecology (hereafter "Ecology")

Brief Legal Description: King County Tax Parcel 9457200050 [Parcel #7 of City of Bothell Boundary Line Adjustment No. 2015-07556 recorded under King County Recording No. 20150819900001] and tax parcel 2374200065;

Tax Parcel Nos.: 9457200050, 2374200065

Cross Reference: Bothell Former Hertz Site Agreed Order No. DE 15747 (May 31, 2018); Bothell Service Center Simon and Sons Site First Amended Consent Decree, No. 18-2-02852-3 SEA.

#98111 (9)

RECITALS

a. This document is an environmental (restrictive) covenant (hereafter "Covenant") executed pursuant to the Model Toxics Control Act ("MTCA"), chapter 70.105D RCW, and Uniform Environmental Covenants Act ("UECA"), chapter 64.70 RCW.

b. The Property that is the subject of this Covenant is part of the Bothell Hertz Site (Facility Site ID No. 11687976), the Bothell Service Center Simon and Sons Site (BSCSS) (Facility Site ID No. 33215922), and the Al's Auto Bothell Wexler Property Site (Wexler) (Facility Site ID No. 63618231). The Wexler contamination is being addressed along with the BSCSS contamination under the Bothell Service Center Amended Consent Decree. The Hertz contamination is being addressed under Agreed Order No. DE 15747.

c. The Property consists of King County Tax parcels 9457200050 and 2374200065 and is depicted on Exhibit A (hereafter "Property"). If there are differences between the legal descriptions and illustrations in the Exhibit, the legal description shall prevail.

d. The Bothell Former Hertz Site also includes portions of Bothell Way NE, and King County Tax parcel No. 9457200015, which are addressed separately. The Bothell Service Center Site also extends to parcel number 2374200091, the Right-of-Way west of parcel 2374200091, and portions of 98th Avenue NE, which are addressed separately.

e. The Property is the subject of remedial action conducted under MTCA. This Covenant is required because residual contamination remains on portions of the Property. Specifically, the following principal contaminants remain on the Property:

Medium	Principal Contaminants Present
Groundwater	Petroleum hydrocarbons, Arsenic, Tetrachloroethene (PCE), Trichloroethene (TCE), Cis-1,2 Dichloroethene (DCE), Vinyl Chloride (VC), benzene
Soil	Tetrachloroethene (PCE), Trichloroethene (TCE), Cis-1,2 Dichloroethene (DCE), and Vinyl Chloride (VC), gasoline, ethylbenzene, xylenes, napthalene

f. It is the purpose of this Covenant to restrict certain activities and uses of the Property to protect human health and the environment and the integrity of remedial actions conducted at the site. Records describing the extent of residual contamination and remedial actions conducted are available through Ecology, including Cleanup Action Plans for the above-described sites.

g. This Covenant grants Ecology certain rights under UECA and as specified in this Covenant. As a Holder of this Covenant under UECA, Ecology has an interest in real property, however, this is not an ownership interest which equates to liability under MTCA or the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. § 9601 *et seq.* The rights of Ecology as an "agency" under UECA, other than its rights as a holder, are not an interest in real property.

COVENANT

The City of Bothell, as Grantor and fee simple owner of the Property and easement holder, hereby grants to the Washington State Department of Ecology, and its successors and assignees, the following covenants. Furthermore, it is the intent of the Grantor that such covenants shall supersede any prior interests the Grantor has in the property and run with the land and be binding on all current and future owners of any portion of, or interest in, the Property.

Section 1. General Restrictions and Requirements.

The following general restrictions and requirements shall apply to the Property:

a. Interference with Remedial Action. The Grantor shall not engage in any activity on the Property that may impact or interfere with the remedial action and any operation, maintenance, inspection or monitoring of that remedial action without prior written approval from Ecology.

b. Protection of Human Health and the Environment. The Grantor shall not engage in any activity on the Property that may threaten continued protection of human health or the environment without prior written approval from Ecology. This includes, but is not limited to, any activity that results in the release of residual contamination that was contained as a part of the remedial action or that exacerbates or creates a new exposure to residual contamination remaining on the Property.

c. Continued Compliance Required. Grantor shall not convey any interest in any portion of the Property without providing for the continued adequate and complete operation, maintenance and monitoring of remedial actions and continued compliance with this Covenant.

d. Leases. Grantor shall restrict any lease for any portion of the Property to uses and activities consistent with this Covenant and notify all lessees of the restrictions on the use of the Property. Any lease shall provide reasonable access for the purposes stated in Section 3 (Access).

e. Preservation of Reference Monuments. Grantor shall make a good faith effort to preserve any reference monuments and boundary markers used to define the areal extent of coverage of this Covenant. Should a monument or marker be damaged or destroyed, Grantor shall have it replaced by a licensed professional surveyor within 30 days of discovery of the damage or destruction.

Section 2. Specific Prohibitions and Requirements.

In addition to the general restrictions in Section 1 of this Covenant, the following additional specific restrictions and requirements shall apply to the Property.

a. Containment of soil. The remedial action for the Hertz Site is not based on containing contaminated soil under a cap, but the northern portion of the Property is impacted by BSCSS and Wexler contamination. Any activity the Property that may disturb contaminated soil is prohibited without prior written approval by Ecology. Examples of such activity include: drilling; digging; excavation; or installation of underground utilities.

b. Groundwater use. The groundwater beneath the Property remains contaminated and shall not be extracted for any purpose other than temporary construction dewatering, investigation, monitoring or remediation. This covenant allows investigation, monitoring or remediation necessary to implement remedial action or monitoring for the above-listed sites. Drilling of a well for any water supply purpose is strictly prohibited on the Property. Groundwater extracted from the Property for any purpose shall be considered potentially contaminated and any discharge of this water shall be done in accordance with state and federal law.

c. Equipment & Ongoing Remediation. Several groundwater monitoring wells are located on the Property to monitor the performance of the remedial actions. The Grantor shall maintain clear access to these devices and protect them from damage. The Grantor shall report to Ecology within forty-eight (48) hours of the discovery of any damage to any monitoring device. Unless Ecology approves of an alternative plan in writing, the Grantor shall promptly repair the damage and submit a report documenting this work to Ecology within thirty (30) days of completing the repairs.

A bioremediation/ recirculation system (consisting of injection wells, extraction and monitoring wells, piping, pumps, tanks, and other treatment system components) is located on the Property. The system's purpose is to extract and treat contaminated groundwater, add bioremediation agent, and reinject it to remediate the solvent plume. The Grantor shall maintain clear access to system components and protect them from damage. The Grantor shall report to Ecology within forty-eight (48) hours of the discovery of any damage to the system.

The Grantor may not decommission, modify, or relocate wells or other components of the remediation system without Ecology's approval. Substantial changes from the Cleanup Action Plan(s) must receive public notice and comment.

d. Vapor Controls. The Property is impacted by volatile compounds which may generate harmful vapors. Unless and until data from the remedial actions show achievement of cleanup

levels sufficient to protect indoor air from vapor intrusion, a developer must mitigate for potential vapor intrusion. As such, the following restrictions shall apply to the Property to minimize the potential for exposure to these vapors:

1. No building or other enclosed structure shall be constructed unless vapor mitigation measures have been approved by Ecology.

2. Buildings or other enclosed structures shall be constructed with vapor barriers and venting systems that are operated and maintained to prevent the migration of vapors into the building or structure, unless an alternative approach is approved by Ecology.

3. Indoor air may be sampled in accordance with the Cleanup Action Plans for BSCSS and/or Wexler, as applicable. Grantor will provide access to parties under order, or their authorized representatives, to perform sampling as provided below.

Section 3. Access.

a. The Grantor shall maintain clear access to all remedial action components necessary to construct, operate, inspect, monitor and maintain the remedial action.

b. The Grantor freely and voluntarily grants Ecology and its authorized representatives, and parties under a cleanup order and their authorized representatives, upon reasonable notice, the right to enter the Property at reasonable times to evaluate the effectiveness of this Covenant and associated remedial actions, and enforce compliance with this Covenant and those actions, including the right to take samples, inspect any remedial actions conducted on the Property, and to inspect related records.

Section 4. Notice Requirements.

a. Conveyance of Any Interest. The Grantor, when conveying any interest in any part of the Property, including but not limited to title, easement, leases, and security or other interests, must:

i. Provide written notice to Ecology of the intended conveyance at least thirty (30) days in advance of the conveyance.

ii. Include in the conveying document a notice in substantially the following form, as well as a complete copy of this Covenant:

NOTICE: THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL COVENANT GRANTED TO THE WASHINGTON STATE DEPARTMENT OF ECOLOGY ON _____, 2020 AND RECORDED WITH THE KING COUNTY AUDITOR UNDER RECORDING NUMBER _____. USES AND ACTIVITIES ON THIS PROPERTY MUST COMPLY WITH THAT COVENANT, A COMPLETE COPY OF WHICH IS ATTACHED TO THIS DOCUMENT.

iii. Unless otherwise agreed to in writing by Ecology, provide Ecology with a complete copy of the executed document within thirty (30) days of the date of execution of such document.

b. Reporting Violations. Should the Grantor become aware of any violation of this Covenant, Grantor shall promptly report such violation in writing to Ecology.

c. Emergencies. For any emergency or significant change in site conditions due to Acts of Nature (for example, flood or fire) resulting in a violation of this Covenant, the Grantor is authorized to respond to such an event in accordance with state and federal law. The Grantor must notify Ecology in writing of the event and response actions planned or taken as soon as practical but no later than within 24 hours of the discovery of the event.

d. Notification procedure. Any required written notice, approval, reporting or other communication shall be personally delivered or sent by first class mail to the following persons. Any change in this contact information shall be submitted in writing to all parties to this Covenant. Upon mutual agreement of the parties to this Covenant, an alternative to personal delivery or first class mail, such as e-mail or other electronic means, may be used for these communications.

Jennifer Phillips City Manager City of Bothell 18415 101stAvenue NE Bothell, WA 98011 (425) 806-6100 jennifer.phillips@bothellwa.gov	Environmental Covenants Coordinator Washington State Department of Ecology Toxics Cleanup Program P.O. Box 47600 Olympia, WA 98504 – 7600 (360) 407-6000 ToxicsCleanupProgramHQ@ecy.wa.gov

Section 5. Modification or Termination.

a. Grantor must provide written notice and obtain approval from Ecology at least sixty (60) days in advance of any proposed activity or use of the Property in a manner that is inconsistent with this Covenant. For any proposal that is inconsistent with this Covenant and permanently modifies an activity or use restriction at the site:

i. Ecology must issue a public notice and provide an opportunity for the public to comment on the proposal; and

ii. If Ecology approves of the proposal, the Covenant must be amended to reflect the change before the activity or use can proceed.

b. If the conditions at the site requiring a Covenant have changed or no longer exist, then the Grantor may submit a request to Ecology that this Covenant be amended or terminated. Any amendment or termination of this Covenant must follow the procedures in MTCA and UECA and any rules promulgated under these chapters.

Section 6. Enforcement and Construction.

a. This Covenant is being freely and voluntarily granted by the Grantor.

b. Within ten (10) days of execution of this Covenant, Grantor shall provide Ecology with an original signed Covenant and proof of recording and a copy of the Covenant and proof of recording to others required by RCW 64.70.070.

c. Ecology shall be entitled to enforce the terms of this Covenant by resort to specific performance or legal process. All remedies available in this Covenant shall be in addition to any and all remedies at law or in equity, including MTCA and UECA. Enforcement of the terms of this Covenant shall be at the discretion of Ecology, and any forbearance, delay or omission to exercise its rights under this Covenant in the event of a breach of any term of this Covenant is not a waiver by Ecology of that term or of any subsequent breach of that term, or any other term in this Covenant, or of any rights of Ecology under this Covenant.

d. The Grantor shall be responsible for all costs associated with implementation of this Covenant. Furthermore, the Grantor, upon request by Ecology, shall be obligated to pay for Ecology's costs to process a request for any modification or termination of this Covenant and any approval required by this Covenant.

e. This Covenant shall be liberally construed to meet the intent of MTCA and UECA.

f. The provisions of this Covenant shall be severable. If any provision in this Covenant or its application to any person or circumstance is held invalid, the remainder of this Covenant or its application to any person or circumstance is not affected and shall continue in full force and effect as though such void provision had not been contained herein.

g. A heading used at the beginning of any section or paragraph or exhibit of this Covenant may be used to aid in the interpretation of that section or paragraph or exhibit but does not override the specific requirements in that section or paragraph.

The undersigned Grantor warrants that the City of Bothell holds the title to the Property and the authority to execute this Covenant.

EXECUTED this 16 day of April, 2020.

By: Jennifer Phillips

Title: City Manager

STATE OF WASHINGTON

COUNTY OF KING

This record was acknowledged before me on April 16, 2020 by Jennifer Phillips as the City Manager of the City of Bothell.

CATHERINE E JANSEN NOTARY PUBLIC COMMISSION EXPIRES 2-08-21 STATE OF WASHINGTON

(Stamp)

Catherine E. Jansen
(Signature of notary public)

Notary Public
(Title of office)

My Commission Expires: 2-8-21
(Date)

The Department of Ecology, hereby accepts the status as GRANTEE and HOLDER of the above Environmental Covenant.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

By: ROBERT W. WARREN

Title: SECTION MANAGER

Dated: 5/1/2020

STATE OF Washington

COUNTY OF King

This record was acknowledged before me on May 1st, 2020 by Robert W. Warren as the TCP Section Manager of the Dept. of Ecology

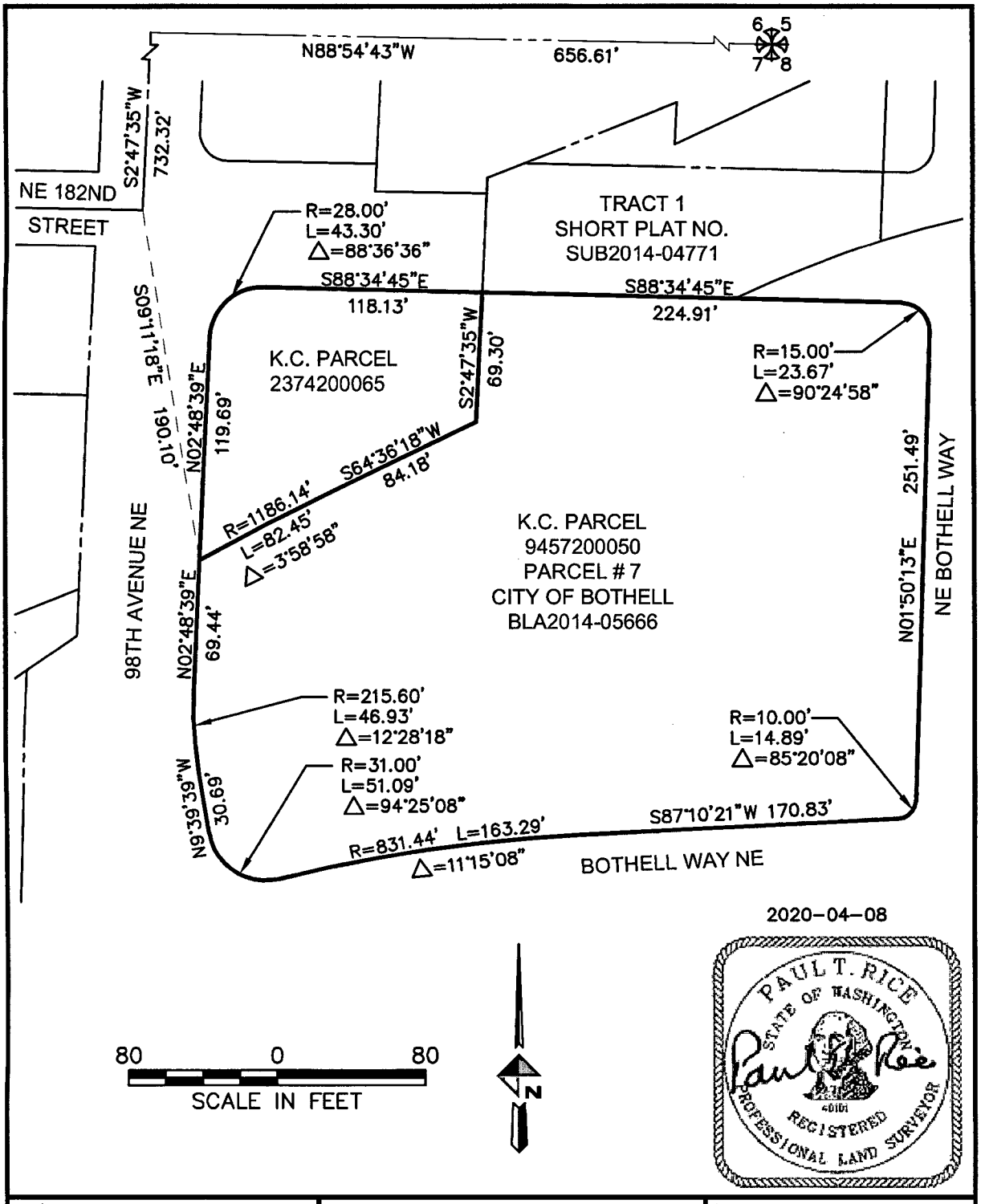
TRACY A. NISHIKAWA NOTARY PUBLIC COMMISSION EXPIRES 7-1-20 STATE OF WASHINGTON

(Stamp)

Tracy A. Nishikawa
(Signature of notary public)

Notary Public
(Title of office)

My Commission Expires: 7/1/2020
(Date)



DOWL WWW.DOWL.COM 8420 154th Avenue NE Redmond, Washington 98052 425-869-2670	ENVIRONMENTAL COVENANT AREA BOTHELL, WA	PROJECT 13836-08 DATE 04/08/2020 SCALE 1"=80' EXHIBIT A

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
MW-1	Shallow *Decomissioned*	5 to 20	46.952	3/16/01			ERM	**113**	**38.3**	**28.1**	*<1.0*													
				7/13/01			ERM	**23.7**	**10.3**	**4.82**	*<1.0*													
				10/26/01			ERM	**8.71**	**2.84**	**1.29**	*<1.0*													
				12/2/02			ERM	**239**	**380**	**1,200**	*<1.0*													
				10/1/02			Farallon	**6.8**	**6.4**	**17**		6.5		196.0	1.14	13.8								
				4/27/05			Farallon	**2,600**	**80**	**53**		6.7		201.0	3.02	97.6								
				8/15/05			Farallon	**12,000**	*<50*	*<50*														
				8/14/06			Farallon	**18,000**	*<200*	*<200*		5.9		284.0	0.9	499								
				5/14/07			Farallon	**12,000**	*<50*	**63**		6.1		249.0	2.27	448								
				11/27/07			Farallon	**11,000**	*<100*	*<100*		6.6		233.0	4.87	135								
				8/26/08			Farallon	**23,000**	*<200*	*<200*		6.3		189.0	1.87	175		22			13.1	<1.2	<1.1	3.25
				1/9/09			Farallon	**450**	**10**	**6.6**		6.3		88.0	10.5	120		8.8			<0.5	<0.5	<0.5	2.95
				6/11/09			Farallon	**17,000**	*<100*	*<100*		6.1		242.0	2.32	80.1		18			8.6	<0.5	<0.5	2.2
				9/14/09			Farallon	**31,000**	*<200*	*<200*		6.3		328.0	0.74	158		21			28	<2.5	<2.5	3.7
				5/27/10			Farallon	**23,000**	*<100*	*<100*	*<100*	6.4		200.0	2.26	58.4								
				9/9/10			Farallon	**24,000**	*<200*	*<200*	*<200*	6.8		249.0	0.38	0.3		20			14	<1.0	<1.0	2.6
				6/10/11			Farallon	**1,900**	**42**	**52**	*<10*	6		141.0	5.6	39.3		13			1.1	<0.5	<0.5	4.3
				3/21/13			DOF	**8,000**	**56**	**81**	<0.2	6.7		203.0	5.5	68.4					4.5	<1.2	<1.1	11.8
				4/4/14			DOF	**270**	**16**	**49**	<0.02	7.1		117.0	5.5	-14					<0.7	<1.2	<1.1	8.28
				10/10/14			DOF	**28,000**	**160**	**140**	*<2.0 U*	6.3		348.0	0.3	18.6					36.8	<1.2 U	<1.1 U	3.15
				11/11/15	10.07	36.92	HWA	**14,000**	**92**	**87**	*<50*	6.06		341.0	3.89	80.4		19			0.76	<0.50	<0.50	2.9
				9/21/16	9.14	37.81	Kane	**6,700**	**170**	**610**	**160**	6.29		325.0										
				10/25/16	7.72	39.23	Kane	**160**	**6.6**	**16**	*<2.0*	6.33	18.4	202.0										
MW-2	Shallow *Decomissioned*	5 to 20	48.897	3/16/01			ERM	**13,800**	**834**	**106 ES**	*<1.0*													
				7/13/01			ERM	**419**	**16.4**	<1.0	*<1.0*													
				10/26/01			ERM	**532**	*<20.0*	*<20.0*	*<20.0*													
				2/12/02			ERM	**81.5**	**8.08**	<1.0	*<1.0*													
				10/1/02			Farallon	**18**	**0.65**	<0.2		6.4		319.0	0.89	-30								
				4/27/05			Farallon	**2,600**	**44**	<10		5.8		319.0	0.42	149.2								
				8/15/05			Farallon	**29,000**	*<200*	*<200*														
				8/14/06			Farallon	**32,000**	**300**	**240**		5.8		317.0	0.97	478.5								
				5/14/07			Farallon	**6,100**	**40**	**38**		6		264.0	0.7	479.8								
				11/27/07			Farallon	**38,000**	*<200*	*<200*		6.5		300.0	1.18	117.8								
				8/26/08			Farallon	**500**	**200**	**2,300**		6.4		286.0	2.26	-69.2		5.3			1330	<1.2	<1.1	25.9
				1/8/09			Farallon	**270**	**550**	**290**		6.5		296.0	0.56	24.7		7.3			500	<50	<50	6.36
				6/11/09			Farallon	**1,100**	**1,400**	**1,700**		6.3		294.0	0.73	60.9		8.5			4400	<500	<500	6.4
				9/14/09			Farallon	**1,700**	**2,200**	**7,800**		6.3		323.0	0.68	147.5		12			3800	<500	<500	13
				5/27/10			Farallon	**240**	*<60*	**12,000**	**70**	6.1		512.0	0.31	-15.9								
				9/9/10			Farallon	*<200*	*<200*	**6,400**	*<200*	6.5		420.0	0.21	-49.3		<5			9700	<500	<500	39
				6/10/11			Farallon	**150**	**1,100**	**11,000**	**3,200**	6.2		809.0	0.34	-101.4		<10			5200	<380	680	71
				3/20/13			DOF	**540**	**690**	**14,000**	830 ES	7.4		561.0	0.31	-111					15900	<1.2	1240	27
				4/7/14			DOF	**390**	**630**	**5,300**	**850**	7.2		320.0	0.3	-352					14500	<1.2	388	8.26
				10/10/14			DOF	**320**	**93**	**8,900**	**1,900**	6.2		382.0	0.2	-117					9760	<1.2 U	349	7.49
				11/11/15	10.17	38.74	HWA	**2,400**	**4,100**	**15,000**	**1,200**	5.78		463.0	0.00	-85.9		39			5900	<380	580	11
				9/23/16	9.89	39.01	Kane	**8**	**6.6**	**8.1**	**6.6**	6.59		241.0										
				11/1/16	8.31	40.59	Kane	**8.3**	**6.1**	**10**	**11**	6.31	15.3	244.0										
MW-3	Shallow	5 to 20	47.957	3/16/01			ERM	<1.0	<1.0	<1.0	*<1.0*													
				10/26/01			ERM	<1.0	<1.0	<1.0	*<1.0*													
				2/12/02			ERM	<1.0	<1.0	<1.0	*<1.0*													
				10/1/02			Farallon	**0.37**	<0.2	<0.2		5.9		284.0	1.12	30.8								
				4/27/05			Farallon	<0.2	<0.2	<0.2		5.5		275.0	0.96	132								
				8/14/06			Farallon	<0.2	<0.2	<0.2		5.8		307.0	1.95	456								
				5/14/07			Farallon	<1.0	<0.2	<0.2		5.7		264.0	1.75	408								
				11/27/07			Farallon	<1.0	<0.2	<0.2		6.2		330.0	0.76	78								2.47
				8/25/08			Farallon	<0.2	<0.2	<0.2		5.9		172.0	2.88	374		18			<1	<1.2	<1.1	2.58
				4/7/14			DOF	<0.2	<0.2	<0.2	<0.02	6.4		192.0	0.7	-71					2960	<1.2	<1.1	4.17
				10/10/14			DOF	**0.39**	<0.2 U	<0.2 U	<0.02 U	5.7		339.0	0.3	-0.9					1570	<1.2 U	<1.1 U	9.82
				9/23/16	8.26	39.70	Kane	**0.22**	<0.20	<0.20	<0.20	6.10		243.0										
				11/1/16	6.87	41.09	Kane	<0.20	<0.20	<0.20	<0.20	6.00	16.1	305.0										
				7/17/18	7.95	40.01	Kane	<1.00	<0.50	<1.00	<0.20	6.30	17.2	144.0	11.37									
				9/11/18	8.69	39.27	Kane	<1.00	<0.50	<1.00	<0.20	6.20	18.9	118.0	6.23	116.9	<100	19	2.94	<0.100	<0.00863	<0.0162	<0.0151	2.37

