

April 10, 2023

Sunny Becker, Ecology Site Manager  
Department of Ecology - Toxics Cleanup Program  
Northwest Region Office  
15700 Dayton Avenue North  
Shoreline, Washington 98133-9716



**Re: Quarterly Progress Report for period ending March 2023**

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: Jan - Mar 2023

Summary:

The City of Bothell (PLP) continues to make progress on work being performed for the Bothell Service Center Simon & Son 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 along with groundwater performance sampling. There was also coordination work done between the prospective Lot D developer, the City and Ecology.

The attached progress report provides an update on work accomplished for the period ending March 31, 2022. Please contact me if you have any questions.

Sincerely,

Ryan Roberts  
Project Coordinator, City of Bothell  
City of Bothell, Public Works Department  
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Email: [ryan.roberts@bothellwa.gov](mailto:ryan.roberts@bothellwa.gov)

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# PROGRESS REPORT

Reporting Period: Jan - Mar 2023  
Date submitted (electronically): Apr 10, 2022  
Date mailed (certified w/return receipt): *(deferred due to COVID-19 Stay at Home Order)*  
Prepared by: Scott Adamek, Project Engineer

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

- Continued operation of the bio-remediation system.
- Continued coordination with Ecology site manager and Lot D developer Trammel Crow.
- Groundwater performance monitoring was conducted.

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

No deviations from required tasks occurred during this quarter.

**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:**

No deviations from required tasks occurred during this quarter. Additional activities will be performed in the upcoming quarter to identify an optimal approach to accelerate site cleanup.

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

Based on the results of the last two groundwater performance monitoring rounds, the City of Bothell has determined that the estimated timeframe for total remedial action of 5 to 6 years, including groundwater performance and compliance monitoring, as presented in the CAP will not be met.

Consequently, the City of Bothell has initiated early planning and coordination with Ecology (conference call on 05April2023) for conducting a pilot test to identify and confirm a technical approach to accelerate site cleanup through optimizing the current enhanced bioremediation remedy in an effort to reach cleanup levels. The City of Bothell will send to Ecology a short letter briefly describing the path forward with major activities to accelerate site cleanup followed by a detailed work plan that describes initial pilot testing to identify or confirm a path to optimize the current enhanced bioremediation remedy described in the CAP.

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

An analytical results table and the associated analytical laboratory data reports for groundwater collected during this quarter are attached.

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

Same as the updated schedule with the following additional deliverable:

- Pilot Test Workplan for Optimizing Current Enhanced Bioremediation Approach.

**Attachments**

Groundwater Analytical Data Table

Analytical Laboratory Groundwater Data Packages

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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 Decommissioned	5 to 20	46.952	3/16/01			113	38.3	28.1	<1.0																
				7/13/01			23.7	10.3	4.82	<1.0																
				10/26/01			8.71	2.84	1.29	<1.0																
				12/2/02			239	380	1,200	<1.0																
				10/1/02			6.8	6.4	17				6.5		196.0	1.14	13.8									
				4/27/05			2,600	80	53				6.7		201.0	3.02	97.6									
				8/15/05			12,000	<50	<50																	
				8/14/06			18,000	<200	<200				5.9		284.0	0.9	499									
				5/14/07			12,000	<50	63				6.1		249.0	2.27	448									
				11/27/07			11,000	<100	<100				6.6		233.0	4.87	135									
				8/26/08			23,000	<200	<200				6.3		189.0	1.87	175			22			13.1	<1.2	<1.1	3.25
				1/9/09			450	10	6.6				6.3		88.0	10.5	120			8.8			<0.5	<0.5	<0.5	2.95
				6/11/09			17,000	<100	<100				6.1		242.0	2.32	80.1			18			8.6	<0.5	<0.5	2.2
				9/14/09			31,000	<200	<200				6.3		328.0	0.74	158			21			28	<2.5	<2.5	3.7
				5/27/10			23,000	<100	<100	<100			6.4		200.0	2.26	58.4									
				9/9/10			24,000	<200	<200	<200			6.8		249.0	0.38	0.3			20			14	<1.0	<1.0	2.6
				6/10/11			1,900	42	52	<10			6		141.0	5.6	39.3			13			1.1	<0.5	<0.5	4.3
				3/21/13			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			270	16	49	<0.02			7.1		117.0	5.5	-14						<0.7	<1.2	<1.1	8.28				
10/10/14			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	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	6,700	170	610	160		6.29		325.0															
10/25/16		7.72	39.23	160	6.6	16	<2.0		6.33	18.4	202.0															
MW-2	Shallow Decommissioned	5 to 20	48.897	3/16/01			13,800	834	106 ES	<1.0																
				7/13/01			419	16.4	<1.0	<1.0																
				10/26/01			532	<20.0	<20.0	<20.0																
				2/12/02			81.5	8.08	<1.0	<1.0																
				10/1/02			18	0.65	<0.2			6.4		319.0	0.89	-30										
				4/27/05			2,600	44	<10			5.8		319.0	0.42	149.2										
				8/15/05			29,000	<200	<200																	
				8/14/06			32,000	300	240			5.8		317.0	0.97	478.5										
				5/14/07			6,100	40	38			6		264.0	0.7	479.8										
				11/27/07			38,000	<200	<200			6.5		300.0	1.18	117.8										
				8/26/08			500	200	2,300			6.4		286.0	2.26	-69.2			5.3				1330	<1.2	<1.1	25.9
				1/8/09			270	550	290			6.5		296.0	0.56	24.7			7.3				500	<50	<50	6.36
				6/11/09			1,100	1,400	1,700			6.3		294.0	0.73	60.9			8.5				4400	<500	<500	6.4
				9/14/09			1,700	2,200	7,800			6.3		323.0	0.68	147.5			12				3800	<500	<500	13
				5/27/10			240	<60	12,000	70		6.1		512.0	0.31	-15.9										
				9/9/10			<200	<200	6,400	<200		6.5		420.0	0.21	-49.3			<5				9700	<500	<500	39
				6/10/11			150	1,100	11,000	3,200		6.2		809.0	0.34	-101.4			<10				5200	<380	680	71
				3/20/13			540	690	14,000	830 ES		7.4		561.0	0.31	-111							15900	<1.2	1240	27
4/7/14			390	630	5,300	850		7.2		320.0	0.3	-352							14500	<1.2	388	8.26				
10/10/14			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	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	8.1	6.6	8.1	6.6		6.59		241.0															
11/1/16		8.31	40.59	8.3	6.1	10	11		6.31	15.3	244.0															
MW-3	Shallow Decommissioned	5 to 20	47.957	3/16/01			<1.0	<1.0	<1.0	<1.0																
				10/26/01			<1.0	<1.0	<1.0	<1.0																
				2/12/02			<1.0	<1.0	<1.0	<1.0																
				10/1/02			0.37	<0.2	<0.2			5.9		284.0	1.12	30.8										
				4/27/05			<0.2	<0.2	<0.2			5.5		275.0	0.96	132										
				8/14/06			<0.2	<0.2	<0.2			5.8		307.0	1.95	456										
				5/14/07			<1.0	<0.2	<0.2			5.7		264.0	1.75	408										
				11/27/07			<1.0	<0.2	<0.2			6.2		330.0	0.76	78									2.47	
8/25/08			<0.2	<0.2	<0.2			5.9		172.0	2.88	374			18				<1	<1.2	<1.1	2.58				

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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)			
				4/7/14			<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			<b>0.39</b>	<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	<b>0.22</b>	<0.20	<0.20	<0.20	6.10		243.0													
				11/1/16	6.87	41.09	<0.20	<0.20	<0.20	<0.20	6.00	16.1	305.0													
				7/17/18	7.95	40.01	<1.00	<0.50	<1.00	<0.20	6.30	17.2	144.0	11.37												
				9/11/18	8.69	39.27	<1.00	<0.50	<1.00	<0.20	6.20	18.9	118.0	6.23	116.9	<100	19	2.94	<0.100	<0.00863	<0.0162	<0.0151	2.37			
				12/5/18	7.93	40.03	<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	<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	<b>0.72</b>	<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 Replaced	10 to 25	45.717	7/13/01			<b>9,390</b>	<b>58.8 ES</b>	<b>86ES</b>	<1.0																
				10/26/01			<b>8,960</b>	<b>74.7 ES</b>	<b>103 ES</b>	<1.0																
				2/12/02			<b>11,000</b>	<b>93.4 ES</b>	<b>133 ES</b>	<1.0																
				10/1/02			<b>21,000</b>	<b>230</b>	<b>400</b>		6.6		282.0	0.98	101											
				4/28/05			<b>6,700</b>	<b>160</b>	<b>110</b>		6.6		305.0	0.83	97.4											
				8/15/06			<b>8,500</b>	<b>210</b>	<b>250</b>		5.7		311.0	0.79	504											
				5/14/07			<b>8,600</b>	<b>370</b>	<b>160</b>		6.1		319.0	0.64	449											
				11/27/07			<b>5,400</b>	<b>220</b>	<b>120</b>		6.8		299.0	1.09	114											
				8/26/08			<b>11,000</b>	<b>790</b>	<b>270</b>		6.2		248.0	2.91	159		26					5.5	<1.2	<1.1	1.59	
				1/9/09			<b>5,200</b>	<b>250</b>	<b>180</b>		6.7		289.0	0.57	25.6		24					51	<5	<5	2.47	
				6/11/09			<b>1,600</b>	<b>2,000</b>	<b>240</b>		6.3		285.0	0.63	61.7		15					310	<25	<25	2.1	
				9/14/09			<b>10,000</b>	<b>890</b>	<b>510</b>		6.1		290.0	0.59	167		17					5400	<500	<500	1.8	
				5/27/10			<b>5,800</b>	<b>310</b>	<b>1,200</b>	<50	6.7		255.0	0.32	-32.1											
				9/10/10			<b>4,700</b>	<b>310</b>	<b>620</b>	<20	7		239.0	0.33	-10.2		19					4200	<500	<500	1.4	
				6/10/11			<b>3,300</b>	<b>160</b>	<b>970</b>	<20	6.8		287.0	0.34	-30.3		19					4100	<500	<500	1.7	
				3/21/13			<b>1,400</b>	<b>140</b>	<b>530</b>	<b>0.85</b>	6.8		337.0	1.1	45.6							16400	<1.2	<1.1	5.68	
				4/4/14			<b>1,500</b>	<b>160</b>	<b>1,900</b>	<b>5.6</b>	6.8		290.0	0.5	-53							15200	<1.2	<1.1	1.63	
				10/10/14			<b>2,000</b>	<b>140</b>	<b>240</b>	<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	<b>960</b>	<b>120</b>	<b>1,100</b>	<10	6.12		342.0	0.00	-54.4		15					3300	<250	<16	1.4	
				9/22/16	8.51	37.21	<b>380</b>	<b>71</b>	<b>1,300</b>	<10	6.28		433.0													
				10/31/16	6.91	38.81	<b>3,800</b>	<b>900</b>	<b>7,400</b>	<50	6.52	16.2	364.0													
				9/17/18	8.89	36.83	<b>4,060</b>	<b>360</b>	<b>1,740</b>	<b>11.9</b>	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	<b>4,370</b>	<b>373</b>	<b>1,720</b>	<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	<b>4,080</b>	<b>343</b>	<b>1,790</b>	<b>9.72</b>	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	<b>5,500</b>	<b>370</b>	<b>1,100</b>	<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	<b>3,700</b>	<b>590</b>	<b>1,400</b>	<b>9.1</b>	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	<b>1,900</b>	<b>390</b>	<b>940</b>	<b>7.5</b>	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	<b>1,600</b>	<b>250</b>	<b>760</b>	<b>6.7</b>	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	<b>1,600</b>	<b>210</b>	<b>760</b>	<b>14</b>	6.47	17	377.4	0.29	32.9	1,300	12	13	<0.050	8.3	<0.00022	<0.00029	1.6							
7/23/20	8.07	37.65	<b>900</b>	<b>160</b>	<b>570</b>	<b>12</b>	6.24	20.3	378.9	0.2	17.1	3,700	12	12	<0.050	8.7	<0.00022	<0.00029	1.8							
10/21/20	8.66	37.06	<b>650</b>	<b>160</b>	<b>500</b>	<b>32</b>	5.99	19.9	349.7	0.12	30.6	<56	11	13	<0.050	7.6	<0.00022	0.0042	1.8							
3/3/21	7.09	38.63	<b>630</b>	<b>87</b>	<b>260</b>	<b>48</b>	6.25	18.3	804.0	-	-12.4	6,900	<5.0	13	<0.050	5.1	<0.00022	0.0047	9.0							
6/10/21	8.28	37.44	<b>400</b>	<b>150</b>	<b>540</b>	<b>33</b>	6.29	18	572.0	0.06	-66.7	5,200	6.4	11	<0.050	4.0	<0.00022	<0.00029	4.1							
MW-4R	Shallow	10 to 25		8/2/21	9.33		<b>2,000</b>	<b>120</b>	<b>230</b>	<b>20</b>	6.14	20.2	393.4	0.29	51.2	3,000	25	8.9	<0.050	3.4	<0.00022	<0.00029	3.8			
				8/30/22	7.68		<b>1,300</b>	<b>220</b>	<b>640</b>	<b>40</b>	6.17	18.8	571.0	0.03	-8.2	3,700	28	4.7	<0.050	15	<0.00022	<0.00029	6.1			
				2/20/23	6.46		<b>490</b>	<b>110</b>	<b>1,200</b>	<b>52</b>	6.35	15.2	453.7	0.10	-13.9	2,900	25	3.8	<0.050	9.9	<0.00022	<0.00029	3.0			
MW-5	Shallow Replaced	10 to 25	44.297	7/13/01			<b>2,650</b>	<b>14.5</b>	<b>31.1</b>	<1.0																
				10/26/01			<b>1,670</b>	<100	<100	<100																
				2/12/02			<b>1,310</b>	<b>18.2</b>	<b>38.5</b>	<1.0																
				10/1/02			<b>3,900</b>	<b>72</b>	<b>170</b>		6.2		185.0	0.84	70.6											
				4/28/05			<b>2,200</b>	<b>56</b>	<b>76</b>		5.6		262.0	1.25	150											
				8/15/05			<b>640</b>	<b>12</b>	<b>20</b>																	
				8/14/06			<b>10,000</b>	<b>240</b>	<b>270</b>		5.7		259.0	0.91	470											
				5/14/07			<b>650</b>	<b>16</b>	<b>23</b>		5.7		290.0	1.63	448											
				11/27/07			<b>1,300</b>	<b>25</b>	<b>31</b>		6		262.0	7.09	128											
8/26/08			<b>21,000</b>	<b>660</b>	<b>630</b>		6		203.0	3.29	273		32					5.7	<1.2	<1.1	1.95					

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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)			
				5/27/10			6,600	400	240	<50	6		198.0	0.55	109											
				3/21/13			3,100	220	180	<0.2	6.4			304.0	0.4	69.8						5940	<1.2	<1.1	3.94	
				4/4/14			1,300	79	65	0.03	6.7			257.0	0.1	-35						2570	<1.2	<1.1	1.59	
				10/10/14			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	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	910	39	35	<10	5.96			170.0												
				10/24/16	6.38	37.92	590	26	29	<4.0	6.22	16.1		291.0												
				9/14/18	8.27	36.03	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	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	140	81	280	4.1	6.53	16.4	548.0	0.22	-6.2	20,000	6.6	12	1.8	1.6	<0.250	<0.250	3.8			
6/18/21	7.51	36.79	<0.20	0.22	18	16	6.34	18.1	488.1	0.08	-156.1	10,000	<5.0	5.2	1.8	3.2	<0.00022	0.0031	6.7							
MW-5R	Shallow	10 to 25		8/3/21	8.30		1,800	38	34	2.2	5.80	17.9	255.4	0.28	158.6	<56	21	12	<0.050	1.3	<0.00022	<0.00029	2.1			
				9/1/22	8.64		2,300	57	85	4.4	5.59	16.9	209.0	0.07	11.3	74	25	5.7	<0.050	6.5	<0.00022	<0.00029	1.4			
				2/20/23	8.90		1,700	50	140	2.3	6.03	14.9	197.9	0.17	116.4	<56	26	5.7	<0.050	7.1	<0.00022	<0.00029	1.2			
MW-6	Shallow	10 to 25	47.142	7/13/01			30,000	618	231 ES	<1.0																
				10/26/01			13,500	<400	<400	<400																
				2/12/02			21,800	1,110 ES	406 ES	<1.0																
				10/1/02			27,000	1,100	470		6.6		201.0	0.92	95.2											
				4/27/05			15,000	1,100	460		6.2		235.0	3.14	119											
				8/15/05			30,000	1,500	930																	
				8/14/06			24,000	1,100	1,500		5.8		335.0	1.06	483											
				5/14/07			17,000	860	1,300		6		296.0	2.18	471											
				11/27/07			22,000	940	1,300		6.6		285.0	2.75	149											
				8/26/08			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			12,000	610	440		6.5		190.0	4.94	115		15			2.9	<0.5	<0.5	2.54			
				6/11/09			20,000	780	710		6		270.0	1.96	98		20			8	<0.5	<0.5	2.1			
				9/14/09			23,000	1,200	870		6.3		315.0	0.74	158		23			8.8	<0.5	<0.5	3.1			
				2/25/10			17,000	730	450	<100	6.4		176.0	2.49	170											
				5/27/10			13,000	480	320	<60	6.6		250.0	0.3	38.1											
				9/10/10			860	430	8,300	<50	6.6		492.0	0.34	-67.2		<5			64	<6.0	<6.0	19			
				6/10/11			460	72	2,100	<20	6.5		561.0	0.44	-178		<5			490	<50	<50	33			
				3/20/13			500	140	9,600	56 ES	7.3		444.0	0	-144					5790	<1.2	2	12.3			
				4/4/14			950	220	240	19	6.8		243.0	0.4	-142					1620	<1.2	<1.1	1.93			
				10/10/14			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	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	240	69	10,000	2,400	6.81		559.0													
				10/27/16	7.87	39.27	<50	<50	9,500	1,900	6.60	17.5	410.0													
				7/17/18	8.92	38.22	27.4	14.3	4,480	851	6.91	20.3	365.0	0.00												
				9/18/18	9.51	37.63	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	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	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	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	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	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	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	23	7.4	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			
				7/20/20	8.28	38.86	1.0	1.1	47	58	6.32	22.7	639.0	0.25	-60.4	38,000	<5.0	12	0.16	10	<0.00022	0.071	49			
				10/19/20	8.83	38.31	2.3	0.61	3.8	8.2	6.00	21.5	654.0	0.11	-51.0	11,000	<5.0	11	3.9	8.8	<0.00022	0.026	63			
				2/23/21	8.23	38.91	<0.20	<0.20	10	14	5.94	15.4	629.0	-	-88.5	28,000	<5.0	11	2.3	13	<0.00022	0.016	14			
				6/15/21	9.37	37.77	<0.20	<0.20	1.9	8.0	6.27	17.5	726.0	0.09	-125.1	30,000	<5.0	8.3	4.0	2.9	<0.00022	0.0048	10			
				9/12/22	-		17	12	11	0.35	6.36	18.6	787.0	0.12	2.9	5,500	18	6.7	3.5	4.3	0.0023	<0.00029	8.0			
				2/20/23	-		4.0	4.8	7.9	3.1	6.73	14.5	783.0	0.20	-124.2	41,000	23	8.2	4.0	6.6	<0.00022	<0.00029	14			
MW-7	Shallow	10 to 25	45.527	7/13/01			10,100	35	30	<1.0																
				10/26/01			4,880	15	13.8	<1.0																
				2/12/02			3,800	10.5	9.28	<1.0																

**Table 1**  
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Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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)				
				10/1/02			9,600	<100	<100		6.7		214.0	0.71	-22.6												
				4/28/05			1,100	<10	<10		6.2		315.0	0.84	126												
				8/15/05			4,900	27	<20																		
				8/14/06			4,000	<40	<40				6.1		303.0	0.82	386										
				5/14/07			320	2.7	<2.0				6.2		352.0	0.54	437										
				11/27/07			1,200	<10	<10				6.9		336.0	0.38	76.6										
				8/26/08			4,300	43	43				6.5		240.0	2.74	116			25			42.6	<1.2	<1.1	2.1	
				1/8/09			760	7.8	4.8				6.7		330.0	0.7	84.3			27			110	<5.0	<5.0	3.6	
				6/11/09			2,100	34	33				6.5		340.0	0.62	62.3			25			140	<10.0	<10.0	2.3	
				9/14/09			6,300	120	79				6.3		318.0	0.72	170			24			23	<2.5	<2.5	1.9	
				5/27/10			830	18	14	<10			6.6		289.0	0.63	-22.6										
				9/9/10			5,400	110	55	<50			6.8		295.0	0.31	-21.4			24			190	<25.0	<25.0	1.7	
				6/10/11			810	24	16	<4.0			6.7		346.0	0.52	-43.5			16			240	<10.0	<10.0	2.4	
				3/21/13			3,300	140	240	0.28			7		385.0	0.21	-3.6						741	<1.2	<1.1	6.29	
				4/4/14			2,100	130	750	2.3			7.1		329.0	0.6	-47						989	<1.2	<1.1	2.57	
				10/11/14			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	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	3,800	160	1,300	<20		6.32		350.0												
				10/25/16		8.21	37.32	450	32	280	<4.0		6.88	15.7	323.0												
				10/26/16		7.3	38.23						6.62	14.9	316.0						22		<0.050				2.8
				9/18/18		9.12	36.41	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	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	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						
6/18/21		8.73	36.80	190	35	140	17		6.59	19.2	607.0	0.05	-132.2	13,000	27	11	0.056	3.2	<0.00022	<0.00029	2.5						
9/28/22		8.41		2,100	220	1,100	130		6.03	17.5	562.7	0.15	16.8	8,200	17	8.8	0.078	12	<0.00022	0.0032	3.1						
2/21/23		7.05		1,300	210	420	2.6		6.40	14.6	489.7	0.23	-7.1	7,400	26	6.8	<0.050	4.6	<0.00022	<0.00029	3.2						
MW-8	Deep Decommissioned	45 to 50	47.387	10/1/02			51	0.98	0.88		7		487.0	0.73	-355												
				4/28/05			6.4	<0.2	<0.2		6.3		186.0	0.97	104												
				8/15/06			0.44	<0.2	<0.2		6.2		167.0	2.43	447												
				5/14/07			4.3	<0.2	<0.2		6.1		145.0	2.89	419												
				11/27/07			2.2	<0.2	<0.2		6.7		164.0	0.54	80.7												
				5/22/08			79	7.2	12			6.2		139.0	5.8	153											
				8/25/08			93	4.8	4.4			6.3		118.0	2.1	391			12			<0.7	<1.2	<1.1	<1.5		
				3/20/13			33	1	2	<0.02		6.7		218.0	0.06	10.1						649	<1.2	<1.1	6.04		
				4/4/14			130	37	41	<0.02		6.8		181.0	1	-44						<0.7	<1.2	<1.1	1.98		
				10/11/14			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	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	50	6.2	25	<0.20		6.33		229.0												
				10/26/16		8.48	38.91	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	8.75	1.59	4.21	<0.20		6.81	15.8	173.0	0.32											
				9/17/18		10.33	37.06	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	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	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	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	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	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	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	0.94	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						
7/20/20		9.57	37.82	0.40	<0.20	0.56	<0.020		6.12	23.3	203.0	0.41	59.5	110	12	5.5	<0.050	0.026	<0.00022	<0.00029	2.4						
10/16/20		9.62	37.77	0.54	<0.20	<0.20	<0.020		5.94	21.2	180.8	0.12	111.2	<56	13	6.7	<0.050	0.012	<0.00022	<0.00029	2.0						
2/23/21		9.22	38.17	0.43	<0.20	<0.20	<0.020		5.87	16.3	180.1	-	19.8	170	12	8.7	<0.050	0.007	0.00085	0.0003	1.8						
6/10/21		11.45	35.94	<0.20	<0.20	<0.20	<0.020		6.43	18.7	211.3	0.24	7.7	100	11	13	<0.050	0.00066	<0.00022	<0.00029	1.9						
MW-9	Deep Decommissioned	45 to 50	49.857	10/1/02			250	<2.0	<2.0		7.3		373.0	0.91	-197												
				4/27/05			53,000	<100	<100		6.9		246.0	1.02	78.7												
				8/15/05			140,000	<200	<200																		