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				12/5/18	7.93	40.03	Kane	<1.00	<0.50	<1.00	<0.20	5.90	15.3	62.5	38.7	6.94	<100	3.18	2.79	<0.100	<0.00863	<0.0162	<0.0151	2.7
				2/12/19	7.79	40.167	Kane	<1.0	<0.50	<1.0	<0.20	6.03	12	57.5	8.2	141.5	<100	4.16	3	<0.10	<0.00863	<0.0162	<0.0151	2.36
				6/4/19	7.96	39.997	Kane	**0.72**	<0.20	<0.20	<0.20	6.35	15.5	62.1	9.97	3.6	<56	<5.0	3.4	<0.05	<0.001	<0.0005	<0.0005	2.1
MW-4	Shallow	10 to 25	45.717	7/13/01			ERM	**9,390**	**58.8 ES**	**86ES**	*<1.0*													
				10/26/01			ERM	**8,960**	**74.7 ES**	**103 ES**	*<1.0*													
				2/12/02			ERM	**11,000**	**93.4 ES**	**133 ES**	*<1.0*			.										
				10/1/02			Farallon	**21,000**	**230**	**400**		6.6		282.0	0.98	101								
				4/28/05			Farallon	**6,700**	**160**	**110**		6.6		305.0	0.83	97.4								
				8/15/06			Farallon	**8,500**	**210**	**250**		5.7		311.0	0.79	504								
				5/14/07			Farallon	**8,600**	**370**	**160**		6.1		319.0	0.64	449								
				11/27/07			Farallon	**5,400**	**220**	**120**		6.8		299.0	1.09	114								
				8/26/08			Farallon	**11,000**	**790**	**270**		6.2		248.0	2.91	159		26			5.5	<1.2	<1.1	1.59
				1/9/09			Farallon	**5,200**	**250**	**180**		6.7		289.0	0.57	25.6		24			51	<5	<5	2.47
				6/11/09			Farallon	**1,600**	**2,000**	**240**		6.3		285.0	0.63	61.7		15			310	<25	<25	2.1
				9/14/09			Farallon	**10,000**	**890**	**510**		6.1		290.0	0.59	167		17			5400	<500	<500	1.8
				5/27/10			Farallon	**5,800**	**310**	**1,200**	*<50*	6.7		255.0	0.32	-32.1								
				9/10/10			Farallon	**4,700**	**310**	**620**	*<20*	7		239.0	0.33	-10.2		19			4200	<500	<500	1.4
				6/10/11			Farallon	**3,300**	**160**	**970**	*<20*	6.8		287.0	0.34	-30.3		19			4100	<500	<500	1.7
				3/21/13			DOF	**1,400**	**140**	**530**	**0.85**	6.8		337.0	1.1	45.6					16400	<1.2	<1.1	5.68
				4/4/14			DOF	**1,500**	**160**	**1,900**	**5.6**	6.8		290.0	0.5	-53					15200	<1.2	<1.1	1.63
				10/10/14			DOF	**2,000**	**140**	**240**	*<1.0 U*	6		306.0	0.1	4.8					14400	<1.2 U	<1.1 U	1.75
				11/11/15	9.28	36.46	HWA	**960**	**120**	**1,100**	*<10*	6.12		342.0	0.00	-54.4		15			3300	<250	<16	1.4
				9/22/16	8.51	37.21	Kane	**380**	**71**	**1,300**	*<10*	6.28		433.0										
				10/31/16	6.91	38.81	Kane	**3,800**	**900**	**7,400**	*<50*	6.52	16.2	364.0										
				9/17/18	8.89	36.83	Kane	**4,060**	**360**	**1,740**	**11.9**	6.59	16.7	312.0	0.09	16.8	977	16.3	15.4	<0.100	3.79	<0.0162	<0.0151	3.94
				11/30/18	7.67	38.05	Kane	**4,370**	**373**	**1,720**	*<10*	6.35	16.2	347.4	0.12	50	604	18.8	16	<0.100	0.721	<0.162	<0.151	3.1
				2/22/19	7.23	38.49	Kane	**4,080**	**343**	**1790**	**9.72**	6.49	13.9	311.5	0.22	19.9	<100	16.2	16.5	<0.10	4.12	<0.0162	<0.0151	1.94
				5/23/19	7.59	38.13	Kane	**5,500**	**370**	**1,100**	**<30**	6.57	19.5	353.5	0.12	27.4	2100	17	16	<0.050	9.5	<0.50	<0.50	2.9
				7/16/19	8.13	37.59	Kane	**3,700**	**590**	**1,400**	**9.1**	6.26	20	354.3	0.06	-69	6,300	15	15	<0.050	5.2	<0.0005	<0.0005	2.3
				10/18/19	8.04	37.68	Kane	**1,900**	**390**	**940**	**7.5**	6.14	20.3	321.2	0.04	15.4	5,400	12	15	<0.050	11	<0.0005	<0.0005	3.7
				1/27/20	7.15	38.57	Kane	**1,600**	**250**	**760**	**6.7**	6.49	18.2	316.4	0.04	23.6	3,300	11	14	<0.050	8.0	<0.00022	<0.00029	2.1
				4/22/20	7.38	38.34	Kane	**1,600**	**210**	**760**	**14**	6.47	17	377.4	0.29	32.9	1,300	12	13	<0.050	8.3	<0.00022	<0.00029	1.6
MW-5	Shallow	10 to 25	44.297	7/13/01			ERM	**2,650**	**14.5**	**31.1**	*<1.0*													
				10/26/01			ERM	**1,670**	*<100*	*<100*	*<100*													
				2/12/02			ERM	**1,310**	**18.2**	**38.5**	*<1.0*													
				10/1/02			Farallon	**3,900**	**72**	**170**		6.2		185.0	0.84	70.6								
				4/28/05			Farallon	**2,200**	**56**	**76**		5.6		262.0	1.25	150								
				8/15/05			Farallon	**640**	**12**	**20**														
				8/14/06			Farallon	**10,000**	**240**	**270**		5.7		259.0	0.91	470								
				5/14/07			Farallon	**650**	**16**	**23**		5.7		290.0	1.63	448								
				11/27/07			Farallon	**1,300**	**25**	**31**		6		262.0	7.09	128								.
				8/26/08			Farallon	**21,000**	**660**	**630**		6		203.0	3.29	273		32			5.7	<1.2	<1.1	1.95
				5/27/10			Farallon	**6,600**	**400**	**240**	*<50*	6		198.0	0.55	109								
				3/21/13			DOF	**3,100**	**220**	**180**	<0.2	6.4		304.0	0.4	69.8					5940	<1.2	<1.1	3.94
				4/4/14			DOF	**1,300**	**79**	**65**	**0.03**	6.7		257.0	0.1	-35					2570	<1.2	<1.1	1.59
				10/10/14			DOF	**7,600**	**220**	**140**	*<10 U*	5.8		163.0	0.1	13.7					3260	<1.2 U	<1.1 U	1.78
				11/11/15	9.04	35.30	HWA	**2,200**	**93**	**76**	*<20*	5.87		170.0	1.87	29.6		20			3200	<250	<21	<1.0
				9/21/16	8.11	36.19	Kane	**910**	**39**	**35**	*<10*	5.96		170.0										
				10/24/16	6.38	37.92	Kane	**590**	**26**	**29**	*<4.0*	6.22	16.1	291.0										
				9/14/18	8.27	36.03	Kane	**2,220**	**33.9**	**24**	<0.20	5.88	16.4	193.0	0.37	166	<100	17.7	14.6	<0.100	0.303	<0.0162	<0.0151	3.1
				12/3/18	6.29	38.01	Kane	**58.5**	**13.6**	**1.13**	<0.20	6.05	15.1	325.0	0.08	19.5	1,810	15.7	7.48	<0.100	<0.00863	<0.0162	<0.0151	3.79
				6/10/19	6.93	37.37	Kane	**140**	**81**	**280**	**4.1**	6.53	16.4	548.0	0.22	-6.2	20,000	6.6	12.0	1.8	1.6	<0.250	<0.250	3.8
MW-6	Shallow	10 to 25	47.142	7/13/01			ERM	**30,000**	**618**	**231 ES**	*<1.0*													
				10/26/01			ERM	**13,500**	*<400*	*<400*	*<400*													
				2/12/02			ERM	**21,800**	**1,110 ES**	**406 ES**	*<1.0*													
				10/1/02			Farallon	**27,000**	**1,100**	**470**		6.6		201.0	0.92	95.2								
				4/27/05			Farallon	**15,000**	**1,100**	**460**		6.2		235.0	3.14	119								
				8/15/05			Farallon	**30,000**	**1,500**	**930**														
				8/14/06			Farallon	**24,000**	**1,100**	**1,500**		5.8		335.0	1.06	483								
				5/14/07			Farallon	**17,000**	**860**	**1,300**		6		296.0	2.18	471								
				11/27/07			Farallon	**22,000**	**940**	**1,300**		6.6		285.0	2.75	149								

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				8/26/08			Farallon	**25,000**	**1,200**	**1,200**		6.1		256.0	2.34	273		23			8.2	<1.2	<1.1	3.12
				1/9/09			Farallon	**12,000**	**610**	**440**		6.5		190.0	4.94	115		15			2.9	<0.5	<0.5	2.54
				6/11/09			Farallon	**20,000**	**780**	**710**		6		270.0	1.96	98		20			8	<0.5	<0.5	2.1
				9/14/09			Farallon	**23,000**	**1,200**	**870**		6.3		315.0	0.74	158		23			8.8	<0.5	<0.5	3.1
				2/25/10			Farallon	**17,000**	**730**	**450**	*<100*	6.4		176.0	2.49	170								
				5/27/10			Farallon	**13,000**	**480**	**320**	*<60*	6.6		250.0	0.3	38.1								
				9/10/10			Farallon	**860**	**430**	**8,300**	*<50*	6.6		492.0	0.34	-67.2		<5			64	<6.0	<6.0	19
				6/10/11			Farallon	**460**	**72**	**2,100**	*<20*	6.5		561.0	0.44	-178		<5			490	<50	<50	33
				3/20/13			DOF	**500**	**140**	**9,600**	56 ES	7.3		444.0	0	-144					5790	<1.2	2	12.3
				4/4/14			DOF	**950**	**220**	**240**	**19**	6.8		243.0	0.4	-142					1620	<1.2	<1.1	1.93
				10/10/14			DOF	**73**	**28**	**6,600**	**2,700**	6.6		623.0	0.3	-139					6220	<1.2 U	1200	12.9
				11/11/15	10.23	36.98	HWA	**26**	*<20*	**3,800**	**2,900**	6.37		749.0	0.00	-110.1		<10			3400	<250	850	11
				9/23/16	9.31	37.83	Kane	**240**	**69**	**10,000**	**2,400**	6.81		559.0										
				10/27/16	7.87	39.27	Kane	*<50*	*<50*	**9,500**	**1,900**	6.60	17.5	410.0										
				7/17/18	8.92	38.22	Kane	**27.4**	**14.3**	**4,480**	**851**	6.91	20.3	365.0	0.00									
				9/18/18	9.51	37.63	Kane	**738**	**238**	**2,620**	**472**	6.39	34.8	383.0	0.07	-42.6	6,340	20.1	14.2	0.162	0.666	<0.062	0.0596	9.01
				12/21/18	8.79	38.35	Kane	**2,670**	**1,000**	**2,560**	**25.5**	5.96	49.4	378.0	0.23	-65.4	5,260	8.68	11.2	0.413	0.0808	<0.162	<0.151	14.3
				2/22/19	7.79	39.35	Kane	**1,820**	**568**	**1040**	**14**	6.16	42.6	295.1	0.15	-52	5,800	13	7.69	<0.10	0.706	<0.0162	<0.0151	13.2
				5/22/19	8.46	38.68	Kane	**3,800**	**1,800**	**750**	*<20*	6.14	43.7	407.0	0.04	-70.8	8,800	<5.0	14	0.16	1	0.0012	<0.0005	20
				7/25/19	9.06	38.08	Kane	**3,600**	**1,100**	**490**	**7.4**	6.16	41.5	401.0	0.04	-108.1	9,200	<5.0	14	0.18	0.73	<0.0005	0.019	22
				10/21/19	8.76	38.38	Kane	**74**	**38**	**1,200**	**3.2**	6.08	31.3	562.0	0.04	-74.6	13,000	<5.0	16	0.12	2.3	<0.0005	0.00094	19
				1/22/20	7.77	39.37	Kane	**10**	**5**	**170**	**74**	6.62	20.9	364.9	--	-77.8	12,000	<5.0	10	0.11	4.3	<0.00022	<0.00029	8.4
				4/18/20	8.19	38.95	Kane	**23**	**7**	**38**	**50**	6.46	22.1	360.7	0.12	-7.4	1,500	13	6.3	0.1	0.76	<0.00022	0.015	10
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	15.7	323.0										
				10/26/16	7.3	38.23	Kane					6.62	14.9	316.0				22		<0.050				2.8
				9/18/18	9.12	36.41	Kane	**1,370**	**78.1**	**673**	**5.85**	6.69	15.8	369.0	0.12	17.3	2,620	37	5.48	<0.100	1.29	<0.0162	<0.0151	3.84
				11/30/18	8.9	36.63	Kane	**2,670**	**305**	**1,440**	*<10*	6.41	15.1	411.3	0.11	30.8	1,620	35	8.5	<0.100	0.197	<0.162	<0.151	4.18
				5/24/19	7.96	37.57	Kane	**1,000**	**84**	**240**	*<10*	6.68	13.6	409.5	0.16	-9.2	3,900	37	6.1	<0.050	0.049	<0.003	<0.003	2.3
MW-8	Deep	45 to 50	47.387	10/1/02			Farallon	**51**	**0.98**	**0.88**		7		487.0	0.73	-355								
				4/28/05			Farallon	**6.4**	<0.2	<0.2		6.3		186.0	0.97	104								
				8/15/06			Farallon	**0.44**	<0.2	<0.2		6.2		167.0	2.43	447								
				5/14/07			Farallon	**4.3**	<0.2	<0.2		6.1		145.0	2.89	419								
				11/27/07			Farallon	**2.2**	<0.2	<0.2		6.7		164.0	0.54	80.7								
				5/22/08			Farallon	**79**	**7.2**	**12**		6.2		139.0	5.8	153								
				8/25/08			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										

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				10/26/16	8.48	38.91	Kane	**5.8**	**1.3**	**3.1**	<0.20	6.43	15	246.0				12		<0.050				1.4
				7/17/18	9.7	37.69	Kane	**8.75**	**1.59**	**4.21**	<0.20	6.81	15.8	173.0	0.32									
				9/17/18	10.33	37.06	Kane	**14.8**	**2.14**	**8.25**	<0.20	6.56	20.1	187.0	0.16	70.9	<100	6.05	7.92	<0.100	0.0246	<0.0162	<0.0151	3.36
				12/20/18	10.05	37.34	Kane	**14.5**	**4.37**	**9.38**	<0.20	6.13	24.1	197.6	0.28	30	<100	4.13	6.53	<0.100	<0.00863	<0.0162	<0.0151	1.66
				2/22/19	8.75	38.64	Kane	**4.98**	**2.9**	**7.33**	<0.20	6.28	28.8	183.2	0.24	65	<100	4.95	7.14	<0.10	0.0173	<0.0162	<0.0151	1.82
				5/22/19	8.99	38.40	Kane	**3.1**	**1**	**1.3**	<0.20	6.3	32.9	212.0	0.16	-8.4	300	5.8	7.8	<0.050	0.036	<0.005	<0.005	2
				7/22/19	9.65	37.74	Kane	**1.9**	**0.48**	**0.53**	<0.020	6.04	34.4	221.5	0.11	54.2	450	7.5	8.4	<0.050	0.14	<0.0005	<0.0005	2.1
				10/21/19	9.54	37.85	Kane	**1.0**	**0.35**	**0.41**	<0.020	6.06	25.8	222.7	0.14	101.3	460	9.6	9.4	<0.050	0.49	<0.0005	<0.0005	2.6
				1/28/20	8.83	38.56	Kane	**4.5**	**1.7**	**1**	<0.020	6.2	18.8	216.5	0.28	65.2	210	12	8	<0.050	0.16	0.00028	<0.00029	2.7
				4/17/20	8.82	38.57	Kane	**0.9**	**0.3**	**0.47**	0.024	6.3	23.1	234.5	0.32	17.9	150	13	6.6	<0.050	0.009	0.00028	<0.00029	2.7
MW-9	Deep *Decomissioned*	45 to 50	49.857	10/1/02			Farallon	**250**	<2.0	<2.0		7.3		373.0	0.91	-197								
				4/27/05			Farallon	**53,000**	*<100*	*<100*		6.9		246.0	1.02	78.7								
				8/15/05			Farallon	**140,000**	*<200*	*<200*														
				11/27/07			Farallon	**13,000**	*<100*	*<100*		7.5		117.0	7.5	148								
				5/22/08			Farallon	**8,800**	*<50*	*<50*		7.4		191.0	1.1	68.9								
				8/26/08			Farallon	**6,000**	**3,400**	*<50*		7.2		166.0	1.2	102		<5			982	<1.2	<1.1	1.65
				1/9/09			Farallon	**160,000**	*<1,000*	*<1,000*		7.5		213.0	1.4	78.9		<5			530	<50	<50	1.79
				6/11/09			Farallon	**43,000**	*<300*	*<300*		6.6		98.0	7.7	83.3		<5			84	<5	<0.5	<1.0
				9/14/09			Farallon	**21,000**	*<200*	*<200*		6.7		139.0	3.01	167		<5			2.2	<0.5	<0.5	1.4
				2/25/10			Farallon	**16,000**	*<100*	*<100*	*<100*	7.5		63.0	5.97	148								
				9/10/10			Farallon	**6,500**	**36**	*<30*	*<30*	7.7		147.0	2.91	-63.7		<5			4.3	<0.5	<0.5	<1.0
				6/10/11			Farallon	**21,000**	*<200*	*<200*	*<200*	7.6		218.0	0.39	63.2		<5			1400	<100	<100	1.3
				3/20/13			DOF	**DNAPL**	**DNAPL**	**DNAPL**	**DNAPL**													
				4/7/14			DOF	**15,000**	**46**	**22**	<0.02	7		194.0	0.4	-98					2200	<1.2	<1.1	1.89
				10/11/14			DOF	**3,300**	**96**	**54**	*<2.0 U*	6.5		168.0	0.1	-38					757	<1.2 U	<1.1 U	1.63
				11/11/15	11.9	38.00	HWA	**890**	**560**	**680**	*<10*	5.90		139.0	0.00	45.6		<5.0			190	<15	6.1	<1.0
				9/22/16	11.2	38.66	Kane	**53,000**	*<500*	*<500*	*<500*	7.41		222.0										
				10/26/16	9.71	40.15	Kane	**42,000**	*<300*	*<300*	*<300*	7.54	14.8	254.0				3,300		0.44				<1.0
MW-10	Shallow *Decomissioned*	5 to 25		4/27/05			Farallon	**3**	<0.2	<0.2														
MW-10R	Shallow *Decomissioned*	15 to 25	49.392	9/19/16	9.98	39.41	Kane	**1.6**	<0.20	<0.20	<0.20	6.61		188.0										
				11/1/16	8.34	41.05	Kane	**1.3**	<0.20	<0.20	<0.20	6.78	15.4	212.0										
MW-11	Intermediate	25 to 33	47.207	11/28/07			Farallon	**28**	**0.26**	<0.2		6.6		176.0	1.26	165								
				5/22/08			Farallon	**23**	**0.24**	<0.2		6.2		174.0	0.84	132								
				8/25/08			Farallon	**27**	**0.53**	<0.2		6.3		142.0	1.46	238		18			29.8	<1.2	<1.1	1.71
				3/20/13			DOF	**5.6**	**0.2**	**0.26**	<0.02	6.6		296.0	0.1	-50.6					5770	<1.2	<1.1	6.53
				4/4/14			DOF	**5.6**	<0.2	<0.2	<0.02	6.8		298.0	0.2	-107					3500	<1.2	<1.1	2.61
				10/11/14			DOF	**4.8**	0.18 J	0.13 J	<0.02 U	6.1		371.0	0.4	16.8					2150	<1.2 U	<1.1 U	2.72
				11/11/15	10.34	36.91	HWA	**4.1**	**0.4**	<0.20	<0.20	6.28		594.0	0.67	-82.8		18			840	<50	<7.0	4.5
				9/23/16	9.42	37.79	Kane	**9.9**	<0.20	**0.42**	<0.20	6.29		408.0										
				10/26/16	7.98	39.23	Kane	**2.0**	<0.20	<0.20	<0.20	6.38	16.5	376.0				24		<0.050				4.2
				7/17/18	9.02	38.19	Kane	**11.2**	**2.12**	**3.73**	<0.20	6.58	20.4	295.0	0.16									
				9/17/18	9.82	37.39	Kane	**35.8**	**29.6**	**27.6**	<0.20	6.24	34.8	357.0	0.06	-4.5	1,140	42.5	22.9	<0.100	0.158	<0.0162	<0.0151	9.07
				12/20/18	8.56	38.65	Kane	**41**	**11.5**	**4.92**	<0.20	5.72	45.7	287.0	0.16	14.3	611	37.4	13.5	<0.100	0.109	<0.162	<0.151	8.99
				2/21/19	7.9	39.31	Kane	**16.9**	**14.6**	**9.58**	<0.20	5.96	47.2	316.3	0.16	-70	1,240	10.3	14.4	<0.10	0.87	<0.0162	<0.0151	23.7
				5/22/19	8.48	38.73	Kane	**75**	**69**	**14**	*<0.40*	6.13	45.7	468.0	0.04	-18	810	13	13	<0.050	0.49	<0.0005	<0.0005	27
				7/25/19	9.12	38.09	Kane	**39**	**41**	**7.7**	**0.34**	6.2	40.8	407.0	0.04	-43.8	660	10	11	0.068	1.1	<0.0005	<0.0005	26
				10/21/19	8.92	38.29	Kane	**3.5**	**3.8**	**220**	**1.5**	6.33	27.8	522.0	0.08	-59.4	1,500	<5.0	15	<0.050	1	<0.0005	<0.0005	34
				1/22/20	8.09	39.12	Kane	**2.5**	**2.7**	**230**	**70**	6.66	20.4	388.6	1.1	-35.1	4,500	<5.0	12	1.3	2	<0.00022	<0.00029	11
				4/17/20	8.49	38.71	Kane	**8**	**20**	**130**	**140**	6.79	22.5	515.3	0.2	-15.1	580	62	8.9	0.25	0.062	<0.00022	0.0068	17
MW-12	Intermediate	25 to 33	45.467	11/28/07			Farallon	**2,300**	**30**	**39**		6.9		326.0	1.48	165								
				5/22/08			Farallon	**2,800**	**53**	**61**		6.5		277.0	1.51	132								2.02
				8/26/08			Farallon	**1,600**	*<10*	<10		6.3		227.0	2.12	4.6		19			<0.7	<1.2	<1.1	5.04
				1/8/09			Farallon	**3,200**	**88**	**44**		6.5		309.0	0.77	70		22			16	<1.0	<1.0	3.11
				6/11/09			Farallon	**2,500**	**53**	**29**		6.2		293.0	0.62	75.4		22			30	<3.0	<3.0	1.7
				9/14/09			Farallon	**700**	**5.1**	<4		6.2		263.0	0.77	168		20			4.8	<0.5	<0.5	2.4
				5/27/10			Farallon	**2,800**	**240**	**80**	*<20*	6.5		265.0	0.32	8.7								
				9/9/10			Farallon	**1,500**	**22**	*<20*	*<20*	6.8		226.0	0.32	9.5		15			490	<50	<50	1.1
				6/10/11			Farallon	**5,800**	**270**	**180**	*<30*	6.5		348.0	0.49	-14.6		19			1000	<100	<100	2.5
				3/20/13			DOF	**4,800**	**210**	**920**	**1.6**	6.8		392.0	0.05	-18.8					12900	<1.2	<1.1	7.97
				4/4/14			DOF	**5,900**	**240**	**730**	**2.1**	6.9		327.0	0.1	-52					12300	<1.2	<1.1	2.88

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				10/10/14			DOF	**4,100**	**390**	**150**	*<2.0 U*	6.2		360.0	0.2	-25.6					12800	<1.2 U	<1.1 U	2.82
				11/11/15	9.61	35.93	HWA	**2,900**	**180**	**1,100**	<0.20	6.26		397.0	0.00	11		16			3000	<150	<18	2.2
				9/22/16	8.89	36.58	Kane	**1,100**	**140**	**730**	*<10*	6.37		410.0										
				10/26/16	7.26	38.21	Kane	**1,300**	**230**	**1,600**	*<20*	6.56	15.6	369.0				13		<0.050				2.1
				7/20/18	8.44	37.03	Kane	**4,110**	**351**	**2,110**	**14.3**	6.45	14.8	162.0	0.66									
				9/10/18	9.14	36.33	Kane	**3,460**	**231**	**1,460**	**11.1**	6.46	15.3	343.0	0.14	71.8	834	19.9	12.5	<0.100	4.12	<0.0162	<0.0151	5.72
				11/30/18	8.59	36.88	Kane	**2,340**	**194**	**669**	*<4.0*	6.16	15.1	533.8	0.11	84.5	2,330	14	46.2	<0.100	0.727	<0.162	<0.151	3.9
				5/24/19	7.92	37.55	Kane	**5,400**	**400**	**780**	*<30*	6.25	14.1	383.9	0.30	-89.5	530	24	9.5	<0.050	3.7	<0.250	<0.250	2.5
				7/22/19	8.4	37.07	Kane	**910**	**240**	**630**	**6.2**	6.12	18.6	672.0	0.05	-341	3,400	18	42	<0.050	3.2	<0.0005	<0.0005	2.8
				10/18/19	9.07	36.40	Kane	**360**	**68**	**240**	**0.84**	5.85	16.2	361.6	0.12	40	6,000	14	36	<0.050	3.3	<0.0005	<0.0005	2.1
				1/27/20	7.8	37.67	Kane	**260**	**120**	**450**	**1.9**	6.28	15.5	459.0	0.31	38.2	6,100	12	32	<0.050	2.4	<0.00022	<0.00029	2.3
				4/21/20	7.64	37.83	Kane	**330**	**84**	**52**	**0.82**	6.26	16.1	472.9	0.18	27.5	5,100	21	30	<0.050	3.6	<0.00022	<0.00029	2.9
MW-13	Deep *Damaged*	40 to 55	48.777	11/28/07			Farallon	<1.0	<0.2	<0.2		7.10		152.0	1.35	151								
MW-14	Intermediate *Decomissioned*	22 to 32	49.157	11/28/07			Farallon	<0.2	<0.2	<0.2		7.0		146.0	4.0	160								
				11/11/15	10.23	38.96	HWA	<0.20	<0.20	<0.20	<0.20	5.56		395.0	0.00	-99		<10			11000	<500	<55	13
				9/21/16	9.53	39.63	Kane	**0.91**	<0.20	<0.20	<0.20	6.08		243.0										
				11/1/16	8.29	40.87	Kane	<0.20	<0.20	<0.20	<0.20	5.96	15.6	307.0										
MW-15	Intermediate *Decomissioned*	22 to 32		11/28/07			Farallon	<0.2	<0.2	<0.2		6.8		157.0	4.0	170								
MW-16	Deep *Decomissioned*	40 to 55		11/28/07			Farallon	**10**	<0.2	<0.2		7.9		124.0	6.9	130								
MW-17	Deep *Damaged*	40 to 50	48.947	11/28/07			Farallon	**6.5**	<0.2	<0.2		7.7		188.0	0.49	141								
MW-18	Intermediate *Decomissioned*	22 to 30	48.747	11/28/07			Farallon	**270**	<2.0	<2.0		7.2		266.0	0.83	158								
				5/22/08			Farallon	<0.25	<0.25	<0.25														
				4/4/14			DOF	**2.4**	**1.2**	**14**	**3.3**	6.1		493.0	0.3	-111					16700	<1.2	<1.1	48.5
				10/11/14			DOF	**0.49**	<0.2 U	**3.6**	**1.3**	5.9		449.0	0.4	-6.6					13300	<1.2 U	<1.1 U	29.8
				9/23/16	9.65	39.10	Kane	**7.8**	<0.20	**1.3**	**0.26**	6.02		238.0										
				10/27/16	8.11	40.64	Kane	<0.20	<0.20	**2.0**	**0.47**	5.90	15.8	256.0										
MW-19	Shallow *Decomissioned*	9 to 19	47.517	11/16/15	9.31	38.26	HWA	**8,200**	**70**	**76**	*<50*	6.34		638.0	3.75	49.2		31			74	<15	2.2	7.9
				9/21/16	9.20	38.32	Kane	**1,800**	**84**	**490**	**34**	6.34		313.0										
				10/25/16	8.02	39.50	Kane	**5,700**	**140**	**860**	**61**	6.70	17.8	296.0										
MW-20	Intermediate	25 to 30	46.857	11/16/15	9.20	37.70	HWA	**900**	**60**	**37**	**17**	6.17		557.0	0.00	-73		22			1800	<125	9.4	2.7
				9/21/16	9.02	37.84	Kane	**190**	**45**	**120**	**9.0**	6.66		340.0										
				10/26/16	7.73	39.13	Kane	**140**	**44**	**120**	**17**	6.44	16.4	348.0				43		0.21				4.3
				12/20/18	7.5	39.36	Kane	**32**	**879**	**552**	**2.23**	5.72	-	263.9	0.05	-4.4	3,140	2.56	8.88	1.54	0.0446	<0.0162	<0.0151	95.4
				3/14/19	7.55	39.31	Kane	<0.841	**136**	**163**	*<2.0*	6	-	219.3	0.2	68.3	1,460	0.348	7.8	1.07	0.0463	<0.0162	<0.0151	45.3
				6/6/19	8.03	38.83	Kane	**0.43**	**51**	**31**	*<0.40*	6.45	55.6	218.1	0.08	4.4	950	<5.0	7.4	0.75	0.51	<0.05	<0.05	16
				7/25/19	8.64	38.22	Kane	**0.82**	**36**	**27**	**0.052**	6.36	52.5	210.2	0.13	-82	800	<5.0	6.4	0.89	0.67	<0.0005	<0.0005	8
				10/22/19	8.47	38.39	Kane	**0.46**	**19**	**68**	**0.15**	6.32	36.6	375.7	0.07	-47.2	1,200	<5.0	13	0.81	3.1	<0.0005	<0.0005	9.8
				1/28/20	7.66	39.20	Kane	**<1.0**	<1.0	**190**	**46**	6.87	26.7	483.0	0.13	-452	910	<5.0	14	0.65	13	<0.00022	<0.00029	13
				4/21/20	8.44	38.41	Kane	**0.23**	<1.0	**0.34**	**18**	6.89	23.1	704.0	0.18	6.3	2,300	<5.0	13	0.59	13	<0.00022	0.041	25
MW-21	Shallow	10 to 15	45.717	11/16/15	9.41	35.58	HWA	**21,000**	**440**	**350**	*<100*	7.38		1579.0	8.60	-18		96			310	<25	2.6	3.3
				9/22/16	9.05	36.67	Kane	**27,000**	**540**	**360**	*<200*	6.56		355.0										
				10/31/16	6.97	38.75	Kane	**8,400**	**210**	**190**	*<50*	6.32	17.7	319.0										
				9/10/18	9.31	36.41	Kane	**410**	**12**	**9**	<0.20	6.22	18.1	280.0	2.40	93.5	<100	20	11.9	<0.100	0.0299	<0.0162	<0.0151	3.78
				12/3/18	7.23	38.49	Kane	**122**	**1.67**	<1.00	<0.20	5.85	15.9	272.7	2.97	75.7	<100	12.9	4.61	<0.100	<0.00863	<0.0162	<0.0151	4.03
				5/24/19	7.69	38.03	Kane	**82**	**1.40**	**0.5**	*<0.40*	6.08	14.3	248.0	3.51	2.7	<56	12	3.7	<0.050	0.0026	<0.0005	<0.0005	<1.0
MW-22	Deep	54 to 59	44.957	11/16/15	8.91	36.84	HWA	**69**	**2.8**	**2.0**	*<0.40*	7.30		296.0	0.00	-52.2		<5.0			1400	<250	<9.0	1.5
				9/22/16	8.41	36.55	Kane	**11**	<0.20	**1.5**	<0.20	7.42		236.0										
				10/26/16	7.16	37.80	Kane	**2.1**	<0.20	**2.2**	<0.20	7.63	14.7	262.0				<5.0		0.24				1.2
				7/16/18	8.27	36.69	Kane	<1.00	<0.50	**1.6**	<0.20	7.87	15.4	214.0	0.00									
				9/19/18	8.85	36.11	Kane	<1.00	<0.50	**1.22**	<0.20	7.54	15.2	251.0	0.45	33.9	<100	0.932	6.65	0.392	0.654	<0.0162	<0.0151	2.37
				12/3/18	8.63	36.33	Kane	<1.00	<0.50	**1.11**	<0.20	7.22	14.3	267.8	0.07	-16	<100	0.533	6.66	0.291	0.0695	<0.0324	<0.0303	2.26
				6/20/19	7.91	37.05	Kane	**0.43**	<0.20	**0.87**	<0.20	7.31	15.1	233.0	0.27	-106.6	250	<5.0	3.9	0.3	0.001	<0.0005	<0.0005	1.3
MW-23	Shallow	6 to 16	48.027	9/20/16	8.92	39.11	Kane	**0.46**	<0.20	<0.20	<0.20	5.91		123.0										
				11/1/16	7.29	40.74	Kane	**2.2**	<0.20	<0.20	<0.20	6.19	15.0	128.0										
				9/19/18	9.04	38.99	Kane	<1.00	<0.50	<1.00	<0.20	6.16	16.2	94.0	0.87	54.7	<100	8.86	2.79	<0.100	1.04	<0.0162	<0.0151	2.74
				12/5/18	8.70	39.33	Kane	**1.05**	<0.50	<1.00	<0.20	5.65	14.4	112.4	1.24	49.8	124	10.3	2.16	<0.100	0.0854	<0.0162	<0.0151	2.4
				2/12/19	8.18	39.85	Kane	**2.11**	<0.50	<1.0	<0.20	5.34	11.6	75.1	5.16	128.7	<100	6.02	1.46	<0.10	<0.00863	<0.0162	<0.0151	1.17