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Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)			
				11/27/07			13,000	<100	<100		7.5		117.0	7.5	148											
				5/22/08			8,800	<50	<50		7.4		191.0	1.1	68.9											
				8/26/08			6,000	3,400	<50		7.2		166.0	1.2	102							982	<1.2	<1.1	1.65	
				1/9/09			160,000	<1,000	<1,000		7.5		213.0	1.4	78.9							530	<50	<50	1.79	
				6/11/09			43,000	<300	<300		6.6		98.0	7.7	83.3							84	<5	<0.5	<1.0	
				9/14/09			21,000	<200	<200		6.7		139.0	3.01	167							2.2	<0.5	<0.5	1.4	
				2/25/10			16,000	<100	<100	<100	7.5		63.0	5.97	148											
				9/10/10			6,500	36	<30	<30	7.7		147.0	2.91	-63.7								4.3	<0.5	<0.5	<1.0
				6/10/11			21,000	<200	<200	<200	7.6		218.0	0.39	63.2								1400	<100	<100	1.3
				3/20/13			DNAPL	DNAPL	DNAPL	DNAPL																
				4/7/14			15,000	46	22	<0.02	7		194.0	0.4	-98								2200	<1.2	<1.1	1.89
				10/11/14			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	890	560	680	<10	5.90		139.0	0.00	45.6						190	<15	6.1	<1.0
				9/22/16			11.2	38.66	53,000	<500	<500	<500	7.41		222.0											
10/26/16			9.71	40.15	42,000	<300	<300	<300	7.54	14.8	254.0								3,300		0.44		<1.0			
MW-10	Shallow Decommissioned	5 to 25		4/27/05			3	<0.2	<0.2																	
MW-10R	Shallow Decommissioned	15 to 25	49.392	9/19/16	9.98	39.41	1.6	<0.20	<0.20	<0.20	6.61		188.0													
				11/1/16	8.34	41.05	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			28	0.26	<0.2		6.6		176.0	1.26	165											
				5/22/08			23	0.24	<0.2		6.2		174.0	0.84	132											
				8/25/08			27	0.53	<0.2		6.3		142.0	1.46	238					18		29.8	<1.2	<1.1	1.71	
				3/20/13			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			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			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	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	9.9	<0.20	0.42	<0.20	6.29		408.0													
				10/26/16	7.98	39.23	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	11.2	2.12	3.73	<0.20	6.58	20.4	295.0	0.16												
				9/17/18	9.82	37.39	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	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	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	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	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	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	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	8.0	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			
				7/20/20	8.74	38.47	<0.20	<0.20	1.1	18	6.34	23.1	729.0	0.17	-38.7	6,900	<5.0	12	0.28	15	<0.00022	0.05	92			
				10/19/20	9.00	38.21	13	15	79	30	6.18	20.2	745.0	0.08	-91.3	8,600	7.6	14	5.1	9.7	<0.00022	0.019	60			
				2/26/21	8.02	39.19	<0.40	0.92	22	49	6.27	15.5	651.0	-	-110.1	16,000	11	12	3.5	11	<0.00022	0.018	7.4			
				6/15/21	9.24	37.97	1.5	23	49	89	6.54	17.8	521.0	0.04	-132.2	4,700	35	7.6	1.5	1.6	<0.00022	0.0049	6.7			
				9/28/22	7.50		<0.40	0.45	21	48	6.50	16.5	433.2	0.16	-41.7	1,000	23	2.9	0.27	3.0	<0.00022	0.0032	3.8			
				2/20/23	6.10		<0.20	<0.20	5.0	34	6.93	14.6	342.0	0.4	-67.7	1,800	31	2.1	0.20	1.6	<0.00022	0.0039	4.1			
MW-12	Intermediate	25 to 33	45.467	11/28/07			2,300	30	39		6.9		326.0	1.48	165											
				5/22/08			2,800	53	61		6.5		277.0	1.51	132								2.02			
				8/26/08			1,600	<10	<10		6.3		227.0	2.12	4.6					19		<0.7	<1.2	<1.1	5.04	
				1/8/09			3,200	88	44		6.5		309.0	0.77	70					22		16	<1.0	<1.0	3.11	
				6/11/09			2,500	53	29		6.2		293.0	0.62	75.4					22		30	<3.0	<3.0	1.7	
				9/14/09			700	5.1	<4		6.2		263.0	0.77	168					20		4.8	<0.5	<0.5	2.4	
				5/27/10			2,800	240	80	<20	6.5		265.0	0.32	8.7											
				9/9/10			1,500	22	<20	<20	6.8		226.0	0.32	9.5					15		490	<50	<50	1.1	
				6/10/11			5,800	270	180	<30	6.5		348.0	0.49	-14.6					19		1000	<100	<100	2.5	
				3/20/13			4,800	210	920	1.6	6.8		392.0	0.05	-18.8						12900	<1.2	<1.1	7.97		
				4/4/14			5,900	240	730	2.1	6.9		327.0	0.1	-52						12300	<1.2	<1.1	2.88		
				10/10/14			4,100	390	150	<2.0 U	6.2		360.0	0.2	-25.6						12800	<1.2 U	<1.1 U	2.82		



**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)		
				11/11/15	9.61	35.93	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	1,100	140	730	<10	6.37				410.0										
				10/26/16	7.26	38.21	1,300	230	1,600	<20	6.56	15.6			369.0				13		<0.050				2.1
				7/20/18	8.44	37.03	4,110	351	2,110	14.3	6.45	14.8			162.0	0.66									
				9/10/18	9.14	36.33	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	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	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	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	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	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	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
				7/22/20	6.45	39.02	250	93	85	2.7	6.16	19.1			488.0	0.19	31.4	6,500	29	19	<0.050	7.5	<0.00022	<0.00029	3.3
				10/21/20	8.83	36.64	450	81	93	3.6	5.86	18.8			456.8	0.17	30.6	5,200	35	14	<0.050	7.4	<0.00022	<0.00029	3.4
				3/3/21	8.00	37.47	650	65	140	20	5.95	17.4			478.6	-	12.5	8,200	19	12	<0.050	10	<0.00022	0.00069	3.9
				6/15/21	8.77	36.70	820	170	180	5.1	6.28	18.5			468.3	0.10	-60.7	6,900	16	12	<0.050	1.8	<0.00022	<0.00029	3.6
9/27/22	7.90		20	12	330	49	6.22	17.6			1057	0.19	-30.9	7,400	<5.0	8.7	<0.050	11	<0.00022	0.014	23				
2/20/23	6.55		59	33	130	18	6.52	15.8			855	0.11	-61.5	9,100	<5.0	6.9	<0.050	8.3	<0.00022	0.013	11				
MW-13	Deep Damaged	40 to 55	48.777	11/28/07			<1.0	<0.2	<0.2		7.10		152.0	1.35	151										
MW-14	Intermediate Decommissioned	22 to 32	49.157	11/28/07			<0.2	<0.2	<0.2		7.0		146.0	4.0	160										
				11/11/15	10.23	38.96	<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	0.91	<0.20	<0.20	<0.20	6.08		243.0												
11/1/16	8.29	40.87	<0.20	<0.20	<0.20	<0.20	5.96	15.6		307.0															
MW-15	Intermediate Decommissioned	22 to 32		11/28/07			<0.2	<0.2	<0.2		6.8		157.0	4.0	170										
MW-16	Deep Decommissioned	40 to 55		11/28/07			10	<0.2	<0.2		7.9		124.0	6.9	130										
MW-17	Deep Damaged	40 to 50	48.947	11/28/07			6.5	<0.2	<0.2		7.7		188.0	0.49	141										
MW-18	Intermediate Decommissioned	22 to 30	48.747	11/28/07			270	<2.0	<2.0		7.2		266.0	0.83	158										
				5/22/08			<0.25	<0.25	<0.25																
				4/4/14			2.4	1.2	14	3.3	6.1		493.0	0.3	-111						16700	<1.2	<1.1	48.5	
				10/11/14			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	7.8	<0.20	1.3	0.26	6.02		238.0												
10/27/16	8.11	40.64	<0.20	<0.20	2.0	0.47	5.90	15.8		256.0															
MW-19	Shallow Decommissioned	9 to 19	47.517	11/16/15	9.31	38.26	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	1,800	84	490	34	6.34		313.0												
				10/25/16	8.02	39.50	5,700	140	860	61	6.70	17.8		296.0											
MW-20	Intermediate Replaced	25 to 30	46.857	11/16/15	9.20	37.70	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	190	45	120	9.0	6.66		340.0												
				10/26/16	7.73	39.13	140	44	120	17	6.44	16.4		348.0					43		0.21				4.3
				12/20/18	7.5	39.36	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	<0.841	136	163	<2.0	6.00	-		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	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	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	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	<1.0	<1.0	190	46	6.87	26.7		483.0	0.13	-45.2	910	<5.0	14	0.65	13	<0.00022	<0.00029	13	
				4/21/20	8.44	38.41	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	
				7/27/20	8.45	38.41	<0.20	<0.20	<0.20	4.0	-	23.9		925.0	0.17	-55.3	1,800	<5.0	13	0.62	17	<0.00022	0.028	9.3	
10/21/20	8.66	38.20	<0.20	<0.20	<0.20	34	6.35	21.4		446.2	0.13	-35.0	130	<5.0	11	0.42	14	<0.00022	0.025	6.3					
2/26/21	7.64	39.22	<0.20	<0.20	<0.20	1.6	6.41	17.4		369.1	-	-82.7	2,600	<5.0	12	0.35	14	<0.00022	0.028	3.8					
6/8/21	9.01	37.85	<0.20	<0.20	<0.20	4.6	6.49	18.6		343.0	0.07	-128.2	1,600	<5.0	13	0.49	4.0	<0.00022	0.0077	4.0					
MW-20R	Intermediate	25 to 30		6/22/21	8.32		430	220	230	40	6.60	21.4	896.0	0.07	-97.2	16,000	9.2	11	0.17	4.1	<0.00022	0.011	12		
				9/1/22	7.80		67	96	160	72	6.48	17.5		405.0	0.34	-45.5	3,500	15	9.9	0.16	7.1	0.036	0.077	9	
				2/2/23	6.52		150	140	120	87	6.48	15.5		397.1	0.11	-73.4	6,200	15	15	0.10	4.7	0.004	0.066	6.2	

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Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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-21	Shallow Replaced	10 to 15	45.717	11/16/15	9.41	35.58	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	27,000	540	360	<200	6.56			355.0											
				10/31/16	6.97	38.75	8,400	210	190	<50	6.32	17.7	319.0												
				9/10/18	9.31	36.41	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	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	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		
				6/10/21	8.38	37.34	69	0.83	0.45	0.043	6.04	17.0	192.1	0.49	12	<56	20	6.1	<0.050	1.0	<0.00022	<0.00029	<1.0		
MW-21R	Shallow	10 to 15		8/3/21	8.74		7,000	260	150	<1.0	6.49	19.1	370.2	1.54	136.7	<56	22	16	<0.050	4.1	<0.00022	<0.00029	2.0		
				8/30/22	8.50		240	15	21	0.13	6.34	21.0	367.0	0.48	8.0	59	23	2.7	<0.050	0.2	<0.00023	<0.00030	3.2		
				2/3/23	7.50		16	1.7	4.2	0.41	6.27	14.3	389.3	0.08	60.6	92	24	3.5	<0.050	1.2	<0.00022	<0.00029	2.9		
MW-22	Deep Decommissioned	54 to 59	44.957	11/16/15	8.91	36.84	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	11	<0.20	1.5	<0.20	7.42		236.0												
				10/26/16	7.16	37.80	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	<1.00	<0.50	1.6	<0.20	7.87	15.4	214.0	0.00											
				9/19/18	8.85	36.11	<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	<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	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	0.46	<0.20	<0.20	<0.20	5.91		123.0												
				11/1/16	7.29	40.74	2.2	<0.20	<0.20	<0.20	6.19	15.0	128.0												
				9/19/18	9.04	38.99	<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	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	2.11	<0.50	<1.0	<0.20	5.34	11.6	75.1	5.16	128.7	<100	6.02	1.46	<0.10	<0.00863	<0.0162	<0.0151	1.17		
				6/4/19	8.57	39.46	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		
				6/17/21	8.91	39.12	<0.20	0.57	<0.20	<0.020	6.04	14.6	191.6	0.15	-109.0	3,100	6.7	2.1	<0.050	1.4	<0.00022	<0.00029	3.4		
				10/14/22	10.45		<0.20	<0.20	<0.20	<0.020	5.31	16.2	148.1	1.81	190.2	790	20	2.6	<0.050	0.41	<0.00022	<0.00029	3.0		
2/6/23	10.00		0.35	<0.20	<0.20	<0.020	5.88	12.1	216.0	2.13	126.7	250	17	6.5	<0.050	3.4	<0.00022	<0.00029	1.9						
MW-24	Deep	44 to 54	48.962	11/1/16	8.89	40.07	9.0	<0.20	<0.20	<0.20	8.44	14.7	225.0												
MW-25	Shallow Decommissioned	7.5 to 17.5	46.207	9/20/16	9.22	36.99	4,200	<20.0	<20.0	<20.0	6.56		324.0												
				10/25/16	7.75	38.46	99	7.4	10	<1.0	6.58	17.3	184.0												
MW-26	Intermediate Decommissioned	25 to 35	46.047	9/20/16	9.04	37.01	13	0.29	5.3	<0.20	6.48		379.0												
				10/31/16	7.65	38.40	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	120	<1.0	<1.0	<1.0	6.31		87.0												
				10/31/16	8.22	39.96	120	<0.40	<0.40	<0.40	5.95	16.4	63.0												
				7/19/18	10.40	37.78	138	<0.50	<1.00	<0.20	5.89	15.2	126.0	17.18											
				9/14/18	10.98	37.20	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	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	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	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	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	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	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		
				7/27/20	9.95	38.23	60	<0.40	<0.40	<0.040	5.20	17.1	147.1	3.75	105.3	74	21	<2.0	<0.050	<0.00055	<0.00022	<0.00029	1.2		
				10/19/20	9.98	38.20	69	<0.40	<0.40	<0.040	4.95	16.9	105.6	3.67	76.3	<56	26	<2.0	<0.050	0.0036	<0.00022	<0.00029	1.0		
				2/26/21	7.87	40.31	54	<0.40	<0.40	<0.040	4.92	11.8	88.0	0.48	81.8	<56	18	<2.0	<0.050	1.3	<0.0033	<0.0043	<1.0		
				6/17/21	9.87	38.31	39	<0.20	<0.20	<0.020	5.62	16.4	85.3	1.55	138.2	<56	15	<2.0	<0.050	0.68	<0.00022	<0.00029	<1.0		
				9/22/22	10.22		35	6.4	1.4	<0.020	5.15	17.2	185.9	0.59	109.9	3,300	16	2.0	0.056	0.46	<0.00022	<0.00029	3.9		
2/21/23	8.59		25	6.7	8.1	<0.020	5.31	10.6	139.1	0.28	108.3	1,400	27	<2.0	<0.050	2.3	<0.00022	<0.00029	1.5						
MW-28	Intermediate Decommissioned	25 to 35	48.187	9/15/16	10.39	37.80	<0.20	<0.20	<0.20	<0.20	6.22		157.0												
				11/1/16	8.8	39.39	<0.20	<0.20	<0.20	<0.20	5.97	15.2	105.0												
				7/19/18	10.48	37.71	<1.00	<0.50	<1.00	<0.20	6.32	14.2	122.0	3.12											
				9/14/18	10.6	37.59	<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	<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	<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	<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	<0.20	<0.20	<0.20	<0.20	7.33		254.0												

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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)		
				10/27/16	9.01	39.23	0.44	<0.20	<0.20	<0.20	7.06	14.5	252.0												
				7/17/18	10.32	37.92	<1.00	<0.50	<1.00	<0.20	7.57	14.4	236.0	0.00											
				9/14/18	10.73	37.51	<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	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	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	<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	<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	<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	<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		
				8/10/20	10.54	37.70	1.9	<0.20	<0.20	<0.020	6.28	17.5	236.5	0.14	176.4	390	5.1	5.5	0.29	0.17	<0.00022	<0.00029	2.0		
				10/19/20	10.40	37.84	<0.20	<0.20	<0.20	<0.20	6.84	15.6	263.5	0.17	-62.8	<56	5.2	6.1	0.28	0.2	<0.00044	<0.00058	2.0		
				2/26/21	9.36	38.88	<0.02	<0.20	<0.20	<0.20	6.56	13.9	255.1	-	-60.1	1,700	7.0	6.9	0.27	0.11	<0.00022	<0.00029	2.3		
				6/17/21	10.43	37.81	<0.20	<0.20	<0.20	<0.020	7.25	16.2	266.3	0.12	-147.7	320	6.1	6.5	0.30	0.059	<0.00022	<0.00029	2.3		
9/22/22	10.10		<0.20	<0.20	<0.20	<0.020	6.72	16.2	270.8	0.21	-77.4	<100	<5.0	5.9	0.27	0.22	<0.00022	<0.00029	1.9						
2/10/23	8.71		<0.20	<0.20	<0.20	<0.020	6.87	13.6	264.3	0.11	-24.9	1,300	<5.0	4.8	0.21	0.23	<0.00022	<0.00029	1.8						
MW-30	Shallow Decommissioned	9 to 19	48.142	9/20/16	8.81	39.33	92,000	<500	<500	<500	6.65		241.0												
				10/26/16	7.33	40.81	130,000	<1,000	1,300	<1,000	6.40	15.7	619.0			120			0.15					26	
MW-31	Deep Decommissioned	40 to 50	47.817	9/20/16	9.81	38.01	11	0.25	<0.20	<0.20	6.80		244.0												
				10/28/16	8.25	39.57	7.8	0.22	<0.20	<0.20	6.79		250.0												
MW-32	Deep Decommissioned	45 to 55	45.952	9/19/16	8.94	37.01	950	7.7	<4.0	<4.0	7.57		285.0												
				10/27/16	7.51	38.44	1,200	<10	<10	<10	7.65	14.8	276.0												
MW-33	Deep Decommissioned	40 to 50	49.547	9/16/16	10.61	38.94	<0.20	<0.20	<0.20	<0.20	6.38		258.0												
				10/27/16	9.19	40.36	0.34	<0.20	<0.20	<0.20	6.37	15.0	221.0												
				12/5/18	10.4	39.15	<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	<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	<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	20	1.5	12	0.29	6.33		271.0												
				10/27/16	7.75	38.85	6.6	0.54	2.4	<0.20	6.21	15.6	254.0												
				7/16/18	8.82	37.78	<1.00	<0.50	<1.00	<0.20	6.53	15.5	240.0	0.00											
				9/18/18	9.45	37.15	<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	<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	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	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		
				6/15/21	8.65	37.95	0.30	0.34	0.44	0.11	6.32	19.0	183.8	0.11	-22.3	900	11	9.5	<0.050	0.29	<0.00022	<0.00029	1.8		
9/1/22	7.70		0.20	<0.20	0.2	0.67	6.25	18.7	276.0	0.42	12.4	1,600	18	11	<0.050	0.30	<0.00022	<0.00029	1.9						
2/3/23	6.65		<0.20	<0.20	<0.20	2.6	6.19	15.30	305.80	0.09	32.6	2,000	20	11	<0.050	0.34	<0.00022	<0.00029	1.6						
MW-35	Deep Decommissioned	48 to 58	44.247	9/16/16	8.19	36.06	2.1	<0.20	<0.20	<0.20	6.92		230.0												
				10/27/16	6.65	37.60	1.4	<0.20	<0.20	<0.20	6.92	14.4	235.0												
				7/16/18	7.74	36.51	<1.00	<0.50	<1.00	<0.20	7.35	15.0	217.0	0.13											
				9/10/18	8.45	35.80	<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	<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	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	<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	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	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	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		
				7/23/20	8.81	35.44	0.23	<0.20	<0.20	0.022	6.54	16.9	276.5	0.22	17	2,700	<5.0	7.9	0.19	0.36	<0.00022	<0.00029	2.1		
10/21/20	7.69	36.56	0.84	<0.20	<0.20	0.036	6.20	16.3	230.7	0.17	12.1	1,700	5.3	8.5	0.17	0.34	<0.00022	<0.00029	2.0						
2/26/21	8.67	35.58	<0.20	<0.20	<0.20	0.022	6.28	15.0	228.8	-	-22.3	3,300	<5.0	9.2	0.18	0.39	<0.00022	<0.00029	2.0						
6/10/21	7.67	36.58	0.24	<0.20	<0.20	<0.020	6.72	16.9	237.7	0.09	-99.6	3,300	<5.0	9.6	0.25	0.18	<0.00022	<0.00029	2.1						
MW-36	Intermediate Decommissioned	25 to 35	47.327	9/19/16	8.68	38.65	2.5	<0.20	<0.20	<0.20	6.56		257.0												
				11/1/16	7.31	40.02	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	0.7	<0.20	<0.20	<0.20	6.40		272.0												
				11/1/16	7.53	40.03	0.74	<0.20	<0.20	<0.20	6.54	14.9	247.0												
MW-38	Deep	40 to 50	47.187	9/19/16	10.44	36.75	1.3	<0.20	<0.20	<0.20	6.89		271.0												

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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)	
	<i>Decommissioned</i>			10/28/16	7.66	39.53	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	95	<0.40	<0.40	<0.40	7.11	16.5	279.0											
				7/25/18	7.15	37.37	<1.00	<0.50	1.03	<0.20	7.11	17.2	190.0	0.00										
				12/17/18	6.33	38.19	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	<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	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	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	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	<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	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	
				7/29/20	6.92	37.60	<0.20	0.2	0.77	0.042	6.49	22.5	335.3	0.13	-30	5,500	<5.0	4.9	0.64	0.68	<0.00022	<0.00029	3.6	
				10/22/20	6.99	37.53	1.3	0.42	1.2	0.063	6.12	19.1	274.8	0.36	13.3	100	<5.0	4.6	0.56	0.66	<0.00022	<0.00029	3.3	
				3/19/21	6.29	38.23	79	15	1.6	<0.04	6.79	17.5	259.6	0.43	-53.3	4,800	<5.0	4.4	0.50	0.11	<0.00022	<0.00029	2.9	
				6/21/21	7.34	37.18	280	40	<2.0	<0.2	6.57	20.9	296.9	0.13	-106.1	6,800	7.5	5.3	0.59	0.19	<0.00022	<0.00029	3.9	
				9/29/22	7.86		270	61	<2.0	0.85	6.16	16.6	386.5	0.19	-10.8	8,600	24	8.5	0.57	0.3	<0.00022	0.002	5.0	
2/6/23	7.15		210	60	<1.0	0.10	6.39	14.1	401.5	0.28	-34.4	9,000	21	7.8	0.44	0.41	<0.00022	<0.00029	4.8					
MW-40	Shallow	15 to 25	44.521	10/25/16	8.21	36.31	25,000	<100	<100	<100	6.69	16.5	321.0											
				11/2/16	6.3	38.22	11,000	<100	<100	<100	6.73	14.9	229.0											
				7/25/18	7.00	37.52	5,460	55.6	9.5	<0.20	7.24	20.4	320.0	0.13										
				12/17/18	6.28	38.24	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	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	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	7.00	37.52	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	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	150	130	2,300	1,600	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	<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	
				7/29/20	7.01	37.51	<0.20	<0.20	0.52	26	6.03	22.2	565.0	0.14	-47.7	27,000	<5.0	24	11	11	<0.00022	0.48	69	
				10/29/20	7.04	37.48	7.7	3.8	93	490	6.13	19.7	482.7	0.17	-43.6	22,000	<5.0	18	0.64	10	0.016	0.36	7.4	
				3/19/21	6.50	38.02	100	58	40	31	6.51	16.0	449.6	0.88	-35.9	24,000	<5.0	16	0.42	5.0	<0.00022	0.14	4.9	
				6/21/21	6.98	37.54	19	64	110	190	6.51	19.0	516.0	0.10	-130.0	26,000	<5.0	13	0.54	2.3	0.0042	0.05	4.8	
9/29/22	8.18		35	1,700	740	250	6.12	16.8	412.4	0.18	-48.1	21,000	<5.0	12	0.58	0.97	0.0012	0.063	5.4					
2/6/23	6.40		6.3	340	160	73	6.22	14.3	220.5	1.12	37.5	3,600	<5.0	5.9	0.23	0.80	0.00038	0.038	2.1					
MW-41	Shallow <i>Decommissioned</i>	5 to 15	45.865	1/3/17	8.31	37.56	3.4	<0.20	<0.20	<0.20	6.13		129.0											
				10/23/18	-	-	2.02	<0.50	<0.50	<0.20														
				6/7/19	8.12	37.75	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	48.354	1/3/19	10.21	38.14	<1.00	<0.50	<1.0	<0.20														
				3/18/19	8.79	39.56	<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	39.24	<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	38.70	<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	39.06	<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	39.87	<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	39.47	<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	
				7/24/20	9.08	39.27	<0.20	<0.20	5.3	15	6.20	16.4	570.9	0.23	-34.7	36,000	<5.0	13	0.41	5	<0.00022	0.037	5.5	
				10/26/20	9.26	39.09	<0.20	<0.20	9.9	4.5	6.18	15.6	549.0	0.25	-57.1	32,000	<5.0	14	0.39	7.3	<0.00022	0.0082	32	
				3/1/21	8.33	40.02	<0.20	<0.20	1.7	1.4	5.86	14.4	626.1	-	-82.6	42,000	<5.0	14	1.3	5.9	<0.022	<0.029	7.7	
				6/11/21	9.37	38.98	<0.20	0.23	1.4	1.4	5.98	14.5	614.0	0.07	-96.4	28,000	<5.0	10	1.7	6.1	<0.00022	<0.00029	3.8	
9/28/22	12.63		<0.20	<0.20	0.27	0.31	5.79	15.9	310.0	0.23	-57.5	14,000	6.9	8.1	6.5	2.6	<0.00022	<0.00029	3.4					
2/8/23	10.73		<0.20	<0.20	<0.20	0.72	6.17	12.8	316.6	0.32	-78.5	20,000	<5.0	7.5	6.9	4.2	<0.00022	<0.00029	2.7					
MW-43	Shallow <i>Replaced</i>	10 to 25	48.057	1/2/19	10.4	37.66	225	31.6	7.16	<0.20														
				3/18/19	8.42	39.64	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	39.38	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	38.89	<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	38.39	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	40.30	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	40.44	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					