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				6/4/19	8.57	39.46	Kane	**0.94**	<0.20	<0.20	<0.20	6.13	14.9	113.4	0.87	19.1	720	6.7	3.3	<0.050	0.14	<0.0075	<0.0075	1.6
MW-24	Deep	44 to 54	48.962	11/1/16	8.89	40.07	Kane	**9.0**	<0.20	<0.20	<0.20	8.44	14.7	225.0										
MW-25	Shallow	7.5 to 17.5	46.207	9/20/16	9.22	36.99	Kane	**4,200**	*<20.0*	*<20.0*	*<20.0*	6.56		324.0										
	Decomissioned			10/25/16	7.75	38.46	Kane	**99**	**7.4**	**10**	*<1.0*	6.58	17.3	184.0										
MW-26	Intermediate	25 to 35	46.047	9/20/16	9.04	37.01	Kane	**13**	**0.29**	**5.3**	<0.20	6.48		379.0										
	Decomissioned			10/31/16	7.65	38.40	Kane	**310**	**2.6**	<2.0	*<2.0*	6.59	16	364.0										
MW-27	Shallow	6 to 16	48.177	9/15/16	10.43	37.75	Kane	**120**	<1.0	<1.0	*<1.0*	6.31		87.0										
				10/31/16	8.22	39.96	Kane	**120**	<0.40	<0.40	*<0.40*	5.95	16.4	63.0										
				7/19/18	10.40	37.78	Kane	**138**	<0.50	<1.00	<0.20	5.89	15.2	126.0	17.18									
				9/14/18	10.98	37.20	Kane	**106**	<0.50	<1.00	<0.20	5.64	16.4	128.0	8.48	49.4	<100	38	1.07	<0.100	<0.00863	<0.0162	<0.0151	2.15
				12/12/18	10.09	38.09	Kane	**169**	**0.712**	<1.00	<0.20	5.17	14.5	133.3	7.04	48.3	<100	34.9	2.67	<0.100	<0.00863	<0.0162	<0.0151	0.793
				5/24/19	9.65	38.53	Kane	**110**	<1.0	<1.0	*<1.0*	5.73	13.1	131.9	8.54	41.5	<56	24	4.7	<0.050	<0.001	<0.0005	<0.0005	<1.0
				7/16/19	10.39	37.79	Kane	**91**	<0.40	<0.40	<0.040	4.53	16.3	120.9	6.39	155.7	<56	23	3.6	<0.050	<0.001	<0.0005	<0.0005	<1.0
				10/18/19	10.05	38.13	Kane	**130**	<1.0	<1.0	<0.10	5.20	16	97.3	7.17	243.9	<56	24	4.5	<0.050	<0.001	<0.0005	<0.0005	8.7
				1/29/20	8.22	39.96	Kane	**90**	**1.2**	**1.50**	<0.040	5.01	12.2	134.2	6.26	166.3	180	17	5.2	<0.050	<0.00055	<0.00022	<0.00029	1.3
				4/16/20	8.87	39.31	Kane	**75**	**0.51**	**0.89**	<0.040	5.47	14.6	139.6	3.53	59.6	91	17	<2.0	<0.050	<0.00055	<0.00022	<0.00029	<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	15.2	105.0										
				7/19/18	10.48	37.71	Kane	<1.00	<0.50	<1.00	<0.20	6.32	14.2	122.0	3.12									
				9/14/18	10.6	37.59	Kane	<1.00	<0.50	<1.00	<0.20	6.12	14.6	127.0	2.01	62.4	<100	8.42	7.43	<0.100	<0.00863	<0.0162	<0.0151	2.44
				12/12/18	10.01	38.18	Kane	<1.00	<0.50	<1.00	<0.20	5.70	13.9	130.1	1.78	48.7	<100	11.8	8.06	<0.100	<0.00863	<0.0162	<0.0151	0.69
				2/19/19	9.07	39.12	Kane	<1.0	<0.50	<1.0	<0.20	5.73	13.0	108.6	2.56	202.9	<100	8.78	5.65	<0.10	<0.00863	<0.0162	<0.0151	0.618
				5/24/19	9.85	38.34	Kane	<0.20	<0.20	<0.20	<0.20	5.54	13.6	116.0	1.8	-74.6	<56	9.5	6.2	<0.050	0.0096	<0.0005	<0.0005	<1.0
MW-29	Deep	45 to 55	48.242	9/15/16	10.5	37.74	Kane	<0.20	<0.20	<0.20	<0.20	7.33		254.0										
				10/27/16	9.01	39.23	Kane	**0.44**	<0.20	<0.20	<0.20	7.06	14.5	252.0										
				7/17/18	10.32	37.92	Kane	<1.00	<0.50	<1.00	<0.20	7.57	14.4	236.0	0.00									
				9/14/18	10.73	37.51	Kane	<1.00	<0.50	<1.00	<0.20	7.31	14.5	262.0	0.08	19.3	191	8.37	7.17	0.255	0.0242	<0.0162	<0.0151	4.32
				12/12/18	10.25	37.99	Kane	**1.06**	<0.50	<1.00	<0.20	7.05	13.8	276.8	0.15	-16.7	<100	6.72	5.32	0.243	0.04	<0.0162	<0.0151	3.02
				6/4/19	10.08	38.16	Kane	**0.26**	<0.20	<0.20	<0.20	7.40	16.3	265.3	0.25	15	450	<5.0	26	0.25	0.32	<0.015	<0.015	2.2
				7/16/19	10.61	37.63	Kane	<0.20	<0.20	<0.20	<0.020	6.88	16.2	274.4	0.11	-106.2	460	<5.0	5.2	0.3	0.35	<0.0005	<0.00050	2.1
				10/18/19	10.48	37.76	Kane	<0.20	<0.20	<0.20	<0.020	6.99	14.5	207.7	0.11	7.4	610	<5.0	6.4	0.29	0.39	<0.0005	<0.0005	2.2
				1/29/20	9.61	38.63	Kane	<0.20	<0.20	<0.20	<0.020	7.29	13.7	249.5	0.04	-82	570	<5.0	6.3	0.24	0.36	<0.00022	<0.00029	1.9
				4/16/20	9.71	32.53	Kane	<0.20	<0.20	<0.20	<0.020	7.23	16.2	312.9	0.31	-11.6	1,100	<5.0	5.5	0.25	0.093	<0.00022	<0.00029	2.0
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										
	Decommissioned			10/26/16	7.33	40.81	Kane	**130,000**	*<1,000*	**1,300**	*<1,000*	6.40	15.7	619.0				120		0.15				26
MW-31	Deep	40 to 50	47.817	9/20/16	9.81	38.01	Kane	**11**	**0.25**	<0.20	<0.20	6.80		244.0										
	Decommissioned			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										
	Decommissioned			10/27/16	7.51	38.44	Kane	**1,200**	<10	<10	*<10*	7.65	14.8	276.0										
MW-33	Deep	40 to 50	49.547	9/16/16	10.61	38.94	Kane	<0.20	<0.20	<0.20	<0.20	6.38		258.0										
				10/27/16	9.19	40.36	Kane	**0.34**	<0.20	<0.20	<0.20	6.37	15.0	221.0										
				12/5/18	10.4	39.15	Kane	<1.00	<0.50	<1.00	<0.20	6.13	18.1	174.3	0.07	43.5	<100	10.6	6.74	<0.100	<0.00863	<0.0162	<0.0151	3.01
				2/19/19	9.17	40.38	Kane	<1.0	<0.50	<1.0	<0.20	6.35	15.1	164.3	0.18	204.8	<100	11.5	6.45	<0.10	<0.00863	<0.0162	<0.0151	1.44
				6/4/19	10.56	38.99	Kane	<0.20	<0.20	<0.20	<0.20	6.42	16.1	196.6	0.19	31.6	<56	13	6.6	<0.050	0.0012	<0.0005	<0.0005	1.5
MW-34	Deep	40 to 50	46.597	9/16/16	9.19	37.41	Kane	**20**	**1.5**	**12**	**0.29**	6.33		271.0										
				10/27/16	7.75	38.85	Kane	**6.6**	**0.54**	**2.4**	<0.20	6.21	15.6	254.0										
				7/16/18	8.82	37.78	Kane	<1.00	<0.50	<1.00	<0.20	6.53	15.5	240.0	0.00									
				9/18/18	9.45	37.15	Kane	<1.00	<0.50	<1.00	<0.20	6.37	17.6	255.0	0.18	66.2	724	11.5	30.5	<0.100	0.0497	<0.0162	<0.0151	2.92
				12/11/18	8.5	38.10	Kane	<1.00	<0.50	<1.00	<0.20	5.92	22.9	284.6	0.09	44.3	561	13.5	39	<0.100	0.0103	<0.0162	<0.0151	1.2
				2/21/19	7.59	39.01	Kane	**1.29**	<0.50	**1.52**	<0.20	5.95	27.5	255.8	0.22	91.9	367	14.6	32.7	<0.10	0.0274	<0.0162	<0.0151	10.49
				6/3/19	8.28	38.32	Kane	**1.3**	<0.20	**3.2**	<0.20	6.16	32.4	263.9	0.19	18.6	440	15	29	<0.050	0.14	<0.0075	<0.0075	1.8
MW-35	Deep	48 to 58	44.247	9/16/16	8.19	36.06	Kane	**2.1**	<0.20	<0.20	<0.20	6.92		230.0										
				10/27/16	6.65	37.60	Kane	**1.4**	<0.20	<0.20	<0.20	6.92	14.4	235.0										
				7/16/18	7.74	36.51	Kane	<1.00	<0.50	<1.00	<0.20	7.35	15.0	217.0	0.13									
				9/10/18	8.45	35.80	Kane	<1.00	<0.50	<1.00	<0.20	7.08	15.1	244.0	0.25	21.8	1,130	2.94	8.11	0.244	0.323	<0.0162	<0.0151	3.3
				12/11/18	7.53	39.07	Kane	<1.00	<0.50	<1.00	<0.20	6.66	14.1	269.9	0.10	5.6	942	7.13	13.1	0.22	0.111	<0.0162	<0.0151	2.09
				6/3/19	7.41	36.84	Kane	**0.66**	<0.20	<0.20	<0.20	6.45	14.8	221.6	1.66	19.3	1,900	5.4	12	0.15	0.15	<0.0075	<0.0075	1.6
				7/25/19	7.92	36.33	Kane	<0.20	<0.20	<0.20	<0.020	6.31	18.2	590.0	0.08	-224	2,700	5.2	12	0.23	0.21	<0.0005	<0.0005	1.9
				10/18/19	7.97	36.28	Kane	**4.0**	<0.20	**0.44**	<0.020	5.76	15.1	166.7	0.15	83.2	<56	14	14	<0.050	0.0016	<0.0005	<0.0005	<1.0
				1/28/20	7.13	37.12	Kane	**0.49**	<0.20	<0.20	**0.040**	6.86	13.8	215.9	0.05	-29.1	2,700	<5.0	6.6	0.15	0.39	<0.00022	<0.00029	1.9
				4/22/20	7.68	36.57	Kane	**2.10**	<0.20	<0.20	<0.20	6.20	13.9	241.3	0.31	29.3	<56	14	14	<0.050	0.043	<0.00022	<0.00029	1.1

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
MW-36	Intermediate *Decommissioned*	25 to 35	47.327	9/19/16	8.68	38.65	Kane	**2.5**	<0.20	<0.20	<0.20	6.56		257.0										
				11/1/16	7.31	40.02	Kane	**7.3**	<0.20	<0.20	<0.20	6.60	15.1	264.0										
MW-37	Shallow *Decommissioned*	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	14.9	247.0										
MW-38	Deep *Decommissioned*	40 to 50	47.187	9/19/16	10.44	36.75	Kane	**1.3**	<0.20	<0.20	<0.20	6.89		271.0										
				10/28/16	7.66	39.53	Kane	**0.26**	<0.20	<0.20	<0.20	6.78		266.0										
MW-39	Deep	40 to 50	44.524	10/25/16	6.20	38.32	Kane	**95**	<0.40	<0.40	*<0.40*	7.11	16.5	279.0										
				7/25/18	7.15	37.37	Kane	<1.00	<0.50	**1.03**	<0.20	7.11	17.2	190.0	0.00									
				12/17/18	6.33	38.19	Kane	**2.32**	**2.62**	**6.81**	<0.20	6.39	24.1	225.4	0.15	-3.5	4,580	2.13	3.45	0.563	0.364	<0.0162	<0.0151	3.36
				3/13/19	6.32	38.20	Kane	<1.00	<1.00	**1.99**	<0.20	6.08	26.6	63.3	1.33	82.2	4,380	<0.300	3.76	0.445	0.552	<0.0162	<0.0151	4.15
				5/29/19	6.49	38.03	Kane	**0.33**	**0.34**	<0.20	<0.20	6.61	28.4	219.2	0.14	1.8	4,500	<5.0	4.3	0.48	1.1	<0.10	<0.10	3.3
				7/23/19	7.02	37.50	Kane	**0.52**	**0.63**	**1.3**	<0.020	6.33	28.2	215.5	0.25	-96.6	4,300	<5.0	4.3	0.44	1	<0.0005	<0.0005	2.9
				10/24/19	6.94	37.58	Kane	**0.52**	**0.52**	**1.6**	<0.020	6.1	26.2	250.0	0.24	19.8	4,600	<5.0	4.5	0.48	0.91	<0.0005	<0.0005	3.1
				1/28/20	5.53	38.99	Kane	<0.20	<0.20	**1.8**	<0.020	6.5	20.2	272.1	0.21	57.1	5,000	<5.0	4.8	0.53	0.67	<0.00022	<0.00029	3.2
				4/27/20	6.17	38.35	Kane	**3.1**	**2.2**	**8.9**	**0.024**	6.43	21.2	236.2	4.4	48.5	440	<5.0	4.3	<0.050	0.0011	<0.00022	<0.00029	2.1
MW-40	Shallow	15 to 25	44.521	10/25/16	8.21	36.31	Kane	**25,000**	*<100*	*<100*	*<100*	6.69	16.5	321.0										
				11/2/16	6.3	38.22	Kane	**11,000**	*<100*	*<100*	*<100*	6.73	14.9	229.0										
				7/25/18	7	37.52	Kane	**5,460**	**55.6**	**9.5**	<0.20	7.24	20.4	320.0	0.13									
				12/17/18	6.28	38.24	Kane	**212**	**46**	**56.7**	<0.20	6.43	34.3	69.2	2.39	52.6	<100	1.55	0.586	<0.100	<0.00863	<0.0162	<0.0151	1.11
				3/13/19	6.29	38.23	Kane	**213**	**146**	**746**	<0.20	6.08	29.5	63.3	1.33	82.2	<100	0.819	2.08	<0.10	0.00959	<0.0162	<0.0151	2.03
				5/29/19	6.49	38.03	Kane	**560**	**600**	**4,300**	*<20*	6.41	30.7	268.1	0.23	3.8	7,600	<5.0	11	0.35	0.47	0.011	<0.025	11
				7/23/19	7	37.52	Kane	**530**	**380**	**4,700**	**11**	6.29	30.5	319.8	0.05	-112.4	19,000	<5.0	12	0.39	0.49	0.0082	<0.0005	12
				10/25/19	6.82	37.70	Kane	**65**	**84**	**1,500**	**1.6**	5.82	23.7	163.6	0.06	35.6	4,600	<5.0	4.9	0.14	0.51	<0.0005	0.0016	13
				1/28/20	5.51	39.01	Kane	**150**	**130**	**2,300**	**1600**	6.89	21.2	368.4	0.01	-60.6	9,800	<5.0	19	0.33	10	<0.00022	0.12	10
				4/27/20	6.48	38.04	Kane	<10	<10	**150**	**930**	6.53	19.9	239.8	0.09	26	5,600	<5.0	7.9	0.24	5.6	<0.00022	0.13	9.9
MW-41	Shallow	5 to 15	-	1/3/17	8.31		Kane	**3.4**	<0.20	<0.20	<0.20	6.13		129.0										
				10/23/18	-	-	Kane	**2.02**	<0.50	<0.50	<0.20													
				6/7/19	8.12		Kane	**1.30**	<0.20	<0.20	<0.20	6.31	15.1	84.9	5.26	43.2	<56	6.6	4.5	<0.050	<0.001	<0.0005	<0.0005	<1.0
MW-42	Int./Deep	30 to 45	-	1/3/19	10.21		Kane	<1.00	<0.50	<1.0	<0.20													
				3/18/19	8.79		Kane	<1.00	<0.50	<1.0	<0.20	6.63	32.8	155.4	0.06	76.4	821	1.99	3.57	0.266	0.177	<0.0162	<0.0151	1.9
				6/5/19	9.11		Kane	<0.20	<0.20	<0.20	<0.20	6.92	22.9	216.9	0.13	5	5,500	<5.0	6.3	0.2	4.1	<0.25	<0.25	2.3
				7/30/19	9.65		Kane	<0.20	<0.20	**0.72**	**0.053**	6.49	26.4	713.0	0.05	-321.9	5,300	8	8.1	0.27	2.5	<0.0005	<0.0005	1.7
				10/22/19	9.29		Kane	<0.20	**1.90**	**1.9**	**0.056**	6.04	18.3	254.0	0.10	-10.2	7,600	7.3	13	0.28	3.2	<0.0005	<0.0005	3.9
				1/29/20	8.49		Kane	<0.20	<0.20	**20**	**3.3**	6.52	14.1	454.1	0.02	-24.8	19,000	<0.50	14	0.16	7.1	<0.00022	<0.00029	6.3
				4/16/20	8.88		Kane	<0.20	<0.20	**26**	**27**	6.46	14.7	567.6	0.47	-19.2	25,000	<5.0	14	0.21	8.9	<0.00022	0.012	3.5
MW-43	Shallow	10 to 25	-	1/2/19	10.4		Kane	**225**	**31.6**	**7.16**	<0.20													
				3/18/19	8.42		Kane	**1.66**	<0.50	**1.20**	<0.20	6.61	33.3	183.6	0.10	-4.6	286	14.4	3.34	<0.10	0.0336	<0.0162	<0.0151	8.25
				6/5/19	8.68		Kane	**9.10**	**7.60**	**35.0**	<0.20	6.86	24.1	168.3	0.09	21.5	450	15	3.7	0.08	0.53	<0.038	<0.038	5.8
				7/30/19	9.17		Kane	<0.20	**0.23**	**2.0**	<0.020	6.32	26.0	711.0	0.09	-281	280	11	5.7	0.11	0.44	<0.0005	<0.0005	4.7
				10/22/19	9.67		Kane	**0.80**	<0.20	**24.0**	**0.29**	6.17	19.2	552.0	0.06	-40.2	18,000	9.3	10	0.43	0.32	<0.0005	<0.0005	110
				1/29/20	7.76		Kane	**0.88**	<0.20	**8.7**	**1.9**	6.58	12.2	836.0	0.18	141.7	1,800	130	8.2	0.66	0.42	<0.00022	0.0029	10
				4/21/20	7.62		Kane	**0.47**	<0.20	**17**	**5.8**	6.61	23	456.7	0.13	19.7	6,800	22	7.9	0.49	0.51	<0.00022	0.0055	15
MW-44	Intermediate	25 to 35	-	6/6/19	7.49		Kane	<0.20	**1.70**	**28.0**	<0.20	6.35	51.4	229.6	0.18	-1.9	1,700	<5.0	7.6	0.49	0.24	<0.025	<0.025	19
				7/25/19	8.11		Kane	<0.20	**1.50**	**2.7**	**0.047**	6.15	47.4	254.1	0.34	-77	2,200	<5.0	6.6	0.71	0.13	<0.0005	0.0039	20
				10/22/19	9.85		Kane	<0.20	**0.77**	**14.0**	**0.29**	5.94	37.2	450.1	0.07	15.4	3,900	<5.0	12	0.73	1.4	<0.0005	0.0011	22
				1/29/20	7.14		Kane	<0.40	**1.20**	**38.0**	**0.48**	6.44	27.5	349.5	0.13	46.8	3,400	<5.0	10	0.62	9.9	<0.00022	<0.00029	16
				4/21/20	7.62		Kane	<0.20	<0.20	**22.0**	**32**	6.61	23	456.7	0.13	19.7	4,800	<5.0	11	0.62	8.7	<0.00022	0.0075	18
MW-45	Shallow	7 to 17	-	6/6/19	7.29		Kane	<0.20	<0.20	**6.0**	<0.20	6.81	45.7	798.0	0.09	18.4	770	<5.0	38	0.36	0.11	<0.0075	<0.0075	120
				7/25/19	7.96		Kane	<0.20	<0.20	**0.75**	**0.043**	6.49	44.1	825.0	0.25	-67.4	2,000	<5.0	21	0.63	1.2	<0.0005	<0.0005	88
				10/22/19	7.44		Kane	<0.20	<0.20	**0.88**	<0.020	6.28	32.5	569.0	0.14	51.6	1,600	12	15	0.75	1.5	<0.0005	<0.0005	33
				1/29/20	6.6		Kane	<1.0	<1.0	**160**	**46**	6.70	21.8	609.0	0.01	-54.2	5,400	<5.0	14	0.79	5.2	<0.00022	0.0072	21
				4/21/20	7.41		Kane	<0.20	<0.20	**0.4**	**7**	6.78	19.9	848.0	0.19	7.1	2,800	<5.0	16	0.87	8.6	<0.00022	0.011	41
HZ-MW-1	Shallow	5 to 15	41.637	9/5/08			HWA	**0.58**	<0.2	<0.2	<0.20													
				5/30/14			HWA	**21**	**0.22**	<0.20	<0.20	6.62		478.0	3.23									
				9/12/14			HWA	**33**	**0.33**	<0.20	<0.20	6.51		279.0	2.35									
				12/15/14			HWA	**15**	<0.20	<0.20	<0.20	6.3		223.0	2.02									
				3/19/15			HWA	**11**	<0.20	<0.20	<0.20	6.54		295.0	8.29									
				9/21/16	7.89	33.75	Kane	**7.2**	<0.20	<0.20	<0.20	6.42		120.0										
				10/31/16	6.23	35.41	Kane	**6.9**	<0.20	<0.20	<0.20	6.49	14.5	113.0										
				7/20/18	7.47	34.17	Kane	<1.00	<0.50	<1.00	<0.20	6.73	16.9	125.0	10.69									
				9/13/18	8.2	33.44	Kane	**10.8**	<0.50	<1.00	<0.20	6.59	18.7	139.0	7.20	100.6	<100	6.43	2.73	<0.100	<0.00863	<0.0162	<0.0151	1.54

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				12/19/18	6.94	34.70	Kane	**7.8**	<0.50	<1.00	<0.20	6.21	13.5	159.8	5.00	45	<100	8.54	3.43	<0.100	<0.00863	<0.0162	<0.0151	1.17
				5/30/19	6.81	34.83	Kane	**11**	<0.20	<0.20	<0.20	6.55	14.0	190.5	7.81	15.2	<56	7.4	5.9	<0.050	0.0014	<0.0005	<0.0005	1.1
				7/30/19	7.2	34.44	Kane	**14**	<0.20	**1.1**	<0.020	6.17	17.3	189.6	4.08	-70.1	<56	6.6	4.4	<0.050	<0.001	<0.0005	<0.0005	1
				10/21/19	7.45	34.19	Kane	**15**	<0.20	**0.61**	<0.020	5.65	15.9	172.5	4.58	200	<56	6.5	5.1	<0.050	<0.001	<0.0005	<0.0005	1.1
				1/24/20	6.39	35.25	Kane	**5.9**	<0.20	<0.20	<0.020	5.85	12.6	173.1	24.0	86.3	<56	16	4.0	<0.050	1.5	<0.00022	<0.00029	1.2
				4/14/20	6.33	35.35	Kane	**33**	**1.1**	**1.2**	**0.15**	6.20	12.9	301.4	1.1	-3.8	<56	16	6.3	<0.050	1.2	<0.00022	<0.00029	1.6
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										
				10/28/16	5.22	34.96	Kane	<0.20	<0.20	<0.20	<0.20	6.36	16.9	308.0										
				7/24/18	6.95	33.23	Kane	<1.00	<0.50	<1.00	<0.20	6.75	15.8	356.0	3.35									
				9/13/18	7.59	32.59	Kane	<1.00	<0.50	<1.00	<0.20	6.52	16.9	354.0	2.25	53.6	161	40.7	13	<0.100	<0.00863	<0.0162	<0.0151	3.95
				12/21/18	6.27	33.91	Kane	<1.00	<0.50	<1.00	<0.20	6.21	13.1	420.9	0.19	10	<100	36.5	15	<0.100	<0.00863	<0.0162	<0.0151	3.1
				5/30/19	6.37	33.81	Kane	**0.41**	<0.20	<0.20	<0.20	6.38	16.3	446.1	0.30	45.3	<56	45	21	<0.050	0.0016	<0.0005	<0.0005	2.6
HZ-MW-14S	Shallow	5 to 15	42.377	2/25/13			HWA	**2,400**	**47**	**29**														
				5/29/14			HWA	**1,000**	**23**	**11**	*<10*	6.46		799.0	0.16									
				9/11/14			HWA	**4,900**	**96**	**78**	*<20*	6.51		441.0	0.54									
				12/15/14			HWA	**790**	**16**	**13**	*<4.0*	6.34		396.0	0.48									
				3/20/15			HWA	**200**	**6.5**	**3.8**	*<1.0*	6.4		482.0	13.86									
				11/11/15	7.65	34.79	HWA	**75.0**	**3.1**	**8.6**	*<0.40*	6.10		437.0	1.3	24.8		30			170	<0.50	<0.50	2.2
				9/26/16	7.52	34.86	Kane	**1,800**	**57**	**110**	*<20*	6.34		330.0										
				10/28/16	5.82	36.56	Kane	**440**	**13**	**12**	*<2.0*	6.43	18.4	309.0										
				7/20/18	7	35.38	Kane	**2,580**	**52.5**	**86.6**	**0.572**	6.87	16.9	300.0	0.70									
				9/21/18	7.36	35.02	Kane	**2,710**	**61.9**	**203**	*<2.0*	6.52	19.1	346.0	0.13	42.9	<100	27.4	7.81	<0.100	0.361	<0.0162	<0.0151	3.87
				12/13/18	6.23	36.15	Kane	**240**	**7.33**	**6.12**	<0.20	6.11	15.5	327.3	0.17	20.4	<100	22.4	7.29	<0.100	<0.00863	<0.0162	<0.0151	1.89
				5/21/19	6.43	35.95	Kane	**240**	**7.0**	**3.2**	*<2.0*	6.47	14.7	339.2	0.11	-26.3	490	21	7.2	<0.050	0.053	<0.005	<0.005	1.7
				7/25/19	6.31	36.07	Kane	**160**	**6.8**	**7**	<0.10	6.15	20.8	303.6	0.23	-57.4	160	18	7.8	0.53	0.018	<0.0005	<0.0005	1.8
				10/16/19	6.99	35.39	Kane	**78**	**5.9**	**3.6**	<0.04	6.41	18.7	295.1	0.05	103.9	<56	17	8	<0.050	0.29	<0.0005	<0.0005	1.9
				1/22/20	5.65	36.73	Kane	**23**	**4.2**	**15**	0.069	6.31	11.6	265.0	2.22	115	<56	19	9.5	<0.050	0.014	<0.00022	<0.00029	2.8
				4/15/20	5.76	36.62	Kane	**55**	**3.5**	**4.3**	**3.0**	6.12	13	320.4	0.24	11.5	<56	18	8.1	<0.050	6.9	<0.00022	0.019	2.1
HZ-MW-14D	Intermediate	30 to 40	42.397	2/25/13			HWA	**360**	**7.6**	**21**														
				5/29/14			HWA	**100**	**3.7**	**16**	*<1.0*	6.47		622.0	0.23									
				9/11/14			HWA	**100**	**3.2**	**17**	*<1.0*	6.45		352.0	0.28									
				12/15/14			HWA	**100**	**2.8**	**15**	*<1.0*	6.41		332.0	0.87									
				3/20/15			HWA	**62**	**2.4**	**9.8**	*<0.40*	6.69		423.0	NA									
				11/11/15	8.12	34.31	HWA	**970**	**16**	**14**	*<10*	6.08		414.0	0.00	24.9		12			69	<0.50	<0.50	1.2
				9/26/16	7.38	35.02	Kane	**37**	**1.5**	**2.9**	<0.20	6.10		434.0										
				10/28/16	5.62	36.78	Kane	**55**	**2.8**	**6.1**	<0.20	6.21	18.1	373.0										
				7/20/18	6.96	35.44	Kane	**42.9**	**2.18**	**7.55**	<0.20	6.42	16.4	220.0	0.33									
				9/19/18	7.19	35.21	Kane	**36.4**	**1.98**	**7.14**	<0.20	6.23	15.9	500.0	0.23	100.4	<100	10	100	<0.100	0.0317	<0.0162	<0.0151	4.3
				12/13/18	6.7	35.70	Kane	**44.2**	**3.3**	**13.5**	<0.20	5.87	14.9	523.1	0.07	36	<100	15.5	90.8	<0.100	0.0524	<0.0162	<0.0151	0.968
				5/21/19	6.16	36.24	Kane	**65**	**2.9**	**12**	<0.20	6.09	14.7	500.3	0.06	-40.7	<56	10	87	<0.050	0.18	<0.01	<0.01	<1.0
				7/30/19	6.92	35.48	Kane	**100**	**4.7**	**28**	**0.30**	5.84	19.6	454.8	0.22	-86.5	<56	11	69	<0.050	0.92	<0.0005	<0.0005	1
				10/16/19	7.7	34.70	Kane	**190**	**7.9**	**48**	**0.51**	6.13	16.3	443.8	0.02	143.8	<56	9.3	75	<0.050	1.5	<0.0005	<0.0005	<1.0
				1/22/20	5.98	36.42	Kane	**400**	**24**	**140**	**1.1**	5.99	13.0	453.7	2.10	132.8	<56	11	65	<0.050	2.6	<0.00022	<0.00029	1.2
				4/15/20	6.14	36.26	Kane	**400**	**24**	**110**	**0.76**	6.13	14.2	443.4	0.28	14.4	<56	13	52	<0.050	1.8	<0.00022	<0.00029	1.2
HZ-MW-15S	Shallow	10 to 15	41.747	3/25/13			HWA	**86**	**2.3**	**3.6**														
				5/29/14			HWA	**150**	**7.1**	**3.6**	*<1.0*	6.35		785.0	1.45									
				9/13/14			HWA	**400**	**19**	**12**	<0.20	6.87		575.0	0.25									
				12/15/14			HWA	**300**	**14**	**12**	*<2.0*	6.44		549.0	0.95									
				3/20/15			HWA	**140**	**6.2**	**3.5**	*<1.0*	6.32		579.0	NA									
				11/12/15	6.99	34.79	HWA	**110**	**4.9**	**4.2**	*<10*	5.9		394.0	0.13	97.4		26			3.1	<250	<12	1.1
				9/27/16	6.65	35.10	Kane	**57**	**1.6**	**1.4**	*<0.40*	6.21		280.0										
				10/28/16	4.15	37.60	Kane	**81**	**3.3**	**2.9**	*<0.40*	6.30	17.3	314.0										
				9/19/18	6.61	35.14	Kane	**29.2**	**1.2**	**1.11**	<0.20	6.30	19.5	260.0	0.47	187	<100	18.8	2.67	<0.100	<0.00863	<0.0162	<0.0151	4.16
				12/27/18	4.4	37.35	Kane	**11.8**	<0.50	<1.00	<0.20	6.07		278.8	0.68	38.5	<100	19.5	2.85	<0.100	<0.00863	<0.0162	<0.0151	1.36
				6/4/19	4.92	36.83	Kane	**8.9**	**0.34**	<0.20	<0.20	6.32	15.9	256.6	0.33	-10.7	<56	16	3	<0.050	0.019	<0.001	<0.001	1.1

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				7/24/19	5.66	36.09	Kane	**11**	**0.41**	<0.20	<0.02	6.06	18.7	227.5	0.38	-69.1	<56	13	3.6	<0.050	0.02	<0.0005	<0.0005	1
				10/17/19	5.87	35.88	Kane	**9.8**	**0.39**	<0.20	<0.02	6.01	16.3	202.4	0.23	189	<56	13	5.1	<0.050	0.0076	<0.0005	<0.0005	1.2
				1/22/20	4.02	37.73	Kane	**4.2**	<0.20	<0.20	<0.02	5.99	10.4	295.5	6.00	129.5	<56	12	3.0	<0.050	0.0086	<0.00022	<0.00029	1.4
				4/15/20	4.51	37.24	Kane	**3.6**	<0.20	<0.20	<0.02	6.34	13.6	267.0	1.43	17.6	<56	14	2.1	<0.050	0.0012	<0.00022	<0.00029	1.3
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	15.9	266.0										
				9/19/18	6.74	35.05	Kane	**4,910**	**152**	**117**	<0.20	6.05	15.3	282.0	0.21	204	<100	22.8	16.5	<0.100	2.23	<0.0162	<0.0151	4.7
				12/27/18	4.23	37.56	Kane	**6,410**	**229**	**199**	*<10.0*	5.95		315.5	0.09	52.4	<100	19.5	2.85	<0.100	<0.00863	<0.0162	<0.0151	1.36
				6/4/19	6.11	35.68	Kane	**10,000**	**390**	**260**	*<100*	6.25	15.1	337.4	0.12	20.9	<56	23	14	<0.05	5	<0.25	<0.25	1.50
				7/24/19	6.83	34.96	Kane	**9,200**	**390**	**340**	*<5.0*	5.93	16.9	324.0	0.24	-56.6	<56	21	13	<0.050	5	<0.0005	<0.0005	1.60
				10/17/19	7.02	34.77	Kane	**7,700**	**410**	**360**	*<5.0*	5.83	15.1	292.1	0.12	173.5	100	18	13	<0.050	5	<0.0005	<0.0005	1.30
				1/22/20	6.05	35.74	Kane	**4,000**	**280**	**410**	*<2.0*	6.21	12.3	430.0	0.11	88.9	<56	13	16	<0.050	2.4	<0.00022	<0.00029	1.20
				4/15/20	6.67	35.12	Kane	**3,300**	**240**	**400**	*<2.0*	6.19	14.9	505.3	0.27	32.4	120	9.6	16	<0.050	3	<0.00022	<0.00029	1.20
HZ-MW-16	Shallow	15 to 25	-	5/28/14			HWA	**0.32**	<0.20	**0.30**	<0.20	6.52		451.0	0.16									
				9/12/14			HWA	**4.2**	<0.20	<0.20	<0.20	7.08		207.0	1.23									
				12/15/14			HWA	**0.4**	<0.20	<0.20	<0.20	7.01		235.0	0.57									
				3/19/15			HWA	**0.35**	<0.20	**0.24**	<0.20	6.59		326.0	NA						<0.50			
				11/28/16	4.53		Kane	**0.34**	<0.20	<0.20	<0.20	6.78		167.0										
				9/24/18	6.23		Kane	<1.00	<0.50	<1.00	<0.20	6.62	16.6	131.0	1.85	83.4	<100	9.78	2.83	<0.100	<0.00863	<0.0162	<0.0151	1.58
				1/3/19	5.56		Kane	**1.39**	<0.50	<1.00	<0.20	6.09		220.2	0.66	63.5	<100	15.2	8.5	<0.100	<0.00863	<0.0162	<0.0151	0.645
				6/5/19	5.8		Kane	**2.00**	**0.30**	**0.61**	<0.20	6.46	15.0	222.3	0.29	26.7	<56	16	7.6	<0.050	<0.001	<0.0005	<0.0005	<1.0
HZ-MW-17	Shallow	10 to 20	38.567	6/9/14			HWA	<0.20	<0.20	<0.20	<0.20	6.61		594.0	0.15									
				9/12/14			HWA	**2.0**	<0.20	<0.20	<0.20	6.94		345.0	0.89									
				12/16/14			HWA	**0.5**	<0.20	<0.20	<0.20	6.71		309.0	1.55									
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.96		434.0	NA									
				9/26/16	8.90	29.67	Kane	<0.20	<0.20	<0.20	<0.20	6.73		230.0										
				10/27/16	6.61	31.96	Kane	<0.20	<0.20	<0.20	<0.20	6.89	14.9	238.0										
				7/24/18	7.45	31.12	Kane	<1.00	<0.50	<1.00	<0.20	7.17	16.1	250.0	0.41									
				9/12/18	7.90	30.67	Kane	<1.00	<0.50	<1.00	<0.20	6.97	16.2	267.0	0.09	39.9	2,540	16.9	7	<0.100	<0.00863	<0.0162	<0.0151	2.54
				12/6/18	7.68	30.89	Kane	<1.00	<0.50	<1.00	<0.20	6.65	14.9	297.5	0.32	29.1	2,060	23.7	9.1	<0.100	<0.00863	<0.0162	<0.0151	2.28
				5/31/19	7.08	31.49	Kane	<0.20	<0.20	<0.20	<0.20	6.91	15.2	312.3	0.11	-30.1	3,600	16	9	0.081	0.25	<0.015	<0.015	1.1
HZ-MW-18	Shallow *Decommissioned*	7.5 to 17.5		6/10/14			HWA	<0.20	<0.20	<0.20	<0.20	6.38		1901.0	0.14									
HZ-MW-19	Shallow	5 to 15	42.177	5/30/14			HWA	**0.97**	**0.94**	**0.40**	<0.20	6.38		1210.0	0.10									
				6/9/14			HWA	**0.28**	**0.67**	**1.1**	<0.20	6.26		1213.0	0.13									
				9/12/14			HWA	**3.3**	**0.76**	**0.67**	<0.20	6.37		675.0	0.50									
				12/16/14			HWA	**1.0**	<0.20	<0.20	<0.20	6.75		301.0	0.42									
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.33		376.0	NA						100			
				8/6/15			HWA					6.18		513.0	0.00									
				11/11/15	7.01	35.22	HWA	**0.6**	**0.77**	**1.1**	<0.20	6.03		623.0	0.00	-13.9		25			11	<0.50	<0.50	8.4
				9/26/16	7.73	34.45	Kane	**0.59**	**0.54**	**0.48**	<0.20	6.29		438.0										
				10/31/16	4.78	37.40	Kane	<0.20	<0.20	<0.20	<0.20	6.11	14.2	174.0										
				7/24/18	7.17	35.01	Kane	<1.00	<0.50	<1.00	<0.20	6.56	17.3	335.0	0.00									
				9/7/18	7.72	34.46	Kane	<1.00	**0.574**	<1.00	<0.20	6.34	18.0	504.0	1.16	102.7	1,460	61.5	5.2	<0.100	<0.00863	<0.0162	<0.0151	8.59
				12/7/18	6.32	35.86	Kane	<1.00	<0.50	<1.00	<0.20	5.99	14.5	376.6	0.12	64.7	2,500	24.5	2.44	<0.100	0.0158	<0.0162	<0.0151	6.15
				5/30/19	6.25	35.93	Kane	**0.21**	**0.25**	<0.20	<0.20	6.25	18.1	424.6	0.15	34.5	240	28	3.9	<0.050	0.019	<0.001	<0.001	3.5
HZ-MW-20	Shallow *Decommissioned*	5 to 15		6/9/14			HWA	<0.20	<0.20	<0.20	<0.20	6.79		1914.0	0.28									
				9/13/14			HWA	**1.3**	<0.20	<0.20	<0.20	7.09		1018.0	0.72									
				12/16/14			HWA	**0.41**	<0.20	<0.20	<0.20	6.72		851.0	0.44									
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.91		1139.0	NA									
HZ-MW-21	Shallow	6 to 16	39.517	9/13/16	7.14	32.38	Kane	<0.20	<0.20	<0.20	<0.20	6.55		509.0										
				10/31/16	5.90	33.62	Kane	<0.20	<0.20	<0.20	<0.20	6.31	14.7	528.0										
				7/23/18	6.90	32.62	Kane	<1.00	<0.50	<1.00	<0.20	6.77	17.6	576.0	0.19									
				9/13/18	7.37	32.15	Kane	<1.00	<0.50	<1.00	<0.20	6.65	17.9	700.0	0.12	71.6	739	35.6	7.12	0.169	0.0386	<0.0162	<0.0151	18.3
				12/10/18	6.69	32.83	Kane	<1.00	<0.50	<1.00	<0.20	6.43	14.1	120.9	0.71	71.7	<100	8.51	1.4	0.125	<0.00863	<0.0162	<0.0151	1.94

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
				5/23/19	6.55	32.97	Kane	<0.20	<0.20	<0.20	<0.20	6.60	15.3	500.7	0.11	-0.1	550	21	8.1	0.29	0.14	0.00093	<0.0005	14
HZ-MW-22	Shallow	5 to 15	40.827	9/14/16	6.77	34.06	Kane	**0.67**	**0.62**	**0.24**	<0.20	6.13		303.0										
				10/28/16	4.85	35.98	Kane	**0.46**	<0.20	<0.20	<0.20	6.52	16.5	318.0										
				7/23/18	6.45	34.38	Kane	**1.52**	**0.849**	<1.00	<0.20	6.47	17.6	316.0	0.68									
				9/7/18	7.10	33.73	Kane	**1.44**	**1.33**	**1.07**	<0.20	6.25	18.9	338.0	0.51	98.7	<100	20.3	14.1	<0.100	<0.00863	<0.0162	<0.0151	5.38
				12/21/18	5.35	35.48	Kane	**1.46**	**0.956**	<1.00	<0.20	6.16	13.3	392.0	0.98	32.7	<100	25.5	10.2	<0.100	<0.00863	<0.0162	<0.0151	2.52
				5/21/19	5.72	35.11	Kane	**1.2**	**0.66**	**0.51**	<0.20	6.37	14.3	413.6	0.50	-19.1	<56	31	8.1	<0.050	0.004	<0.0005	<0.0005	2.3
HZ-MW-23	Intermediate	28 to 38	41.677	9/14/16	8.21	33.47	Kane	**2.4**	<0.20	**0.41**	<0.20	6.55		378.0										
				10/31/16	6.80	34.88	Kane	**2.3**	<0.20	**0.33**	<0.20	6.77	14.4	345.0										
				9/7/18	8.26	33.42	Kane	<1.00	<0.500	<1.00	<0.20	6.84	15.6	401.0	0.07	24.8	3,800	13.2	11.1	<0.100	0.527	<0.0162	<0.0151	6.14
				12/19/18	7.40	34.28	Kane	<1.00	<0.50	<1.00	<0.20	6.53	14.2	416.2	0.06	7.5	1,200	16.6	11.3	<0.100	0.273	<0.0162	<0.0151	3.14
				5/30/19	7.17	34.51	Kane	<0.20	<0.20	<0.20	<0.20	6.74		358.2	0.20	11.5	7,500	13	11	<0.050	0.75	<0.05	<0.05	3.4
				7/30/19	7.98	33.70	Kane	<0.20	<0.20	<0.20	<0.020	6.65	18.6	281.2	0.22	-79.8	4,900	11	6.8	<0.050	0.21	<0.0005	<0.0005	3.4
				10/24/19	8.61	33.07	Kane	<0.20	<0.20	<0.20	<0.020	6.40	14.9	290.2	0.17	-5	8,700	8.1	7.1	<0.050	0.92	<0.0005	<0.0005	24
				1/29/20	6.69	34.99	Kane	<0.20	<0.20	<0.02	**0.039**	6.55	13.2	502.7	0.20	13.5	10,000	<5.0	9.4	<0.050	1.9	<0.00022	<0.00029	42
				4/13/02	6.77	34.91	Kane	<0.20	<0.20	<0.02	**0.044**	6.77	14.7	702.0	0.34	-59	16,000	<5..0	12	<0.050	7.3	<0.00022	<0.00029	92
HZ-MW-24	Intermediate	25 to 35	40.997	9/14/16	7.20	33.80	Kane	**4.9**	**2.4**	**21**	**0.8**	6.47		356.0										
				10/27/16	5.66	35.34	Kane	**6.7**	**0.8**	**12**	**0.6**	6.69	17.1	316.0										
				9/18/18	6.92	34.08	Kane	**4.48**	**2.3**	**14.8**	**0.577**	6.31	16.2	286.0	0.22	99.2	<100	26.1	8.28	<0.100	0.0181	<0.0162	<0.0151	3.98
				12/10/18	6.04	34.96	Kane	**2.79**	**0.908**	**5.38**	<0.20	6.26	15.0	273.7	0.08	-1.4	828	10.3	7.18	<0.100	<0.00863	<0.0162	<0.0151	7.02
				5/31/19	6.06	34.94	Kane	**2.0**	**0.92**	**21**	**0.77**	6.61	15.3	533.7	0.13	-11.7	8,500	<5.0	13	0.19	5.4	<0.25	<0.25	3.5
				7/17/19	7.10	33.90	Kane	**2.7**	**1.1**	**16**	**0.58**	6.39	17.1	557.4	0.07	-167.7	15,000	7.8	13	0.39	6.3	<0.0005	<0.0005	3.8
				10/24/19	6.82	34.18	Kane	<0.40	<0.40	**93**	**0.76**	6.21	16.0	442.3	0.16	10	20,000	<5.0	14	1.1	9.7	<0.0005	<0.0005	4.7
				1/27/20	5.71	35.29	Kane	**2.2**	**1.3**	**150**	**3.2**	6.47	13.0	452.3	0.13	35.3	14,000	<5.0	15	2.5	9.5	<0.00022	<0.00029	4.9
				4/14/20	6.01	34.99	Kane	<0.40	<0.40	**73**	**30**	6.36	15.7	493.7	0.22	-13.9	14,000	13	19	4.1	4.0	<0.00022	0.0027	5.4
HZ-MW-25	Deep	44.33 to 54.33	41.907	9/14/16	8.17	33.74	Kane	**6.4**	<0.20	<0.20	<0.20	6.71		254.0										
				10/28/16	7.02	34.89	Kane	**1.2**	<0.20	<0.20	<0.20	6.46		237.0										
				7/19/18	8.00	33.91	Kane	<1.00	<0.50	<1.00	<0.20	6.67	14.7	248.0	0.45									
				9/11/18	8.41	33.50	Kane	<1.00	<0.50	<1.00	<0.20	6.38	15.3	273.0	0.08	102.8	201	9.38	25.8	<0.100	0.00931	<0.0162	<0.0151	2.72
				12/4/18	7.35	34.56	Kane	**3.67**	**1.36**	<1.00	<0.20	6.11	14.7	299.6	0.07	48.7	5,900	14.5	21.1	<0.100	<0.00863	<0.0162	<0.0151	4.34
				5/30/19	7.60	34.31	Kane	<0.20	<0.20	<0.20	<0.20	6.36		259.6	0.32	21.3	330	12	22	<0.050	0.056	<0.005	<0.005	<1.0
HZ-MW-26	Intermediate	25 to 35	40.692	9/14/16	7.55	33.14	Kane	**99**	**3.5**	**4.7**	*<0.40*	6.71		267.0										
				10/28/16	6.26	34.43	Kane	**3.3**	<0.20	**0.25**	<0.20	6.74	16.0	265.0										
				7/23/18	7.36	33.33	Kane	**11.9**	<0.50	**2.01**	<0.20	6.98	16.4	284.0	0.31									
				9/17/18	6.83	33.86	Kane	**7.12**	<0.50	**1.3**	<0.20	6.55	15.0	316.0	0.37	187	<100	24.9	7.46	<0.100	<0.00863	<0.0162	<0.0151	3.54
				12/4/18	7.23	33.46	Kane	**6.21**	<0.50	**1.03**	<0.20	6.38	14.2	334.2	0.10	75.6	<100	25.3	8.08	<0.100	<0.00863	<0.0162	<0.0151	2.3
				5/30/19	6.85	33.84	Kane	**9.7**	<0.20	**1.4**	<0.20	6.70	16.6	329.9	0.18	17	<56	28	9.3	<0.050	0.0042	<0.0005	<0.0005	<1.0
				7/30/19	7.34	33.35	Kane	**5.0**	<0.20	**1.0**	**0.053**	6.42	16.5	327.9	0.21	-96.7	<56	23	9.3	0.063	0.01	<0.0005	<0.0005	<1.0
				10/16/19	7.91	32.78	Kane	**2.8**	<0.20	**0.53**	**0.055**	6.61	15.1	322.7	0.03	152.3	<56	24	11	<0.050	0.022	<0.0005	<0.0005	<1.0
				1/24/20	6.86	33.83	Kane	**1.5**	<0.20	**0.42**	**0.041**	6.55	13.1	334.4	0.10	36.3	<56	23	14	<0.050	0.035	<0.00022	0.00052	<1.0
				4/13/20	6.33	34.36	Kane	**73.0**	**2.5**	**4.9**	<0.040	6.52	14.6	396.4	0.66	-4.8	<56	24	14	<0.050	0.059	<0.00022	<0.00029	<1.0
HZ-MW-27	Deep	45 to 55	41.597	9/14/16	8.00	33.60	Kane	**1.6**	<0.20	**0.34**	<0.20	6.80		227.0										
				10/28/16	6.55	35.05	Kane	**0.84**	<0.20	<0.20	<0.20	6.51		208.0										
				7/13/18	7.35	34.25	Kane	**2.24**	<0.50	**1.07**	<0.20	6.77	15.1	215.0	0.40									
				9/18/18	7.73	33.87	Kane	**1.75**	<0.50	<1.00	<0.20	6.24	15.1	222.0	0.34	62.8	<100	15.3	8.08	<0.100	0.0449	<0.0162	<0.0151	4.12
				12/7/18	8.18	33.42	Kane	<1.00	<0.50	<1.00	<0.20	6.12	14.5	229.6	0.13	49.8	835	21.1	8.36	<0.100	0.0636	<0.0162	<0.0151	1.28
				5/30/19	7.30	34.30	Kane	<0.20	<0.20	<0.20	<0.20	6.51	15.8	223.5	0.22	18.6	1,200	18	8.7	<0.050	0.093	<0.005	<0.005	1.4
HZ-MW-28	Intermediate	25 to 35	38.744	10/27/16	5.90	32.84	Kane	**0.96**	<0.20	<0.20	<0.20	6.87	15.3	343.0										
				7/24/18	6.65	32.09	Kane	<1.00	<0.50	<1.00	<0.20	7.08	15.6	333.0	0.42									
				9/13/18	7.00	31.74	Kane	<1.00	<0.50	<1.00	<0.20	6.86	15.1	368.0	0.13	35.8	420	17.6	16	<0.100	0.0191	<0.0162	<0.0151	2.29
				12/6/18	6.40	32.34	Kane	<1.00	<0.50	<1.00	<0.20	6.58	14.2	429.8	0.28	56.7	<100	37.6	14	<0.100	0.0101	<0.0162	<0.0151	2.77
				5/31/19	6.35	32.39	Kane	<0.20	<0.20	<0.20	<0.20	6.75	14.6	416.1	0.14	-7.1	<56	45	16	<0.050	0.053	<0.003	<0.003	1.4
HZ-MW-29	Intermediate	25 to 35	40.309	10/27/16	6.03	34.28	Kane	**85**	**9.0**	**100**	**6.6**	6.60	15.7	271.0										
				7/23/18	6.75	33.56	Kane	**54.8**	**4.2**	**33.2**	**1.31**	6.66	16.9	241.0	0.07									
				9/11/18	7.11	33.20	Kane	**36.6**	**3.48**	**23.7**	<0.20	6.47	15.3	254.0	0.15	95.2	<100	16	10.9	<0.100	<0.00863	<0.0162	<0.0151	2.73
				12/10/18	5.68	34.63	Kane	**13.6**	**4.06**	**11.4**	<0.20	6.18	14.3	330.7	0.07	3.5	2,140	17.9	17.2	<0.100	<0.00863	<0.0162	<0.0151	2.68
				5/31/19	6.29	34.02	Kane	**1.4**	**0.6**	**32**	**0.26**	6.52	15.8	705.0	0.35	-2.3	10,000	<5.0	18	0.65	3.9	<0.25	<0.25	52
				7/17/19	7.03	33.28	Kane	**1.2**	**0.58**	**32**	**0.47**	6.20	15.9	627.0	0.09	-93.7	9,300	<5.0	16	0.79	9.5	<0.0005	<0.0005	15
				10/24/19	7.98	32.33	Kane	<1.0	<1.0	**100**	**0.94**	6.15	15.2	466.6	0.14	-9.6	9,500	<5.0	13	1.6	9.9	<0.0005	<0.0005	2.1
				1/27/20	6.41	33.90	Kane	<1.0	**1.5**	**100**	**1.5**	6.33	13.4	579.5	0.17	42.1	12,000	6.9	14	3.2	8.6	<0.00022	<0.00029	1.8
				4/13/20	6.31	34.00	Kane	<1.0	**5.2**	**130**	**5.8**	6.31	13.3	595.4	0.28	-76.4	11,000	8.3	14	3	19	<0.00022	<0.00029	3.2