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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)		
				7/24/20	8.25	39.81	0.36	<0.20	11	3.5	6.84	17.3	695.0	0.15	-27.4	3,300	35	6.4	0.48	1.4	<0.00022	0.0035	9.7		
				11/17/20	8.48	39.58	<0.20	<0.20	2.0	0.93	6.48	18	601.0	0.15	-1.4	2,800	60	5.5	0.50	1.6	<0.00022	0.0035	9.0		
				3/4/21	7.54	40.52	0.31	<0.20	5.1	4.8	6.88	12.4	747.0	0.42	-245.4	6,200	6.6	4.9	0.54	2.2	<0.00022	0.0033	13		
				6/11/21	8.49	39.57	2.5	1.6	15	2.4	6.63	14.7	766.0	0.08	-162.2	9,200	<5.0	6.4	1.4	1.1	<0.00022	0.00054	7.4		
MW-43R	Shallow	10 to 25		6/24/21	7.65		<0.20	<0.20	1.5	1.2	6.48	15.9	482.9	0.13	-143.6	8,900	14	9.2	9.2	3.1	<0.00022	0.0045	26		
				9/29/22	11.22		4.3	2.2	9.0	0.59	5.99	16.5	388.6	0.22	7.9	7,000	35	13	0.21	2.9	<0.00022	0.0045	3.2		
				2/8/23	7.89		8.7	2.5	6.4	0.73	6.51	12.2	493.7	0.69	31.4	6,200	51	7.4	<0.050	1.5	<0.00022	<0.00029	4.3		
MW-44	Intermediate Replaced	25 to 35	46.018	6/6/19	7.49	38.53	<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	37.91	<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	36.17	<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	38.88	<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	38.40	<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		
				7/23/20	8.02	38.00	<0.20	<0.20	3.8	28	6.55	24.5	964.9	0.14	-13.8	4,100	<5.0	12	0.58	13	<0.00022	0.047	13		
				10/22/20	8.15	37.87	<0.20	<0.20	2.5	10	6.27	22.5	400.2	0.11	-35.7	1,200	<5.0	12	0.65	8.3	<0.00022	0.023	9.2		
				3/1/21	7.20	38.82	<0.20	<0.20	<0.20	3.9	6.22	18.1	462.6	-	-45.8	3,600	<5.0	11	0.54	8.5	<0.00022	0.025	12		
MW-44R	Intermediate	25 to 35		6/23/21	8.07		<0.20	<0.20	<0.20	0.82	6.60	19.2	395.7	0.09	-143.2	1,600	5.4	6.7	26	2.3	0.00022	0.005	4.2		
				9/27/22	8.14		<0.20	<0.20	<0.20	0.56	6.18	19.2	417.8	0.16	-47.8	4,100	20	7.2	4.1	0.69	0.00057	0.0003	4.8		
				2/8/23	6.70		<0.20	<0.20	<0.20	0.72	6.45	14.0	430.2	0.11	-49.8	330	16	8.3	4.2	1.2	0.00023	0.00046	4.5		
MW-45	Shallow Replaced	7 to 17	45.855	6/6/19	7.29	38.57	<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	37.90	<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	38.42	<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	39.26	<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	38.45	<0.20	<0.20	0.4	7.0	6.78	19.9	848.0	0.19	7.1	2,800	<5.0	16	0.87	8.6	<0.00022	0.011	41		
				7/23/20	7.67	38.19	<0.20	<0.20	0.26	3.7	6.50	24.1	880.0	0.11	-13.6	6,100	<5.0	18	1.2	11	<0.00022	0.0052	60		
				10/22/20	7.73	38.13	<0.20	<0.20	<0.20	2.4	6.39	23.3	872.0	0.11	-35.0	130	<5.0	13	1.1	8.0	<0.00022	0.0056	31		
				3/1/21	6.83	39.03	<0.20	<0.20	0.25	3.3	6.30	16.7	798.0	-	-56.5	7,400	<5.0	11	1.5	4.3	<0.00022	0.0016	11		
MW-45R	Shallow	7 to 17		6/23/21	8.07		15	3.5	4.0	0.92	6.66	22.1	514.0	0.02	-95.3	<56	17	26	6.7	0.39	<0.00022	0.00058	3.3		
				9/1/22	7.95		11	2.7	0.6	<0.020	6.40	21.3	630.0	3.17	62.1	65	110	4.9	0.088	2.2	<0.00022	0.00058	18		
				2/2/23	5.54		3.0	0.96	0.69	<0.020	6.75	13.7	543.0	0.39	112.4	<56	87	8.7	<0.050	0.0016	<0.00022	<0.00029	8.9		
HZ-MW-1	Shallow	5 to 15	41.637	9/5/08			0.58	<0.2	<0.2	<0.20															
				5/30/14			21	0.22	<0.20	<0.20	6.62		478.0	3.23											
				9/12/14			33	0.33	<0.20	<0.20	6.51		279.0	2.35											
				12/15/14			15	<0.20	<0.20	<0.20	6.3		223.0	2.02											
				3/19/15			11	<0.20	<0.20	<0.20	6.54		295.0	8.29											
				9/21/16	7.89	33.75	7.2	<0.20	<0.20	<0.20	6.42		120.0												
				10/31/16	6.23	35.41	6.9	<0.20	<0.20	<0.20	6.49	14.5	113.0												
				7/20/18	7.47	34.17	<1.00	<0.50	<1.00	<0.20	6.73	16.9	125.0	10.69											
				9/13/18	8.2	33.44	10.8	<0.50	<1.00	<0.20	6.59	18.7	139.0	7.20	100.6	<100	6.43	2.73	<0.100	<0.00863	<0.0162	<0.0151	1.54		
				12/19/18	6.94	34.70	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	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	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	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	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	33	1.1	1.2	0.15	6.20	12.9	301.4	1.14	-3.8	<56	16	6.3	<0.050	1.2	<0.00022	<0.00029	1.6		
				7/17/20	6.88	34.76	40	2.6	4.5	2.1	5.91	17.9	305.0	0.48	71.9	<56	12	6.0	<0.050	18	<0.00022	<0.00029	1.7		
				10/27/20	7.42	34.22	8.6	0.53	3.2	0.89	6.50	16.6	295.6	-	74.3	<56	15	8.5	0.13	7.4	<0.00022	<0.00029	1.7		
				3/4/21	5.34	36.30	11	3.6	120	3.1	6.24	12.4	334.2	1.14	-18.6	9,000	<5.0	6.4	0.31	8.4	<0.00022	0.0012	2.7		
				6/16/21	7.15	34.49	42	5.3	13	0.56	5.93	15.8	283.3	0.86	52.3	<56	27	8.8	0.14	1.9	<0.00022	0.00085	2.7		
				9/12/22	9.90		2.4	3.2	31	2.8	6.78	19.4	520.6	8.83	-32.0	5,300	20	8.3	0.14	0.3	<0.00022	<0.00029	2.2		
2/15/23	8.64		3.7	3.3	67	19	6.05	13.3	749.0	0.19	-6.9	13,000	18	9.2	<0.050	6.2	<0.00022	<0.00029	3.3						
HZ-MW-4	Shallow Decommissioned	8 to 18	40.177	9/5/08			<0.2	<0.2	<0.2	<0.20															
				6/9/14			<0.20	<0.20	<0.20	<0.20	6.35		407.0	2.73											
				9/12/14			2.6	<0.20	<0.20	<0.20	6.42		361.0	2.12											

**Table 1  
Bothell Service Center Simon Son  
Groundwater Analytical Results**

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)			
				12/16/14			0.54	<0.20	<0.20	<0.20	6.56		316.0	2.17												
				3/30/15			<0.20	<0.20	<0.20	<0.20	5.47				323.0	2.67			<50			<0.50				
				11/11/15	6.18	34.06	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	0.31	<0.20	<0.20	<0.20	6.23				331.0											
				10/28/16	5.22	34.96	<0.20	<0.20	<0.20	<0.20	6.36	16.9			308.0											
				7/24/18	6.95	33.23	<1.00	<0.50	<1.00	<0.20	6.75	15.8			356.0	3.35										
				9/13/18	7.59	32.59	<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	<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	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			2,400	47	29																	
				5/29/14			1,000	23	11	<10	6.46				799.0	0.16										
				9/11/14			4,900	96	78	<20	6.51				441.0	0.54										
				12/15/14			790	16	13	<4.0	6.34				396.0	0.48										
				3/20/15			200	6.5	3.8	<1.0	6.4				482.0	13.86										
				11/11/15	7.65	34.79	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	1,800	57	110	<20	6.34				330.0											
				10/28/16	5.82	36.56	440	13	12	<2.0	6.43	18.4			309.0											
				7/20/18	7	35.38	2,580	52.5	86.6	0.572	6.87	16.9			300.0	0.70										
				9/21/18	7.36	35.02	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	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	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	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	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	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	55	3.5	4.3	3.0	6.12	13.0			320.4	0.24	11.5	<56	18	8.1	<0.050	6.9	<0.00022	0.019	2.1	
				7/21/20	7.45	34.93	160	15	88	26	6.04	18.7			315.7	0.25	79.6	76	19	8.6	<0.050	8.6	<0.00022	0.0015	2.0	
				10/23/20	7.13	35.25	270	37	120	34	5.76	17.0			280.3	0.17	114.0	<56	19	7.4	0.051	9.5	<0.00022	0.015	2.0	
				3/3/21	4.33	38.05	210	22	28	15	5.88	13.1			255.7	0.57	96.5	<56	13	4.1	<0.050	9.5	<0.00022	0.016	2.5	
				6/16/21	6.80	35.58	550	120	260	17	6.08	18.3			285.2	0.44	-4.9	510	13	6.7	0.10	2.3	<0.00022	0.0043	2.7	
9/6/22	9.45		600	180	78	0.46	6.03	17.9			287.0	0.04	5.9	650	18	10	0.066	4.0	<0.00022	<0.00029	3.0					
2/21/23	8.50		1,000	170	220	23	5.98	13.3			319.4	0.42	66.1	2,900	15	6.6	<0.050	7.9	<0.00022	<0.00029	1.9					
HZ-MW-14D	Intermediate	30 to 40	42.397	2/25/13			360	7.6	21																	
				5/29/14			100	3.7	16	<1.0	6.47				622.0	0.23										
				9/11/14			100	3.2	17	<1.0	6.45				352.0	0.28										
				12/15/14			100	2.8	15	<1.0	6.41				332.0	0.87										
				3/20/15			62	2.4	9.8	<0.40	6.69				423.0	NA										
				11/11/15	8.12	34.31	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	37	1.5	2.9	<0.20	6.10				434.0											
				10/28/16	5.62	36.78	55	2.8	6.1	<0.20	6.21	18.1			373.0											
				7/20/18	6.96	35.44	42.9	2.18	7.55	<0.20	6.42	16.4			220.0	0.33										
				9/19/18	7.19	35.21	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	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	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	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	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	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	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	
				7/21/20	6.78	35.65	210	15	61	0.35	5.86	18.0			415.7	0.32	104.2	67	14	44	<0.050	2.6	<0.00022	<0.00029	1.2	
				10/28/20	7.34	35.06	110	9.9	27	0.91	5.62	15.7			370.9	0.25	135.5	180	13	29	<0.050	1.7	<0.00022	<0.00029	1.2	
				3/4/21	5.84	36.56	110	12	35	2.4	6.08	14.8			347.8	0.46	39.4	260	14	27	<0.050	2.4	<0.00022	<0.00029	1.4	
				6/16/21	6.88	35.52	56	9.7	27	3.0	5.97	17.9			320.2	0.38	-9.2	650	20	17	<0.050	0.40	<0.00022	<0.00029	1.6	
9/6/22	9.30		15	2.1	35	14	5.95	17.9			532.3	0.08	44.1	170	12	9.5	<0.050	0.39	0.00091	0.00043	2.6					
2/3/23	8.36		8.5	2.3	34	6.7	6.07	15.8			515.3	0.10	70.8	380	10	11	<0.050	0.15	0.0011	<0.00029	2.5					
HZ-MW-15S	Shallow	10 to 15	41.747	3/25/13			86	2.3	3.6																	
				5/29/14			150	7.1	3.6	<1.0	6.35				785.0	1.45										

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)			
				9/13/14			400	19	12	<0.20	6.87		575.0	0.25												
				12/15/14			300	14	12	<2.0	6.44				549.0	0.95										
				3/20/15			140	6.2	3.5	<1.0	6.32				579.0	NA										
				11/12/15	6.99	34.79	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	57	1.6	1.4	<0.40	6.21				280.0											
				10/28/16	4.15	37.60	81	3.3	2.9	<0.40	6.30	17.3			314.0											
				9/19/18	6.61	35.14	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	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	8.9	0.34	<0.20	<0.20	6.32	15.9			256.6	0.33	-10.7		<56	16	3	<0.050	0.019	<0.001	<0.001	1.1
				7/24/19	5.66	36.09	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	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	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	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
				7/22/20	5.85	35.90	4.7	0.2	0.35	<0.02	6.07	18.1			239.2	1.19	66.2		<56	14	2.3	<0.050	0.0089	<0.00022	<0.00029	1.2
				10/23/20	6.23	35.52	4.6	0.27	11	0.43	5.66	16.3			279.2	0.35	112.3		<56	14	3.3	<0.050	0.36	<0.00022	<0.00029	1.3
3/3/21	4.82	36.93	3.8	0.43	10	1.2	5.87	11.3			246.1	-	111.3		<56	12	3.7	<0.050	0.56	<0.00022	0.00039	1.2				
6/22/21	5.77	35.98	5.1	0.62	19	1.4	6.24	19.2			254.9	0.38	-5.8		<56	10	4.0	<0.050	0.28	<0.00022	<0.00029	1.6				
9/6/22	9.30		1.6	0.89	71	4.8	6.04	19.1			938.0	0.16	-9.7		1,100	<5.0	6.1	0.14	3.5	<0.00022	<0.00029	36				
2/15/23	7.95		1.8	0.84	27	2.9	6.04	12.9			632.6	0.30	44.6		6,500	8.3	6.9	<0.050	5.7	<0.00022	<0.00029	3.3				
HZ-MW-15D	Intermediate	20 to 30	41.787	3/25/13			330	18	12																	
				5/29/14			3,700	290	180	<20	6.28			1000.0	0.12											
				9/13/14			93	6.9	4.5	<0.40	6.33			308.0	0.30											
				12/15/14			130	9.2	4.3	<1.0	6.34			290.0	1.87											
				3/20/15			6,700	400	280	<30	6.27			491.0	NA											
				11/11/15	7.2	34.63	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	840	40	43	<4.0	5.96			211.0												
				10/28/16	5.33	36.46	3,300	210	200	<20	6.20	15.9			266.0											
				9/19/18	6.74	35.05	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	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	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	1.5
				7/24/19	6.83	34.96	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	1.6
				10/17/19	7.02	34.77	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	1.3
				1/22/20	6.05	35.74	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	1.2
				4/15/20	6.67	35.12	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	1.2
				7/22/20	6.45	35.34	2,000	170	340	<1.0	6.03	17.1			466.5	0.33	80.8		150	12	14	<0.050	4	<0.00022	<0.00029	1.4
				10/23/20	6.79	35.00	2,200	170	330	1.3	5.73	14.4			399.9	0.21	108.6		<56	11	15	<0.050	4.6	<0.00022	<0.00029	<1.0
3/3/21	6.23	35.56	2,200	190	200	4.3	6.00	14.1			383.7	-	109.4		<56	18	13	<0.050	6.1	<0.00022	<0.00029	<1.0				
6/22/21	5.80	35.99	3,000	230	290	4.3	6.27	17.9			418.1	0.11	-34.9		120	15	14	<0.050	1.9	<0.00022	<0.00029	1.6				
9/8/22	9.44		2,700	130	150	3.0	5.78	15.6			423.6	0.12	19.0		<56	14	9.4	<0.050	8.2	<0.00022	<0.00029	1.3				
2/21/23	8.30		4,400	190	210	1.1	6.11	14.0			437.7	0.16	89.9		<56	15	8.8	<0.050	6.5	<0.00022	<0.00029	1.2				
HZ-MW-16	Shallow Decommissioned	15 to 25	-	5/28/14			0.32	<0.20	0.30	<0.20	6.52		451.0	0.16												
				9/12/14			4.2	<0.20	<0.20	<0.20	7.08			207.0	1.23											
				12/15/14			0.4	<0.20	<0.20	<0.20	7.01			235.0	0.57											
				3/19/15			0.35	<0.20	0.24	<0.20	6.59			326.0	NA							<0.50				
				11/28/16	4.53		0.34	<0.20	<0.20	<0.20	6.78			167.0												
				9/24/18	6.23		<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		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		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 Decommissioned	10 to 20	38.567	6/9/14			<0.20	<0.20	<0.20	<0.20	6.61		594.0	0.15												
				9/12/14			2.0	<0.20	<0.20	<0.20	6.94			345.0	0.89											
				12/16/14			0.5	<0.20	<0.20	<0.20	6.71			309.0	1.55											
				3/19/15			<0.20	<0.20	<0.20	<0.20	6.96			434.0	NA											
				9/26/16	8.90	29.67	<0.20	<0.20	<0.20	<0.20	6.73			230.0												
				10/27/16	6.61	31.96	<0.20	<0.20	<0.20	<0.20	6.89	14.9			238.0											
				7/24/18	7.45	31.12	<1.00	<0.50	<1.00	<0.20	7.17	16.1	250.0	0.41												

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation Potential (mV)	Dissolved Iron (ug/L)	Sulfate (mg/L)	Chloride (mg/L)	Ammonia as N (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)	Total Organic Carbon (mg/L)			
				9/12/18	7.90	30.67	<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	<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	<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			<0.20	<0.20	<0.20	<0.20	6.38		1901.0	0.14												
HZ-MW-19	Shallow Replaced	5 to 15	42.177	5/30/14			<b>0.97</b>	<b>0.94</b>	<b>0.40</b>	<0.20	6.38		1210.0	0.10												
				6/9/14			<b>0.28</b>	<b>0.67</b>	<b>1.1</b>	<0.20	6.26		1213.0	0.13												
				9/12/14			<b>3.3</b>	<b>0.76</b>	<b>0.67</b>	<0.20	6.37		675.0	0.50												
				12/16/14			<b>1.0</b>	<0.20	<0.20	<0.20	6.75		301.0	0.42												
				3/19/15			<0.20	<0.20	<0.20	<0.20	6.33		376.0	NA									100			
				8/6/15									6.18			513.0	0.00									
				11/11/15	7.01	35.22	<b>0.6</b>	<b>0.77</b>	<b>1.1</b>	<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	<b>0.59</b>	<b>0.54</b>	<b>0.48</b>	<0.20	6.29		438.0													
				10/31/16	4.78	37.40	<0.20	<0.20	<0.20	<0.20	6.11	14.2	174.0													
				7/24/18	7.17	35.01	<1.00	<0.50	<1.00	<0.20	6.56	17.3	335.0	0.00												
9/7/18	7.72	34.46	<1.00	<b>0.574</b>	<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	<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	<b>0.21</b>	<b>0.25</b>	<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			<0.20	<0.20	<0.20	<0.20	6.79		1914.0	0.28												
				9/13/14			<b>1.3</b>	<0.20	<0.20	<0.20	7.09		1018.0	0.72												
				12/16/14			<b>0.41</b>	<0.20	<0.20	<0.20	6.72		851.0	0.44												
				3/19/15			<0.20	<0.20	<0.20	<0.20	6.91		1139.0	NA												
HZ-MW-21	Shallow Decommissioned	6 to 16	39.517	9/13/16	7.14	32.38	<0.20	<0.20	<0.20	<0.20	6.55		509.0													
				10/31/16	5.90	33.62	<0.20	<0.20	<0.20	<0.20	6.31	14.7	528.0													
				7/23/18	6.90	32.62	<1.00	<0.50	<1.00	<0.20	6.77	17.6	576.0	0.19												
				9/13/18	7.37	32.15	<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	<1.00	<0.50	<1.00	<0.20	6.43	14.1	120.9	0.71	71.7	<100	8.51	1.4	0.125	<0.00863	<0.0162	<0.0151	1.94			
5/23/19	6.55	32.97	<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 Decommissioned	5 to 15	40.827	9/14/16	6.77	34.06	<b>0.67</b>	<b>0.62</b>	<b>0.24</b>	<0.20	6.13		303.0													
				10/28/16	4.85	35.98	<b>0.46</b>	<0.20	<0.20	<0.20	6.52	16.5	318.0													
				7/23/18	6.45	34.38	<b>1.52</b>	<b>0.849</b>	<1.00	<0.20	6.47	17.6	316.0	0.68												
				9/7/18	7.10	33.73	<b>1.44</b>	<b>1.33</b>	<b>1.07</b>	<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	<b>1.46</b>	<b>0.956</b>	<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	<b>1.2</b>	<b>0.66</b>	<b>0.51</b>	<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 Decommissioned	28 to 38	41.677	9/14/16	8.21	33.47	<b>2.4</b>	<0.20	<b>0.41</b>	<0.20	6.55		378.0													
				10/31/16	6.80	34.88	<b>2.3</b>	<0.20	<b>0.33</b>	<0.20	6.77	14.4	345.0													
				9/7/18	8.26	33.42	<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	<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	<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	<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	<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	<0.20	<0.20	<0.02	<b>0.039</b>	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			
				4/13/20	6.77	34.91	<0.20	<0.20	<0.02	<b>0.044</b>	6.77	14.7	702.0	0.34	-59	16,000	<5.0	12	<0.050	7.3	<0.00022	<0.00029	92			
				7/17/20	10.42	31.26	<0.20	<0.20	<0.20	<b>0.025</b>	6.77	16.3	704.0	0.20	-72.4	15,000	<5.0	17	<0.050	16	<0.00022	<0.00029	60			
10/27/20	9.13	32.55	<0.20	<0.20	<0.20	<b>0.040</b>	6.67	15.3	705.0	0.21	-69.5	14,000	<5.0	21	<0.050	21	<0.00022	<0.00029	16							
3/4/21	6.73	34.95	<0.20	<0.20	<0.20	<0.020	6.88	14.2	149.0	0.42	-99.8	4,800	5.9	4.4	0.11	4.0	<0.00022	<0.00029	1.8							
6/14/21	7.23	34.45	<0.20	<0.20	<0.20	<0.020	6.91	15.6	121.9	6.37	33.8	120	28	<2.0	<0.050	0.044	<0.00022	<0.00029	4.1							
HZ-MW-24	Intermediate	25 to 35	40.997	9/14/16	7.20	33.80	<b>4.9</b>	<b>2.4</b>	<b>21</b>	<b>0.8</b>	6.47		356.0													
				10/27/16	5.66	35.34	<b>6.7</b>	<b>0.8</b>	<b>12</b>	<b>0.6</b>	6.69	17.1	316.0													
				9/18/18	6.92	34.08	<b>4.48</b>	<b>2.3</b>	<b>14.8</b>	<b>0.577</b>	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	<b>2.79</b>	<b>0.908</b>	<b>5.38</b>	<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	<b>2.0</b>	<b>0.92</b>	<b>21</b>	<b>0.77</b>	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	<b>2.7</b>	<b>1.1</b>	<b>16</b>	<b>0.58</b>	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	<0.40	<0.40	<b>93</b>	<b>0.76</b>	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	<b>2.2</b>	<b>1.3</b>	<b>150</b>	<b>3.2</b>	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							