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
HZ-MW-30	Deep	40 to 50	-	11/28/16	7.08		Kane	<0.20	<0.20	<0.20	<0.20	8.01		418.0										
				8/27/18	8.60		Kane	<1.00	<0.50	<1.00	<0.20	7.71	16.9	235.0										
				9/20/18	9.54		Kane	<1.00	<0.50	<1.00	<0.20	7.71	15.0	273.0	0.25	-140	162	0.506	3.51	0.937	0.426	<0.0162	<0.0151	2.1
				12/18/18	7.71		Kane	<1.00	<0.50	<1.00	<0.20	7.60	13.9	281.5	0.05	-2.4	247	<0.300	3.62	0.956	0.307	<0.0162	<0.0151	2.15
				5/19/19	7.88		Kane	<0.20	<0.20	<0.20	<0.20	7.68		260.5	0.17	22.8	170	<5.0	4.8	0.61	0.91	<0.05	<0.05	1.8
HZ-MW-31	Shallow	15 to 25	-	11/28/16	8.42		Kane	<0.20	<0.20	<0.20	<0.20	6.80		325.0										
				8/27/18	9.55		Kane	<1.00	<0.50	<1.00	<0.20	6.52	16.3	294.0										
				9/20/18	9.63		Kane	<1.00	<0.50	<1.00	<0.20	6.46	15.5	321.0	0.43	-45.4	8,800	7.69	9.3	0.33	0.0618	<0.0162	<0.0151	5.41
				12/18/18	9.40		Kane	<1.00	<0.50	<1.00	<0.20	6.33	14.2	331.1	0.07	2	1,880	8.74	8.76	0.297	0.151	<0.0162	<0.0151	4.99
				5/29/19	9.34		Kane	**0.78**	<0.20	<0.20	<0.20	6.58	15.0	320.7	0.23	19.8	20,000	<5.0	8.7	0.26	0.34	<0.025	<0.025	4.6
				7/24/19	9.45		Kane	**2.5**	<0.20	**0.69**	**0.048**	6.33	16.9	295.9	0.21	-64	19,000	<5.0	8.3	0.27	0.62	<0.0005	<0.0005	4.4
				10/25/19	9.16		Kane	<0.20	<0.20	<0.20	**0.048**	6.22	15.1	232.9	0.10	23	19,000	<5.0	6.3	0.3	0.9	<0.0005	<0.0005	4.8
				1/28/20	8.75		Kane	<0.20	<0.20	<0.20	**0.054**	6.27	12.9	298.6	0.24	69	18,000	<5.0	6.7	0.29	0.76	<0.00022	<0.00029	4.8
				4/27/20	24.75		Kane	<0.20	<0.20	<0.20	**0.049**	6.50	14.3	347.3	0.25	34	19,000	<5.0	5.8	0.29	0.84	<0.00022	<0.00029	4.7
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	14.8	355.0	0.20	-68.3	13,500	3.07	13.3	0.402	0.147	<0.0162	<0.0151	6.79
				12/19/18	8.70		Kane	<1.00	<0.50	<1.00	<0.20	6.28	13.2	377.0	0.14	-5	234	5.93	13.6	0.356	0.121	<0.0162	<0.0151	6.56
				5/29/19	8.25		Kane	<0.20	<0.20	<0.20	<0.20	6.56		377.1	0.46	25.6	27,000	<5.0	13	0.39	0.27	<0.015	<0.015	5.9
HZ-MW-33	Intermediate	25 to 35	-	11/28/16	6.33		Kane	<0.20	<0.20	**0.48**	<0.20	7.39		242.0										
				7/24/18	6.87		Kane	<1.00	<0.20	<1.00	<0.20	7.02	17.0	214.0	0.00									
				9/12/18	7.35		Kane	<1.00	<0.50	**1.11**	<0.20	6.84	15.2	237.0	0.25	103.4	<100	14.2	6.54	<0.100	<0.00863	<0.0162	<0.0151	2.08
				12/6/18	7.19		Kane	<1.00	<0.50	**2.06**	**0.303**	6.55	14.1	259.5	0.21	48.1	<100	19.1	7.87	<0.100	<0.00863	<0.0162	<0.0151	2.36
				5/31/19	6.82		Kane	**0.51**	<0.20	**1.7**	<0.20	6.77	15.6	271.0	0.14	-12.5	<56	16	7.3	<0.050	0.0027	<0.0005	<0.0005	<1.0
HZ-MW-34	Shallow	15 to 25	-	11/28/16	4.81		Kane	**7.2**	**14**	**44**	**3.1**	6.64		272.0										
				9/17/18	6.68		Kane	**8.05**	**16.5**	**40.6**	**2.97**	6.12	17.1	265.0	0.32	152	<100	17.7	10.4	<0.100	0.0191	<0.0162	<0.0151	3.87
				12/7/18	5.77		Kane	**4.63**	**12.7**	**32.6**	<0.20	6.18	15.9	383.7	0.10	0.9	5,750	7.8	14.2	<0.100	<0.00863	<0.0162	<0.0151	3.96
				5/31/19	5.88		Kane	**0.83**	**3.3**	**24**	**0.26**	6.46	14.7	550.0	0.16	-17.2	10,000	5.7	13	<0.050	1.1	<0.05	<0.05	42
				7/17/19	6.41		Kane	**1.4**	**3.3**	**20**	**0.28**	6.24	17.3	508.5	0.08	-158.7	11,000	5.2	13	<0.050	3.1	<0.00050	<0.0005	24
				10/23/19	6.60		Kane	<1.0	<1.0	**110**	**0.97**	6.25	16.2	258.4	0.07	24.7	4,900	17	9	0.69	7.7	<0.0005	<0.0005	5.8
				1/27/20	5.22		Kane	<1.0	**2.6**	**120**	**31**	6.25	14.0	570.1	0.14	48.8	6,200	11	14	0.67	11	<0.00022	<0.00029	2.3
				4/14/20	5.83		Kane	<1.0	**1.6**	**100**	**130**	6.50	13.8	646.0	0.21	-21.8	11,000	5.1	13	0.68	16	<0.00022	0.0043	2.1
S-MW-1	Shallow	5.5 to 15.5	43.527	9/20/16	6.96	36.57	Kane	**150**	<1.0	<1.0	*<1.0*	6.48		303.0										
				10/24/16	4.64	38.89	Kane	**17**	<0.20	<0.20	<0.20	6.74	16.5	140.0										
				10/23/18	6.80	36.73	Kane	**9.1**	<0.50	<1.0	<0.20	6.59		161.0										
				6/6/19	6.00	37.53	Kane	**8.9**	<0.20	<0.20	<0.20	6.25	14.4	256.6	3.46	5	<56	50	4.6	<0.050	<0.001	<0.0005	<0.0005	1.4
				7/24/19	6.61	36.92	Kane	**6.5**	<0.20	<0.20	<0.020	6.01	18.8	200.8	3.10	-74.5	<56	26	4.8	0.15	<0.001	<0.0005	<0.0005	<1.0
				10/23/19	6.18	37.35	Kane	**7.3**	<0.20	<0.20	<0.020	5.92	15.4	162.8	3.82	164.3	<56	23	4.2	<0.050	<0.001	<0.0005	<0.0005	<1.0
				1/21/20	4.78	38.75	Kane	**3.4**	<0.20	<0.20	<0.020	6.32	11.0	236.2	4.38	105.9	<56	42	3.7	<0.050	<0.00055	<0.00022	<0.00029	<1.0
				4/23/20	5.01	38.52	Kane	**3.5**	<0.20	<0.20	<0.020	6.13	11.1	324.2	4.58	1.3	<56	57	4.4	<0.050	<0.00055	<0.00022	<0.00029	<1.0
S-MW-2	Shallow *Decommissioned*	5 to 15	42.297	9/20/16	6.21	36.09	Kane	**47**	**7**	**26**	*<0.40*	6.41		339.0										
				10/24/16	3.95	38.35	Kane	**35**	**20**	**69**	**5.1**	6.83	17.8	349.0										
				9/21/18	6.03	36.27	Kane	**10.3**	**4.74**	**3.66**	<0.20	6.80	18.4	246.0	0.12	105.6	<100	19.3	4.29	<0.100	<0.00863	<0.0162	<0.0151	2.25
				1/2/19	4.40	37.90	Kane	**7.55**	**4.2**	**5.02**	<0.20	6.45		278.4	0.11	34.7	<100	19	4.74	<0.100	<0.00863	<0.0162	<0.0151	1.02
				6/6/19	5.14	37.16	Kane	**5.8**	**3.8**	**3.2**	<0.20	6.68	15.6	363.7	0.25	0.5	<56	35	6.6	<0.050	0.033	<0.0025	<0.0025	1.6
				7/24/19	5.34	36.96	Kane	**6.2**	**3.8**	**4.1**	**0.11**	6.18	18.5	338.0	0.14	-129.2	<56	21	7.4	<0.050	0.027	<0.0005	<0.0005	1.3
				10/17/19	5.26	37.04	Kane	**5.8**	**3.7**	**4.2**	**0.11**	6.34	17.6	245.9	0.10	193.1	<56	26	6.9	<0.050	0.023	<0.0005	<0.0005	1.6
S-MW-2R	Shallow	5 to 15	-	4/24/20	4.46		Kane	**5.5**	**2.4**	**2.0**	**0.029**	6.59	12.9	601.7	0.30	26.7	230	63	6.3	<0.050	0.0024	<0.00022	<0.00029	61
S-MW-3	Intermediate *Decommissioned*	25 to 35	42.807	9/16/16	6.62	36.19	Kane	**0.44**	<0.20	<0.20	<0.20	5.79		116.0										
				10/31/16	4.93	37.88	Kane	**1.7**	<0.20	<0.20	<0.20	6.04	15.9	116.0										
				9/21/18	6.51	36.30	Kane	**3.8**	<0.50	<1.00	<0.20	5.95	14.8	95.0	0.24	80.3	<100	13.7	2.82	<0.100	0.0652	<0.0162	<0.0151	1.24
				1/3/19	5.17	37.64	Kane	**2.28**	<0.50	<1.00	<0.20	5.57		103.2	0.14	49	<100	15	3.63	<0.100	0.0994	<0.0162	<0.0151	0.723
				6/5/19	6.05	36.76	Kane	**2.2**	<0.20	<0.20	<0.20	5.88	14.5	113.8	0.19	-9.3	<56	13	3.6	<0.050	0.49	<0.025	<0.025	<1.0
				7/24/19	6.75	36.06	Kane	**2.8**	<0.20	<0.20	<0.020	5.31	16.5	108.6	0.14	-177.5	<56	12	3.9	<0.050	0.47	<0.0005	<0.0005	<1.0
				10/17/19	6.08	36.73	Kane	**3.7**	<0.20	<0.20	<0.020	5.20	15	84.7	0.14	218.6	<56	13	4.4	<0.050	0.51	<0.0005	<0.0005	<1.0
S-MW-3R	Intermediate	25 to 35	-	4/24/20	5.42		Kane	**6.6**	**0.54**	<0.20	<0.020	6.05	13.6	189.7	0.27	189.7	79	14	5.5	<0.050	1.5	<0.00022	<0.00029	1.1
S-MW-4	Deep	40 to 50	42.367	9/14/16	6.32	36.05	Kane	<0.20	<0.20	<0.20	<0.20	6.74		206.0										
				10/28/16	4.93	37.44	Kane	**0.66**	<0.20	<0.20	<0.20	6.44		191.0										
				7/19/18	6.23	36.14	Kane	**1.25**	<0.50	<1.00	<0.20	6.85	14.6	183.0	0.46									
				9/21/18	6.37	36.00	Kane	<1.00	<0.50	<1.00	<0.20	6.58	15.4	200.0	0.08	95.8	621	15	6.13	0.133	0.0092	<0.0162	<0.0151	2.37
				1/2/19	5.90	36.47	Kane	<1.00	<0.50	<1.00	<0.20	6.15		202.9	0.09	56.9	449	14.5	6.18	<0.100	0.0132	<0.0162	<0.0151	1.52
				6/5/19	6.04	36.33	Kane	**0.56**	<0.20	<0.20	<0.20	6.17	14.7	153.2	0.15	-4.6	410	15	4.5	<0.050	0.084	<0.005	<0.005	<1.0

Table 1
Bothell Service Center Simon Son
Groundwater Analytical Results

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)
S-MW-5	Shallow	15 to 25	41.357	10/28/16	4.56	36.80	Kane	**340**	<4.0	<4.0	*<4.0*	6.68	18.0	259.0										
				9/24/18	6.07	35.29	Kane	**530**	<5.0	<10	*<2.0*	6.38	16.2	164.0	2.17	48.5	<100	12.6	6.05	<0.100	<0.00863	<0.0162	<0.0151	1.36
				12/27/18	3.90	37.46	Kane	**1,690**	**6.03**	**16.7**	<0.20	6.31		235.5	0.98	58.2	<100	21.6	6.56	<0.100	<0.00863	<0.0162	<0.0151	0.506
				6/5/19	5.20	36.16	Kane	**880**	*<10*	<10	*<10*	6.57	15.2	205.1	1.81	7.3	<56	19	5.9	<0.050	<0.001	<0.0005	<0.0005	<1.0
				7/24/19	5.72	35.64	Kane	**530**	<4.0	<4.0	*<0.40*	6.22	17.6	169.8	1.93	-76.1	<56	15	7.5	<0.050	<0.001	<0.0005	<0.0005	<1.0
				10/17/19	5.88	35.48	Kane	**820**	<4.0	<4.0	*<0.40*	6.05	15.8	159.8	1.78	198.6	<56	17	5.3	<0.050	<0.001	<0.0005	<0.0005	<1.0
				1/21/20	5.00	36.36	Kane	**780**	<4.0	<4.0	*<0.40*	6.65	12.8	195.6	1.30	74.8	<56	22	6.1	<0.050	<0.00055	<0.00022	<0.00029	<1.0
				4/23/20	4.85	37.52	Kane	**1,500**	<10	<10	<1.0	6.37	13.4	217.3	2.11	-8.3	57	15	5.1	<0.050	<0.00055	<0.00022	<0.00029	<1.0
S-MW-6	Shallow	4 to 14	-	1/3/17	5.51		Kane	<0.20	<0.20	<0.20	<0.20	6.23		155.0										
				1/11/19	5.54		Kane	<1.00	<0.50	<1.00	<0.20	6.11		129.0										
				6/7/19	7.57		Kane	<0.20	<0.20	<0.20	<0.20	6.1	13.5	182.8	4.90	8.7	<56	29	7.3	<0.050	0.0016	<0.0005	<0.0005	<1.0
MTCA Method A Cleanup Level[1]								5.0	5.0		0.2													
MTCA Method B Cleanup Level[2]										16							11,200							

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

Notes:

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

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

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

April 21, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-075

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 13, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

Case Narrative

Samples were collected on April 13, 2020 and received by the laboratory on April 13, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29:W**					
Laboratory ID:	04-075-01					
Dichlorodifluoromethane	ND	1.9	EPA 8260D	4-15-20	4-15-20	
Chloromethane	ND	5.0	EPA 8260D	4-15-20	4-15-20	
Vinyl Chloride	5.8	1.0	EPA 8260D	4-15-20	4-15-20	
Bromomethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Chloroethane	ND	5.0	EPA 8260D	4-15-20	4-15-20	
Trichlorofluoromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Iodomethane	ND	5.0	EPA 8260D	4-15-20	4-15-20	
Methylene Chloride	ND	5.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
2,2-Dichloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
(cis) 1,2-Dichloroethene	130	1.0	EPA 8260D	4-15-20	4-15-20	
Bromochloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Chloroform	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1,1-Trichloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Carbon Tetrachloride	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloropropene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Trichloroethene	5.2	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Dibromomethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Bromodichloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
2-Chloroethyl Vinyl Ether	ND	6.5	EPA 8260D	4-15-20	4-15-20	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260D	4-15-20	4-15-20	

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29:W**					
Laboratory ID:	04-075-01					
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Tetrachloroethene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,3-Dichloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Dibromochloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromoethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Chlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Bromoform	ND	5.0	EPA 8260D	4-15-20	4-15-20	
Bromobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
2-Chlorotoluene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
4-Chlorotoluene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,3-Dichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,4-Dichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260D	4-15-20	4-15-20	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Hexachlorobutadiene	ND	5.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*120*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-26:W**					
Laboratory ID:	04-075-02					
Dichlorodifluoromethane	ND	0.74	EPA 8260D	4-15-20	4-15-20	
Chloromethane	ND	2.0	EPA 8260D	4-15-20	4-15-20	
Vinyl Chloride	ND	0.040	EPA 8260D/SIM	4-15-20	4-15-20	
Bromomethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Chloroethane	ND	2.0	EPA 8260D	4-15-20	4-15-20	
Trichlorofluoromethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Iodomethane	ND	2.0	EPA 8260D	4-15-20	4-15-20	
Methylene Chloride	ND	2.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
2,2-Dichloropropane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
(cis) 1,2-Dichloroethene	4.9	0.40	EPA 8260D	4-15-20	4-15-20	
Bromochloromethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Chloroform	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Carbon Tetrachloride	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloropropene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Trichloroethene	2.5	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloropropane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Dibromomethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Bromodichloromethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260D	4-15-20	4-15-20	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-15-20	4-15-20	

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
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Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-26:W**					
Laboratory ID:	04-075-02					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Tetrachloroethene	73	0.40	EPA 8260D	4-15-20	4-15-20	
1,3-Dichloropropane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Dibromochloromethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromoethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Chlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Bromoform	ND	2.0	EPA 8260D	4-15-20	4-15-20	
Bromobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
2-Chlorotoluene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
4-Chlorotoluene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	4-15-20	4-15-20	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Hexachlorobutadiene	ND	2.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*120*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*107*	*78-125*				

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-23:W**					
Laboratory ID:	04-075-03					
Dichlorodifluoromethane	ND	0.37	EPA 8260D	4-15-20	4-15-20	
Chloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Vinyl Chloride	0.044	0.020	EPA 8260D/SIM	4-15-20	4-15-20	
Bromomethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Iodomethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chloroform	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Trichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Dibromomethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260D	4-15-20	4-15-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-23:W**					
Laboratory ID:	04-075-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromoform	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Bromobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*115*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0415W1					
Dichlorodifluoromethane	ND	0.37	EPA 8260D	4-15-20	4-15-20	
Chloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-15-20	4-15-20	
Bromomethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Iodomethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chloroform	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Trichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Dibromomethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260D	4-15-20	4-15-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	

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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0415W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromoform	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Bromobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*117*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

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Samples Submitted: April 13, 2020
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0415W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.9**	**11.2**	10.0	10.0	109	112	63-130	3	17	
Benzene	**10.9**	**11.1**	10.0	10.0	109	111	76-125	2	19	
Trichloroethene	**10.2**	**10.4**	10.0	10.0	102	104	76-121	2	18	
Toluene	**9.92**	**9.93**	10.0	10.0	99	99	80-124	0	18	
Chlorobenzene	**9.84**	**9.80**	10.0	10.0	98	98	75-120	0	19	
Surrogate:										
Dibromofluoromethane					*114*	*114*	*75-127*			
Toluene-d8					*104*	*104*	*80-127*			
4-Bromofluorobenzene					*93*	*96*	*78-125*			

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
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Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29:W**					
Laboratory ID:	04-075-01					
Total Organic Carbon	**3.2**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**HZ-MW-26:W**					
Laboratory ID:	04-075-02					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**HZ-MW-23:W**					
Laboratory ID:	04-075-03					
Total Organic Carbon	**92**	1.0	SM 5310B	4-20-20	4-20-20	

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-20-20	4-20-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-01								
	ORIG	DUP							
Total Organic Carbon	**3.22**	**3.31**	NA	NA	NA	NA	3	20	
MATRIX SPIKE									
Laboratory ID:	04-075-01								
	MS		MS		MS				
Total Organic Carbon	**13.9**		10.0	3.22	107	85-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W1								
	SB		SB		SB				
Total Organic Carbon	**10.9**		10.0	NA	109	88-127	NA	NA	

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29:W**					
Laboratory ID:	04-075-01					
Iron	**11000**	56	EPA 6010D	4-13-20	4-15-20	
Client ID:	**HZ-MW-26:W**					
Laboratory ID:	04-075-02					
Iron	**ND**	56	EPA 6010D	4-13-20	4-15-20	
Client ID:	**HZ-MW-23:W**					
Laboratory ID:	04-075-03					
Iron	**16000**	56	EPA 6010D	4-13-20	4-15-20	

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DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0413F1					
Iron	**ND**	56	EPA 6010D	4-13-20	4-15-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-075-01										
	ORIG	DUP									
Iron	**10600**	**10500**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	04-075-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**115000**	**117000**	100000	100000	10600	**105**	**106**	75-125	1	20	

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Samples Submitted: April 13, 2020
Laboratory Reference: 2004-075
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29:W**					
Laboratory ID:	04-075-01					
Chloride	**14**	2.0	SM 4500-Cl E	4-15-20	4-15-20	
Client ID:	**HZ-MW-26:W**					
Laboratory ID:	04-075-02					
Chloride	**14**	2.0	SM 4500-Cl E	4-15-20	4-15-20	
Client ID:	**HZ-MW-23:W**					
Laboratory ID:	04-075-03					
Chloride	**12**	2.0	SM 4500-Cl E	4-15-20	4-15-20	

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
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CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0415W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-15-20	4-15-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-070-06								
	ORIG	DUP							
Chloride	**56.0**	**55.9**	NA	NA	NA	NA	0	17	
MATRIX SPIKE									
Laboratory ID:	04-070-06								
	MS		MS		MS				
Chloride	**157**		100	56.0	101	80-116	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0415W1								
	SB		SB		SB				
Chloride	**49.8**		50.0	NA	100	90-110	NA	NA	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29:W**					
Laboratory ID:	04-075-01					
Sulfate	**8.3**	5.0	ASTM D516-11	4-16-20	4-16-20	
Client ID:	**HZ-MW-26:W**					
Laboratory ID:	04-075-02					
Sulfate	**24**	5.0	ASTM D516-11	4-16-20	4-16-20	
Client ID:	**HZ-MW-23:W**					
Laboratory ID:	04-075-03					
Sulfate	**ND**	5.0	ASTM D516-11	4-16-20	4-16-20	

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SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0416W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-16-20	4-16-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-02								
	ORIG	DUP							
Sulfate	**24.1**	**23.5**	NA	NA	NA	NA	3	10	
MATRIX SPIKE									
Laboratory ID:	04-075-02								
	MS		MS		MS				
Sulfate	**43.7**		20.0	24.1	98	73-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0416W1								
	SB		SB		SB				
Sulfate	**10.8**		10.0	NA	108	89-113	NA	NA	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29:W**					
Laboratory ID:	04-075-01					
Ammonia	**3.0**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**HZ-MW-26:W**					
Laboratory ID:	04-075-02					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**HZ-MW-23:W**					
Laboratory ID:	04-075-03					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	

Date of Report: April 21, 2020
Samples Submitted: April 13, 2020
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Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-01								
	ORIG	DUP							
Ammonia	**3.00**	**2.99**	NA	NA	NA	NA	0	12	
MATRIX SPIKE									
Laboratory ID:	04-075-01								
	MS		MS		MS				
Ammonia	**7.76**		5.00	3.00	95	75-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0417W1								
	SB		SB		SB				
Ammonia	**4.95**		5.00	NA	99	85-110	NA	NA	

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-29:W**					
Laboratory ID:	04-075-01					
Methane	**19000**	110	RSK 175	4-14-20	4-14-20	
Ethane	**ND**	0.22	RSK 175	4-14-20	4-14-20	
Ethene	**ND**	0.29	RSK 175	4-14-20	4-14-20	
Client ID:	**HZ-MW-26:W**					
Laboratory ID:	04-075-02					
Methane	**59**	0.55	RSK 175	4-14-20	4-14-20	
Ethane	**ND**	0.22	RSK 175	4-14-20	4-14-20	
Ethene	**ND**	0.29	RSK 175	4-14-20	4-14-20	
Client ID:	**HZ-MW-23:W**					
Laboratory ID:	04-075-03					
Methane	**7300**	55	RSK 175	4-14-20	4-14-20	
Ethane	**ND**	0.22	RSK 175	4-14-20	4-14-20	
Ethene	**ND**	0.29	RSK 175	4-14-20	4-14-20	

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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0414W1					
Methane	**ND**	0.55	RSK 175	4-14-20	4-14-20	
Ethane	**ND**	0.22	RSK 175	4-14-20	4-14-20	
Ethene	**ND**	0.29	RSK 175	4-14-20	4-14-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0414W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**21.5**	**21.5**	22.1	22.1	97	97	75-125	0	25	
Ethane	**39.7**	**39.6**	41.6	41.6	95	95	75-125	0	25	
Ethene	**36.5**	**36.1**	38.8	38.8	94	93	75-125	1	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

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

Laboratory Number: 04-075

Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BS CSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

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

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	~~HEM (oil and grease) 1664A~~ TOC	dissolved Fe	chloride	Sulfate	ammonia-N	~~% Moisture~~ RSK 175
1	HZ-MW-29:W	4/13/20	10:10	GW	9						X											X	X	X	X	X	X
2	HZ-MW-26:W	4/13/20	11:57	GW	9						X											X	X	X	X	X	X
3	HZ-MW-23:W	4/13/20	13:47	GW	9						X											X	X	X	X	X	X

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/13/20	14:30
Received		COE	4/13/20	1430
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Lab filter
RSK = methane, ethane, ethene
↳ low detection limit (3-4 µg/L)
low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

April 24, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-084

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 14, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

Case Narrative

Samples were collected on April 14, 2020 and received by the laboratory on April 14, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1:W**					
Laboratory ID:	04-084-01					
Dichlorodifluoromethane	ND	0.37	EPA 8260D	4-15-20	4-15-20	
Chloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Vinyl Chloride	0.15	0.020	EPA 8260D/SIM	4-15-20	4-15-20	
Bromomethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Iodomethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
(cis) 1,2-Dichloroethene	1.2	0.20	EPA 8260D	4-15-20	4-15-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chloroform	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Trichloroethene	1.1	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Dibromomethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260D	4-15-20	4-15-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
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VOLATILE ORGANICS EPA 8260D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1:W**					
Laboratory ID:	04-084-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Tetrachloroethene	33	0.20	EPA 8260D	4-15-20	4-15-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromoform	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Bromobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*118*	*75-127*				
Toluene-d8	*105*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34:W**					
Laboratory ID:	04-084-02					
Dichlorodifluoromethane	ND	1.9	EPA 8260D	4-15-20	4-15-20	
Chloromethane	ND	5.0	EPA 8260D	4-15-20	4-15-20	
Vinyl Chloride	130	1.0	EPA 8260D	4-15-20	4-15-20	
Bromomethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Chloroethane	ND	5.0	EPA 8260D	4-15-20	4-15-20	
Trichlorofluoromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Iodomethane	ND	5.0	EPA 8260D	4-15-20	4-15-20	
Methylene Chloride	ND	5.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
2,2-Dichloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
(cis) 1,2-Dichloroethene	100	1.0	EPA 8260D	4-15-20	4-15-20	
Bromochloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Chloroform	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1,1-Trichloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Carbon Tetrachloride	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloropropene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Trichloroethene	1.6	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Dibromomethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Bromodichloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
2-Chloroethyl Vinyl Ether	ND	6.5	EPA 8260D	4-15-20	4-15-20	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260D	4-15-20	4-15-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-34:W**					
Laboratory ID:	04-084-02					
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Tetrachloroethene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,3-Dichloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Dibromochloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromoethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Chlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Bromoform	ND	5.0	EPA 8260D	4-15-20	4-15-20	
Bromobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
2-Chlorotoluene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
4-Chlorotoluene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,3-Dichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,4-Dichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260D	4-15-20	4-15-20	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Hexachlorobutadiene	ND	5.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*119*	*75-127*				
Toluene-d8	*106*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-24:W**					
Laboratory ID:	04-084-03					
Dichlorodifluoromethane	ND	0.74	EPA 8260D	4-15-20	4-15-20	
Chloromethane	ND	2.0	EPA 8260D	4-15-20	4-15-20	
Vinyl Chloride	30	0.40	EPA 8260D	4-15-20	4-15-20	
Bromomethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Chloroethane	ND	2.0	EPA 8260D	4-15-20	4-15-20	
Trichlorofluoromethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Iodomethane	ND	2.0	EPA 8260D	4-15-20	4-15-20	
Methylene Chloride	ND	2.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
2,2-Dichloropropane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
(cis) 1,2-Dichloroethene	73	0.40	EPA 8260D	4-15-20	4-15-20	
Bromochloromethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Chloroform	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Carbon Tetrachloride	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloropropene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Trichloroethene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloropropane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Dibromomethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Bromodichloromethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260D	4-15-20	4-15-20	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-15-20	4-15-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-24:W**					
Laboratory ID:	04-084-03					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Tetrachloroethene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,3-Dichloropropane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Dibromochloromethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromoethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Chlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Bromoform	ND	2.0	EPA 8260D	4-15-20	4-15-20	
Bromobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	4-15-20	4-15-20	
2-Chlorotoluene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
4-Chlorotoluene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	4-15-20	4-15-20	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Hexachlorobutadiene	ND	2.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	4-15-20	4-15-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*124*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*107*	*78-125*				

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0415W1					
Dichlorodifluoromethane	ND	0.37	EPA 8260D	4-15-20	4-15-20	
Chloromethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-15-20	4-15-20	
Bromomethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chloroethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Iodomethane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-15-20	4-15-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chloroform	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Trichloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Dibromomethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260D	4-15-20	4-15-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-15-20	4-15-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0415W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Bromoform	ND	1.0	EPA 8260D	4-15-20	4-15-20	
Bromobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-15-20	4-15-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-15-20	4-15-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-15-20	4-15-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*117*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0415W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.9**	**11.2**	10.0	10.0	109	112	63-130	3	17	
Benzene	**10.9**	**11.1**	10.0	10.0	109	111	76-125	2	19	
Trichloroethene	**10.2**	**10.4**	10.0	10.0	102	104	76-121	2	18	
Toluene	**9.92**	**9.93**	10.0	10.0	99	99	80-124	0	18	
Chlorobenzene	**9.84**	**9.80**	10.0	10.0	98	98	75-120	0	19	
Surrogate:										
Dibromofluoromethane					*114*	*114*	*75-127*			
Toluene-d8					*104*	*104*	*80-127*			
4-Bromofluorobenzene					*93*	*96*	*78-125*			

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1:W**					
Laboratory ID:	04-084-01					
Total Organic Carbon	**1.6**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**HZ-MW-34:W**					
Laboratory ID:	04-084-02					
Total Organic Carbon	**2.1**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**HZ-MW-24:W**					
Laboratory ID:	04-084-03					
Total Organic Carbon	**5.4**	1.0	SM 5310B	4-20-20	4-20-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-20-20	4-20-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-01								
	ORIG	DUP							
Total Organic Carbon	**3.22**	**3.31**	NA	NA	NA	NA	3	20	
MATRIX SPIKE									
Laboratory ID:	04-075-01								
	MS		MS		MS				
Total Organic Carbon	**13.9**		10.0	3.22	107	85-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W1								
	SB		SB		SB				
Total Organic Carbon	**10.9**		10.0	NA	109	88-127	NA	NA	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1:W**					
Laboratory ID:	04-084-01					
Iron	**ND**	56	EPA 6010D	4-13-20	4-15-20	
Client ID:	**HZ-MW-34:W**					
Laboratory ID:	04-084-02					
Iron	**11000**	56	EPA 6010D	4-13-20	4-15-20	
Client ID:	**HZ-MW-24:W**					
Laboratory ID:	04-084-03					
Iron	**14000**	56	EPA 6010D	4-13-20	4-15-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0414F1					
Iron	**ND**	56	EPA 6010D	4-14-20	4-15-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-075-01										
	ORIG	DUP									
Iron	**10600**	**10500**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	04-075-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**115000**	**117000**	100000	100000	10600	**105**	**106**	75-125	1	20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1:W**					
Laboratory ID:	04-084-01					
Chloride	**6.3**	2.0	SM 4500-Cl E	4-15-20	4-15-20	
Client ID:	**HZ-MW-34:W**					
Laboratory ID:	04-084-02					
Chloride	**13**	2.0	SM 4500-Cl E	4-15-20	4-15-20	
Client ID:	**HZ-MW-24:W**					
Laboratory ID:	04-084-03					
Chloride	**19**	2.0	SM 4500-Cl E	4-15-20	4-15-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0415W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-15-20	4-15-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-070-06								
	ORIG	DUP							
Chloride	**56.0**	**55.9**	NA	NA	NA	NA	0	17	
MATRIX SPIKE									
Laboratory ID:	04-070-06								
	MS		MS		MS				
Chloride	**157**		100	56.0	101	80-116	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0415W1								
	SB		SB		SB				
Chloride	**49.8**		50.0	NA	100	90-110	NA	NA	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1:W**					
Laboratory ID:	04-084-01					
Sulfate	**16**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**HZ-MW-34:W**					
Laboratory ID:	04-084-02					
Sulfate	**5.1**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**HZ-MW-24:W**					
Laboratory ID:	04-084-03					
Sulfate	**13**	5.0	ASTM D516-11	4-20-20	4-20-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-20-20	4-20-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-093-02								
	ORIG	DUP							
Sulfate	**13.1**	**12.7**	NA	NA	NA	NA	3	10	
MATRIX SPIKE									
Laboratory ID:	04-093-02								
	MS		MS		MS				
Sulfate	**22.1**		10.0	13.1	90	73-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W1								
	SB		SB		SB				
Sulfate	**10.7**		10.0	NA	107	89-113	NA	NA	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1:W**					
Laboratory ID:	04-084-01					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**HZ-MW-34:W**					
Laboratory ID:	04-084-02					
Ammonia	**0.68**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**HZ-MW-24:W**					
Laboratory ID:	04-084-03					
Ammonia	**4.1**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-01								
	ORIG	DUP							
Ammonia	**3.00**	**2.99**	NA	NA	NA	NA	0	12	
MATRIX SPIKE									
Laboratory ID:	04-075-01								
	MS		MS		MS				
Ammonia	**7.76**		5.00	3.00	95	75-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0417W1								
	SB		SB		SB				
Ammonia	**4.95**		5.00	NA	99	85-110	NA	NA	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-1:W**					
Laboratory ID:	04-084-01					
Methane	**12000**	83	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**HZ-MW-34:W**					
Laboratory ID:	04-084-02					
Methane	**16000**	110	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**4.3**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**HZ-MW-24:W**					
Laboratory ID:	04-084-03					
Methane	**4000**	28	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**2.7**	0.29	RSK 175	4-22-20	4-22-20	

Date of Report: April 24, 2020
Samples Submitted: April 14, 2020
Laboratory Reference: 2004-084
Project: 82302-9.4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Methane	**ND**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0422W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**23.1**	**24.1**	22.1	22.1	105	109	75-125	4	25	
Ethane	**43.0**	**44.8**	41.6	41.6	103	108	75-125	4	25	
Ethene	**39.7**	**44.3**	38.8	38.8	102	114	75-125	11	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

OnSite Environmental Inc.

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

Chain of Custody

Laboratory Number: 04-084

Company: Kane Environmental
Project Number: 82302 - 9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

Turnaround Request (in working days) (Check One)
- ☐ Same Day ☐ 1 Day
- ☐ 2 Days ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ ______ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	~~HEM (oil and grease) 1664A~~ TOC	dissolved Fe	chloride	sulfate	ammonia-N	~~% Moisture~~ RSK
1	HZ-MW-1:W	4/14/20	0934	GW	9						X											O	X	X	X	X	X
2	HZ-MW-34:W	4/14/20	1114	GW	9						X											↓	X	X	X	X	X
3	HZ-MW-24:W	4/14/20	1254	GW	9						X											↓	X	X	X	X	X

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/14/20	14:05
Received	[signature]	OSE	4/14/20	1405
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

lab filter
RSK = methane, ethane, ethene
→ low detection limits ~~[illegible]~~
~~[illegible]~~ (3-4 µg/L)
low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

April 23, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-093

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 15, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

Case Narrative

Samples were collected on April 15, 2020 and received by the laboratory on April 15, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S:W**					
Laboratory ID:	04-093-01					
Dichlorodifluoromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	3.0	0.40	EPA 8260D	4-17-20	4-17-20	
Bromomethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	2.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	4.3	0.40	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	3.5	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S:W**					
Laboratory ID:	04-093-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	55	0.40	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.50	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14D:W**					
Laboratory ID:	04-093-02					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	10	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	0.76	0.20	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	10	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	10	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	10	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	110	2.0	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	24	2.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	10	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	4-17-20	4-17-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14D:W**					
Laboratory ID:	04-093-02					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	400	2.0	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	10	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	2.5	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	10	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15S:W**					
Laboratory ID:	04-093-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15S:W**					
Laboratory ID:	04-093-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	3.6	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*108*	*78-125*				

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D:W**					
Laboratory ID:	04-093-04					
Dichlorodifluoromethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	100	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	ND	2.0	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	100	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	100	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	100	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	400	20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	240	20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	100	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260D	4-17-20	4-17-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-15D:W**					
Laboratory ID:	04-093-04					
1,1,2-Trichloroethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	3300	20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	100	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	100	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*75-127*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0417W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.62**	**10.1**	10.0	10.0	96	101	63-130	5	17	
Benzene	**9.63**	**9.91**	10.0	10.0	96	99	76-125	3	19	
Trichloroethene	**9.74**	**9.59**	10.0	10.0	97	96	76-121	2	18	
Toluene	**9.52**	**8.70**	10.0	10.0	95	87	80-124	9	18	
Chlorobenzene	**10.6**	**10.8**	10.0	10.0	106	108	75-120	2	19	
Surrogate:										
Dibromofluoromethane					*95*	*99*	*75-127*			
Toluene-d8					*94*	*92*	*80-127*			
4-Bromofluorobenzene					*103*	*101*	*78-125*			

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S:W**					
Laboratory ID:	04-093-01					
Total Organic Carbon	**2.1**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**HZ-MW-14D:W**					
Laboratory ID:	04-093-02					
Total Organic Carbon	**1.2**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**HZ-MW-15S:W**					
Laboratory ID:	04-093-03					
Total Organic Carbon	**1.3**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**HZ-MW-15D:W**					
Laboratory ID:	04-093-04					
Total Organic Carbon	**1.2**	1.0	SM 5310B	4-20-20	4-20-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-20-20	4-20-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-01								
	ORIG	DUP							
Total Organic Carbon	**3.22**	**3.31**	NA	NA	NA	NA	3	20	
MATRIX SPIKE									
Laboratory ID:	04-075-01								
	MS		MS		MS				
Total Organic Carbon	**13.9**		10.0	3.22	107	85-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W1								
	SB		SB		SB				
Total Organic Carbon	**10.9**		10.0	NA	109	88-127	NA	NA	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S:W**					
Laboratory ID:	04-093-01					
Iron	**ND**	56	EPA 6010D	4-15-20	4-15-20	
Client ID:	**HZ-MW-14D:W**					
Laboratory ID:	04-093-02					
Iron	**ND**	56	EPA 6010D	4-15-20	4-15-20	
Client ID:	**HZ-MW-15S:W**					
Laboratory ID:	04-093-03					
Iron	**ND**	56	EPA 6010D	4-15-20	4-15-20	
Client ID:	**HZ-MW-15D:W**					
Laboratory ID:	04-093-04					
Iron	**120**	56	EPA 6010D	4-15-20	4-15-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0415F1					
Iron	**ND**	56	EPA 6010D	4-15-20	4-15-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-075-01										
	ORIG	DUP									
Iron	**10600**	**10500**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	04-075-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**115000**	**117000**	100000	100000	10600	**105**	**106**	75-125	1	20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S:W**					
Laboratory ID:	04-093-01					
Chloride	**8.1**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**HZ-MW-14D:W**					
Laboratory ID:	04-093-02					
Chloride	**52**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**HZ-MW-15S:W**					
Laboratory ID:	04-093-03					
Chloride	**2.1**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**HZ-MW-15D:W**					
Laboratory ID:	04-093-04					
Chloride	**16**	2.0	SM 4500-Cl E	4-21-20	4-21-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-21-20	4-21-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-109-03								
	ORIG	DUP							
Chloride	**ND**	**ND**	NA	NA	NA	NA	NA	17	
MATRIX SPIKE									
Laboratory ID:	04-109-03								
	MS		MS		MS				
Chloride	**48.7**		50.0	ND	97	80-116	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0421W1								
	SB		SB		SB				
Chloride	**45.3**		50.0	NA	91	90-110	NA	NA	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S:W**					
Laboratory ID:	04-093-01					
Sulfate	**18**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**HZ-MW-14D:W**					
Laboratory ID:	04-093-02					
Sulfate	**13**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**HZ-MW-15S:W**					
Laboratory ID:	04-093-03					
Sulfate	**14**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**HZ-MW-15D:W**					
Laboratory ID:	04-093-04					
Sulfate	**9.6**	5.0	ASTM D516-11	4-20-20	4-20-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-20-20	4-20-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-093-02								
	ORIG	DUP							
Sulfate	**13.1**	**12.7**	NA	NA	NA	NA	3	10	
MATRIX SPIKE									
Laboratory ID:	04-093-02								
	MS		MS		MS				
Sulfate	**22.1**		10.0	13.1	90	73-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W1								
	SB		SB		SB				
Sulfate	**10.7**		10.0	NA	107	89-113	NA	NA	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S:W**					
Laboratory ID:	04-093-01					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**HZ-MW-14D:W**					
Laboratory ID:	04-093-02					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**HZ-MW-15S:W**					
Laboratory ID:	04-093-03					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**HZ-MW-15D:W**					
Laboratory ID:	04-093-04					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-01								
	ORIG	DUP							
Ammonia	**3.00**	**2.99**	NA	NA	NA	NA	0	12	
MATRIX SPIKE									
Laboratory ID:	04-075-01								
	MS		MS		MS				
Ammonia	**7.76**		5.00	3.00	95	75-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0417W1								
	SB		SB		SB				
Ammonia	**4.95**		5.00	NA	99	85-110	NA	NA	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-14S:W**					
Laboratory ID:	04-093-01					
Methane	**6900**	42	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**19**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**HZ-MW-14D:W**					
Laboratory ID:	04-093-02					
Methane	**1800**	11	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**HZ-MW-15S:W**					
Laboratory ID:	04-093-03					
Methane	**1.2**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**HZ-MW-15D:W**					
Laboratory ID:	04-093-04					
Methane	**3000**	17	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	

Date of Report: April 23, 2020
Samples Submitted: April 15, 2020
Laboratory Reference: 2004-093
Project: 82302-9.4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Methane	**ND**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0422W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**23.1**	**24.1**	22.1	22.1	105	109	75-125	4	25	
Ethane	**43.0**	**44.8**	41.6	41.6	103	108	75-125	4	25	
Ethene	**39.7**	**44.3**	38.8	38.8	102	114	75-125	11	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

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

Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by:

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☑ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 04-093

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	~~HEM (oil and grease) 1664A~~ TOC	dissolved Fe	chloride	sulfate	ammonia-N	% Moisture RSK
1	HZ-MW-14S:W	4/15/20	0903	GW	9						X											X	X	X	X	X	X
2	HZ-MW-14D:W	4/15/20	0954	GW	9						X											X	X	X	X	X	X
3	HZ-MW-15S:W	4/15/20	1120	GW	9						X											X	X	X	X	X	X
4	HZ-MW-15D:W	4/15/20	1305	GW	9						X											X	X	X	X	X	X

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/15/20	13:45
Received	[illegible]	OSE	4/15/20	1345
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Lab filter
RSK - methane, ethane, ethene
↳ low detection limit (3-4 µg/L)
Low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

April 23, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-109

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 16, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

Case Narrative

Samples were collected on April 16, 2020 and received by the laboratory on April 16, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-42:W**					
Laboratory ID:	04-109-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	27	0.20	EPA 8260D	4-17-20	4-17-20	
Bromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	26	0.20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-42:W**					
Laboratory ID:	04-109-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*109*	*78-125*				

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-43:W**					
Laboratory ID:	04-109-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	5.8	0.20	EPA 8260D	4-17-20	4-17-20	
Bromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	3.8	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	17	0.20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	0.28	0.20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-43:W**					
Laboratory ID:	04-109-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	0.47	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*108*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27:W**					
Laboratory ID:	04-109-03					
Dichlorodifluoromethane	0.52	0.40	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	ND	0.040	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	2.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	0.89	0.40	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	0.51	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-27:W**					
Laboratory ID:	04-109-03					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	75	0.40	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.50	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-127*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-29:W**					
Laboratory ID:	04-109-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-29:W**					
Laboratory ID:	04-109-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
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VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	

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Samples Submitted: April 16, 2020
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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*75-127*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

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Samples Submitted: April 16, 2020
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0417W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.62**	**10.1**	10.0	10.0	96	101	63-130	5	17	
Benzene	**9.63**	**9.91**	10.0	10.0	96	99	76-125	3	19	
Trichloroethene	**9.74**	**9.59**	10.0	10.0	97	96	76-121	2	18	
Toluene	**9.52**	**8.70**	10.0	10.0	95	87	80-124	9	18	
Chlorobenzene	**10.6**	**10.8**	10.0	10.0	106	108	75-120	2	19	
Surrogate:										
Dibromofluoromethane					*95*	*99*	*75-127*			
Toluene-d8					*94*	*92*	*80-127*			
4-Bromofluorobenzene					*103*	*101*	*78-125*			

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-42:W**					
Laboratory ID:	04-109-01					
Total Organic Carbon	**3.5**	1.0	SM 5310B	4-22-20	4-22-20	
Client ID:	**MW-43:W**					
Laboratory ID:	04-109-02					
Total Organic Carbon	**15**	1.0	SM 5310B	4-22-20	4-22-20	
Client ID:	**MW-27:W**					
Laboratory ID:	04-109-03					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-22-20	4-22-20	
Client ID:	**MW-29:W**					
Laboratory ID:	04-109-04					
Total Organic Carbon	**2.0**	1.0	SM 5310B	4-22-20	4-22-20	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-22-20	4-22-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-109-01								
	ORIG	DUP							
Total Organic Carbon	**3.52**	**3.77**	NA	NA	NA	NA	7	20	
MATRIX SPIKE									
Laboratory ID:	04-109-01								
	MS		MS		MS				
Total Organic Carbon	**14.1**		10.0	3.52	106	85-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0422W1								
	SB		SB		SB				
Total Organic Carbon	**10.5**		10.0	NA	105	88-127	NA	NA	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-42:W**					
Laboratory ID:	04-109-01					
Iron	**25000**	56	EPA 6010D	4-16-20	4-22-20	
Client ID:	**MW-43:W**					
Laboratory ID:	04-109-02					
Iron	**6800**	56	EPA 6010D	4-16-20	4-22-20	
Client ID:	**MW-27:W**					
Laboratory ID:	04-109-03					
Iron	**91**	56	EPA 6010D	4-16-20	4-22-20	
Client ID:	**MW-29:W**					
Laboratory ID:	04-109-04					
Iron	**1100**	56	EPA 6010D	4-16-20	4-22-20	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0416F1					
Iron	**ND**	56	EPA 6010D	4-16-20	4-22-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-109-01										
	ORIG	DUP									
Iron	**24900**	**25300**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	04-109-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**123000**	**125000**	100000	100000	24900	**99**	**100**	75-125	1	20	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-42:W**					
Laboratory ID:	04-109-01					
Chloride	**14**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**MW-43:W**					
Laboratory ID:	04-109-02					
Chloride	**7.9**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**MW-27:W**					
Laboratory ID:	04-109-03					
Chloride	**ND**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**MW-29:W**					
Laboratory ID:	04-109-04					
Chloride	**5.5**	2.0	SM 4500-Cl E	4-21-20	4-21-20	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-21-20	4-21-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-109-03							
	ORIG DUP							
Chloride	**ND** **ND**	NA	NA	NA	NA	NA	17	
MATRIX SPIKE								
Laboratory ID:	04-109-03							
	MS	MS		MS				
Chloride	**48.7**	50.0	ND	97	80-116	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0421W1							
	SB	SB		SB				
Chloride	**45.3**	50.0	NA	91	90-110	NA	NA	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-42:W**					
Laboratory ID:	04-109-01					
Sulfate	**ND**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**MW-43:W**					
Laboratory ID:	04-109-02					
Sulfate	**22**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**MW-27:W**					
Laboratory ID:	04-109-03					
Sulfate	**17**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**MW-29:W**					
Laboratory ID:	04-109-04					
Sulfate	**ND**	5.0	ASTM D516-11	4-20-20	4-20-20	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-20-20	4-20-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-093-02								
	ORIG	DUP							
Sulfate	**13.1**	**12.7**	NA	NA	NA	NA	3	10	
MATRIX SPIKE									
Laboratory ID:	04-093-02								
	MS		MS		MS				
Sulfate	**22.1**		10.0	13.1	90	73-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W1								
	SB		SB		SB				
Sulfate	**10.7**		10.0	NA	107	89-113	NA	NA	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-42:W**					
Laboratory ID:	04-109-01					
Ammonia	**0.21**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**MW-43:W**					
Laboratory ID:	04-109-02					
Ammonia	**0.49**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**MW-27:W**					
Laboratory ID:	04-109-03					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	
Client ID:	**MW-29:W**					
Laboratory ID:	04-109-04					
Ammonia	**0.25**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-17-20	4-17-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-01								
	ORIG	DUP							
Ammonia	**3.00**	**2.99**	NA	NA	NA	NA	0	12	
MATRIX SPIKE									
Laboratory ID:	04-075-01								
	MS		MS		MS				
Ammonia	**7.76**		5.00	3.00	95	75-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0417W1								
	SB		SB		SB				
Ammonia	**4.95**		5.00	NA	99	85-110	NA	NA	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-42:W**					
Laboratory ID:	04-109-01					
Methane	**8900**	55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**12**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**MW-43:W**					
Laboratory ID:	04-109-02					
Methane	**510**	2.8	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**5.5**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**MW-27:W**					
Laboratory ID:	04-109-03					
Methane	**ND**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**MW-29:W**					
Laboratory ID:	04-109-04					
Methane	**93**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	

Date of Report: April 23, 2020
Samples Submitted: April 16, 2020
Laboratory Reference: 2004-109
Project: 82302-9.4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Methane	**ND**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0422W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**23.1**	**24.1**	22.1	22.1	105	109	75-125	4	25	
Ethane	**43.0**	**44.8**	41.6	41.6	103	108	75-125	4	25	
Ethene	**39.7**	**44.3**	38.8	38.8	102	114	75-125	11	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

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

Laboratory Number: 04-109

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	~~HEM (oil and grease) 1664A~~ TOC	d issolved Fe	Chloride	Sulfate	ammonia - N	~~% Moisture~~ RSK
1	MW-42:W	4/16/20	0946	GW	9					●	X											X	X	X	X	X	X
2	MW-43:W	4/16/20	1053	GW	9				4ml	●	X											X	X	X	X	X	X
3	MW-27:W	4/16/20	1234	GW	9					●	X											X	X	X	X	X	X
4	MW-29:W	4/16/20	1336	GW	9						X											X	X	X	X	X	X

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/16/20	14:15
Received	Nolan Lisew	OSE	4/16/20	14:15
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Lab filter
RSK = methane, ethane, ethene
↳ Low detection limits (3-4 µg/L)
Low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

April 28, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-117

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 17, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 28, 2020
Samples Submitted: April 17, 2020
Laboratory Reference: 2004-117
Project: 82302-9.4

Case Narrative

Samples were collected on April 17, 2020 and received by the laboratory on April 17, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: April 28, 2020
Samples Submitted: April 17, 2020
Laboratory Reference: 2004-117
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6:W**					
Laboratory ID:	04-117-01					
Dichlorodifluoromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	50	0.40	EPA 8260D	4-17-20	4-17-20	
Bromomethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	1.4	0.40	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	2.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	0.47	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	38	0.40	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	7.4	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	4-17-20	4-17-20	

Date of Report: April 28, 2020
Samples Submitted: April 17, 2020
Laboratory Reference: 2004-117
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6:W**					
Laboratory ID:	04-117-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	23	0.40	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	2.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.50	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	2.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*109*	*78-125*				