**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Oxidation 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)	
				4/14/20	6.01	34.99	<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	
				7/22/20	6.78	34.22	0.9	1.8	28	2.6	6.26	16.6	452.1	0.30	3.7	11,000	22	17	2.5	2.1	<0.00022	0.0076	4.5	
				10/28/20	6.91	34.09	1.3	1.3	35	2.0	6.02	16.2	417.0	0.20	26.6	10,000	23	14	1.9	1.6	<0.00022	<0.00029	3.8	
				3/2/21	5.18	35.82	<0.20	0.35	6.1	0.17	6.06	13.3	277.2	-	19.9	6,000	23	9.7	0.96	0.20	<0.00022	<0.00029	2.8	
				6/18/21	6.50	34.50	<0.20	0.21	5.0	0.13	6.39	16.2	244.1	0.09	-154.6	8,000	23	6.1	0.96	0.31	<0.0022	<0.0029	4.9	
				9/20/22	5.60		3.8	4.1	25	0.80	6.06	16.3	363.9	0.18	-53.0	4,400	18	11	0.51	0.30	<0.00022	<0.00029	5.3	
				2/7/23	1.90		2.7	2.3	15	0.55	6.24	13.2	410.8	0.09	-7.0	7,600	23	7.0	0.47	0.46	<0.00022	<0.00029	2.3	
HZ-MW-25	Deep Decommissioned	44.33 to 54.33	41.907	9/14/16	8.17	33.74	6.4	<0.20	<0.20	<0.20	6.71		254.0											
				10/28/16	7.02	34.89	1.2	<0.20	<0.20	<0.20	6.46		237.0											
				7/19/18	8.00	33.91	<1.00	<0.50	<1.00	<0.20	6.67	14.7	248.0	0.45										
				9/11/18	8.41	33.50	<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	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	<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	99	3.5	4.7	<0.40	6.71		267.0											
				10/28/16	6.26	34.43	3.3	<0.20	0.25	<0.20	6.74	16.0	265.0											
				7/23/18	7.36	33.33	11.9	<0.50	2.01	<0.20	6.98	16.4	284.0	0.31										
				9/17/18	6.83	33.86	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	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	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	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	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	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	73	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	
				7/17/20	6.82	33.87	15	0.84	2.2	0.026	6.29	15.7	370.0	0.31	-13.7	<56	24	13	<0.050	0.09	<0.00022	<0.00029	<1.0	
				10/27/20	7.34	33.35	14	0.34	1.8	0.034	6.15	15.5	346.9	0.22	110.7	<56	27	13	<0.050	0.038	<0.00022	<0.00029	<1.0	
				3/5/21	6.66	34.03	1.7	<0.20	0.26	<0.020	6.51	13.9	180.9	2.65	84.4	<56	13	7.0	<0.050	0.0015	<0.00022	<0.00029	<1.0	
				6/14/21	6.99	33.70	5.0	<0.20	1.2	0.02	6.41	14.9	337.4	0.15	13.0	<56	23	13	<0.050	0.0032	<0.00022	<0.00029	<1.0	
				9/8/22	11.98		22	0.43	2.0	0.048	6.23	15.5	365.0	0.15	43.3	<56	23	11	<0.050	0.18	<0.00022	<0.00029	<1.0	
				2/21/23	9.83		7.4	<0.20	1.6	0.076	6.44	13.9	366.5	0.14	121.7	<56	21	13	<0.050	0.14	<0.00022	<0.00029	<1.0	
HZ-MW-27	Deep Decommissioned	45 to 55	41.597	9/14/16	8.00	33.60	1.6	<0.20	0.34	<0.20	6.80		227.0											
				10/28/16	6.55	35.05	0.84	<0.20	<0.20	<0.20	6.51		208.0											
				7/13/18	7.35	34.25	2.24	<0.50	1.07	<0.20	6.77	15.1	215.0	0.40										
				9/18/18	7.73	33.87	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	<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	<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 Decommissioned	25 to 35	38.744	10/27/16	5.90	32.84	0.96	<0.20	<0.20	<0.20	6.87	15.3	343.0											
				7/24/18	6.65	32.09	<1.00	<0.50	<1.00	<0.20	7.08	15.6	333.0	0.42										
				9/13/18	7.00	31.74	<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	<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	<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	85	9.0	100	6.6	6.60	15.7	271.0											
				7/23/18	6.75	33.56	54.8	4.2	33.2	1.31	6.66	16.9	241.0	0.07										
				9/11/18	7.11	33.20	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	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	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	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	<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	<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	<1.0	5.2	130	5.8	6.31	13.3	595.4	0.28	-76.4	11,000	8.3	14	3.0	19	<0.00022	<0.00029	3.2	
				7/17/20	10.22	30.09	<1.0	<1.0	190	40	6.22	15.7	655.0	0.24	-49.1	10,000	<5.0	13	1.8	14	<0.00022	0.014	12	
				10/28/20	6.88	33.43	<0.20	0.27	21	9.2	6.21	16.7	723.0	0.20	-52.5	17,000	<5.0	15	2.0	14	<0.00022	0.026	5.8	
				3/5/21	5.47	34.84	<0.20	0.29	19	5.1	6.46	13.8	641.0	0.21	-144.6	17,000	5.4	15	1.8	0.82	<0.0022	<0.0029	1.9	

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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 Decommissioned	40 to 50	-	11/28/16	7.08		<0.20	<0.20	<0.20	<0.20	8.01		418.0												
				8/27/18	8.60		<1.00	<0.50	<1.00	<0.20	7.71	16.9	235.0												
				9/20/18	9.54		<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		<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		<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		<0.20	<0.20	<0.20	<0.20	6.80		325.0												
				8/27/18	9.55		<1.00	<0.50	<1.00	<0.20	6.52	16.3	294.0												
				9/20/18	9.63		<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		<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		<b>0.78</b>	<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		<b>2.5</b>	<0.20	<b>0.69</b>	<b>0.048</b>	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		<0.20	<0.20	<0.20	<b>0.048</b>	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		<0.20	<0.20	<0.20	<b>0.054</b>	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		<0.20	<0.20	<0.20	<b>0.049</b>	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		
				7/29/20	9.02		<0.20	<0.20	<0.20	<b>0.049</b>	6.32	16.1	336.7	0.20	-4.3	19,000	<5.0	6.7	0.4	0.92	<0.00022	<0.00029	4.9		
				10/29/20	9.21		<0.20	<0.20	<0.20	<b>0.060</b>	6.11	15.1	276.1	0.17	-18.3	19,000	<5.0	6.5	0.44	0.84	<0.00022	<0.00029	4.6		
				3/5/21	8.30		<0.20	<0.20	<0.20	<b>0.021</b>	6.61	10.6	230.1	3.10	-24.8	210	<5.0	11	0.37	0.11	<0.00022	<0.00037	6.0		
				6/21/21	6.35		<0.20	<0.20	<0.20	<b>0.046</b>	6.53	20.1	275.4	0.13	-94.7	19,000	<5.0	6.1	0.38	0.22	<0.00022	<0.00029	5.6		
				9/29/22	9.06		<b>0.41</b>	<b>0.47</b>	<b>2.0</b>	<b>20</b>	6.08	16.7	304.0	0.17	-24.5	23,000	<5.0	9.5	0.38	1.5	<0.00022	0.027	6.2		
2/6/23	8.20		<0.80	<0.80	<b>16</b>	<b>94</b>	6.33	13.7	318.2	0.10	-47.9	24,000	<5.0	8.3	0.30	1.4	<0.00022	0.024	6.0						
HZ-MW-32	Shallow Decommissioned	15 to 25	-	11/28/16	7.68		<0.20	<0.20	<0.20	<0.20	6.78		331.0												
				9/20/18	9.46		<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		<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		<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 Replaced	25 to 35	-	11/28/16	6.33		<0.20	<0.20	<b>0.48</b>	<0.20	7.39		242.0												
				7/24/18	6.87		<1.00	<0.20	<1.00	<0.20	7.02	17.0	214.0	0.00											
				9/12/18	7.35		<1.00	<0.50	<b>1.11</b>	<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		<1.00	<0.50	<b>2.06</b>	<b>0.303</b>	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		<b>0.51</b>	<0.20	<b>1.7</b>	<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		
6/23/21	6.20		<0.20	<0.20	<0.20	<0.020	6.64	15.2	325.8	0.14	-58.1														
HZ-MW-33R	Intermediate	25 to 35	-	8/11/21	7.93		<0.20	<0.20	<0.20	<b>0.064</b>	6.55	17.2	188.0	0.35	102.6	<56	11	6.3	<0.050	0.0098	<0.00022	<0.00029	2.2		
				10/3/22	-		<0.20	<0.20	<0.20	<b>0.039</b>	5.84	16.1	252.1	0.40	106.3	190	12	5.2	<0.050	0.12	<0.00022	<0.00029	<1.0		
				2/7/23	-		<0.20	<0.20	<0.20	<b>0.033</b>	6.33	13.2	177.7	0.12	146.8	<56	11	4.7	<0.050	0.23	<0.00022	<0.00029	<1.0		
HZ-MW-34	Shallow	15 to 25	-	11/28/16	4.81		<b>7.2</b>	<b>14</b>	<b>44</b>	<b>3.1</b>	6.64		272.0												
				9/17/18	6.68		<b>8.05</b>	<b>16.5</b>	<b>40.6</b>	<b>2.97</b>	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		<b>4.63</b>	<b>12.7</b>	<b>32.6</b>	<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		<b>0.83</b>	<b>3.3</b>	<b>24</b>	<b>0.26</b>	6.46	14.7	550.0	0.16	-17.2	10,000	5.7	13	<0.050	1.1	<0.05	<0.05	4.2		
				7/17/19	6.41		<b>1.4</b>	<b>3.3</b>	<b>20</b>	<b>0.28</b>	6.24	17.3	508.5	0.08	-158.7	11,000	5.2	13	<0.050	3.1	<0.00050	<0.0005	2.4		
				10/23/19	6.60		<1.0	<1.0	<b>110</b>	<b>0.97</b>	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		<1.0	<b>2.6</b>	<b>120</b>	<b>31</b>	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		<1.0	<b>1.6</b>	<b>100</b>	<b>130</b>	6.50	13.8	646.0	0.21	-21.8	11,000	5.1	13	0.68	16	<0.00022	0.0043	2.1		
				7/21/20	6.78		<1.0	<2.0	<b>12</b>	<b>16</b>	6.22	19.3	587.0	0.20	-42.7	6,700	5.0	12	1.4	20	<0.00022	0.0014	2		
				10/28/20	6.74		<0.20	<b>0.24</b>	<b>13</b>	<b>20</b>	6.07	17.2	520.8	0.21	-19.7	9,300	11	9.5	1.1	11	<0.00022	0.0120	1.9		
				3/2/21	5.15		<0.20	<b>0.24</b>	<b>11</b>	<b>12</b>	6.10	13.6	465.0	-	-43.5	11,000	17	8.8	0.47	14	<0.00022	0.0055	1.7		
				6/18/21	6.35		<b>0.34</b>	<b>0.88</b>	<b>4.2</b>	<b>1.2</b>	6.39	15.9	350.3	0.05	-135.1	3,700	71	4.1	5.6	1.2	<0.00022	<0.00029	1.4		
				9/20/22	5.50		<b>0.48</b>	<b>1.6</b>	<b>13</b>	<b>5.0</b>	5.90	16.6	310.7	0.25	-4.2	4,500	21	7.0	0.17	0.25	<0.00022	0.00082	1.6		
				2/7/23	2.40		<b>0.35</b>	<b>1.0</b>	<b>14</b>	<b>4.6</b>	6.24	14.1	303.4	0.45	-22.4	4,000	21	11	0.15	0.15	<0.00022	0.00034	1.1		
S-MW-1	Shallow	5.5 to 15.5	43.527	9/20/16	6.96	36.57	<b>150</b>	<1.0	<1.0	<1.0	6.48		303.0												
				10/24/16	4.64	38.89	<b>17</b>	<0.20	<0.20	<0.20	6.74	16.5	140.0												
				10/23/18	6.80	36.73	<b>9.1</b>	<0.50	<1.0	<0.20	6.59		161.0												
				6/6/19	6.00	37.53	<b>8.9</b>	<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	<b>6.5</b>	<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	<b>7.3</b>	<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	<b>3.4</b>	<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	<b>3.5</b>	<0.20	<0.20	<0.020	6.13	11.1	324.2	4.58	1.3	<56	57												

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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)	
				7/28/20	6.97	36.56	5.1	<0.20	<0.20	<0.020	6.02	17.5	312.3	3.71	87.5	<56	39	4.3	<0.050	0.00096	<0.00022	<0.00029	1.1	
				11/2/20	7.30	36.23	4.5	<0.20	<0.20	<0.020	5.76	16.5	313.3	3.18	88.9	<56	64	3.6	<0.050	0.0012	<0.00022	<0.00029	1.0	
				3/1/21	4.99	38.54	1.7	<0.20	<0.20	<0.020	5.83	11.2	197.7	4.59	73.2	<56	28	2.3	<0.050	0.0061	<0.00022	<0.00029	<1.0	
				6/14/21	7.23	36.30	1.2	<0.20	<0.20	<0.020	6.48	14.3	212.1	7.73	60.2	<56	25	2.7	<0.050	0.0011	<0.00022	<0.00029	<1.0	
				9/27/22	8.55		2.9	<0.20	<0.20	<0.020	5.66	18.0	216.2	3.80	204.4	110	33	2.7	<0.050	0.0016	<0.00022	<0.00029	1.2	
				2/16/23	6.87		2.6	<0.20	<0.20	<0.020	6.30	9.9	326.3	3.68	193.5	<56	40	2.8	<0.050	0.0051	<0.00022	<0.00029	<1.0	
S-MW-2	Shallow Replaced	5 to 15	42.297	9/20/16	6.21	36.09	47	7	26	<0.40	6.41		339.0											
				10/24/16	3.95	38.35	35	20	69	5.1	6.83	17.8	349.0											
				9/21/18	6.03	36.27	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	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	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	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	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 Replaced	5 to 15	-	4/24/20	4.46		5.5	2.4	2	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	
				7/28/20	5.43		3.0	1.7	1.8	<0.20	6.51	18.3	1,097	0.18	-17.5	-	-	-	-	-	-	-	-	
				10/30/20	5.65		1.8	2.8	5.2	0.62	6.22	17.6	1,059	0.14	-21.8	3,600	51	5.6	0.068	4.8	<0.022	<0.029	6.2	
				3/2/21	3.26		0.66	1.3	2.1	0.57	6.30	10.6	856	-	-53.9	4,700	55	3.6	<0.050	5.9	<0.00022	<0.00029	4.3	
				6/9/21	5.94		0.34	1.1	1.6	0.25	6.50	16.4	751	0.10	-121.7	3,000	43	2.4	0.052	1.0	<0.00022	<0.00029	3.7	
S-MW-2RR	Shallow	5 to 15		8/5/21	6.65		<0.20	<0.20	12	3.6	6.64	21.5	589	0.99	-41.3	500	21	4.8	5.2	0.78	<0.00022	0.0003	2.8	
				9/8/22	8.60		<0.20	0.25	0.37	0.59	6.73	19.9	606	0.05	-61.1	760	58	<2.0	11	2.1	<0.00022	<0.00029	3.8	
				2/10/23	6.85		<0.20	0.39	<0.20	0.084	6.88	12.9	769	0.06	-58.2	1,200	76	54	4.7	0.40	<0.00022	<0.00029	24	
S-MW-3	Intermediate Replaced	25 to 35	42.807	9/16/16	6.62	36.19	0.44	<0.20	<0.20	<0.20	5.79		116.0											
				10/31/16	4.93	37.88	1.7	<0.20	<0.20	<0.20	6.04	15.9	116.0											
				9/21/18	6.51	36.30	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	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	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	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	
S-MW-3R	Intermediate Replaced	25 to 35	-	10/17/19	6.08	36.73	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	
				4/24/20	5.42		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	
				7/28/20	5.99		15	0.55	0.3	<0.020	5.66	17.7	170.3	0.20	37.2	560	14	4.9	<0.050	6.5	<0.00022	<0.00029	1.2	
				10/30/20	6.40		20	1.1	0.66	0.068	5.23	14.8	119.4	0.24	42.6	920	14	5.0	<0.050	9.5	<0.033	<0.043	<1.0	
				3/2/21	5.17		0.6	0.39	0.36	0.047	5.47	12.5	107.8	-	63.5	150	15	4.5	<0.050	0.31	<0.00022	<0.00029	<1.0	
S-MW-3RR	Intermediate	25 to 35	-	6/9/21	5.72		43	2.3	0.55	0.10	5.72	15.6	126.3	0.09	6.3	1,100	13	4.9	<0.050	3.1	<0.00022	<0.00029	1.1	
				8/20/21	11.12		94	0.72	<0.40	<0.040	6.29	16.4	207.6	16.70	-317.2	<56	17	10.0	<0.050	1.3	<0.00022	<0.00029	1.0	
				10/14/22	-		37	0.41	0.69	<0.020	5.30	15.6	150.0	0.54	192.1	<56	19	3.3	<0.050	14	<0.00022	<0.00029	1.3	
				2/10/23	13.90		76	0.94	2.4	<0.040	5.66	14.1	159.4	0.12	44.7	120	18	3.7	<0.050	11	<0.00022	<0.00029	<1.0	
S-MW-4	Deep Decommissioned	40 to 50	42.367	9/14/16	6.32	36.05	<0.20	<0.20	<0.20	<0.20	6.74		206.0											
				10/28/16	4.93	37.44	0.66	<0.20	<0.20	<0.20	6.44		191.0											
				7/19/18	6.23	36.14	1.25	<0.50	<1.00	<0.20	6.85	14.6	183.0	0.46										
				9/21/18	6.37	36.00	<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	<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	0.56	<0.20	<0.20	<0.20	6.17	14.7	153.2	0.15	-4.6	410	15	4.5	<0.050	0.084	<0.005	<0.005	<1.0	
S-MW-5	Shallow Replaced	15 to 25	41.357	10/28/16	4.56	36.80	340	<4.0	<4.0	<4.0	6.68	18.0	259.0											
				9/24/18	6.07	35.29	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	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	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	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	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	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	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	
				7/27/20	5.69	35.67	420	<2.0	<2.0	<0.20	6.09	19.2	218.5	2.35	75.8	<56	16	3.8	<0.050	0.0026	<0.00022	<0.00029	<1.0	
				10/30/20	5.82	35.54	140	<1.0	<1.0	<0.10	5.94	15.9	110.9	3.82	77.1	<56	13	4.9	0.6	0.0084	<0.00022	<0.00029	4.0	
S-MW-5R	Shallow	15 to 25		3/2/21	4.03	37.33	280	<2.0	<2.0	<0.20	5.92	13.8	83.4	4.48	75.0	66	5.2	5.3	<0.050	<0.00055	<0.00022	<0.00029	<1.0	
				6/9/21	5.52	35.84	120	<0.80	<0.80	<0.08	6.32	14.9	53.6	2.39	43.3	69	<5.0	<2.0	<0.050	0.00077	<0.00022	<0.00029	1.3	
S-MW-5R	Shallow																							

**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)	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Temp (°C)	Conductivity (µS/cm)	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)		
				10/3/22	10.88		<b>450</b>	<b>3.9</b>	<b>5.3</b>	<b>0.081</b>	5.83	16.2	396.5	3.50	108.3	<56	20	4.6	<0.050	0.3	<0.00022	<0.00029	<1.0		
				2/10/23	7.14		<b>270</b>	<b>6.8</b>	<b>14</b>	<b>0.70</b>	6.26	13.6	480.3	0.14	113.7	<56	20	4.5	<0.050	1.3	<0.00022	<0.00029	1.2		
S-MW-6	Shallow Decommissioned	4 to 14	-	1/3/17	5.51		<0.20	<0.20	<0.20	<0.20	6.23		155.0												
				1/11/19	5.54		<1.00	<0.50	<1.00	<0.20	6.11		129.0												
				6/7/19	7.57		<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		
S-MW-7R	Shallow Decommissioned	4 to 14		6/14/21	5.04		<0.20	<0.20	<0.20	<0.020	7.50	17.4	938.0	4.46	-1.6	<56	65	3.3	<0.050	0.014	<0.00022	<0.00029	1.7		
MTCA Method A Cleanup Level <sup>1</sup>							5.0	5.0		0.2															
MTCA Method B Cleanup Level <sup>2</sup>									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  
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  
^ - Angled well. Well casing dips at approximately 60 degree angle  
# - Angled portion of well casing. Approximately 2 feet of upper well casing at 45 degree angle  
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  
\* HWA TOC elevation was used to calculate GW elevation during HWA sampling events.



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

February 10, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2302-022

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 2, 2023.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 10, 2023  
Samples Submitted: February 2, 2023  
Laboratory Reference: 2302-022  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 2, 2023 and received by the laboratory on February 2, 2023. 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: February 10, 2023  
 Samples Submitted: February 2, 2023  
 Laboratory Reference: 2302-022  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-20R:W</b>					
Laboratory ID:	02-022-01					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Chloromethane	ND	4.0	EPA 8260D	2-6-23	2-6-23	
Vinyl Chloride	87	0.80	EPA 8260D	2-6-23	2-6-23	
Bromomethane	ND	4.0	EPA 8260D	2-6-23	2-6-23	
Chloroethane	ND	4.0	EPA 8260D	2-6-23	2-6-23	
Trichlorofluoromethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloroethene	8.1	0.80	EPA 8260D	2-6-23	2-6-23	
Iodomethane	ND	20	EPA 8260D	2-6-23	2-6-23	
Methylene Chloride	ND	4.0	EPA 8260D	2-6-23	2-6-23	
(trans) 1,2-Dichloroethene	6.3	0.80	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloroethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
2,2-Dichloropropane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
(cis) 1,2-Dichloroethene	120	0.80	EPA 8260D	2-6-23	2-6-23	
Bromochloromethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Chloroform	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Carbon Tetrachloride	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloropropene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,2-Dichloroethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Trichloroethene	140	0.80	EPA 8260D	2-6-23	2-6-23	
1,2-Dichloropropane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Dibromomethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Bromodichloromethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	2-6-23	2-6-23	



Date of Report: February 10, 2023  
 Samples Submitted: February 2, 2023  
 Laboratory Reference: 2302-022  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-20R:W</b>					
Laboratory ID:	02-022-01					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Tetrachloroethene	150	0.80	EPA 8260D	2-6-23	2-6-23	
1,3-Dichloropropane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Dibromochloromethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,2-Dibromoethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Chlorobenzene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Bromoform	ND	4.0	EPA 8260D	2-6-23	2-6-23	
Bromobenzene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	2-6-23	2-6-23	
2-Chlorotoluene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
4-Chlorotoluene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	2-6-23	2-6-23	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
Hexachlorobutadiene	ND	4.0	EPA 8260D	2-6-23	2-6-23	
1,2,3-Trichlorobenzene	ND	0.80	EPA 8260D	2-6-23	2-6-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				





Date of Report: February 10, 2023  
 Samples Submitted: February 2, 2023  
 Laboratory Reference: 2302-022  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-45R:W</b>					
Laboratory ID:	02-022-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Chloromethane	ND	1.0	EPA 8260D	2-6-23	2-6-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-6-23	2-6-23	
Bromomethane	ND	1.0	EPA 8260D	2-6-23	2-6-23	
Chloroethane	ND	1.0	EPA 8260D	2-6-23	2-6-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Iodomethane	ND	5.0	EPA 8260D	2-6-23	2-6-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-6-23	2-6-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
(cis) 1,2-Dichloroethene	0.69	0.20	EPA 8260D	2-6-23	2-6-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Chloroform	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Trichloroethene	0.96	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Dibromomethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-6-23	2-6-23	



Date of Report: February 10, 2023  
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 Laboratory Reference: 2302-022  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-45R:W</b>					
Laboratory ID:	02-022-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Tetrachloroethene	3.0	0.20	EPA 8260D	2-6-23	2-6-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Bromoform	ND	1.0	EPA 8260D	2-6-23	2-6-23	
Bromobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-6-23	2-6-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-6-23	2-6-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0206W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Chloromethane	ND	1.0	EPA 8260D	2-6-23	2-6-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-6-23	2-6-23	
Bromomethane	ND	1.0	EPA 8260D	2-6-23	2-6-23	
Chloroethane	ND	1.0	EPA 8260D	2-6-23	2-6-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Iodomethane	ND	5.0	EPA 8260D	2-6-23	2-6-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-6-23	2-6-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Chloroform	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Trichloroethene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Dibromomethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-6-23	2-6-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0206W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Bromoform	ND	1.0	EPA 8260D	2-6-23	2-6-23	
Bromobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-6-23	2-6-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-6-23	2-6-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-6-23	2-6-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-6-23	2-6-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
<b>SPIKE BLANK</b>					
Laboratory ID:	SB0206W1				
Dichlorodifluoromethane	8.68	10.0	87	34-166	
Chloromethane	9.89	10.0	99	63-138	
Vinyl Chloride	9.36	10.0	94	71-135	
Bromomethane	9.60	10.0	96	20-151	
Chloroethane	9.52	10.0	95	76-125	
Trichlorofluoromethane	10.3	10.0	103	75-131	
1,1-Dichloroethene	9.84	10.0	98	78-125	
Iodomethane	8.84	10.0	88	10-155	
Methylene Chloride	9.36	10.0	94	80-120	
(trans) 1,2-Dichloroethene	9.84	10.0	98	80-125	
1,1-Dichloroethane	9.86	10.0	99	80-125	
2,2-Dichloropropane	11.4	10.0	114	80-146	
(cis) 1,2-Dichloroethene	10.3	10.0	103	80-129	
Bromochloromethane	10.3	10.0	103	80-125	
Chloroform	9.88	10.0	99	80-123	
1,1,1-Trichloroethane	9.85	10.0	99	80-123	
Carbon Tetrachloride	9.49	10.0	95	80-126	
1,1-Dichloropropene	9.70	10.0	97	80-126	
1,2-Dichloroethane	9.73	10.0	97	80-124	
Trichloroethene	10.1	10.0	101	80-122	
1,2-Dichloropropane	9.87	10.0	99	80-123	
Dibromomethane	9.80	10.0	98	80-123	
Bromodichloromethane	9.93	10.0	99	80-125	
(cis) 1,3-Dichloropropene	10.2	10.0	102	80-129	
(trans) 1,3-Dichloropropene	10.0	10.0	100	80-134	



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Analyte	Result	Spike Level	Percent Recovery	Recovery Limits	Flags
<b>SPIKE BLANK</b>					
Laboratory ID:	SB0206W1				
1,1,2-Trichloroethane	<b>9.28</b>	10.0	93	77-126	
Tetrachloroethene	<b>10.5</b>	10.0	105	80-124	
1,3-Dichloropropane	<b>9.56</b>	10.0	96	80-120	
Dibromochloromethane	<b>9.96</b>	10.0	100	80-128	
1,2-Dibromoethane	<b>9.94</b>	10.0	99	80-127	
Chlorobenzene	<b>9.81</b>	10.0	98	80-120	
1,1,1,2-Tetrachloroethane	<b>9.83</b>	10.0	98	80-125	
Bromoform	<b>10.1</b>	10.0	101	80-130	
Bromobenzene	<b>10.1</b>	10.0	101	76-128	
1,1,2,2-Tetrachloroethane	<b>9.86</b>	10.0	99	74-130	
1,2,3-Trichloropropane	<b>8.77</b>	10.0	88	71-129	
2-Chlorotoluene	<b>10.2</b>	10.0	102	80-128	
4-Chlorotoluene	<b>10.5</b>	10.0	105	80-130	
1,3-Dichlorobenzene	<b>10.2</b>	10.0	102	80-126	
1,4-Dichlorobenzene	<b>9.98</b>	10.0	100	80-121	
1,2-Dichlorobenzene	<b>10.1</b>	10.0	101	79-125	
1,2-Dibromo-3-chloropropane	<b>9.78</b>	10.0	98	73-133	
1,2,4-Trichlorobenzene	<b>10.5</b>	10.0	105	80-139	
Hexachlorobutadiene	<b>10.7</b>	10.0	107	80-151	
1,2,3-Trichlorobenzene	<b>10.2</b>	10.0	102	75-146	
<i>Surrogate:</i>					
<i>Dibromofluoromethane</i>			97	75-127	
<i>Toluene-d8</i>			100	80-127	
<i>4-Bromofluorobenzene</i>			98	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
<b>Client ID:</b>	<b>MW-20R:W</b>					
Laboratory ID:	02-022-01					
Total Organic Carbon	<b>6.2</b>	1.0	SM 5310B	2-3-23	2-3-23	

<b>Client ID:</b>	<b>MW-45R:W</b>					
Laboratory ID:	02-022-02					
Total Organic Carbon	<b>8.9</b>	1.0	SM 5310B	2-3-23	2-3-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0203W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-3-23	2-3-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	01-236-01							
	ORIG	DUP						
Total Organic Carbon	<b>5.99</b>	<b>6.35</b>	NA	NA	NA	6	12	

**MATRIX SPIKE**

Laboratory ID:	01-236-01							
	MS	MS		MS				
Total Organic Carbon	<b>16.1</b>	10.0	5.99	101	80-120	NA	NA	

**SPIKE BLANK**

Laboratory ID:	SB0203W1							
	SB	SB		SB				
Total Organic Carbon	<b>9.33</b>	10.0	NA	93	80-118	NA	NA	





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**DISSOLVED IRON**  
**EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-20R:W</b>					
Laboratory ID:	02-022-01					
Iron	<b>6200</b>	56	EPA 6010D		2-6-23	
<b>Client ID:</b>	<b>MW-45R:W</b>					
Laboratory ID:	02-022-02					
Iron	<b>ND</b>	56	EPA 6010D		2-6-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0206D1					
Iron	ND	56	EPA 6010D		2-6-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	01-265-06							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	01-265-06									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22800	22200	22200	ND	103	103	75-125	0	20



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**CHLORIDE**  
**SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-20R:W</b>					
Laboratory ID:	02-022-01					
Chloride	<b>15</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	
<b>Client ID:</b>	<b>MW-45R:W</b>					
Laboratory ID:	02-022-02					
Chloride	<b>8.7</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208W1					
Chloride	<b>ND</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-022-01							
	ORIG	DUP						
Chloride	<b>15.1</b>	<b>14.5</b>	NA	NA	NA	4	11	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-022-01							
	MS	MS		MS				
Chloride	<b>65.3</b>	50.0	15.1	100	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0208W1							
	SB	SB		SB				
Chloride	<b>51.4</b>	50.0	NA	103	90-119	NA	NA	



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**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-20R:W</b>					
Laboratory ID:	02-022-01					
Sulfate	<b>15</b>	5.0	ASTM D516-11	2-9-23	2-9-23	
<b>Client ID:</b>	<b>MW-45R:W</b>					
Laboratory ID:	02-022-02					
Sulfate	<b>87</b>	50	ASTM D516-11	2-9-23	2-9-23	



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**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0209W1					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-9-23	2-9-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-060-02							
	ORIG	DUP						
Sulfate	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-060-02							
	MS	MS		MS				
Sulfate	<b>10.6</b>	10.0	ND	106	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB							
	SB	SB		SB				
Sulfate	<b>8.76</b>	10.0	NA	88	85-114	NA	NA	



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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-20R:W</b>					
Laboratory ID:	02-022-01					
Ammonia	<b>0.10</b>	0.050	SM 4500-NH3 D	2-4-23	2-4-23	
<b>Client ID:</b>	<b>MW-45R:W</b>					
Laboratory ID:	02-022-02					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-4-23	2-4-23	



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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**  
**QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0204W1					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-4-23	2-4-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-022-01							
	ORIG	DUP						
Ammonia	<b>0.102</b>	<b>0.108</b>	NA	NA	NA	NA	6	15

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-022-01							
	MS	MS		MS				
Ammonia	<b>4.79</b>	5.00	0.102	94	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0204W1							
	SB	SB		SB				
Ammonia	<b>4.76</b>	5.00	NA	95	88-110	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
<b>Client ID:</b>	<b>MW-20R:W</b>					
Laboratory ID:	02-022-01					
Methane	<b>4700</b>	28	RSK 175	2-8-23	2-8-23	
Ethane	<b>4.0</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>66</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>71</i>	<i>50-150</i>				
<b>Client ID:</b>	<b>MW-45R:W</b>					
Laboratory ID:	02-022-02					
Methane	<b>1.6</b>	0.55	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>76</i>	<i>50-150</i>				



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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
<b>Client ID:</b>						
Laboratory ID:	MB0208W1					
Methane	<b>ND</b>	0.55	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	87	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0208W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	<b>41.9</b>	<b>40.9</b>	44.2	44.2	95	93	75-125	2	25	
Ethane	<b>78.1</b>	<b>76.3</b>	83.2	83.2	94	92	75-125	2	25	
Ethene	<b>74.4</b>	<b>70.2</b>	77.7	77.7	96	90	75-125	6	25	
<i>Surrogate:</i>										
1-Butene					90	84	50-150			





### 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

### Turnaround Request (In working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

### Laboratory Number:

**02-022**

Company: **KANE Environmental**  
 Project Number: **82303-9.16**  
 Project Name: **BSCSS**  
 Project Manager: **JEFF JENSEN**  
 Sampled by: **EMMY KANE**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	NW-20R:W	2/2/23	1210	GW
2	NW-45R:W	2/2/23	1345	GW

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	
NWTPH-Gx	
NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/> )	
Volatiles 8260	
Halogenated Volatiles 8260	X
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270/SIM (with low-level PAHs)	
PAHs 8270/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081	
Organophosphorus Pesticides 8270/SIM	
Chlorinated Acid Herbicides 8151	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664	X
Dissolved Iron	X
TOC	X
Chloride	X
Ammonia-N	X
% Moisture Sulfate	X

Signature	Company	Date	Time	Comments/Special Instructions
	KANE ENV.	2/2/23	1440	Field filtered dissolved iron
	OSE	2/2/23	1440	PSK: methane, ethane, ethene Low detection limit (3-4 ug/L) Low detection limit for VC

Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Reviewed/Date \_\_\_\_\_

Reviewed/Date \_\_\_\_\_

Data Package: Standard  Level III  Level IV

Chromatograms with final report  Electronic Data Deliverables (EDDs)



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

February 13, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2302-050

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 3, 2023.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 13, 2023  
Samples Submitted: February 3, 2023  
Laboratory Reference: 2302-050  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 3, 2023 and received by the laboratory on February 3, 2023. 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: February 13, 2023  
 Samples Submitted: February 3, 2023  
 Laboratory Reference: 2302-050  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-34:W</b>					
Laboratory ID:	02-050-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Vinyl Chloride	2.6	0.20	EPA 8260D	2-8-23	2-8-23	
Bromomethane	ND	1.4	EPA 8260D	2-8-23	2-8-23	
Chloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Iodomethane	ND	9.0	EPA 8260D	2-8-23	2-8-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-8-23	2-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloroform	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Trichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromomethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	



Date of Report: February 13, 2023  
 Samples Submitted: February 3, 2023  
 Laboratory Reference: 2302-050  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-34:W</b>					
Laboratory ID:	02-050-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromoform	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Bromobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	96	78-125				





Date of Report: February 13, 2023  
 Samples Submitted: February 3, 2023  
 Laboratory Reference: 2302-050  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-21R:W</b>					
Laboratory ID:	02-050-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Vinyl Chloride	0.41	0.20	EPA 8260D	2-8-23	2-8-23	
Bromomethane	ND	1.4	EPA 8260D	2-8-23	2-8-23	
Chloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Iodomethane	ND	9.0	EPA 8260D	2-8-23	2-8-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-8-23	2-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,2-Dichloroethene	4.2	0.20	EPA 8260D	2-8-23	2-8-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloroform	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Trichloroethene	1.7	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromomethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	



Date of Report: February 13, 2023  
 Samples Submitted: February 3, 2023  
 Laboratory Reference: 2302-050  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-21R:W</b>					
Laboratory ID:	02-050-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Tetrachloroethene	16	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromoform	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Bromobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: February 13, 2023  
 Samples Submitted: February 3, 2023  
 Laboratory Reference: 2302-050  
 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-14D:W</b>					
<b>Laboratory ID:</b>	02-050-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Vinyl Chloride	6.7	0.20	EPA 8260D	2-8-23	2-8-23	
Bromomethane	ND	1.4	EPA 8260D	2-8-23	2-8-23	
Chloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethene	0.24	0.20	EPA 8260D	2-8-23	2-8-23	
Iodomethane	ND	9.0	EPA 8260D	2-8-23	2-8-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-8-23	2-8-23	
(trans) 1,2-Dichloroethene	0.30	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,2-Dichloroethene	34	0.20	EPA 8260D	2-8-23	2-8-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloroform	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Trichloroethene	2.3	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromomethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	



Date of Report: February 13, 2023  
 Samples Submitted: February 3, 2023  
 Laboratory Reference: 2302-050  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-14D:W</b>					
Laboratory ID:	02-050-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Tetrachloroethene	8.5	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromoform	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Bromobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	98	78-125				



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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-8-23	2-8-23	
Bromomethane	ND	1.4	EPA 8260D	2-8-23	2-8-23	
Chloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Iodomethane	ND	9.0	EPA 8260D	2-8-23	2-8-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-8-23	2-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloroform	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Trichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromomethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromoform	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Bromobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0208W1									
Dichlorodifluoromethane	8.50	8.64	10.0	10.0	85	86	34-166	2	21	
Chloromethane	9.12	9.61	10.0	10.0	91	96	63-138	5	18	
Vinyl Chloride	9.60	9.91	10.0	10.0	96	99	71-135	3	20	
Bromomethane	7.19	8.42	10.0	10.0	72	84	20-151	16	36	
Chloroethane	9.49	9.50	10.0	10.0	95	95	76-125	0	20	
Trichlorofluoromethane	10.3	10.4	10.0	10.0	103	104	75-131	1	19	
1,1-Dichloroethene	10.7	11.0	10.0	10.0	107	110	78-125	3	19	
Iodomethane	5.59	7.60	10.0	10.0	56	76	10-155	30	40	
Methylene Chloride	10.5	10.6	10.0	10.0	105	106	80-120	1	15	
(trans) 1,2-Dichloroethene	10.9	11.1	10.0	10.0	109	111	80-125	2	17	
1,1-Dichloroethane	10.8	11.1	10.0	10.0	108	111	80-125	3	17	
2,2-Dichloropropane	12.3	12.4	10.0	10.0	123	124	80-146	1	21	
(cis) 1,2-Dichloroethene	11.3	11.6	10.0	10.0	113	116	80-129	3	17	
Bromochloromethane	11.4	11.6	10.0	10.0	114	116	80-125	2	18	
Chloroform	10.9	11.2	10.0	10.0	109	112	80-123	3	16	
1,1,1-Trichloroethane	10.8	11.0	10.0	10.0	108	110	80-123	2	18	
Carbon Tetrachloride	10.4	10.5	10.0	10.0	104	105	80-126	1	17	
1,1-Dichloropropene	10.7	10.9	10.0	10.0	107	109	80-126	2	18	
1,2-Dichloroethane	11.0	11.2	10.0	10.0	110	112	80-124	2	15	
Trichloroethene	11.2	11.5	10.0	10.0	112	115	80-122	3	18	
1,2-Dichloropropane	11.0	11.1	10.0	10.0	110	111	80-123	1	15	
Dibromomethane	11.1	11.5	10.0	10.0	111	115	80-123	4	15	
Bromodichloromethane	11.1	11.4	10.0	10.0	111	114	80-125	3	15	
(cis) 1,3-Dichloropropene	11.5	11.7	10.0	10.0	115	117	80-129	2	15	
(trans) 1,3-Dichloropropene	11.2	11.2	10.0	10.0	112	112	80-134	0	17	



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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0208W1									
1,1,2-Trichloroethane	10.4	10.5	10.0	10.0	104	105	77-126	1	20	
Tetrachloroethene	11.1	11.7	10.0	10.0	111	117	80-124	5	18	
1,3-Dichloropropane	10.7	10.9	10.0	10.0	107	109	80-120	2	15	
Dibromochloromethane	11.0	11.4	10.0	10.0	110	114	80-128	4	15	
1,2-Dibromoethane	11.2	11.6	10.0	10.0	112	116	80-127	4	15	
Chlorobenzene	10.8	11.2	10.0	10.0	108	112	80-120	4	17	
1,1,1,2-Tetrachloroethane	10.7	11.1	10.0	10.0	107	111	80-125	4	17	
Bromoform	10.9	11.1	10.0	10.0	109	111	80-130	2	15	
Bromobenzene	11.0	11.2	10.0	10.0	110	112	76-128	2	16	
1,1,1,2,2-Tetrachloroethane	10.8	11.1	10.0	10.0	108	111	74-130	3	15	
1,2,3-Trichloropropane	9.70	9.98	10.0	10.0	97	100	71-129	3	25	
2-Chlorotoluene	11.1	11.6	10.0	10.0	111	116	80-128	4	18	
4-Chlorotoluene	11.4	11.9	10.0	10.0	114	119	80-130	4	19	
1,3-Dichlorobenzene	11.2	11.6	10.0	10.0	112	116	80-126	4	17	
1,4-Dichlorobenzene	10.8	11.3	10.0	10.0	108	113	80-121	5	17	
1,2-Dichlorobenzene	10.8	11.3	10.0	10.0	108	113	79-125	5	15	
1,2-Dibromo-3-chloropropane	10.6	10.6	10.0	10.0	106	106	73-133	0	15	
1,2,4-Trichlorobenzene	11.0	11.7	10.0	10.0	110	117	80-139	6	18	
Hexachlorobutadiene	11.2	12.2	10.0	10.0	112	122	80-151	9	18	
1,2,3-Trichlorobenzene	11.1	11.7	10.0	10.0	111	117	75-146	5	28	
<i>Surrogate:</i>										
Dibromofluoromethane					98	100	75-127			
Toluene-d8					101	101	80-127			
4-Bromofluorobenzene					99	99	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
<b>Client ID:</b>	<b>MW-34:W</b>					
Laboratory ID:	02-050-01					
Total Organic Carbon	<b>1.6</b>	1.0	SM 5310B	2-10-23	2-10-23	

<b>Client ID:</b>	<b>MW-21R:W</b>					
Laboratory ID:	02-050-02					
Total Organic Carbon	<b>2.9</b>	1.0	SM 5310B	2-10-23	2-10-23	

<b>Client ID:</b>	<b>HZ-MW-14D:W</b>					
Laboratory ID:	02-050-03					
Total Organic Carbon	<b>2.5</b>	1.0	SM 5310B	2-10-23	2-10-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0209W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-10-23	2-10-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-050-01							
	ORIG	DUP						
Total Organic Carbon	<b>1.57</b>	<b>1.58</b>	NA	NA	NA	1	12	

**MATRIX SPIKE**

Laboratory ID:	02-050-01							
	MS	MS		MS				
Total Organic Carbon	<b>11.0</b>	10.0	1.57	94	80-120	NA	NA	

**SPIKE BLANK**

Laboratory ID:	SB0209W1							
	SB	SB		SB				
Total Organic Carbon	<b>9.55</b>	10.0	NA	96	80-118	NA	NA	



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**DISSOLVED IRON  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-34:W</b>					
Laboratory ID:	02-050-01					
Iron	<b>2000</b>	56	EPA 6010D		2-6-23	
<b>Client ID:</b>	<b>MW-21R:W</b>					
Laboratory ID:	02-050-02					
Iron	<b>92</b>	56	EPA 6010D		2-6-23	
<b>Client ID:</b>	<b>HZ-MW-14D:W</b>					
Laboratory ID:	02-050-03					
Iron	<b>380</b>	56	EPA 6010D		2-6-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0206D1					
Iron	ND	56	EPA 6010D		2-6-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	01-265-06							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	01-265-06									
	MS	MSD	MS	MSD	MS	MSD				
Iron	22800	22800	22200	22200	ND	103	103	75-125	0	20



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**CHLORIDE**  
**SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-34:W</b>					
Laboratory ID:	02-050-01					
Chloride	<b>11</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	
<b>Client ID:</b>	<b>MW-21R:W</b>					
Laboratory ID:	02-050-02					
Chloride	<b>3.5</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	
<b>Client ID:</b>	<b>HZ-MW-14D:W</b>					
Laboratory ID:	02-050-03					
Chloride	<b>11</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208W1					
Chloride	<b>ND</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-022-01							
	ORIG	DUP						
Chloride	<b>15.1</b>	<b>14.5</b>	NA	NA	NA	4	11	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-022-01							
	MS	MS		MS				
Chloride	<b>65.3</b>	50.0	15.1	100	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0208W1							
	SB	SB		SB				
Chloride	<b>51.4</b>	50.0	NA	103	90-119	NA	NA	



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**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-34:W</b>					
Laboratory ID:	02-050-01					
Sulfate	<b>20</b>	5.0	ASTM D516-11	2-9-23	2-9-23	
<b>Client ID:</b>	<b>MW-21R:W</b>					
Laboratory ID:	02-050-02					
Sulfate	<b>24</b>	5.0	ASTM D516-11	2-9-23	2-9-23	
<b>Client ID:</b>	<b>HZ-MW-14D:W</b>					
Laboratory ID:	02-050-03					
Sulfate	<b>10</b>	5.0	ASTM D516-11	2-9-23	2-9-23	



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**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0209W1					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-9-23	2-9-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-060-02							
	ORIG	DUP						
Sulfate	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-060-02							
	MS	MS		MS				
Sulfate	<b>10.6</b>	10.0	ND	106	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB							
	SB	SB		SB				
Sulfate	<b>8.76</b>	10.0	NA	88	85-114	NA	NA	





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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-34:W</b>					
Laboratory ID:	02-050-01					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-4-23	2-4-23	
<b>Client ID:</b>	<b>MW-21R:W</b>					
Laboratory ID:	02-050-02					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-4-23	2-4-23	
<b>Client ID:</b>	<b>HZ-MW-14D:W</b>					
Laboratory ID:	02-050-03					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-4-23	2-4-23	



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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**  
**QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0204W1					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-4-23	2-4-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-022-01							
	ORIG	DUP						
Ammonia	<b>0.102</b>	<b>0.108</b>	NA	NA	NA	NA	6	15

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-022-01							
	MS	MS		MS				
Ammonia	<b>4.79</b>	5.00	0.102	94	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0204W1							
	SB	SB		SB				
Ammonia	<b>4.76</b>	5.00	NA	95	88-110	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
<b>Client ID:</b>	<b>MW-34:W</b>					
Laboratory ID:	02-050-01					
Methane	<b>340</b>	2.2	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>77</i>	<i>50-150</i>				
<b>Client ID:</b>	<b>MW-21R:W</b>					
Laboratory ID:	02-050-02					
Methane	<b>1200</b>	8.3	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>77</i>	<i>50-150</i>				
<b>Client ID:</b>	<b>HZ-MW-14D:W</b>					
Laboratory ID:	02-050-03					
Methane	<b>150</b>	1.1	RSK 175	2-8-23	2-8-23	
Ethane	<b>1.1</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>75</i>	<i>50-150</i>				



Date of Report: February 13, 2023  
 Samples Submitted: February 3, 2023  
 Laboratory Reference: 2302-050  
 Project: 82303-9.16

**DISSOLVED GASES  
 RSK 175  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>						
Laboratory ID:	MB0208W1					
Methane	ND	0.55	RSK 175	2-8-23	2-8-23	
Ethane	ND	0.22	RSK 175	2-8-23	2-8-23	
Ethene	ND	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	87	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0208W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	41.9	40.9	44.2	44.2	95	93	75-125	2	25	
Ethane	78.1	76.3	83.2	83.2	94	92	75-125	2	25	
Ethene	74.4	70.2	77.7	77.7	96	90	75-125	6	25	
<i>Surrogate:</i>										
1-Butene					90	84	50-150			





### 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







14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

February 15, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2302-060

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 6, 2023.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 15, 2023  
Samples Submitted: February 6, 2023  
Laboratory Reference: 2302-060  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 6, 2023 and received by the laboratory on February 6, 2023. 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: February 15, 2023  
 Samples Submitted: February 6, 2023  
 Laboratory Reference: 2302-060  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-31:W</b>					
Laboratory ID:	02-060-01					
Dichlorodifluoromethane	ND	1.3	EPA 8260D	2-7-23	2-7-23	
Chloromethane	ND	4.0	EPA 8260D	2-7-23	2-7-23	
Vinyl Chloride	94	0.80	EPA 8260D	2-7-23	2-7-23	
Bromomethane	ND	4.0	EPA 8260D	2-7-23	2-7-23	
Chloroethane	ND	4.0	EPA 8260D	2-7-23	2-7-23	
Trichlorofluoromethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloroethene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Iodomethane	ND	26	EPA 8260D	2-7-23	2-7-23	
Methylene Chloride	ND	4.0	EPA 8260D	2-7-23	2-7-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloroethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
2,2-Dichloropropane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
(cis) 1,2-Dichloroethene	16	0.80	EPA 8260D	2-7-23	2-7-23	
Bromochloromethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Chloroform	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Carbon Tetrachloride	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloropropene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,2-Dichloroethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Trichloroethene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,2-Dichloropropane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Dibromomethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Bromodichloromethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	2-7-23	2-7-23	