Date of Report: April 28, 2020
Samples Submitted: April 17, 2020
Laboratory Reference: 2004-117
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-11:W**					
Laboratory ID:	04-117-02					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	5.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	140	1.0	EPA 8260D	4-17-20	4-17-20	
Bromomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	5.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	3.2	1.0	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	5.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	5.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	1.4	1.0	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	130	1.0	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	20	1.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260D	4-17-20	4-17-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-11:W**					
Laboratory ID:	04-117-02					
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	8.0	1.0	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	5.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	1.3	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	5.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-8:W**					
Laboratory ID:	04-117-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	0.024	0.020	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	0.47	0.20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	0.30	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-8:W**					
Laboratory ID:	04-117-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	0.94	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-127*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloromethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-17-20	4-17-20	
Bromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Iodomethane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chloroform	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Trichloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromomethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-17-20	4-17-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-17-20	4-17-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Bromoform	ND	1.0	EPA 8260D	4-17-20	4-17-20	
Bromobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-17-20	4-17-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260D	4-17-20	4-17-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-17-20	4-17-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-17-20	4-17-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*75-127*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0417W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.62**	**10.1**	10.0	10.0	96	101	63-130	5	17	
Benzene	**9.63**	**9.91**	10.0	10.0	96	99	76-125	3	19	
Trichloroethene	**9.74**	**9.59**	10.0	10.0	97	96	76-121	2	18	
Toluene	**9.52**	**8.70**	10.0	10.0	95	87	80-124	9	18	
Chlorobenzene	**10.6**	**10.8**	10.0	10.0	106	108	75-120	2	19	
Surrogate:										
Dibromofluoromethane					*95*	*99*	*75-127*			
Toluene-d8					*94*	*92*	*80-127*			
4-Bromofluorobenzene					*103*	*101*	*78-125*			

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6:W**					
Laboratory ID:	04-117-01					
Total Organic Carbon	**10**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**MW-11:W**					
Laboratory ID:	04-117-02					
Total Organic Carbon	**17**	1.0	SM 5310B	4-20-20	4-20-20	
Client ID:	**MW-8:W**					
Laboratory ID:	04-117-03					
Total Organic Carbon	**2.7**	1.0	SM 5310B	4-20-20	4-20-20	

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-20-20	4-20-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-075-01								
	ORIG	DUP							
Total Organic Carbon	**3.22**	**3.31**	NA	NA	NA	NA	3	20	
MATRIX SPIKE									
Laboratory ID:	04-075-01								
	MS		MS		MS				
Total Organic Carbon	**13.9**		10.0	3.22	107	85-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W1								
	SB		SB		SB				
Total Organic Carbon	**10.9**		10.0	NA	109	88-127	NA	NA	

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DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6:W**					
Laboratory ID:	04-117-01					
Iron	**1500**	56	EPA 6010D	4-17-20	4-22-20	
Client ID:	**MW-11:W**					
Laboratory ID:	04-117-02					
Iron	**580**	56	EPA 6010D	4-17-20	4-22-20	
Client ID:	**MW-8:W**					
Laboratory ID:	04-117-03					
Iron	**150**	56	EPA 6010D	4-17-20	4-22-20	

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DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0417F1					
Iron	**ND**	56	EPA 6010D	4-17-20	4-27-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-109-01										
	ORIG	DUP									
Iron	**24900**	**25300**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	04-109-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**123000**	**125000**	100000	100000	24900	**99**	**100**	75-125	1	20	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6:W**					
Laboratory ID:	04-117-01					
Chloride	**6.3**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**MW-11:W**					
Laboratory ID:	04-117-02					
Chloride	**8.9**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**MW-8:W**					
Laboratory ID:	04-117-03					
Chloride	**6.6**	2.0	SM 4500-Cl E	4-21-20	4-21-20	

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CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-21-20	4-21-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-109-03							
	ORIG DUP							
Chloride	**ND** **ND**	NA	NA	NA	NA	NA	17	
MATRIX SPIKE								
Laboratory ID:	04-109-03							
	MS	MS		MS				
Chloride	**48.7**	50.0	ND	97	80-116	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0421W1							
	SB	SB		SB				
Chloride	**45.3**	50.0	NA	91	90-110	NA	NA	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6:W**					
Laboratory ID:	04-117-01					
Sulfate	**13**	5.0	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**MW-11:W**					
Laboratory ID:	04-117-02					
Sulfate	**62**	25	ASTM D516-11	4-20-20	4-20-20	
Client ID:	**MW-8:W**					
Laboratory ID:	04-117-03					
Sulfate	**13**	5.0	ASTM D516-11	4-20-20	4-20-20	

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SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0420W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-20-20	4-20-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-093-02								
	ORIG	DUP							
Sulfate	**13.1**	**12.7**	NA	NA	NA	NA	3	10	
MATRIX SPIKE									
Laboratory ID:	04-093-02								
	MS		MS		MS				
Sulfate	**22.1**		10.0	13.1	90	73-134	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0420W1								
	SB		SB		SB				
Sulfate	**10.7**		10.0	NA	107	89-113	NA	NA	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6:W**					
Laboratory ID:	04-117-01					
Ammonia	**0.10**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	
Client ID:	**MW-11:W**					
Laboratory ID:	04-117-02					
Ammonia	**0.25**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	
Client ID:	**MW-8:W**					
Laboratory ID:	04-117-03					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	

Date of Report: April 28, 2020
Samples Submitted: April 17, 2020
Laboratory Reference: 2004-117
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-117-01								
	ORIG	DUP							
Ammonia	**0.102**	**0.106**	NA	NA	NA	NA	4	12	
MATRIX SPIKE									
Laboratory ID:	04-117-01								
	MS		MS		MS				
Ammonia	**4.13**		5.00	0.102	81	75-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0422W1								
	SB		SB		SB				
Ammonia	**4.74**		5.00	NA	95	85-110	NA	NA	

Date of Report: April 28, 2020
Samples Submitted: April 17, 2020
Laboratory Reference: 2004-117
Project: 82302-9.4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6:W**					
Laboratory ID:	04-117-01					
Methane	**760**	5.5	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**15**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**MW-11:W**					
Laboratory ID:	04-117-02					
Methane	**62**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**6.8**	0.29	RSK 175	4-22-20	4-22-20	
Client ID:	**MW-8:W**					
Laboratory ID:	04-117-03					
Methane	**9.0**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	

Date of Report: April 28, 2020
Samples Submitted: April 17, 2020
Laboratory Reference: 2004-117
Project: 82302-9.4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Methane	**ND**	0.55	RSK 175	4-22-20	4-22-20	
Ethane	**ND**	0.22	RSK 175	4-22-20	4-22-20	
Ethene	**ND**	0.29	RSK 175	4-22-20	4-22-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0422W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**23.1**	**24.1**	22.1	22.1	105	109	75-125	4	25	
Ethane	**43.0**	**44.8**	41.6	41.6	103	108	75-125	4	25	
Ethene	**39.7**	**44.3**	38.8	38.8	102	114	75-125	11	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

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

Laboratory Number: 04-117

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	~~NEM (oil and grease) 1664A~~ TOC	dissolved Fe	Chloride	Sulfate	Ammonia-N	% Moisture RSK
1	MW-6:W	4/17/20	09:22	GW	9						X											X	X	X	X	X	X
2	MW-11:W	4/17/20	11:30	GW	9						X											X	X	X	X	X	X
3	MW-8:W	4/17/20	13:B	GW	9						X											X	X	X	X	X	X

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/17/20	1410
Received	[illegible]	OSE	4/17/20	1410
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Lab filter
RSK = methane, ethane, ethene
↳ low detection limit (3-4 µg/L)
Low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

April 30, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-130

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 21, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

Case Narrative

Samples were collected on April 21, 2020 and received by the laboratory on April 21, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20:W**					
Laboratory ID:	04-130-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloromethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Vinyl Chloride	18	0.20	EPA 8260D	4-22-20	4-22-20	
Bromomethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloroethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Iodomethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-22-20	4-22-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
(cis) 1,2-Dichloroethene	0.34	0.20	EPA 8260D	4-22-20	4-22-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloroform	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Trichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Dibromomethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-22-20	4-22-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20:W**					
Laboratory ID:	04-130-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Tetrachloroethene	0.23	0.20	EPA 8260D	4-22-20	4-22-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromoform	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Bromobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*113*	*78-125*				

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45:W**					
Laboratory ID:	04-130-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloromethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Vinyl Chloride	7.0	0.20	EPA 8260D	4-22-20	4-22-20	
Bromomethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloroethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Iodomethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-22-20	4-22-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
(cis) 1,2-Dichloroethene	0.40	0.20	EPA 8260D	4-22-20	4-22-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloroform	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Trichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Dibromomethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-22-20	4-22-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45:W**					
Laboratory ID:	04-130-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromoform	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Bromobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*109*	*78-125*				

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-44:W**					
Laboratory ID:	04-130-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloromethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Vinyl Chloride	32	0.20	EPA 8260D	4-22-20	4-22-20	
Bromomethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloroethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Iodomethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-22-20	4-22-20	
(trans) 1,2-Dichloroethene	0.89	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
(cis) 1,2-Dichloroethene	22	0.20	EPA 8260D	4-22-20	4-22-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloroform	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Trichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Dibromomethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-22-20	4-22-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-44:W**					
Laboratory ID:	04-130-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromoform	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Bromobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*110*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-12:W**					
Laboratory ID:	04-130-04					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Chloromethane	ND	10	EPA 8260D	4-22-20	4-22-20	
Vinyl Chloride	0.82	0.20	EPA 8260D/SIM	4-22-20	4-22-20	
Bromomethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Chloroethane	ND	10	EPA 8260D	4-22-20	4-22-20	
Trichlorofluoromethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Iodomethane	ND	10	EPA 8260D	4-22-20	4-22-20	
Methylene Chloride	ND	10	EPA 8260D	4-22-20	4-22-20	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
2,2-Dichloropropane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
(cis) 1,2-Dichloroethene	52	2.0	EPA 8260D	4-22-20	4-22-20	
Bromochloromethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Chloroform	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Carbon Tetrachloride	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloropropene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloroethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Trichloroethene	84	2.0	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloropropane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Dibromomethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Bromodichloromethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
2-Chloroethyl Vinyl Ether	ND	10	EPA 8260D	4-22-20	4-22-20	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	4-22-20	4-22-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-12:W**					
Laboratory ID:	04-130-04					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Tetrachloroethene	330	2.0	EPA 8260D	4-22-20	4-22-20	
1,3-Dichloropropane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Dibromochloromethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromoethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Chlorobenzene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Bromoform	ND	10	EPA 8260D	4-22-20	4-22-20	
Bromobenzene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	4-22-20	4-22-20	
2-Chlorotoluene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
4-Chlorotoluene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	4-22-20	4-22-20	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Hexachlorobutadiene	ND	10	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	4-22-20	4-22-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*91*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloromethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-22-20	4-22-20	
Bromomethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloroethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Iodomethane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-22-20	4-22-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chloroform	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Trichloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Dibromomethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-22-20	4-22-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-22-20	4-22-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Bromoform	ND	1.0	EPA 8260D	4-22-20	4-22-20	
Bromobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-22-20	4-22-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-22-20	4-22-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-22-20	4-22-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-22-20	4-22-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*93*	*80-127*				
4-Bromofluorobenzene	*109*	*78-125*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0422W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.83**	**9.63**	10.0	10.0	98	96	63-130	2	17	
Benzene	**9.53**	**9.14**	10.0	10.0	95	91	76-125	4	19	
Trichloroethene	**10.3**	**9.94**	10.0	10.0	103	99	76-121	4	18	
Toluene	**10.2**	**9.52**	10.0	10.0	102	95	80-124	7	18	
Chlorobenzene	**11.0**	**9.90**	10.0	10.0	110	99	75-120	11	19	
Surrogate:										
Dibromofluoromethane					*89*	*90*	*75-127*			
Toluene-d8					*94*	*97*	*80-127*			
4-Bromofluorobenzene					*101*	*97*	*78-125*			

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20:W**					
Laboratory ID:	04-130-01					
Total Organic Carbon	**25**	1.0	SM 5310B	4-22-20	4-22-20	
Client ID:	**MW-45:W**					
Laboratory ID:	04-130-02					
Total Organic Carbon	**41**	1.0	SM 5310B	4-22-20	4-22-20	
Client ID:	**MW-44:W**					
Laboratory ID:	04-130-03					
Total Organic Carbon	**18**	1.0	SM 5310B	4-22-20	4-22-20	
Client ID:	**MW-12:W**					
Laboratory ID:	04-130-04					
Total Organic Carbon	**2.9**	1.0	SM 5310B	4-22-20	4-22-20	

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-22-20	4-22-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-109-01								
	ORIG	DUP							
Total Organic Carbon	**3.52**	**3.77**	NA	NA	NA	NA	7	20	
MATRIX SPIKE									
Laboratory ID:	04-109-01								
	MS		MS		MS				
Total Organic Carbon	**14.1**		10.0	3.52	106	85-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0422W1								
	SB		SB		SB				
Total Organic Carbon	**10.5**		10.0	NA	105	88-127	NA	NA	

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DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20:W**					
Laboratory ID:	04-130-01					
Iron	**2300**	56	EPA 6010D	4-21-20	4-22-20	
Client ID:	**MW-45:W**					
Laboratory ID:	04-130-02					
Iron	**2800**	56	EPA 6010D	4-21-20	4-22-20	
Client ID:	**MW-44:W**					
Laboratory ID:	04-130-03					
Iron	**4800**	56	EPA 6010D	4-21-20	4-22-20	
Client ID:	**MW-12:W**					
Laboratory ID:	04-130-04					
Iron	**5100**	56	EPA 6010D	4-21-20	4-22-20	

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DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB04221F1					
Iron	**ND**	56	EPA 6010D	4-21-20	4-22-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-109-01										
	ORIG	DUP									
Iron	**24900**	**25300**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	04-109-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**123000**	**125000**	100000	100000	24900	**99**	**100**	75-125	1	20	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20:W**					
Laboratory ID:	04-130-01					
Chloride	**13**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**MW-45:W**					
Laboratory ID:	04-130-02					
Chloride	**16**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**MW-44:W**					
Laboratory ID:	04-130-03					
Chloride	**11**	2.0	SM 4500-Cl E	4-21-20	4-21-20	
Client ID:	**MW-12:W**					
Laboratory ID:	04-130-04					
Chloride	**30**	2.0	SM 4500-Cl E	4-21-20	4-21-20	

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CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0421W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-21-20	4-21-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-109-03								
	ORIG	DUP							
Chloride	**ND**	**ND**	NA	NA	NA	NA	NA	17	
MATRIX SPIKE									
Laboratory ID:	04-109-03								
	MS		MS		MS				
Chloride	**48.7**		50.0	ND	97	80-116	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0421W1								
	SB		SB		SB				
Chloride	**45.3**		50.0	NA	91	90-110	NA	NA	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20:W**					
Laboratory ID:	04-130-01					
Sulfate	**ND**	5.0	ASTM D516-11	4-24-20	4-24-20	
Client ID:	**MW-45:W**					
Laboratory ID:	04-130-02					
Sulfate	**ND**	5.0	ASTM D516-11	4-24-20	4-24-20	
Client ID:	**MW-44:W**					
Laboratory ID:	04-130-03					
Sulfate	**ND**	5.0	ASTM D516-11	4-24-20	4-24-20	
Client ID:	**MW-12:W**					
Laboratory ID:	04-130-04					
Sulfate	**21**	10	ASTM D516-11	4-24-20	4-24-20	

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SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0424W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-24-20	4-24-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-164-02							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	10	
MATRIX SPIKE								
Laboratory ID:	04-164-02							
	MS	MS		MS				
Sulfate	**12.2**	10.0	ND	122	73-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0424W1							
	SB	SB		SB				
Sulfate	**9.77**	10.0	NA	98	89-113	NA	NA	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20:W**					
Laboratory ID:	04-130-01					
Ammonia	**0.59**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	
Client ID:	**MW-45:W**					
Laboratory ID:	04-130-02					
Ammonia	**0.87**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	
Client ID:	**MW-44:W**					
Laboratory ID:	04-130-03					
Ammonia	**0.62**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	
Client ID:	**MW-12:W**					
Laboratory ID:	04-130-04					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-22-20	4-22-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-117-01								
	ORIG	DUP							
Ammonia	**0.102**	**0.106**	NA	NA	NA	NA	4	12	
MATRIX SPIKE									
Laboratory ID:	04-117-01								
	MS		MS		MS				
Ammonia	**4.13**		5.00	0.102	81	75-121	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0422W1								
	SB		SB		SB				
Ammonia	**4.74**		5.00	NA	95	85-110	NA	NA	

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-20:W**					
Laboratory ID:	04-130-01					
Methane	**13000**	83	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**41**	0.29	RSK 175	4-29-20	4-29-20	
Client ID:	**MW-45:W**					
Laboratory ID:	04-130-02					
Methane	**8900**	55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**11**	0.29	RSK 175	4-29-20	4-29-20	
Client ID:	**MW-44:W**					
Laboratory ID:	04-130-03					
Methane	**8700**	55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**7.5**	0.29	RSK 175	4-29-20	4-29-20	
Client ID:	**MW-12:W**					
Laboratory ID:	04-130-04					
Methane	**3600**	28	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

Date of Report: April 30, 2020
Samples Submitted: April 21, 2020
Laboratory Reference: 2004-130
Project: 82302-9.4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Methane	**ND**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0429W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**21.7**	**21.5**	22.1	22.1	98	97	75-125	1	25	
Ethane	**40.6**	**39.9**	41.6	41.6	98	96	75-125	2	25	
Ethene	**41.1**	**40.6**	38.8	38.8	106	105	75-125	1	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

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

Laboratory Number: 04-130

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A ~~TOC~~	dissolved Fe	chloride	sulfate	ammonia-N	%Moisture ~~RSK~~
1	MW-20:W	4/21/20	0914	GW	9						X											X	X	X	X	X	X
2	MW-45:W	4/21/20	1036	GW	9						X											X	X	X	X	X	X
3	MW-44:W	4/21/20	1147	GW	9						X											X	X	X	X	X	X
4	MW-12:W	4/21/20	1308	GW	9						X											X	X	X	X	X	X

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/21/20	14:05
Received		COSE	4/21/20	1405
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Lab filter
RSK = methane, ethane, ethene
↳ Low detection limit (3-4 µg/L)
Low detection for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

April 30, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-144

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 22, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

Case Narrative

Samples were collected on April 22, 2020 and received by the laboratory on April 22, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4:W**					
Laboratory ID:	04-144-01					
Dichlorodifluoromethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Chloromethane	ND	50	EPA 8260D	4-28-20	4-28-20	
Vinyl Chloride	14	10	EPA 8260D	4-28-20	4-28-20	
Bromomethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Chloroethane	ND	50	EPA 8260D	4-28-20	4-28-20	
Trichlorofluoromethane	ND	10	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloroethene	ND	10	EPA 8260D	4-28-20	4-28-20	
Iodomethane	ND	50	EPA 8260D	4-28-20	4-28-20	
Methylene Chloride	ND	50	EPA 8260D	4-28-20	4-28-20	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloroethane	ND	10	EPA 8260D	4-28-20	4-28-20	
2,2-Dichloropropane	ND	10	EPA 8260D	4-28-20	4-28-20	
(cis) 1,2-Dichloroethene	760	10	EPA 8260D	4-28-20	4-28-20	
Bromochloromethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Chloroform	ND	10	EPA 8260D	4-28-20	4-28-20	
1,1,1-Trichloroethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Carbon Tetrachloride	ND	10	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloropropene	ND	10	EPA 8260D	4-28-20	4-28-20	
1,2-Dichloroethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Trichloroethene	210	10	EPA 8260D	4-28-20	4-28-20	
1,2-Dichloropropane	ND	10	EPA 8260D	4-28-20	4-28-20	
Dibromomethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Bromodichloromethane	ND	10	EPA 8260D	4-28-20	4-28-20	
2-Chloroethyl Vinyl Ether	ND	50	EPA 8260D	4-28-20	4-28-20	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	4-28-20	4-28-20	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	4-28-20	4-28-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4:W**					
Laboratory ID:	04-144-01					
1,1,2-Trichloroethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Tetrachloroethene	1600	10	EPA 8260D	4-28-20	4-28-20	
1,3-Dichloropropane	ND	10	EPA 8260D	4-28-20	4-28-20	
Dibromochloromethane	ND	10	EPA 8260D	4-28-20	4-28-20	
1,2-Dibromoethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Chlorobenzene	ND	10	EPA 8260D	4-28-20	4-28-20	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	4-28-20	4-28-20	
Bromoform	ND	50	EPA 8260D	4-28-20	4-28-20	
Bromobenzene	ND	10	EPA 8260D	4-28-20	4-28-20	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	4-28-20	4-28-20	
1,2,3-Trichloropropane	ND	10	EPA 8260D	4-28-20	4-28-20	
2-Chlorotoluene	ND	10	EPA 8260D	4-28-20	4-28-20	
4-Chlorotoluene	ND	10	EPA 8260D	4-28-20	4-28-20	
1,3-Dichlorobenzene	ND	10	EPA 8260D	4-28-20	4-28-20	
1,4-Dichlorobenzene	ND	10	EPA 8260D	4-28-20	4-28-20	
1,2-Dichlorobenzene	ND	10	EPA 8260D	4-28-20	4-28-20	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	4-28-20	4-28-20	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	4-28-20	4-28-20	
Hexachlorobutadiene	ND	50	EPA 8260D	4-28-20	4-28-20	
1,2,3-Trichlorobenzene	ND	50	EPA 8260D	4-28-20	4-28-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-35:W**					
Laboratory ID:	04-144-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Chloromethane	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-28-20	4-28-20	
Bromomethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Chloroethane	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Iodomethane	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-28-20	4-28-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Chloroform	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Trichloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Dibromomethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-28-20	4-28-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-28-20	4-28-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-35:W**					
Laboratory ID:	04-144-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Tetrachloroethene	2.1	0.20	EPA 8260D	4-28-20	4-28-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Bromoform	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Bromobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-28-20	4-28-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-28-20	4-28-20	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0228W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Chloromethane	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-28-20	4-28-20	
Bromomethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Chloroethane	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Iodomethane	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-28-20	4-28-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Chloroform	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Trichloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Dibromomethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	4-28-20	4-28-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-28-20	4-28-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0228W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Bromoform	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Bromobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-28-20	4-28-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-28-20	4-28-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-28-20	4-28-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-28-20	4-28-20	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	4-28-20	4-28-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0428W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.5**	**9.67**	10.0	10.0	105	97	63-130	8	17	
Benzene	**10.9**	**10.3**	10.0	10.0	109	103	76-125	6	19	
Trichloroethene	**11.6**	**11.3**	10.0	10.0	116	113	76-121	3	18	
Toluene	**10.9**	**10.7**	10.0	10.0	109	107	80-124	2	18	
Chlorobenzene	**11.5**	**11.1**	10.0	10.0	115	111	75-120	4	19	
Surrogate:										
Dibromofluoromethane					*95*	*94*	*75-127*			
Toluene-d8					*97*	*99*	*80-127*			
4-Bromofluorobenzene					*95*	*95*	*78-125*			

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4:W**					
Laboratory ID:	04-144-01					
Total Organic Carbon	**1.6**	1.0	SM 5310B	4-22-20	4-22-20	
Client ID:	**MW-35:W**					
Laboratory ID:	04-144-02					
Total Organic Carbon	**1.1**	1.0	SM 5310B	4-22-20	4-22-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-22-20	4-22-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-109-01								
	ORIG	DUP							
Total Organic Carbon	**3.52**	**3.77**	NA	NA	NA	NA	7	20	
MATRIX SPIKE									
Laboratory ID:	04-109-01								
	MS		MS		MS				
Total Organic Carbon	**14.1**		10.0	3.52	106	85-131	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0422W1								
	SB		SB		SB				
Total Organic Carbon	**10.5**		10.0	NA	105	88-127	NA	NA	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4:W**					
Laboratory ID:	04-144-01					
Iron	**1300**	56	EPA 6010D	4-22-20	4-29-20	
Client ID:	**MW-35:W**					
Laboratory ID:	04-144-02					
Iron	**ND**	56	EPA 6010D	4-22-20	4-29-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0422F1					
Iron	**ND**	56	EPA 6010D	4-22-20	4-29-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-132-02										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	04-132-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22900**	**22600**	22200	22200	ND	**103**	**102**	75-125	1	20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4:W**					
Laboratory ID:	04-144-01					
Chloride	**13**	2.0	SM 4500-Cl E	4-24-20	4-24-20	
Client ID:	**MW-35:W**					
Laboratory ID:	04-144-02					
Chloride	**14**	2.0	SM 4500-Cl E	4-24-20	4-24-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0424W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-24-20	4-24-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-165-01								
	ORIG	DUP							
Chloride	**4.43**	**4.07**	NA	NA	NA	NA	8	17	
MATRIX SPIKE									
Laboratory ID:	04-165-01								
	MS		MS		MS				
Chloride	**55.0**		50.0	4.43	101	80-116	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0424W1								
	SB		SB		SB				
Chloride	**47.7**		50.0	NA	95	90-110	NA	NA	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4:W**					
Laboratory ID:	04-144-01					
Sulfate	**12**	5.0	ASTM D516-11	4-24-20	4-24-20	
Client ID:	**MW-35:W**					
Laboratory ID:	04-144-02					
Sulfate	**14**	5.0	ASTM D516-11	4-24-20	4-24-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0424W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-24-20	4-24-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-164-02							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	10	
MATRIX SPIKE								
Laboratory ID:	04-164-02							
	MS	MS		MS				
Sulfate	**12.2**	10.0	ND	122	73-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0424W1							
	SB	SB		SB				
Sulfate	**9.77**	10.0	NA	98	89-113	NA	NA	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4:W**					
Laboratory ID:	04-144-01					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	
Client ID:	**MW-35:W**					
Laboratory ID:	04-144-02					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-144-01							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	12	
MATRIX SPIKE								
Laboratory ID:	04-144-01							
	MS	MS		MS				
Ammonia	**4.98**	5.00	ND	100	75-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0428W1							
	SB	SB		SB				
Ammonia	**5.02**	5.00	NA	100	85-110	NA	NA	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-4:W**					
Laboratory ID:	04-144-01					
Methane	**8300**	55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	
Client ID:	**MW-35:W**					
Laboratory ID:	04-144-02					
Methane	**43**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

Date of Report: April 30, 2020
Samples Submitted: April 22, 2020
Laboratory Reference: 2004-144
Project: 82302-9.4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Methane	**ND**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0429W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**21.7**	**21.5**	22.1	22.1	98	97	75-125	1	25	
Ethane	**40.6**	**39.9**	41.6	41.6	98	96	75-125	2	25	
Ethene	**41.1**	**40.6**	38.8	38.8	106	105	75-125	1	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

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

Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

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

Laboratory Number: 04-144

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	~~HEM (oil and grease) 1664A~~ TOC	dissolved Fe	chloride	sulfate	Ammonia	~~Moisture~~ RSK
1	MW-4:W	4/22/20	0920	GW	9						X											X	X	X	X	X	X
2	MW-35:W	4/22/20	1032	GW	9						X											X	X	X	X	X	X

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/22/20	12:17
Received	[signature]		4/22/20	1217
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Lab filter
RSK = methane, ethane, ethene
↳ low detection limits (3-4 µg/L)
low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

May 1, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-165

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 23, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 1, 2020
Samples Submitted: April 23, 2020
Laboratory Reference: 2004-165
Project: 82302-9.4

Case Narrative

Samples were collected on April 23, 2020 and received by the laboratory on April 23, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: May 1, 2020
Samples Submitted: April 23, 2020
Laboratory Reference: 2004-165
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1:W**					
Laboratory ID:	04-165-01					
Dichlorodifluoromethane	0.37	0.20	EPA 8260D	4-29-20	4-29-20	
Chloromethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-29-20	4-29-20	
Bromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Iodomethane	ND	1.5	EPA 8260D	4-29-20	4-29-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-29-20	4-29-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroform	0.24	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Trichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260D	4-29-20	4-29-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	