Date of Report: February 15, 2023  
 Samples Submitted: February 6, 2023  
 Laboratory Reference: 2302-060  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-31:W</b>					
<b>Laboratory ID:</b>	02-060-01					
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Tetrachloroethene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,3-Dichloropropane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Dibromochloromethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,2-Dibromoethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Chlorobenzene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Bromoform	ND	4.0	EPA 8260D	2-7-23	2-7-23	
Bromobenzene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	2-7-23	2-7-23	
2-Chlorotoluene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
4-Chlorotoluene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	2-7-23	2-7-23	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
Hexachlorobutadiene	ND	4.0	EPA 8260D	2-7-23	2-7-23	
1,2,3-Trichlorobenzene	ND	0.80	EPA 8260D	2-7-23	2-7-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: February 15, 2023  
 Samples Submitted: February 6, 2023  
 Laboratory Reference: 2302-060  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-40:W</b>					
Laboratory ID:	02-060-02					
Dichlorodifluoromethane	ND	3.3	EPA 8260D	2-7-23	2-7-23	
Chloromethane	ND	10	EPA 8260D	2-7-23	2-7-23	
Vinyl Chloride	73	2.0	EPA 8260D	2-7-23	2-7-23	
Bromomethane	ND	10	EPA 8260D	2-7-23	2-7-23	
Chloroethane	ND	10	EPA 8260D	2-7-23	2-7-23	
Trichlorofluoromethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloroethene	26	2.0	EPA 8260D	2-7-23	2-7-23	
Iodomethane	ND	66	EPA 8260D	2-7-23	2-7-23	
Methylene Chloride	ND	10	EPA 8260D	2-7-23	2-7-23	
(trans) 1,2-Dichloroethene	3.4	2.0	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloroethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
2,2-Dichloropropane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
(cis) 1,2-Dichloroethene	160	2.0	EPA 8260D	2-7-23	2-7-23	
Bromochloromethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Chloroform	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Carbon Tetrachloride	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloropropene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,2-Dichloroethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Trichloroethene	340	2.0	EPA 8260D	2-7-23	2-7-23	
1,2-Dichloropropane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Dibromomethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Bromodichloromethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	2-7-23	2-7-23	



Date of Report: February 15, 2023  
 Samples Submitted: February 6, 2023  
 Laboratory Reference: 2302-060  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-40:W</b>					
Laboratory ID:	02-060-02					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Tetrachloroethene	6.3	2.0	EPA 8260D	2-7-23	2-7-23	
1,3-Dichloropropane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Dibromochloromethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,2-Dibromoethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Chlorobenzene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Bromoform	ND	10	EPA 8260D	2-7-23	2-7-23	
Bromobenzene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	2-7-23	2-7-23	
2-Chlorotoluene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
4-Chlorotoluene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	2-7-23	2-7-23	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
Hexachlorobutadiene	ND	10	EPA 8260D	2-7-23	2-7-23	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	2-7-23	2-7-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	75-127				
<i>Toluene-d8</i>	100	80-127				
<i>4-Bromofluorobenzene</i>	99	78-125				



Date of Report: February 15, 2023  
 Samples Submitted: February 6, 2023  
 Laboratory Reference: 2302-060  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-39:W</b>					
Laboratory ID:	02-060-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Chloromethane	ND	5.0	EPA 8260D	2-8-23	2-8-23	
Vinyl Chloride	0.10	0.10	EPA 8260D/SIM	2-8-23	2-8-23	
Bromomethane	ND	7.0	EPA 8260D	2-8-23	2-8-23	
Chloroethane	ND	5.0	EPA 8260D	2-8-23	2-8-23	
Trichlorofluoromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Iodomethane	ND	45	EPA 8260D	2-8-23	2-8-23	
Methylene Chloride	ND	5.0	EPA 8260D	2-8-23	2-8-23	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
2,2-Dichloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Bromochloromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Chloroform	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,1,1-Trichloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Carbon Tetrachloride	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloropropene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Trichloroethene	60	1.0	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Dibromomethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Bromodichloromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260D	2-8-23	2-8-23	



Date of Report: February 15, 2023  
 Samples Submitted: February 6, 2023  
 Laboratory Reference: 2302-060  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-39:W</b>					
Laboratory ID:	02-060-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Tetrachloroethene	210	1.0	EPA 8260D	2-8-23	2-8-23	
1,3-Dichloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Dibromochloromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromoethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Chlorobenzene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Bromoform	ND	5.0	EPA 8260D	2-8-23	2-8-23	
Bromobenzene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
2-Chlorotoluene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
4-Chlorotoluene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,3-Dichlorobenzene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,4-Dichlorobenzene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2-Dichlorobenzene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260D	2-8-23	2-8-23	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Hexachlorobutadiene	ND	5.0	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: February 15, 2023  
 Samples Submitted: February 6, 2023  
 Laboratory Reference: 2302-060  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-23:W</b>					
Laboratory ID:	02-060-04					
Dichlorodifluoromethane	ND	0.33	EPA 8260D	2-7-23	2-7-23	
Chloromethane	ND	1.0	EPA 8260D	2-7-23	2-7-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-7-23	2-7-23	
Bromomethane	ND	1.0	EPA 8260D	2-7-23	2-7-23	
Chloroethane	ND	1.0	EPA 8260D	2-7-23	2-7-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Iodomethane	ND	6.6	EPA 8260D	2-7-23	2-7-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-7-23	2-7-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Chloroform	0.37	0.20	EPA 8260D	2-7-23	2-7-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Trichloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Dibromomethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-7-23	2-7-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-23:W</b>					
Laboratory ID:	02-060-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Tetrachloroethene	0.35	0.20	EPA 8260D	2-7-23	2-7-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Bromoform	ND	1.0	EPA 8260D	2-7-23	2-7-23	
Bromobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-7-23	2-7-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-7-23	2-7-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				





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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0207W1					
Dichlorodifluoromethane	ND	0.33	EPA 8260D	2-7-23	2-7-23	
Chloromethane	ND	1.0	EPA 8260D	2-7-23	2-7-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-7-23	2-7-23	
Bromomethane	ND	1.0	EPA 8260D	2-7-23	2-7-23	
Chloroethane	ND	1.0	EPA 8260D	2-7-23	2-7-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Iodomethane	ND	6.6	EPA 8260D	2-7-23	2-7-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-7-23	2-7-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Chloroform	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Trichloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Dibromomethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-7-23	2-7-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0207W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Bromoform	ND	1.0	EPA 8260D	2-7-23	2-7-23	
Bromobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-7-23	2-7-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-7-23	2-7-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-7-23	2-7-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-7-23	2-7-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloromethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-8-23	2-8-23	
Bromomethane	ND	1.4	EPA 8260D	2-8-23	2-8-23	
Chloroethane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Iodomethane	ND	9.0	EPA 8260D	2-8-23	2-8-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-8-23	2-8-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chloroform	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Trichloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromomethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-8-23	2-8-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Bromoform	ND	1.0	EPA 8260D	2-8-23	2-8-23	
Bromobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-8-23	2-8-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-8-23	2-8-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0207W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	6.11	5.97	10.0	10.0	61	60	34-166	2	21	
Chloromethane	8.64	8.51	10.0	10.0	86	85	63-138	2	18	
Vinyl Chloride	8.84	8.84	10.0	10.0	88	88	71-135	0	20	
Bromomethane	11.4	10.6	10.0	10.0	114	106	20-151	7	36	
Chloroethane	9.22	9.41	10.0	10.0	92	94	76-125	2	20	
Trichlorofluoromethane	9.92	9.92	10.0	10.0	99	99	75-131	0	19	
1,1-Dichloroethene	9.69	9.76	10.0	10.0	97	98	78-125	1	19	
Iodomethane	7.55	8.50	10.0	10.0	76	85	10-155	12	40	
Methylene Chloride	9.71	9.68	10.0	10.0	97	97	80-120	0	15	
(trans) 1,2-Dichloroethene	10.1	10.2	10.0	10.0	101	102	80-125	1	17	
1,1-Dichloroethane	10.1	10.1	10.0	10.0	101	101	80-125	0	17	
2,2-Dichloropropane	11.4	11.4	10.0	10.0	114	114	80-146	0	21	
(cis) 1,2-Dichloroethene	10.5	10.6	10.0	10.0	105	106	80-129	1	17	
Bromochloromethane	10.9	10.7	10.0	10.0	109	107	80-125	2	18	
Chloroform	10.3	10.2	10.0	10.0	103	102	80-123	1	16	
1,1,1-Trichloroethane	10.1	10.1	10.0	10.0	101	101	80-123	0	18	
Carbon Tetrachloride	9.75	9.68	10.0	10.0	98	97	80-126	1	17	
1,1-Dichloropropene	9.91	9.93	10.0	10.0	99	99	80-126	0	18	
1,2-Dichloroethane	10.2	10.3	10.0	10.0	102	103	80-124	1	15	
Trichloroethene	10.3	10.5	10.0	10.0	103	105	80-122	2	18	
1,2-Dichloropropane	9.88	10.1	10.0	10.0	99	101	80-123	2	15	
Dibromomethane	10.1	10.5	10.0	10.0	101	105	80-123	4	15	
Bromodichloromethane	9.96	10.4	10.0	10.0	100	104	80-125	4	15	
(cis) 1,3-Dichloropropene	10.5	10.7	10.0	10.0	105	107	80-129	2	15	
(trans) 1,3-Dichloropropene	10.1	10.5	10.0	10.0	101	105	80-134	4	17	



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Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD Limit	Flags
					SB	SBD	Limits			
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0207W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	9.61	9.98	10.0	10.0	96	100	77-126	4	20	
Tetrachloroethene	10.4	10.7	10.0	10.0	104	107	80-124	3	18	
1,3-Dichloropropane	10.1	10.1	10.0	10.0	101	101	80-120	0	15	
Dibromochloromethane	10.2	10.5	10.0	10.0	102	105	80-128	3	15	
1,2-Dibromoethane	10.4	10.5	10.0	10.0	104	105	80-127	1	15	
Chlorobenzene	10.1	10.3	10.0	10.0	101	103	80-120	2	17	
1,1,1,2-Tetrachloroethane	9.89	10.3	10.0	10.0	99	103	80-125	4	17	
Bromoform	10.1	10.3	10.0	10.0	101	103	80-130	2	15	
Bromobenzene	10.1	10.4	10.0	10.0	101	104	76-128	3	16	
1,1,2,2-Tetrachloroethane	9.90	10.4	10.0	10.0	99	104	74-130	5	15	
1,2,3-Trichloropropane	8.83	9.12	10.0	10.0	88	91	71-129	3	25	
2-Chlorotoluene	10.3	10.6	10.0	10.0	103	106	80-128	3	18	
4-Chlorotoluene	10.4	11.0	10.0	10.0	104	110	80-130	6	19	
1,3-Dichlorobenzene	10.2	10.6	10.0	10.0	102	106	80-126	4	17	
1,4-Dichlorobenzene	9.98	10.4	10.0	10.0	100	104	80-121	4	17	
1,2-Dichlorobenzene	9.93	10.5	10.0	10.0	99	105	79-125	6	15	
1,2-Dibromo-3-chloropropane	9.99	10.6	10.0	10.0	100	106	73-133	6	15	
1,2,4-Trichlorobenzene	10.3	11.0	10.0	10.0	103	110	80-139	7	18	
Hexachlorobutadiene	10.3	11.2	10.0	10.0	103	112	80-151	8	18	
1,2,3-Trichlorobenzene	10.2	11.0	10.0	10.0	102	110	75-146	8	28	
<i>Surrogate:</i>										
Dibromofluoromethane					101	99	75-127			
Toluene-d8					100	100	80-127			
4-Bromofluorobenzene					101	99	78-125			



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Matrix: Water  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0208W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	8.50	8.64	10.0	10.0	85	86	34-166	2	21	
Chloromethane	9.12	9.61	10.0	10.0	91	96	63-138	5	18	
Vinyl Chloride	9.60	9.91	10.0	10.0	96	99	71-135	3	20	
Bromomethane	7.19	8.42	10.0	10.0	72	84	20-151	16	36	
Chloroethane	9.49	9.50	10.0	10.0	95	95	76-125	0	20	
Trichlorofluoromethane	10.3	10.4	10.0	10.0	103	104	75-131	1	19	
1,1-Dichloroethene	10.7	11.0	10.0	10.0	107	110	78-125	3	19	
Iodomethane	5.59	7.60	10.0	10.0	56	76	10-155	30	40	
Methylene Chloride	10.5	10.6	10.0	10.0	105	106	80-120	1	15	
(trans) 1,2-Dichloroethene	10.9	11.1	10.0	10.0	109	111	80-125	2	17	
1,1-Dichloroethane	10.8	11.1	10.0	10.0	108	111	80-125	3	17	
2,2-Dichloropropane	12.3	12.4	10.0	10.0	123	124	80-146	1	21	
(cis) 1,2-Dichloroethene	11.3	11.6	10.0	10.0	113	116	80-129	3	17	
Bromochloromethane	11.4	11.6	10.0	10.0	114	116	80-125	2	18	
Chloroform	10.9	11.2	10.0	10.0	109	112	80-123	3	16	
1,1,1-Trichloroethane	10.8	11.0	10.0	10.0	108	110	80-123	2	18	
Carbon Tetrachloride	10.4	10.5	10.0	10.0	104	105	80-126	1	17	
1,1-Dichloropropene	10.7	10.9	10.0	10.0	107	109	80-126	2	18	
1,2-Dichloroethane	11.0	11.2	10.0	10.0	110	112	80-124	2	15	
Trichloroethene	11.2	11.5	10.0	10.0	112	115	80-122	3	18	
1,2-Dichloropropane	11.0	11.1	10.0	10.0	110	111	80-123	1	15	
Dibromomethane	11.1	11.5	10.0	10.0	111	115	80-123	4	15	
Bromodichloromethane	11.1	11.4	10.0	10.0	111	114	80-125	3	15	
(cis) 1,3-Dichloropropene	11.5	11.7	10.0	10.0	115	117	80-129	2	15	
(trans) 1,3-Dichloropropene	11.2	11.2	10.0	10.0	112	112	80-134	0	17	



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**VOLATILE ORGANICS EPA 8260D/SIM**  
**QUALITY CONTROL**  
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Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD		Limit	
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0208W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	10.4	10.5	10.0	10.0	104	105	77-126	1	20	
Tetrachloroethene	11.1	11.7	10.0	10.0	111	117	80-124	5	18	
1,3-Dichloropropane	10.7	10.9	10.0	10.0	107	109	80-120	2	15	
Dibromochloromethane	11.0	11.4	10.0	10.0	110	114	80-128	4	15	
1,2-Dibromoethane	11.2	11.6	10.0	10.0	112	116	80-127	4	15	
Chlorobenzene	10.8	11.2	10.0	10.0	108	112	80-120	4	17	
1,1,1,2-Tetrachloroethane	10.7	11.1	10.0	10.0	107	111	80-125	4	17	
Bromoform	10.9	11.1	10.0	10.0	109	111	80-130	2	15	
Bromobenzene	11.0	11.2	10.0	10.0	110	112	76-128	2	16	
1,1,2,2-Tetrachloroethane	10.8	11.1	10.0	10.0	108	111	74-130	3	15	
1,2,3-Trichloropropane	9.70	9.98	10.0	10.0	97	100	71-129	3	25	
2-Chlorotoluene	11.1	11.6	10.0	10.0	111	116	80-128	4	18	
4-Chlorotoluene	11.4	11.9	10.0	10.0	114	119	80-130	4	19	
1,3-Dichlorobenzene	11.2	11.6	10.0	10.0	112	116	80-126	4	17	
1,4-Dichlorobenzene	10.8	11.3	10.0	10.0	108	113	80-121	5	17	
1,2-Dichlorobenzene	10.8	11.3	10.0	10.0	108	113	79-125	5	15	
1,2-Dibromo-3-chloropropane	10.6	10.6	10.0	10.0	106	106	73-133	0	15	
1,2,4-Trichlorobenzene	11.0	11.7	10.0	10.0	110	117	80-139	6	18	
Hexachlorobutadiene	11.2	12.2	10.0	10.0	112	122	80-151	9	18	
1,2,3-Trichlorobenzene	11.1	11.7	10.0	10.0	111	117	75-146	5	28	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	100	75-127			
<i>Toluene-d8</i>					101	101	80-127			
<i>4-Bromofluorobenzene</i>					99	99	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
<b>Client ID:</b>	<b>HZ-MW-31:W</b>					
Laboratory ID:	02-060-01					
Total Organic Carbon	<b>6.0</b>	1.0	SM 5310B	2-10-23	2-10-23	
<b>Client ID:</b>	<b>MW-40:W</b>					
Laboratory ID:	02-060-02					
Total Organic Carbon	<b>2.1</b>	1.0	SM 5310B	2-10-23	2-10-23	
<b>Client ID:</b>	<b>MW-39:W</b>					
Laboratory ID:	02-060-03					
Total Organic Carbon	<b>4.8</b>	1.0	SM 5310B	2-10-23	2-10-23	
<b>Client ID:</b>	<b>MW-23:W</b>					
Laboratory ID:	02-060-04					
Total Organic Carbon	<b>1.9</b>	1.0	SM 5310B	2-10-23	2-10-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0209W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-10-23	2-10-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-050-01							
	ORIG	DUP						
Total Organic Carbon	<b>1.57</b>	<b>1.58</b>	NA	NA	NA	1	12	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-050-01							
	MS	MS		MS				
Total Organic Carbon	<b>11.0</b>	10.0	1.57	94	80-120	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0209W1							
	SB	SB		SB				
Total Organic Carbon	<b>9.55</b>	10.0	NA	96	80-118	NA	NA	



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**DISSOLVED IRON  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-31:W</b>					
Laboratory ID:	02-060-01					
Iron	<b>24000</b>	56	EPA 6010D		2-8-23	
<b>Client ID:</b>	<b>MW-40:W</b>					
Laboratory ID:	02-060-02					
Iron	<b>3600</b>	56	EPA 6010D		2-8-23	
<b>Client ID:</b>	<b>MW-39:W</b>					
Laboratory ID:	02-060-03					
Iron	<b>9000</b>	56	EPA 6010D		2-8-23	
<b>Client ID:</b>	<b>MW-23:W</b>					
Laboratory ID:	02-060-04					
Iron	<b>250</b>	56	EPA 6010D		2-8-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208D1					
Iron	ND	56	EPA 6010D		2-8-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-081-01							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	02-081-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	26200	26100	22200	22200	ND	118	117	75-125	0	20



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**CHLORIDE**  
**SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-31:W</b>					
Laboratory ID:	02-060-01					
Chloride	<b>8.3</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	
<b>Client ID:</b>	<b>MW-40:W</b>					
Laboratory ID:	02-060-02					
Chloride	<b>5.9</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	
<b>Client ID:</b>	<b>MW-39:W</b>					
Laboratory ID:	02-060-03					
Chloride	<b>7.8</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	
<b>Client ID:</b>	<b>MW-23:W</b>					
Laboratory ID:	02-060-04					
Chloride	<b>6.5</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	



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**CHLORIDE  
 SM 4500-CI E  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208W1					
Chloride	<b>ND</b>	2.0	SM 4500-CI E	2-8-23	2-8-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-022-01							
	ORIG	DUP						
Chloride	<b>15.1</b>	<b>14.5</b>	NA	NA	NA	4	11	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-022-01							
	MS	MS		MS				
Chloride	<b>65.3</b>	50.0	15.1	100	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0208W1							
	SB	SB		SB				
Chloride	<b>51.4</b>	50.0	NA	103	90-119	NA	NA	



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**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-31:W</b>					
Laboratory ID:	02-060-01					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-9-23	2-9-23	
<b>Client ID:</b>	<b>MW-40:W</b>					
Laboratory ID:	02-060-02					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-9-23	2-9-23	
<b>Client ID:</b>	<b>MW-39:W</b>					
Laboratory ID:	02-060-03					
Sulfate	<b>21</b>	10	ASTM D516-11	2-9-23	2-9-23	
<b>Client ID:</b>	<b>MW-23:W</b>					
Laboratory ID:	02-060-04					
Sulfate	<b>17</b>	5.0	ASTM D516-11	2-9-23	2-9-23	



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**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0209W1					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-9-23	2-9-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-060-02							
	ORIG	DUP						
Sulfate	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-060-02							
	MS	MS		MS				
Sulfate	<b>10.6</b>	10.0	ND	106	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB							
	SB	SB		SB				
Sulfate	<b>8.76</b>	10.0	NA	88	85-114	NA	NA	





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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-31:W</b>					
Laboratory ID:	02-060-01					
Ammonia	<b>0.30</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	
<b>Client ID:</b>	<b>MW-40:W</b>					
Laboratory ID:	02-060-02					
Ammonia	<b>0.23</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	
<b>Client ID:</b>	<b>MW-39:W</b>					
Laboratory ID:	02-060-03					
Ammonia	<b>0.44</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	
<b>Client ID:</b>	<b>MW-23:W</b>					
Laboratory ID:	02-060-04					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	



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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**  
**QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0214W1					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-081-01							
	ORIG	DUP						
Ammonia	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	15	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-081-01							
	MS	MS		MS				
Ammonia	<b>4.51</b>	5.00	ND	90	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0214W1							
	SB	SB		SB				
Ammonia	<b>4.51</b>	5.00	NA	90	88-110	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
<b>Client ID:</b>	<b>HZ-MW-31:W</b>					
Laboratory ID:	02-060-01					
Methane	<b>1400</b>	8.3	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>24</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>74</i>	<i>50-150</i>				
<b>Client ID:</b>	<b>MW-40:W</b>					
Laboratory ID:	02-060-02					
Methane	<b>800</b>	5.5	RSK 175	2-8-23	2-8-23	
Ethane	<b>0.38</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>38</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>80</i>	<i>50-150</i>				
<b>Client ID:</b>	<b>MW-39:W</b>					
Laboratory ID:	02-060-03					
Methane	<b>410</b>	2.8	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>71</i>	<i>50-150</i>				
<b>Client ID:</b>	<b>MW-23:W</b>					
Laboratory ID:	02-060-04					
Methane	<b>3400</b>	28	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	<i>83</i>	<i>50-150</i>				



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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
<b>Client ID:</b>						
Laboratory ID:	MB0208W1					
Methane	<b>ND</b>	0.55	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	87	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0208W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	<b>41.9</b>	<b>40.9</b>	44.2	44.2	95	93	75-125	2	25	
Ethane	<b>78.1</b>	<b>76.3</b>	83.2	83.2	94	92	75-125	2	25	
Ethene	<b>74.4</b>	<b>70.2</b>	77.7	77.7	96	90	75-125	6	25	
<i>Surrogate:</i>										
1-Butene					90	84	50-150			





### 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







14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

February 15, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2302-081

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 7, 2023.

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,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a horizontal line drawn through the bottom of the signature.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 15, 2023  
Samples Submitted: February 7, 2023  
Laboratory Reference: 2302-081  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 7, 2023 and received by the laboratory on February 7, 2023. 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: February 15, 2023  
 Samples Submitted: February 7, 2023  
 Laboratory Reference: 2302-081  
 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-33R:W</b>					
Laboratory ID:	02-081-01					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	0.033	0.020	EPA 8260D/SIM	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



Date of Report: February 15, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-33R:W</b>					
Laboratory ID:	02-081-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: February 15, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-29:W</b>					
<b>Laboratory ID:</b>	02-081-02					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	16	0.20	EPA 8260D	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	0.29	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	32	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



Date of Report: February 15, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-29:W</b>					
Laboratory ID:	02-081-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: February 15, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-34:W</b>					
<b>Laboratory ID:</b>	02-081-03					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	4.6	0.20	EPA 8260D	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	14	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	1.0	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-34:W</b>					
Laboratory ID:	02-081-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	0.35	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: February 15, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-24:W</b>					
<b>Laboratory ID:</b>	02-081-04					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	0.55	0.20	EPA 8260D	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	15	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	0.55	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	2.3	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-24:W</b>					
Laboratory ID:	02-081-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	2.7	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				





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**QUALITY CONTROL**  
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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0210W1					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0210W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0210W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	7.92	7.38	10.0	10.0	79	74	34-166	7	21	
Chloromethane	9.52	8.86	10.0	10.0	95	89	63-138	7	18	
Vinyl Chloride	9.64	9.04	10.0	10.0	96	90	71-135	6	20	
Bromomethane	7.81	8.20	10.0	10.0	78	82	20-151	5	36	
Chloroethane	9.47	8.85	10.0	10.0	95	89	76-125	7	20	
Trichlorofluoromethane	10.4	9.79	10.0	10.0	104	98	75-131	6	19	
1,1-Dichloroethene	11.1	10.4	10.0	10.0	111	104	78-125	7	19	
Iodomethane	6.69	8.01	10.0	10.0	67	80	10-155	18	40	
Methylene Chloride	11.0	10.2	10.0	10.0	110	102	80-120	8	15	
(trans) 1,2-Dichloroethene	11.2	10.4	10.0	10.0	112	104	80-125	7	17	
1,1-Dichloroethane	11.1	10.4	10.0	10.0	111	104	80-125	7	17	
2,2-Dichloropropane	12.3	11.8	10.0	10.0	123	118	80-146	4	21	
(cis) 1,2-Dichloroethene	11.5	11.0	10.0	10.0	115	110	80-129	4	17	
Bromochloromethane	11.5	11.0	10.0	10.0	115	110	80-125	4	18	
Chloroform	11.2	10.6	10.0	10.0	112	106	80-123	6	16	
1,1,1-Trichloroethane	11.0	10.4	10.0	10.0	110	104	80-123	6	18	
Carbon Tetrachloride	10.7	10.1	10.0	10.0	107	101	80-126	6	17	
1,1-Dichloropropene	10.8	10.2	10.0	10.0	108	102	80-126	6	18	
1,2-Dichloroethane	11.5	10.7	10.0	10.0	115	107	80-124	7	15	
Trichloroethene	11.4	10.9	10.0	10.0	114	109	80-122	4	18	
1,2-Dichloropropane	11.1	10.7	10.0	10.0	111	107	80-123	4	15	
Dibromomethane	11.5	10.7	10.0	10.0	115	107	80-123	7	15	
Bromodichloromethane	11.4	10.9	10.0	10.0	114	109	80-125	4	15	
(cis) 1,3-Dichloropropene	11.6	11.1	10.0	10.0	116	111	80-129	4	15	
(trans) 1,3-Dichloropropene	11.4	10.6	10.0	10.0	114	106	80-134	7	17	



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Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0210W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	10.5	10.0	10.0	10.0	105	100	77-126	5	20	
Tetrachloroethene	11.4	10.8	10.0	10.0	114	108	80-124	5	18	
1,3-Dichloropropane	10.9	10.2	10.0	10.0	109	102	80-120	7	15	
Dibromochloromethane	11.4	10.7	10.0	10.0	114	107	80-128	6	15	
1,2-Dibromoethane	11.3	10.9	10.0	10.0	113	109	80-127	4	15	
Chlorobenzene	10.9	10.4	10.0	10.0	109	104	80-120	5	17	
1,1,1,2-Tetrachloroethane	11.0	10.3	10.0	10.0	110	103	80-125	7	17	
Bromoform	11.1	10.6	10.0	10.0	111	106	80-130	5	15	
Bromobenzene	11.3	10.4	10.0	10.0	113	104	76-128	8	16	
1,1,2,2-Tetrachloroethane	11.2	10.3	10.0	10.0	112	103	74-130	8	15	
1,2,3-Trichloropropane	10.2	9.30	10.0	10.0	102	93	71-129	9	25	
2-Chlorotoluene	11.4	10.7	10.0	10.0	114	107	80-128	6	18	
4-Chlorotoluene	11.8	11.0	10.0	10.0	118	110	80-130	7	19	
1,3-Dichlorobenzene	11.4	10.7	10.0	10.0	114	107	80-126	6	17	
1,4-Dichlorobenzene	11.1	10.4	10.0	10.0	111	104	80-121	7	17	
1,2-Dichlorobenzene	11.1	10.6	10.0	10.0	111	106	79-125	5	15	
1,2-Dibromo-3-chloropropane	11.1	10.2	10.0	10.0	111	102	73-133	8	15	
1,2,4-Trichlorobenzene	11.6	10.8	10.0	10.0	116	108	80-139	7	18	
Hexachlorobutadiene	11.3	10.9	10.0	10.0	113	109	80-151	4	18	
1,2,3-Trichlorobenzene	11.4	11.1	10.0	10.0	114	111	75-146	3	28	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	98	75-127			
<i>Toluene-d8</i>					101	100	80-127			
<i>4-Bromofluorobenzene</i>					100	100	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
<b>Client ID:</b>	<b>HZ-MW-33R:W</b>					
Laboratory ID:	02-081-01					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-10-23	2-10-23	

<b>Client ID:</b>	<b>HZ-MW-29:W</b>					
Laboratory ID:	02-081-02					
Total Organic Carbon	<b>1.1</b>	1.0	SM 5310B	2-10-23	2-10-23	

<b>Client ID:</b>	<b>HZ-MW-34:W</b>					
Laboratory ID:	02-081-03					
Total Organic Carbon	<b>1.1</b>	1.0	SM 5310B	2-10-23	2-10-23	

<b>Client ID:</b>	<b>HZ-MW-24:W</b>					
Laboratory ID:	02-081-04					
Total Organic Carbon	<b>2.3</b>	1.0	SM 5310B	2-10-23	2-10-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0209W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-10-23	2-10-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-050-01							
	ORIG	DUP						
Total Organic Carbon	<b>1.57</b>	<b>1.58</b>	NA	NA	NA	1	12	

**MATRIX SPIKE**

Laboratory ID:	02-050-01							
	MS	MS		MS				
Total Organic Carbon	<b>11.0</b>	10.0	1.57	94	80-120	NA	NA	

**SPIKE BLANK**

Laboratory ID:	SB0209W1							
	SB	SB		SB				
Total Organic Carbon	<b>9.55</b>	10.0	NA	96	80-118	NA	NA	



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**DISSOLVED IRON  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-33R:W</b>					
Laboratory ID:	02-081-01					
Iron	<b>ND</b>	56	EPA 6010D		2-8-23	
<b>Client ID:</b>	<b>HZ-MW-29:W</b>					
Laboratory ID:	02-081-02					
Iron	<b>9700</b>	56	EPA 6010D		2-8-23	
<b>Client ID:</b>	<b>HZ-MW-34:W</b>					
Laboratory ID:	02-081-03					
Iron	<b>4000</b>	56	EPA 6010D		2-8-23	
<b>Client ID:</b>	<b>HZ-MW-24:W</b>					
Laboratory ID:	02-081-04					
Iron	<b>7600</b>	56	EPA 6010D		2-8-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208D1					
Iron	ND	56	EPA 6010D		2-8-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-081-01							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	02-081-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	26200	26100	22200	22200	ND	118	117	75-125	0	20





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**CHLORIDE**  
**SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-33R:W</b>					
Laboratory ID:	02-081-01					
Chloride	<b>4.7</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	

<b>Client ID:</b>	<b>HZ-MW-29:W</b>					
Laboratory ID:	02-081-02					
Chloride	<b>8.1</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	

<b>Client ID:</b>	<b>HZ-MW-34:W</b>					
Laboratory ID:	02-081-03					
Chloride	<b>11</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	

<b>Client ID:</b>	<b>HZ-MW-24:W</b>					
Laboratory ID:	02-081-04					
Chloride	<b>7.0</b>	2.0	SM 4500-Cl E	2-8-23	2-8-23	



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**CHLORIDE  
 SM 4500-CI E  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0208W2					
Chloride	<b>ND</b>	2.0	SM 4500-CI E	2-8-23	2-8-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-081-01							
	ORIG	DUP						
Chloride	<b>4.72</b>	<b>4.33</b>	NA	NA	NA	9	11	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-081-01							
	MS	MS		MS				
Chloride	<b>55.6</b>	50.0	4.72	102	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0208W2							
	SB	SB		SB				
Chloride	<b>53.3</b>	50.0	NA	107	90-119	NA	NA	



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**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-33R:W</b>					
Laboratory ID:	02-081-01					
Sulfate	<b>11</b>	5.0	ASTM D516-11	2-10-23	2-10-23	

<b>Client ID:</b>	<b>HZ-MW-29:W</b>					
Laboratory ID:	02-081-02					
Sulfate	<b>20</b>	5.0	ASTM D516-11	2-10-23	2-10-23	

<b>Client ID:</b>	<b>HZ-MW-34:W</b>					
Laboratory ID:	02-081-03					
Sulfate	<b>21</b>	5.0	ASTM D516-11	2-10-23	2-10-23	

<b>Client ID:</b>	<b>HZ-MW-24:W</b>					
Laboratory ID:	02-081-04					
Sulfate	<b>23</b>	10	ASTM D516-11	2-10-23	2-10-23	



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**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0210W1					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-10-23	2-10-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-100-02							
	ORIG	DUP						
Sulfate	<b>9.93</b>	<b>10.2</b>	NA	NA	NA	3	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-100-02							
	MS	MS		MS				
Sulfate	<b>19.9</b>	10.0	9.93	100	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0210W1							
	SB	SB		SB				
Sulfate	<b>9.27</b>	10.0	NA	93	85-114	NA	NA	



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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-33R:W</b>					
Laboratory ID:	02-081-01					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	

<b>Client ID:</b>	<b>HZ-MW-29:W</b>					
Laboratory ID:	02-081-02					
Ammonia	<b>0.37</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	

<b>Client ID:</b>	<b>HZ-MW-34:W</b>					
Laboratory ID:	02-081-03					
Ammonia	<b>0.15</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	

<b>Client ID:</b>	<b>HZ-MW-24:W</b>					
Laboratory ID:	02-081-04					
Ammonia	<b>0.47</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	



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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**  
**QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0214W1					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-081-01							
	ORIG	DUP						
Ammonia	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	15	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-081-01							
	MS	MS		MS				
Ammonia	<b>4.51</b>	5.00	ND	90	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0214W1							
	SB	SB		SB				
Ammonia	<b>4.51</b>	5.00	NA	90	88-110	NA	NA	



Date of Report: February 15, 2023  
 Samples Submitted: February 7, 2023  
 Laboratory Reference: 2302-081  
 Project: 82303-9.16

**DISSOLVED GASES  
RSK 175**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-33R:W</b>					
Laboratory ID:	02-081-01					
Methane	<b>230</b>	2.2	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	82	50-150				
<b>Client ID:</b>	<b>HZ-MW-29:W</b>					
Laboratory ID:	02-081-02					
Methane	<b>8200</b>	42	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	75	50-150				
<b>Client ID:</b>	<b>HZ-MW-34:W</b>					
Laboratory ID:	02-081-03					
Methane	<b>150</b>	1.1	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>0.34</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	79	50-150				
<b>Client ID:</b>	<b>HZ-MW-24:W</b>					
Laboratory ID:	02-081-04					
Methane	<b>460</b>	3.3	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>1-Butene</i>	89	50-150				



Date of Report: February 15, 2023  
 Samples Submitted: February 7, 2023  
 Laboratory Reference: 2302-081  
 Project: 82303-9.16

**DISSOLVED GASES  
 RSK 175  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>						
Laboratory ID:	MB0208W1					
Methane	<b>ND</b>	0.55	RSK 175	2-8-23	2-8-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-8-23	2-8-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-8-23	2-8-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	87	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0208W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	<b>41.9</b>	<b>40.9</b>	44.2	44.2	95	93	75-125	2	25	
Ethane	<b>78.1</b>	<b>76.3</b>	83.2	83.2	94	92	75-125	2	25	
Ethene	<b>74.4</b>	<b>70.2</b>	77.7	77.7	96	90	75-125	6	25	
<i>Surrogate:</i>										
1-Butene					90	84	50-150			







### 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

**Terraround Request**  
(in working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

Company: **Kane Environmental**  
Project Number: **82303-9.16**  
Project Name: **BSCSS**  
Project Manager: **Jeff Jensen**  
Sampled by: **Emmy Kane**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	H2-MW-33R:W	2/1/23	1000 GW	9	
2	H2-MW-29:W		1120 GW	9	
3	H2-MW-34:W		1300 GW	9	
4	H2-MW-24:W		1415 GW	9	

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/> )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Dissolved Iron	TOC	Chloride	Ammonia Sulfate	Moisture	RSK

Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received	Relinquished	Received

Comments/Special Instructions  
Field filtered dissolved iron  
RSK= methanol, ethane, ethene  
low detection limit (3-4 µg/l)  
low detection limit for VC  
Data Package: Standard  Level III  Level IV   
Chromatograms with final report  Electronic Data Deliverables (EDDs)



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

February 22, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2023-096

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 8, 2023.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 22, 2023  
Samples Submitted: February 8, 2023  
Laboratory Reference: 2302-096  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 8, 2023 and received by the laboratory on February 8, 2023. 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: February 22, 2023  
 Samples Submitted: February 8, 2023  
 Laboratory Reference: 2302-096  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-44R:W</b>					
Laboratory ID:	02-096-01					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	0.72	0.20	EPA 8260D	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



Date of Report: February 22, 2023  
 Samples Submitted: February 8, 2023  
 Laboratory Reference: 2302-096  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-44R:W</b>					
Laboratory ID:	02-096-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: February 22, 2023  
 Samples Submitted: February 8, 2023  
 Laboratory Reference: 2302-096  
 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-42:W</b>					
Laboratory ID:	02-096-02					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	0.72	0.20	EPA 8260D	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	1.3	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



Date of Report: February 22, 2023  
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 Laboratory Reference: 2302-096  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-42:W</b>					
Laboratory ID:	02-096-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				





Date of Report: February 22, 2023  
 Samples Submitted: February 8, 2023  
 Laboratory Reference: 2302-096  
 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-43R:W</b>					
Laboratory ID:	02-096-03					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	0.73	0.20	EPA 8260D	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	6.4	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	2.5	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-43R:W</b>					
Laboratory ID:	02-096-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	8.7	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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**QUALITY CONTROL**  
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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0210W1					
Dichlorodifluoromethane	ND	0.25	EPA 8260D	2-10-23	2-10-23	
Chloromethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-10-23	2-10-23	
Bromomethane	ND	1.3	EPA 8260D	2-10-23	2-10-23	
Chloroethane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Iodomethane	ND	7.5	EPA 8260D	2-10-23	2-10-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-10-23	2-10-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chloroform	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Trichloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromomethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-10-23	2-10-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0210W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Bromoform	ND	1.0	EPA 8260D	2-10-23	2-10-23	
Bromobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-10-23	2-10-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-10-23	2-10-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-10-23	2-10-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0210W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	7.92	7.38	10.0	10.0	79	74	34-166	7	21	
Chloromethane	9.52	8.86	10.0	10.0	95	89	63-138	7	18	
Vinyl Chloride	9.64	9.04	10.0	10.0	96	90	71-135	6	20	
Bromomethane	7.81	8.20	10.0	10.0	78	82	20-151	5	36	
Chloroethane	9.47	8.85	10.0	10.0	95	89	76-125	7	20	
Trichlorofluoromethane	10.4	9.79	10.0	10.0	104	98	75-131	6	19	
1,1-Dichloroethene	11.1	10.4	10.0	10.0	111	104	78-125	7	19	
Iodomethane	6.69	8.01	10.0	10.0	67	80	10-155	18	40	
Methylene Chloride	11.0	10.2	10.0	10.0	110	102	80-120	8	15	
(trans) 1,2-Dichloroethene	11.2	10.4	10.0	10.0	112	104	80-125	7	17	
1,1-Dichloroethane	11.1	10.4	10.0	10.0	111	104	80-125	7	17	
2,2-Dichloropropane	12.3	11.8	10.0	10.0	123	118	80-146	4	21	
(cis) 1,2-Dichloroethene	11.5	11.0	10.0	10.0	115	110	80-129	4	17	
Bromochloromethane	11.5	11.0	10.0	10.0	115	110	80-125	4	18	
Chloroform	11.2	10.6	10.0	10.0	112	106	80-123	6	16	
1,1,1-Trichloroethane	11.0	10.4	10.0	10.0	110	104	80-123	6	18	
Carbon Tetrachloride	10.7	10.1	10.0	10.0	107	101	80-126	6	17	
1,1-Dichloropropene	10.8	10.2	10.0	10.0	108	102	80-126	6	18	
1,2-Dichloroethane	11.5	10.7	10.0	10.0	115	107	80-124	7	15	
Trichloroethene	11.4	10.9	10.0	10.0	114	109	80-122	4	18	
1,2-Dichloropropane	11.1	10.7	10.0	10.0	111	107	80-123	4	15	
Dibromomethane	11.5	10.7	10.0	10.0	115	107	80-123	7	15	
Bromodichloromethane	11.4	10.9	10.0	10.0	114	109	80-125	4	15	
(cis) 1,3-Dichloropropene	11.6	11.1	10.0	10.0	116	111	80-129	4	15	
(trans) 1,3-Dichloropropene	11.4	10.6	10.0	10.0	114	106	80-134	7	17	



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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0210W1									
1,1,2-Trichloroethane	10.5	10.0	10.0	10.0	105	100	77-126	5	20	
Tetrachloroethene	11.4	10.8	10.0	10.0	114	108	80-124	5	18	
1,3-Dichloropropane	10.9	10.2	10.0	10.0	109	102	80-120	7	15	
Dibromochloromethane	11.4	10.7	10.0	10.0	114	107	80-128	6	15	
1,2-Dibromoethane	11.3	10.9	10.0	10.0	113	109	80-127	4	15	
Chlorobenzene	10.9	10.4	10.0	10.0	109	104	80-120	5	17	
1,1,1,2-Tetrachloroethane	11.0	10.3	10.0	10.0	110	103	80-125	7	17	
Bromoform	11.1	10.6	10.0	10.0	111	106	80-130	5	15	
Bromobenzene	11.3	10.4	10.0	10.0	113	104	76-128	8	16	
1,1,2,2-Tetrachloroethane	11.2	10.3	10.0	10.0	112	103	74-130	8	15	
1,2,3-Trichloropropane	10.2	9.30	10.0	10.0	102	93	71-129	9	25	
2-Chlorotoluene	11.4	10.7	10.0	10.0	114	107	80-128	6	18	
4-Chlorotoluene	11.8	11.0	10.0	10.0	118	110	80-130	7	19	
1,3-Dichlorobenzene	11.4	10.7	10.0	10.0	114	107	80-126	6	17	
1,4-Dichlorobenzene	11.1	10.4	10.0	10.0	111	104	80-121	7	17	
1,2-Dichlorobenzene	11.1	10.6	10.0	10.0	111	106	79-125	5	15	
1,2-Dibromo-3-chloropropane	11.1	10.2	10.0	10.0	111	102	73-133	8	15	
1,2,4-Trichlorobenzene	11.6	10.8	10.0	10.0	116	108	80-139	7	18	
Hexachlorobutadiene	11.3	10.9	10.0	10.0	113	109	80-151	4	18	
1,2,3-Trichlorobenzene	11.4	11.1	10.0	10.0	114	111	75-146	3	28	
<i>Surrogate:</i>										
Dibromofluoromethane					99	98	75-127			
Toluene-d8					101	100	80-127			
4-Bromofluorobenzene					100	100	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
<b>Client ID:</b>	<b>MW-44R:W</b>					
Laboratory ID:	02-096-01					
Total Organic Carbon	<b>4.5</b>	1.0	SM 5310B	2-10-23	2-10-23	
<b>Client ID:</b>	<b>MW-42:W</b>					
Laboratory ID:	02-096-02					
Total Organic Carbon	<b>2.7</b>	1.0	SM 5310B	2-10-23	2-10-23	
<b>Client ID:</b>	<b>MW-43R:W</b>					
Laboratory ID:	02-096-03					
Total Organic Carbon	<b>4.3</b>	1.0	SM 5310B	2-10-23	2-10-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0209W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-10-23	2-10-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-050-01							
	ORIG	DUP						
Total Organic Carbon	<b>1.57</b>	<b>1.58</b>	NA	NA	NA	1	12	

**MATRIX SPIKE**

Laboratory ID:	02-050-01							
	MS	MS		MS				
Total Organic Carbon	<b>11.0</b>		10.0	1.57	94	80-120	NA	NA

**SPIKE BLANK**

Laboratory ID:	SB0209W1							
	SB	SB		SB				
Total Organic Carbon	<b>9.55</b>		10.0	NA	96	80-118	NA	NA





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**DISSOLVED IRON  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-44R:W</b>					
Laboratory ID:	02-096-01					
Iron	<b>6200</b>	56	EPA 6010D		2-9-23	
<b>Client ID:</b>	<b>MW-42:W</b>					
Laboratory ID:	02-096-02					
Iron	<b>20000</b>	56	EPA 6010D		2-9-23	
<b>Client ID:</b>	<b>MW-43R:W</b>					
Laboratory ID:	02-096-03					
Iron	<b>330</b>	56	EPA 6010D		2-9-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0209D1					
Iron	ND	56	EPA 6010D		2-9-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-100-03							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	02-100-03									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22200	22200	22200	22200	ND	100	100	75-125	0	20



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**CHLORIDE**  
**SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-44R:W</b>					
Laboratory ID:	02-096-01					
Chloride	<b>8.3</b>	2.0	SM 4500-Cl E	2-13-32	2-13-23	
<b>Client ID:</b>	<b>MW-42:W</b>					
Laboratory ID:	02-096-02					
Chloride	<b>7.5</b>	2.0	SM 4500-Cl E	2-13-32	2-13-23	
<b>Client ID:</b>	<b>MW-43R:W</b>					
Laboratory ID:	02-096-03					
Chloride	<b>7.4</b>	2.0	SM 4500-Cl E	2-13-32	2-13-23	



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**CHLORIDE  
 SM 4500-CI E  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0213W1					
Chloride	<b>ND</b>	2.0	SM 4500-CI E	2-13-32	2-13-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-096-01							
	ORIG	DUP						
Chloride	<b>8.30</b>	<b>8.63</b>	NA	NA	NA	4	11	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-096-01							
	MS	MS		MS				
Chloride	<b>61.5</b>	50.0	8.30	106	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0213W1							
	SB	SB		SB				
Chloride	<b>49.5</b>	50.0	NA	99	90-119	NA	NA	



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**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-44R:W</b>					
Laboratory ID:	02-096-01					
Sulfate	<b>16</b>	5.0	ASTM D516-11	2-10-23	2-10-23	
<b>Client ID:</b>	<b>MW-42:W</b>					
Laboratory ID:	02-096-02					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-10-23	2-10-23	
<b>Client ID:</b>	<b>MW-43R:W</b>					
Laboratory ID:	02-096-03					
Sulfate	<b>51</b>	20	ASTM D516-11	2-10-23	2-10-23	



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**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0210W1					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-10-23	2-10-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-100-02							
	ORIG	DUP						
Sulfate	<b>9.93</b>	<b>10.2</b>	NA	NA	NA	3	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-100-02							
	MS	MS		MS				
Sulfate	<b>19.9</b>	10.0	9.93	100	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0210W1							
	SB	SB		SB				
Sulfate	<b>9.27</b>	10.0	NA	93	85-114	NA	NA	



Date of Report: February 22, 2023  
 Samples Submitted: February 8, 2023  
 Laboratory Reference: 2302-096  
 Project: 82303-9.16

**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-44R:W</b>					
Laboratory ID:	02-096-01					
Ammonia	<b>4.2</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	
<b>Client ID:</b>	<b>MW-42:W</b>					
Laboratory ID:	02-096-02					
Ammonia	<b>6.9</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	
<b>Client ID:</b>	<b>MW-43R:W</b>					
Laboratory ID:	02-096-03					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	



Date of Report: February 22, 2023  
 Samples Submitted: February 8, 2023  
 Laboratory Reference: 2302-096  
 Project: 82303-9.16

**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**  
**QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0214W1					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-081-01							
	ORIG	DUP						
Ammonia	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	15	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-081-01							
	MS	MS		MS				
Ammonia	<b>4.51</b>	5.00	ND	90	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0214W1							
	SB	SB		SB				
Ammonia	<b>4.51</b>	5.00	NA	90	88-110	NA	NA	





Date of Report: February 22, 2023  
 Samples Submitted: February 8, 2023  
 Laboratory Reference: 2302-096  
 Project: 82303-9.16

**DISSOLVED GASES  
RSK 175**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-44R:W</b>					
Laboratory ID:	02-096-01					
Methane	<b>1200</b>	11	RSK 175	2-15-23	2-15-23	
Ethane	<b>0.23</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>0.46</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	71	50-150				

<b>Client ID:</b>	<b>MW-42:W</b>					
Laboratory ID:	02-096-02					
Methane	<b>4200</b>	28	RSK 175	2-15-23	2-15-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	74	50-150				

<b>Client ID:</b>	<b>MW-43R:W</b>					
Laboratory ID:	02-096-03					
Methane	<b>1500</b>	11	RSK 175	2-15-23	2-15-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	75	50-150				



Date of Report: February 22, 2023  
 Samples Submitted: February 8, 2023  
 Laboratory Reference: 2302-096  
 Project: 82303-9.16

**DISSOLVED GASES  
 RSK 175  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>						
Laboratory ID:	MB0215W1					
Methane	<b>ND</b>	0.55	RSK 175	2-15-23	2-15-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	81	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0215W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	<b>40.5</b>	<b>40.6</b>	44.2	44.2	92	92	75-125	0	25	
Ethane	<b>74.0</b>	<b>75.2</b>	83.2	83.2	89	90	75-125	2	25	
Ethene	<b>66.9</b>	<b>69.0</b>	77.7	77.7	86	89	75-125	3	25	
<i>Surrogate:</i>										
1-Butene					80	85	50-150			





### 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







14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

February 27, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2302-154

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 10, 2023.