Date of Report: May 1, 2020
Samples Submitted: April 23, 2020
Laboratory Reference: 2004-165
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1:W**					
Laboratory ID:	04-165-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Tetrachloroethene	3.5	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromoform	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Bromobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	4-29-20	4-29-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: May 1, 2020
Samples Submitted: April 23, 2020
Laboratory Reference: 2004-165
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-5:W**					
Laboratory ID:	04-165-02					
Dichlorodifluoromethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Chloromethane	ND	50	EPA 8260D	4-29-20	4-29-20	
Vinyl Chloride	ND	1.0	EPA 8260D/SIM	4-29-20	4-29-20	
Bromomethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Chloroethane	ND	50	EPA 8260D	4-29-20	4-29-20	
Trichlorofluoromethane	ND	10	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethene	ND	10	EPA 8260D	4-29-20	4-29-20	
Iodomethane	ND	75	EPA 8260D	4-29-20	4-29-20	
Methylene Chloride	ND	50	EPA 8260D	4-29-20	4-29-20	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethane	ND	10	EPA 8260D	4-29-20	4-29-20	
2,2-Dichloropropane	ND	10	EPA 8260D	4-29-20	4-29-20	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260D	4-29-20	4-29-20	
Bromochloromethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Chloroform	ND	10	EPA 8260D	4-29-20	4-29-20	
1,1,1-Trichloroethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Carbon Tetrachloride	ND	10	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloropropene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloroethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Trichloroethene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloropropane	ND	10	EPA 8260D	4-29-20	4-29-20	
Dibromomethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Bromodichloromethane	ND	10	EPA 8260D	4-29-20	4-29-20	
2-Chloroethyl Vinyl Ether	ND	70	EPA 8260D	4-29-20	4-29-20	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	4-29-20	4-29-20	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	4-29-20	4-29-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-5:W**					
Laboratory ID:	04-165-02					
1,1,2-Trichloroethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Tetrachloroethene	1500	10	EPA 8260D	4-29-20	4-29-20	
1,3-Dichloropropane	ND	10	EPA 8260D	4-29-20	4-29-20	
Dibromochloromethane	ND	10	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromoethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Chlorobenzene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	4-29-20	4-29-20	
Bromoform	ND	50	EPA 8260D	4-29-20	4-29-20	
Bromobenzene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichloropropane	ND	10	EPA 8260D	4-29-20	4-29-20	
2-Chlorotoluene	ND	10	EPA 8260D	4-29-20	4-29-20	
4-Chlorotoluene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,3-Dichlorobenzene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,4-Dichlorobenzene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,2-Dichlorobenzene	ND	10	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromo-3-chloropropane	ND	65	EPA 8260D	4-29-20	4-29-20	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	4-29-20	4-29-20	
Hexachlorobutadiene	ND	50	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	4-29-20	4-29-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloromethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-29-20	4-29-20	
Bromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Iodomethane	ND	1.5	EPA 8260D	4-29-20	4-29-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-29-20	4-29-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroform	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Trichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260D	4-29-20	4-29-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromoform	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Bromobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	4-29-20	4-29-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0429W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.13**	**9.77**	10.0	10.0	91	98	63-130	7	17	
Benzene	**9.61**	**10.3**	10.0	10.0	96	103	76-125	7	19	
Trichloroethene	**10.0**	**10.9**	10.0	10.0	100	109	76-121	9	18	
Toluene	**9.59**	**10.4**	10.0	10.0	96	104	80-124	8	18	
Chlorobenzene	**10.2**	**11.2**	10.0	10.0	102	112	75-120	9	19	
Surrogate:										
Dibromofluoromethane					*95*	*91*	*75-127*			
Toluene-d8					*96*	*97*	*80-127*			
4-Bromofluorobenzene					*94*	*95*	*78-125*			

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1:W**					
Laboratory ID:	04-165-01					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-30-20	4-30-20	
Client ID:	**S-MW-5:W**					
Laboratory ID:	04-165-02					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-30-20	4-30-20	

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0430W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-30-20	4-30-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-165-01							
	ORIG DUP							
Total Organic Carbon	**ND** **ND**	NA	NA	NA	NA	NA	20	
MATRIX SPIKE								
Laboratory ID:	04-165-01							
	MS	MS		MS				
Total Organic Carbon	**11.4**	10.0	ND	114	85-131	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0430W1							
	SB	SB		SB				
Total Organic Carbon	**10.7**	10.0	NA	107	88-127	NA	NA	

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DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1:W**					
Laboratory ID:	04-165-01					
Iron	**ND**	56	EPA 6010D	4-23-20	4-29-20	
Client ID:	**S-MW-5:W**					
Laboratory ID:	04-165-02					
Iron	**57**	56	EPA 6010D	4-23-20	4-29-20	

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DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0423F1					
Iron	**ND**	56	EPA 6010D	4-23-20	4-29-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-132-02										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	04-132-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22900**	**22600**	22200	22200	ND	**103**	**102**	75-125	1	20	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1:W**					
Laboratory ID:	04-165-01					
Chloride	**4.4**	2.0	SM 4500-Cl E	4-24-20	4-24-20	
Client ID:	**S-MW-5:W**					
Laboratory ID:	04-165-02					
Chloride	**5.1**	2.0	SM 4500-Cl E	4-24-20	4-24-20	

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CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0424W1					
Chloride	**ND**	2.0	SM 4500-Cl E	4-24-20	4-24-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-165-01								
	ORIG	DUP							
Chloride	**4.43**	**4.07**	NA	NA	NA	NA	8	17	
MATRIX SPIKE									
Laboratory ID:	04-165-01								
	MS		MS		MS				
Chloride	**55.0**		50.0	4.43	101	80-116	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0424W1								
	SB		SB		SB				
Chloride	**47.7**		50.0	NA	95	90-110	NA	NA	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1:W**					
Laboratory ID:	04-165-01					
Sulfate	**57**	25	ASTM D516-11	4-29-20	4-29-20	
Client ID:	**S-MW-5:W**					
Laboratory ID:	04-165-02					
Sulfate	**15**	5.0	ASTM D516-11	4-29-20	4-29-20	

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SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-29-20	4-29-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-186-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	10	
MATRIX SPIKE								
Laboratory ID:	04-186-01							
	MS	MS		MS				
Sulfate	**8.98**	10.0	ND	90	73-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0429W1							
	SB	SB		SB				
Sulfate	**10.2**	10.0	NA	102	89-113	NA	NA	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1:W**					
Laboratory ID:	04-165-01					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	
Client ID:	**S-MW-5:W**					
Laboratory ID:	04-165-02					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-144-01							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	12	
MATRIX SPIKE								
Laboratory ID:	04-144-01							
	MS	MS		MS				
Ammonia	**4.98**	5.00	ND	100	75-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0428W1							
	SB	SB		SB				
Ammonia	**5.02**	5.00	NA	100	85-110	NA	NA	

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-1:W**					
Laboratory ID:	04-165-01					
Methane	**ND**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	
Client ID:	**S-MW-5:W**					
Laboratory ID:	04-165-02					
Methane	**ND**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Methane	**ND**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0429W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**21.7**	**21.5**	22.1	22.1	98	97	75-125	1	25	
Ethane	**40.6**	**39.9**	41.6	41.6	98	96	75-125	2	25	
Ethene	**41.1**	**40.6**	38.8	38.8	106	105	75-125	1	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

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OnSite Environmental Inc.
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Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

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

Laboratory Number: 04-165

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	TOC	dissolved Fe	chloride	sulfate	ammonia-N	~~Volatiles~~ RSK
1	S-MW-1:W	4/23/20	0924	GW	9						X											X	X	X	X	X	X
2	S-MW-5:W	4/23/20	1145	GW	9						X											X	X	X	X	X	X

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/23/20	1433
Received	Kristen Lisewski	OSE	4/23/20	1433
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Lab filter
RSK = methane, ethane, ethene
↳ low detection limit (3-4 µg/L)
low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

May 4, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-181

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 24, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

Case Narrative

Samples were collected on April 24, 2020 and received by the laboratory on April 24, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3R:W**					
Laboratory ID:	04-181-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloromethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-29-20	4-29-20	
Bromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Iodomethane	ND	1.5	EPA 8260D	4-29-20	4-29-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-29-20	4-29-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroform	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Trichloroethene	0.54	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260D	4-29-20	4-29-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3R:W**					
Laboratory ID:	04-181-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Tetrachloroethene	6.6	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromoform	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Bromobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	4-29-20	4-29-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*106*	*78-125*				

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-2R:W**					
Laboratory ID:	04-181-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloromethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Vinyl Chloride	0.029	0.020	EPA 8260D/SIM	4-29-20	4-29-20	
Bromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Iodomethane	ND	1.5	EPA 8260D	4-29-20	4-29-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-29-20	4-29-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(cis) 1,2-Dichloroethene	1.6	0.20	EPA 8260D	4-29-20	4-29-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroform	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Trichloroethene	2.5	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260D	4-29-20	4-29-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-2R:W**					
Laboratory ID:	04-181-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Tetrachloroethene	5.4	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromoform	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Bromobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	4-29-20	4-29-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloromethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	4-29-20	4-29-20	
Bromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroethane	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Iodomethane	ND	1.5	EPA 8260D	4-29-20	4-29-20	
Methylene Chloride	ND	1.0	EPA 8260D	4-29-20	4-29-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chloroform	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Trichloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromomethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromodichloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260D	4-29-20	4-29-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-20	4-29-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Tetrachloroethene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Dibromochloromethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Chlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Bromoform	ND	1.0	EPA 8260D	4-29-20	4-29-20	
Bromobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-29-20	4-29-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260D	4-29-20	4-29-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-29-20	4-29-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-20	4-29-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0429W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.13**	**9.77**	10.0	10.0	91	98	63-130	7	17	
Benzene	**9.61**	**10.3**	10.0	10.0	96	103	76-125	7	19	
Trichloroethene	**10.0**	**10.9**	10.0	10.0	100	109	76-121	9	18	
Toluene	**9.59**	**10.4**	10.0	10.0	96	104	80-124	8	18	
Chlorobenzene	**10.2**	**11.2**	10.0	10.0	102	112	75-120	9	19	
Surrogate:										
Dibromofluoromethane					*95*	*91*	*75-127*			
Toluene-d8					*96*	*97*	*80-127*			
4-Bromofluorobenzene					*94*	*95*	*78-125*			

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3R:W**					
Laboratory ID:	04-181-01					
Total Organic Carbon	**1.1**	1.0	SM 5310B	4-30-20	4-30-20	
Client ID:	**S-MW-2R:W**					
Laboratory ID:	04-181-02					
Total Organic Carbon	**61**	1.0	SM 5310B	4-30-20	4-30-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0430W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-30-20	4-30-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-165-01							
	ORIG DUP							
Total Organic Carbon	**ND** **ND**	NA	NA	NA	NA	NA	20	
MATRIX SPIKE								
Laboratory ID:	04-165-01							
	MS	MS		MS				
Total Organic Carbon	**11.4**	10.0	ND	114	85-131	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0430W1							
	SB	SB		SB				
Total Organic Carbon	**10.7**	10.0	NA	107	88-127	NA	NA	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3R:W**					
Laboratory ID:	04-181-01					
Iron	**79**	56	EPA 6010D	4-24-20	4-29-20	
Client ID:	**S-MW-2R:W**					
Laboratory ID:	04-181-02					
Iron	**230**	56	EPA 6010D	4-24-20	4-29-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0424F1					
Iron	**ND**	56	EPA 6010D	4-24-20	4-29-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-132-02										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	04-132-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22900**	**22600**	22200	22200	ND	**103**	**102**	75-125	1	20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3R:W**					
Laboratory ID:	04-181-01					
Chloride	**5.5**	2.0	SM 4500-Cl E	5-1-20	5-1-20	
Client ID:	**S-MW-2R:W**					
Laboratory ID:	04-181-02					
Chloride	**6.3**	2.0	SM 4500-Cl E	5-1-20	5-1-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0501W1					
Chloride	**ND**	2.0	SM 4500-Cl E	5-1-20	5-1-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-181-01								
	ORIG	DUP							
Chloride	**5.50**	**5.45**	NA	NA	NA	NA	1	14	
MATRIX SPIKE									
Laboratory ID:	04-181-01								
	MS		MS		MS				
Chloride	**57.5**		50.0	5.50	104	86-110	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0501W1								
	SB		SB		SB				
Chloride	**47.6**		50.0	NA	95	86-110	NA	NA	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3R:W**					
Laboratory ID:	04-181-01					
Sulfate	**14**	5.0	ASTM D516-11	4-29-20	4-29-20	
Client ID:	**S-MW-2R:W**					
Laboratory ID:	04-181-02					
Sulfate	**63**	25	ASTM D516-11	4-29-20	4-29-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-29-20	4-29-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-186-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	10	
MATRIX SPIKE								
Laboratory ID:	04-186-01							
	MS	MS		MS				
Sulfate	**8.98**	10.0	ND	90	73-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0429W1							
	SB	SB		SB				
Sulfate	**10.2**	10.0	NA	102	89-113	NA	NA	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3R:W**					
Laboratory ID:	04-181-01					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	
Client ID:	**S-MW-2R:W**					
Laboratory ID:	04-181-02					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-144-01							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	12	
MATRIX SPIKE								
Laboratory ID:	04-144-01							
	MS	MS		MS				
Ammonia	**4.98**	5.00	ND	100	75-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0428W1							
	SB	SB		SB				
Ammonia	**5.02**	5.00	NA	100	85-110	NA	NA	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S-MW-3R:W**					
Laboratory ID:	04-181-01					
Methane	**1500**	8.3	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	
Client ID:	**S-MW-2R:W**					
Laboratory ID:	04-181-02					
Methane	**2.4**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

Date of Report: May 4, 2020
Samples Submitted: April 24, 2020
Laboratory Reference: 2004-181
Project: 82302-9.4

DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Methane	**ND**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0429W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**21.7**	**21.5**	22.1	22.1	98	97	75-125	1	25	
Ethane	**40.6**	**39.9**	41.6	41.6	98	96	75-125	2	25	
Ethene	**41.1**	**40.6**	38.8	38.8	106	105	75-125	1	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

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

Laboratory Number: 04-181

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	~~HEM (oil and grease) 1664A~~ TPC	dissolved Fe	Chloride	Sulfate	ammonia - N	~~% Moisture~~ RSK
1	S-MW-3R:W	4/24/20	0933	GW	9						X											X	X	X	X	X	X
2	S-MW-2R:W	4/24/20	1255	GW	9						X											X	X	X	X	X	X
	mw																										

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/24/20	14:10
Received	Rachel Lisenbee	OSE	4/24/20	14:10
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Lab filter
RSK - methane, ethane, ethene
↳ detection limit low (3-4 µg/L)
low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

May 4, 2020

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.4
Laboratory Reference No. 2004-186

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on April 27, 2020.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 4, 2020
Samples Submitted: April 27, 2020
Laboratory Reference: 2004-186
Project: 82302-9.4

Case Narrative

Samples were collected on April 27, 2020 and received by the laboratory on April 27, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Date of Report: May 4, 2020
Samples Submitted: April 27, 2020
Laboratory Reference: 2004-186
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31:W**					
Laboratory ID:	04-186-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloromethane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Vinyl Chloride	0.049	0.020	EPA 8260D/SIM	5-1-20	5-1-20	
Bromomethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloroethane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Iodomethane	ND	1.3	EPA 8260D	5-1-20	5-1-20	
Methylene Chloride	ND	1.0	EPA 8260D	5-1-20	5-1-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Bromochloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloroform	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Trichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Dibromomethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Bromodichloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260D	5-1-20	5-1-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	

Date of Report: May 4, 2020
Samples Submitted: April 27, 2020
Laboratory Reference: 2004-186
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31:W**					
Laboratory ID:	04-186-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Tetrachloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Dibromochloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Bromoform	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Bromobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-1-20	5-1-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: May 4, 2020
Samples Submitted: April 27, 2020
Laboratory Reference: 2004-186
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-40:W**					
Laboratory ID:	04-186-02					
Dichlorodifluoromethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Chloromethane	ND	50	EPA 8260D	5-1-20	5-1-20	
Vinyl Chloride	930	10	EPA 8260D	5-1-20	5-1-20	
Bromomethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Chloroethane	ND	50	EPA 8260D	5-1-20	5-1-20	
Trichlorofluoromethane	ND	10	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloroethene	ND	10	EPA 8260D	5-1-20	5-1-20	
Iodomethane	ND	65	EPA 8260D	5-1-20	5-1-20	
Methylene Chloride	ND	50	EPA 8260D	5-1-20	5-1-20	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloroethane	ND	10	EPA 8260D	5-1-20	5-1-20	
2,2-Dichloropropane	ND	10	EPA 8260D	5-1-20	5-1-20	
(cis) 1,2-Dichloroethene	150	10	EPA 8260D	5-1-20	5-1-20	
Bromochloromethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Chloroform	ND	10	EPA 8260D	5-1-20	5-1-20	
1,1,1-Trichloroethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Carbon Tetrachloride	ND	10	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloropropene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,2-Dichloroethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Trichloroethene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,2-Dichloropropane	ND	10	EPA 8260D	5-1-20	5-1-20	
Dibromomethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Bromodichloromethane	ND	10	EPA 8260D	5-1-20	5-1-20	
2-Chloroethyl Vinyl Ether	ND	65	EPA 8260D	5-1-20	5-1-20	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	5-1-20	5-1-20	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	5-1-20	5-1-20	

Date of Report: May 4, 2020
Samples Submitted: April 27, 2020
Laboratory Reference: 2004-186
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-40:W**					
Laboratory ID:	04-186-02					
1,1,2-Trichloroethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Tetrachloroethene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,3-Dichloropropane	ND	10	EPA 8260D	5-1-20	5-1-20	
Dibromochloromethane	ND	10	EPA 8260D	5-1-20	5-1-20	
1,2-Dibromoethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Chlorobenzene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	5-1-20	5-1-20	
Bromoform	ND	50	EPA 8260D	5-1-20	5-1-20	
Bromobenzene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	5-1-20	5-1-20	
1,2,3-Trichloropropane	ND	10	EPA 8260D	5-1-20	5-1-20	
2-Chlorotoluene	ND	10	EPA 8260D	5-1-20	5-1-20	
4-Chlorotoluene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,3-Dichlorobenzene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,4-Dichlorobenzene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,2-Dichlorobenzene	ND	10	EPA 8260D	5-1-20	5-1-20	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	5-1-20	5-1-20	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	5-1-20	5-1-20	
Hexachlorobutadiene	ND	50	EPA 8260D	5-1-20	5-1-20	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	5-1-20	5-1-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*108*	*78-125*				

Date of Report: May 4, 2020
Samples Submitted: April 27, 2020
Laboratory Reference: 2004-186
Project: 82302-9.4

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-39:W**					
Laboratory ID:	04-186-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloromethane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Vinyl Chloride	0.024	0.020	EPA 8260D/SIM	5-1-20	5-1-20	
Bromomethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloroethane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Iodomethane	ND	1.3	EPA 8260D	5-1-20	5-1-20	
Methylene Chloride	ND	1.0	EPA 8260D	5-1-20	5-1-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
(cis) 1,2-Dichloroethene	8.9	0.20	EPA 8260D	5-1-20	5-1-20	
Bromochloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloroform	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Trichloroethene	2.2	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Dibromomethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Bromodichloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260D	5-1-20	5-1-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-39:W**					
Laboratory ID:	04-186-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Tetrachloroethene	3.1	0.20	EPA 8260D	5-1-20	5-1-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Dibromochloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Bromoform	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Bromobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-1-20	5-1-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				

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QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0501W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloromethane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	5-1-20	5-1-20	
Bromomethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloroethane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Iodomethane	ND	1.3	EPA 8260D	5-1-20	5-1-20	
Methylene Chloride	ND	1.0	EPA 8260D	5-1-20	5-1-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Bromochloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chloroform	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Trichloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Dibromomethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Bromodichloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260D	5-1-20	5-1-20	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-1-20	5-1-20	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0501W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Tetrachloroethene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Dibromochloromethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Chlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Bromoform	ND	1.0	EPA 8260D	5-1-20	5-1-20	
Bromobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-1-20	5-1-20	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-1-20	5-1-20	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-1-20	5-1-20	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-1-20	5-1-20	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0501W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.25**	**9.42**	10.0	10.0	93	94	65-126	2	17	
Benzene	**10.1**	**10.1**	10.0	10.0	101	101	71-119	0	19	
Trichloroethene	**10.6**	**10.2**	10.0	10.0	106	102	82-123	4	18	
Toluene	**10.1**	**10.1**	10.0	10.0	101	101	77-119	0	18	
Chlorobenzene	**10.9**	**10.6**	10.0	10.0	109	106	80-120	3	19	
Surrogate:										
Dibromofluoromethane					*97*	*93*	*75-127*			
Toluene-d8					*102*	*98*	*80-127*			
4-Bromofluorobenzene					*103*	*97*	*78-125*			

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TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31:W**					
Laboratory ID:	04-186-01					
Total Organic Carbon	**4.7**	1.0	SM 5310B	4-30-20	4-30-20	
Client ID:	**MW-40:W**					
Laboratory ID:	04-186-02					
Total Organic Carbon	**9.9**	1.0	SM 5310B	4-30-20	4-30-20	
Client ID:	**MW-39:W**					
Laboratory ID:	04-186-03					
Total Organic Carbon	**2.1**	1.0	SM 5310B	4-30-20	4-30-20	

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TOTAL ORGANIC CARBON
SM 5310B
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0430W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	4-30-20	4-30-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-165-01							
	ORIG DUP							
Total Organic Carbon	**ND** **ND**	NA	NA	NA	NA	NA	20	
MATRIX SPIKE								
Laboratory ID:	04-165-01							
	MS	MS		MS				
Total Organic Carbon	**11.4**	10.0	ND	114	85-131	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0430W1							
	SB	SB		SB				
Total Organic Carbon	**10.7**	10.0	NA	107	88-127	NA	NA	

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DISSOLVED IRON
EPA 6010D

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31:W**					
Laboratory ID:	04-186-01					
Iron	**19000**	56	EPA 6010D	4-27-20	4-29-20	
Client ID:	**MW-40:W**					
Laboratory ID:	04-186-02					
Iron	**5600**	56	EPA 6010D	4-27-20	4-29-20	
Client ID:	**MW-39:W**					
Laboratory ID:	04-186-03					
Iron	**440**	56	EPA 6010D	4-27-20	4-29-20	

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DISSOLVED IRON
EPA 6010D
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0427F1					
Iron	**ND**	56	EPA 6010D	4-27-20	4-29-20	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	04-132-02										
	ORIG	DUP									
Iron	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	04-132-02										
	MS	MSD	MS	MSD		MS	MSD				
Iron	**22900**	**22600**	22200	22200	ND	**103**	**102**	75-125	1	20	

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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31:W**					
Laboratory ID:	04-186-01					
Chloride	**5.8**	2.0	SM 4500-Cl E	5-1-20	5-1-20	
Client ID:	**MW-40:W**					
Laboratory ID:	04-186-02					
Chloride	**7.9**	2.0	SM 4500-Cl E	5-1-20	5-1-20	
Client ID:	**MW-39:W**					
Laboratory ID:	04-186-03					
Chloride	**4.3**	2.0	SM 4500-Cl E	5-1-20	5-1-20	

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CHLORIDE
SM 4500-Cl E
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0501W1					
Chloride	**ND**	2.0	SM 4500-Cl E	5-1-20	5-1-20	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	04-181-01								
	ORIG	DUP							
Chloride	**5.50**	**5.45**	NA	NA	NA	NA	1	14	
MATRIX SPIKE									
Laboratory ID:	04-181-01								
	MS		MS		MS				
Chloride	**57.5**		50.0	5.50	104	86-110	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0501W1								
	SB		SB		SB				
Chloride	**47.6**		50.0	NA	95	86-110	NA	NA	

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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31:W**					
Laboratory ID:	04-186-01					
Sulfate	**ND**	5.0	ASTM D516-11	4-29-20	4-29-20	
Client ID:	**MW-40:W**					
Laboratory ID:	04-186-02					
Sulfate	**ND**	5.0	ASTM D516-11	4-29-20	4-29-20	
Client ID:	**MW-39:W**					
Laboratory ID:	04-186-03					
Sulfate	**ND**	5.0	ASTM D516-11	4-29-20	4-29-20	

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SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Sulfate	**ND**	5.0	ASTM D516-11	4-29-20	4-29-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-186-01							
	ORIG DUP							
Sulfate	**ND** **ND**	NA	NA	NA	NA	NA	10	
MATRIX SPIKE								
Laboratory ID:	04-186-01							
	MS	MS		MS				
Sulfate	**8.98**	10.0	ND	90	73-134	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0429W1							
	SB	SB		SB				
Sulfate	**10.2**	10.0	NA	102	89-113	NA	NA	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31:W**					
Laboratory ID:	04-186-01					
Ammonia	**0.29**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	
Client ID:	**MW-40:W**					
Laboratory ID:	04-186-02					
Ammonia	**0.24**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	
Client ID:	**MW-39:W**					
Laboratory ID:	04-186-03					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	

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AMMONIA (as Nitrogen)
SM 4500-NH_3 D
QUALITY CONTROL

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428W1					
Ammonia	**ND**	0.050	SM 4500-NH3 D	4-28-20	4-28-20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-144-01							
	ORIG DUP							
Ammonia	**ND** **ND**	NA	NA	NA	NA	NA	12	
MATRIX SPIKE								
Laboratory ID:	04-144-01							
	MS	MS		MS				
Ammonia	**4.98**	5.00	ND	100	75-121	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB0428W1							
	SB	SB		SB				
Ammonia	**5.02**	5.00	NA	100	85-110	NA	NA	

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DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**HZ-MW-31:W**					
Laboratory ID:	04-186-01					
Methane	**840**	5.5	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	
Client ID:	**MW-40:W**					
Laboratory ID:	04-186-02					
Methane	**5600**	55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**130**	0.29	RSK 175	4-29-20	4-29-20	
Client ID:	**MW-39:W**					
Laboratory ID:	04-186-03					
Methane	**1.1**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

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DISSOLVED GASES
RSK 175
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Methane	**ND**	0.55	RSK 175	4-29-20	4-29-20	
Ethane	**ND**	0.22	RSK 175	4-29-20	4-29-20	
Ethene	**ND**	0.29	RSK 175	4-29-20	4-29-20	

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK										
Laboratory ID:	SB0429W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	**21.7**	**21.5**	22.1	22.1	98	97	75-125	1	25	
Ethane	**40.6**	**39.9**	41.6	41.6	98	96	75-125	2	25	
Ethene	**41.1**	**40.6**	38.8	38.8	106	105	75-125	1	25	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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

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

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

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

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

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

I - Compound recovery is outside of the control limits.

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

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

L - The RPD is outside of the control limits.

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

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

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

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

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

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

Q - Surrogate recovery is outside of the control limits.

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

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

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

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

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

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

X - Sample extract treated with a mercury cleanup procedure.

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

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Kane Environmental
Project Number: 82302-9.4
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Mike Espinoza

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

Laboratory Number: 04-186

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	NEM (oil and grease) 1664A	TOC	dissolved Fe	chloride	sulfate	Ammonia-N	%Moisture	RSK
1	1-12-MW-31:W	4/27/20	0944	GW	9						X											X	X	X	X	X	X	
2	MW-40:W	4/27/20	1131	GW	9						X											X	X	X	X	X	X	
3	MW-39:W	4/27/20	1246	GW	9						X											X	X	X	X	X	X	

	Signature	Company	Date	Time
Relinquished	Mike Espinoza	Kane Env.	4/27/20	1337
Received		OSE	4/27/20	1337
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
lab filter
RSK = methane, ethane, ethene
↳ low detection limits (3-4 µg/L)
low detection limit for vinyl chloride

Data Package: Standard ☐ Level III ☐ Level IV ☐

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