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,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a horizontal line drawn through the bottom of the signature.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 27, 2023  
Samples Submitted: February 10, 2023  
Laboratory Reference: 2302-154  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 10, 2023 and received by the laboratory on February 10, 2023. 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: February 27, 2023  
 Samples Submitted: February 10, 2023  
 Laboratory Reference: 2302-154  
 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-29:W</b>					
Laboratory ID:	02-154-01					
Dichlorodifluoromethane	ND	0.26	EPA 8260D	2-13-23	2-13-23	
Chloromethane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-13-23	2-13-23	
Bromomethane	ND	1.8	EPA 8260D	2-13-23	2-13-23	
Chloroethane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Iodomethane	ND	12	EPA 8260D	2-13-23	2-13-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-13-23	2-13-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Chloroform	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Trichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Dibromomethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	



Date of Report: February 27, 2023  
 Samples Submitted: February 10, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-29:W</b>					
Laboratory ID:	02-154-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromoform	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Bromobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				





Date of Report: February 27, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>S-MW-3RR:W</b>					
<b>Laboratory ID:</b>	02-154-02					
Dichlorodifluoromethane	ND	0.52	EPA 8260D	2-13-23	2-13-23	
Chloromethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Vinyl Chloride	ND	0.040	EPA 8260D/SIM	2-13-23	2-13-23	
Bromomethane	ND	3.6	EPA 8260D	2-13-23	2-13-23	
Chloroethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Trichlorofluoromethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Iodomethane	ND	24	EPA 8260D	2-13-23	2-13-23	
Methylene Chloride	ND	2.0	EPA 8260D	2-13-23	2-13-23	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
2,2-Dichloropropane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
(cis) 1,2-Dichloroethene	2.4	0.40	EPA 8260D	2-13-23	2-13-23	
Bromochloromethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Chloroform	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Carbon Tetrachloride	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloropropene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloroethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Trichloroethene	0.94	0.40	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloropropane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Dibromomethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Bromodichloromethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	2-13-23	2-13-23	



Date of Report: February 27, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>S-MW-3RR:W</b>					
Laboratory ID:	02-154-02					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Tetrachloroethene	76	0.40	EPA 8260D	2-13-23	2-13-23	
1,3-Dichloropropane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Dibromochloromethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromoethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Chlorobenzene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Bromoform	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Bromobenzene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	2-13-23	2-13-23	
2-Chlorotoluene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
4-Chlorotoluene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
Hexachlorobutadiene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	2-13-23	2-13-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: February 27, 2023  
 Samples Submitted: February 10, 2023  
 Laboratory Reference: 2302-154  
 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>S-MW-2RR:W</b>					
<b>Laboratory ID:</b>	02-154-03					
Dichlorodifluoromethane	ND	0.26	EPA 8260D	2-13-23	2-13-23	
Chloromethane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Vinyl Chloride	0.084	0.020	EPA 8260D/SIM	2-13-23	2-13-23	
Bromomethane	ND	1.8	EPA 8260D	2-13-23	2-13-23	
Chloroethane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Iodomethane	ND	12	EPA 8260D	2-13-23	2-13-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-13-23	2-13-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Chloroform	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Trichloroethene	0.39	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Dibromomethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>S-MW-2RR:W</b>					
Laboratory ID:	02-154-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromoform	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Bromobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>S-MW-5R:W</b>					
Laboratory ID:	02-154-04					
Dichlorodifluoromethane	ND	2.6	EPA 8260D	2-13-23	2-13-23	
Chloromethane	ND	10	EPA 8260D	2-13-23	2-13-23	
Vinyl Chloride	0.70	0.20	EPA 8260D/SIM	2-13-23	2-13-23	
Bromomethane	ND	18	EPA 8260D	2-13-23	2-13-23	
Chloroethane	ND	10	EPA 8260D	2-13-23	2-13-23	
Trichlorofluoromethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Iodomethane	ND	120	EPA 8260D	2-13-23	2-13-23	
Methylene Chloride	ND	10	EPA 8260D	2-13-23	2-13-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
2,2-Dichloropropane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
(cis) 1,2-Dichloroethene	14	2.0	EPA 8260D	2-13-23	2-13-23	
Bromochloromethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Chloroform	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Carbon Tetrachloride	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloropropene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloroethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Trichloroethene	6.8	2.0	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloropropane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Dibromomethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Bromodichloromethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	2-13-23	2-13-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>S-MW-5R:W</b>					
Laboratory ID:	02-154-04					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Tetrachloroethene	270	2.0	EPA 8260D	2-13-23	2-13-23	
1,3-Dichloropropane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Dibromochloromethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromoethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Chlorobenzene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Bromoform	ND	10	EPA 8260D	2-13-23	2-13-23	
Bromobenzene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	2-13-23	2-13-23	
2-Chlorotoluene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
4-Chlorotoluene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	2-13-23	2-13-23	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
Hexachlorobutadiene	ND	10	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	2-13-23	2-13-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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**QUALITY CONTROL**  
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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0213W1					
Dichlorodifluoromethane	ND	0.26	EPA 8260D	2-13-23	2-13-23	
Chloromethane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-13-23	2-13-23	
Bromomethane	ND	1.8	EPA 8260D	2-13-23	2-13-23	
Chloroethane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Iodomethane	ND	12	EPA 8260D	2-13-23	2-13-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-13-23	2-13-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Chloroform	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Trichloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Dibromomethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-13-23	2-13-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0213W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Bromoform	ND	1.0	EPA 8260D	2-13-23	2-13-23	
Bromobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-13-23	2-13-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-13-23	2-13-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-13-23	2-13-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-13-23	2-13-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				





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

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0213W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	7.55	7.04	10.0	10.0	76	70	34-166	7	21	
Chloromethane	8.73	8.81	10.0	10.0	87	88	63-138	1	18	
Vinyl Chloride	9.05	9.00	10.0	10.0	91	90	71-135	1	20	
Bromomethane	5.51	6.36	10.0	10.0	55	64	20-151	14	36	
Chloroethane	9.10	9.02	10.0	10.0	91	90	76-125	1	20	
Trichlorofluoromethane	10.1	10.1	10.0	10.0	101	101	75-131	0	19	
1,1-Dichloroethene	10.7	10.8	10.0	10.0	107	108	78-125	1	19	
Iodomethane	4.24	6.32	10.0	10.0	42	63	10-155	39	40	
Methylene Chloride	10.8	10.7	10.0	10.0	108	107	80-120	1	15	
(trans) 1,2-Dichloroethene	10.9	10.9	10.0	10.0	109	109	80-125	0	17	
1,1-Dichloroethane	10.8	10.9	10.0	10.0	108	109	80-125	1	17	
2,2-Dichloropropane	12.2	12.3	10.0	10.0	122	123	80-146	1	21	
(cis) 1,2-Dichloroethene	11.4	11.5	10.0	10.0	114	115	80-129	1	17	
Bromochloromethane	11.3	11.2	10.0	10.0	113	112	80-125	1	18	
Chloroform	11.0	11.0	10.0	10.0	110	110	80-123	0	16	
1,1,1-Trichloroethane	10.7	10.7	10.0	10.0	107	107	80-123	0	18	
Carbon Tetrachloride	10.4	10.5	10.0	10.0	104	105	80-126	1	17	
1,1-Dichloropropene	10.6	10.6	10.0	10.0	106	106	80-126	0	18	
1,2-Dichloroethane	11.2	11.3	10.0	10.0	112	113	80-124	1	15	
Trichloroethene	10.9	10.9	10.0	10.0	109	109	80-122	0	18	
1,2-Dichloropropane	10.8	10.7	10.0	10.0	108	107	80-123	1	15	
Dibromomethane	11.0	10.8	10.0	10.0	110	108	80-123	2	15	
Bromodichloromethane	11.2	11.0	10.0	10.0	112	110	80-125	2	15	
(cis) 1,3-Dichloropropene	11.3	11.2	10.0	10.0	113	112	80-129	1	15	
(trans) 1,3-Dichloropropene	11.3	11.1	10.0	10.0	113	111	80-134	2	17	



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Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0213W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	10.4	10.3	10.0	10.0	104	103	77-126	1	20	
Tetrachloroethene	11.1	11.0	10.0	10.0	111	110	80-124	1	18	
1,3-Dichloropropane	10.9	10.5	10.0	10.0	109	105	80-120	4	15	
Dibromochloromethane	11.0	10.9	10.0	10.0	110	109	80-128	1	15	
1,2-Dibromoethane	11.1	11.0	10.0	10.0	111	110	80-127	1	15	
Chlorobenzene	10.6	10.7	10.0	10.0	106	107	80-120	1	17	
1,1,1,2-Tetrachloroethane	10.6	10.6	10.0	10.0	106	106	80-125	0	17	
Bromoform	10.8	10.7	10.0	10.0	108	107	80-130	1	15	
Bromobenzene	10.6	10.6	10.0	10.0	106	106	76-128	0	16	
1,1,2,2-Tetrachloroethane	10.8	10.7	10.0	10.0	108	107	74-130	1	15	
1,2,3-Trichloropropane	9.58	9.96	10.0	10.0	96	100	71-129	4	25	
2-Chlorotoluene	10.6	11.0	10.0	10.0	106	110	80-128	4	18	
4-Chlorotoluene	11.1	11.5	10.0	10.0	111	115	80-130	4	19	
1,3-Dichlorobenzene	10.9	11.1	10.0	10.0	109	111	80-126	2	17	
1,4-Dichlorobenzene	10.6	10.7	10.0	10.0	106	107	80-121	1	17	
1,2-Dichlorobenzene	10.7	10.8	10.0	10.0	107	108	79-125	1	15	
1,2-Dibromo-3-chloropropane	11.1	10.4	10.0	10.0	111	104	73-133	7	15	
1,2,4-Trichlorobenzene	10.9	11.2	10.0	10.0	109	112	80-139	3	18	
Hexachlorobutadiene	11.0	11.3	10.0	10.0	110	113	80-151	3	18	
1,2,3-Trichlorobenzene	10.8	11.6	10.0	10.0	108	116	75-146	7	28	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					100	99	75-127			
<i>Toluene-d8</i>					100	100	80-127			
<i>4-Bromofluorobenzene</i>					99	100	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
<b>Client ID:</b>	<b>MW-29:W</b>					
Laboratory ID:	02-154-01					
Total Organic Carbon	<b>1.8</b>	1.0	SM 5310B	2-24-23	2-24-23	

<b>Client ID:</b>	<b>S-MW-3RR:W</b>					
Laboratory ID:	02-154-02					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-24-23	2-24-23	

<b>Client ID:</b>	<b>S-MW-2RR:W</b>					
Laboratory ID:	02-154-03					
Total Organic Carbon	<b>24</b>	1.0	SM 5310B	2-24-23	2-24-23	

<b>Client ID:</b>	<b>S-MW-5R:W</b>					
Laboratory ID:	02-154-04					
Total Organic Carbon	<b>1.2</b>	1.0	SM 5310B	2-24-23	2-24-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0224W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-24-23	2-24-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-174-08							
	ORIG	DUP						
Total Organic Carbon	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	12	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-174-08							
	MS	MS		MS				
Total Organic Carbon	<b>9.65</b>	10.0	ND	97	80-120	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0224W1							
	SB	SB		SB				
Total Organic Carbon	<b>10.4</b>	10.0	NA	104	80-118	NA	NA	



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**DISSOLVED IRON  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-29:W</b>					
Laboratory ID:	02-154-01					
Iron	<b>1300</b>	56	EPA 6010D		2-15-23	
<b>Client ID:</b>	<b>S-MW-3RR:W</b>					
Laboratory ID:	02-154-02					
Iron	<b>120</b>	56	EPA 6010D		2-15-23	
<b>Client ID:</b>	<b>S-MW-2RR:W</b>					
Laboratory ID:	02-154-03					
Iron	<b>1200</b>	56	EPA 6010D		2-15-23	
<b>Client ID:</b>	<b>S-MW-5R:W</b>					
Laboratory ID:	02-154-04					
Iron	<b>ND</b>	56	EPA 6010D		2-15-23	



Date of Report: February 27, 2023  
 Samples Submitted: February 10, 2023  
 Laboratory Reference: 2302-154  
 Project: 82303-9.16

**DISSOLVED IRON  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0215D1					
Iron	ND	56	EPA 6010D		2-15-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-154-01							
	ORIG	DUP						
Iron	1320	1330	NA	NA	NA	NA	1	20

**MATRIX SPIKES**

Laboratory ID:	02-154-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	23800	23600	22200	22200	1320	101	100	75-125	1	20



Date of Report: February 27, 2023  
 Samples Submitted: February 10, 2023  
 Laboratory Reference: 2302-154  
 Project: 82303-9.16

**CHLORIDE**  
**SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-29:W</b>					
Laboratory ID:	02-154-01					
Chloride	<b>4.8</b>	2.0	SM 4500-Cl E	2-13-32	2-13-23	
<b>Client ID:</b>	<b>S-MW-3RR:W</b>					
Laboratory ID:	02-154-02					
Chloride	<b>3.7</b>	2.0	SM 4500-Cl E	2-13-32	2-13-23	
<b>Client ID:</b>	<b>S-MW-2RR:W</b>					
Laboratory ID:	02-154-03					
Chloride	<b>5.4</b>	2.0	SM 4500-Cl E	2-13-32	2-13-23	
<b>Client ID:</b>	<b>S-MW-5R:W</b>					
Laboratory ID:	02-154-04					
Chloride	<b>4.5</b>	2.0	SM 4500-Cl E	2-13-32	2-13-23	



Date of Report: February 27, 2023  
 Samples Submitted: February 10, 2023  
 Laboratory Reference: 2302-154  
 Project: 82303-9.16

**CHLORIDE  
 SM 4500-Cl E  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0213W1					
Chloride	<b>ND</b>	2.0	SM 4500-Cl E	2-13-32	2-13-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-096-01							
	ORIG	DUP						
Chloride	<b>8.30</b>	<b>8.63</b>	NA	NA	NA	NA	4	11

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-096-01							
	MS	MS		MS				
Chloride	<b>61.5</b>	50.0	8.30	106	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0213W1							
	SB	SB		SB				
Chloride	<b>49.5</b>	50.0	NA	99	90-119	NA	NA	





Date of Report: February 27, 2023  
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 Project: 82303-9.16

**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-29:W</b>					
Laboratory ID:	02-154-01					
Ammonia	<b>0.21</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	
<b>Client ID:</b>	<b>S-MW-3RR:W</b>					
Laboratory ID:	02-154-02					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	
<b>Client ID:</b>	<b>S-MW-2RR:W</b>					
Laboratory ID:	02-154-03					
Ammonia	<b>4.7</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	
<b>Client ID:</b>	<b>S-MW-5R:W</b>					
Laboratory ID:	02-154-04					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	



Date of Report: February 27, 2023  
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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**  
**QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0214W1					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-14-23	2-14-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-081-01							
	ORIG	DUP						
Ammonia	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	15	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-081-01							
	MS	MS		MS				
Ammonia	<b>4.51</b>	5.00	ND	90	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0214W1							
	SB	SB		SB				
Ammonia	<b>4.51</b>	5.00	NA	90	88-110	NA	NA	



Date of Report: February 27, 2023  
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 Laboratory Reference: 2302-154  
 Project: 82303-9.16

**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-29:W</b>					
Laboratory ID:	02-154-01					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-13-23	2-13-23	

<b>Client ID:</b>	<b>S-MW-3RR:W</b>					
Laboratory ID:	02-154-02					
Sulfate	<b>18</b>	5.0	ASTM D516-11	2-13-23	2-13-23	

<b>Client ID:</b>	<b>S-MW-2RR:W</b>					
Laboratory ID:	02-154-03					
Sulfate	<b>76</b>	25	ASTM D516-11	2-13-23	2-13-23	

<b>Client ID:</b>	<b>S-MW-5R:W</b>					
Laboratory ID:	02-154-04					
Sulfate	<b>20</b>	5.0	ASTM D516-11	2-13-23	2-13-23	



Date of Report: February 27, 2023  
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**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0213W1					
Sulfate	ND	5.0	ASTM D516-11	2-13-23	2-13-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-154-01							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-154-01							
	MS	MS		MS				
Sulfate	10.4	10.0	ND	104	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0213W1							
	SB	SB		SB				
Sulfate	9.27	10.0	NA	93	85-114	NA	NA	



Date of Report: February 27, 2023  
 Samples Submitted: February 10, 2023  
 Laboratory Reference: 2302-154  
 Project: 82303-9.16

**DISSOLVED GASES**  
**RSK 175**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-29:W</b>					
Laboratory ID:	02-154-01					
Methane	<b>230</b>	2.2	RSK 175	2-15-23	2-15-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	73	50-150				

<b>Client ID:</b>	<b>S-MW-3RR:W</b>					
Laboratory ID:	02-154-02					
Methane	<b>11000</b>	55	RSK 175	2-15-23	2-15-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	79	50-150				

<b>Client ID:</b>	<b>S-MW-2RR:W</b>					
Laboratory ID:	02-154-03					
Methane	<b>400</b>	3.3	RSK 175	2-15-23	2-15-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	77	50-150				

<b>Client ID:</b>	<b>S-MW-5R:W</b>					
Laboratory ID:	02-154-04					
Methane	<b>1300</b>	11	RSK 175	2-15-23	2-15-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	71	50-150				



Date of Report: February 27, 2023  
 Samples Submitted: February 10, 2023  
 Laboratory Reference: 2302-154  
 Project: 82303-9.16

**DISSOLVED GASES  
 RSK 175  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>						
Laboratory ID:	MB0215W1					
Methane	<b>ND</b>	0.55	RSK 175	2-15-23	2-15-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-15-23	2-15-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-15-23	2-15-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	81	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0215W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	<b>40.5</b>	<b>40.6</b>	44.2	44.2	92	92	75-125	0	25	
Ethane	<b>74.0</b>	<b>75.2</b>	83.2	83.2	89	90	75-125	2	25	
Ethene	<b>66.9</b>	<b>69.0</b>	77.7	77.7	86	89	75-125	3	25	
<i>Surrogate:</i>										
1-Butene					80	85	50-150			





### 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





**MVA 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

Turnaround Request  
 (in working days)  
 (Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

(other) \_\_\_\_\_

Laboratory Number: **02-154**

Company: **KANE Environmental**  
 Project Number: **8303-9.1b**  
 Project Name: **BSCSS**  
 Project Manager: **Jeff Jensen**  
 Sampled by: **EMMY KANE**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	NW-29:W	2/10/23	1220	GW	9
2	S-NW-3RP:W		1410		9
3	S-NW-2RP:W		1158		9
4	S-NW-5R:W		1427	NW 21427	9

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/> )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1004	Dissolved Iron	TOC	chloride	Ammonia	Sulfate	% Moisture	RSK
9						X												X	X	X	X	X	X	X
9						X												X	X	X	X	X	X	X
9						X												X	X	X	X	X	X	X
9						X												X	X	X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
	KANE ENV.	2/10/23	1459	Field filtered dissolved iron
	KANE ENV.	2/10/23	1505	PSK= methane, ethane, ethene
	KANE ENV.	2/10/23	1343	low detection unit (3-4 µg/L)
		2/10/23	1343	low detection unit for VC
				Data Package: Standard <input checked="" type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

February 27, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2302-194

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 15, 2023.

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,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a horizontal line drawn through the bottom of the signature.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 27, 2023  
Samples Submitted: February 15, 2023  
Laboratory Reference: 2302-194  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 15, 2023 and received by the laboratory on February 15, 2023. 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: February 27, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-194  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-15S:W</b>					
<b>Laboratory ID:</b>	02-194-01					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	2-16-23	2-16-23	
Chloromethane	ND	1.0	EPA 8260D	2-16-23	2-16-23	
Vinyl Chloride	2.9	0.20	EPA 8260D	2-16-23	2-16-23	
Bromomethane	ND	1.5	EPA 8260D	2-16-23	2-16-23	
Chloroethane	ND	1.0	EPA 8260D	2-16-23	2-16-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Iodomethane	ND	9.8	EPA 8260D	2-16-23	2-16-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-16-23	2-16-23	
(trans) 1,2-Dichloroethene	0.63	0.20	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
(cis) 1,2-Dichloroethene	27	0.20	EPA 8260D	2-16-23	2-16-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Chloroform	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Trichloroethene	0.84	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Dibromomethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-16-23	2-16-23	



Date of Report: February 27, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-194  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-15S:W</b>					
Laboratory ID:	02-194-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Tetrachloroethene	1.8	0.20	EPA 8260D	2-16-23	2-16-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Bromoform	ND	1.0	EPA 8260D	2-16-23	2-16-23	
Bromobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-16-23	2-16-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-16-23	2-16-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-1:W</b>					
<b>Laboratory ID:</b>	02-194-02					
Dichlorodifluoromethane	ND	0.60	EPA 8260D	2-16-23	2-16-23	
Chloromethane	ND	2.0	EPA 8260D	2-16-23	2-16-23	
Vinyl Chloride	19	0.40	EPA 8260D	2-16-23	2-16-23	
Bromomethane	ND	3.0	EPA 8260D	2-16-23	2-16-23	
Chloroethane	3.2	2.0	EPA 8260D	2-16-23	2-16-23	
Trichlorofluoromethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloroethene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Iodomethane	ND	20	EPA 8260D	2-16-23	2-16-23	
Methylene Chloride	ND	2.0	EPA 8260D	2-16-23	2-16-23	
(trans) 1,2-Dichloroethene	0.52	0.40	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloroethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
2,2-Dichloropropane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
(cis) 1,2-Dichloroethene	67	0.40	EPA 8260D	2-16-23	2-16-23	
Bromochloromethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Chloroform	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,1,1-Trichloroethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Carbon Tetrachloride	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloropropene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,2-Dichloroethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Trichloroethene	3.3	0.40	EPA 8260D	2-16-23	2-16-23	
1,2-Dichloropropane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Dibromomethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Bromodichloromethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260D	2-16-23	2-16-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-1:W</b>					
<b>Laboratory ID:</b>	<b>02-194-02</b>					
1,1,2-Trichloroethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Tetrachloroethene	3.7	0.40	EPA 8260D	2-16-23	2-16-23	
1,3-Dichloropropane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Dibromochloromethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,2-Dibromoethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Chlorobenzene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Bromoform	ND	2.0	EPA 8260D	2-16-23	2-16-23	
Bromobenzene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,2,3-Trichloropropane	ND	0.40	EPA 8260D	2-16-23	2-16-23	
2-Chlorotoluene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
4-Chlorotoluene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,3-Dichlorobenzene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,4-Dichlorobenzene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,2-Dichlorobenzene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260D	2-16-23	2-16-23	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
Hexachlorobutadiene	ND	2.0	EPA 8260D	2-16-23	2-16-23	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260D	2-16-23	2-16-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0216W1					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	2-16-23	2-16-23	
Chloromethane	ND	1.0	EPA 8260D	2-16-23	2-16-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-16-23	2-16-23	
Bromomethane	ND	1.5	EPA 8260D	2-16-23	2-16-23	
Chloroethane	ND	1.0	EPA 8260D	2-16-23	2-16-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Iodomethane	ND	9.8	EPA 8260D	2-16-23	2-16-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-16-23	2-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Chloroform	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Trichloroethene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Dibromomethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-16-23	2-16-23	



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**VOLATILE ORGANICS EPA 8260D/SIM  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0216W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Bromoform	ND	1.0	EPA 8260D	2-16-23	2-16-23	
Bromobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-16-23	2-16-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-16-23	2-16-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-16-23	2-16-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	2-16-23	2-16-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				





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

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD		
<b>MATRIX SPIKES</b>										
Laboratory ID:	02-174-08									
	MS	MSD	MS	MSD		MS	MSD			
Dichlorodifluoromethane	6.31	5.79	10.0	10.0	ND	63	58	30-140	9	26
Chloromethane	8.37	7.76	10.0	10.0	ND	84	78	60-140	8	20
Vinyl Chloride	8.83	8.10	10.0	10.0	ND	88	81	70-130	9	20
Bromomethane	6.73	6.86	10.0	10.0	ND	67	69	10-160	2	20
Chloroethane	8.90	8.27	10.0	10.0	ND	89	83	70-130	7	20
Trichlorofluoromethane	9.80	9.45	10.0	10.0	ND	98	95	70-130	4	20
1,1-Dichloroethene	10.5	9.87	10.0	10.0	ND	105	99	76-124	6	15
Iodomethane	6.37	5.95	10.0	10.0	ND	64	60	10-155	7	50
Methylene Chloride	10.6	10.1	10.0	10.0	ND	106	101	70-130	5	20
(trans) 1,2-Dichloroethene	10.6	9.94	10.0	10.0	ND	106	99	70-130	6	20
1,1-Dichloroethane	10.7	10.0	10.0	10.0	ND	107	100	70-130	7	20
2,2-Dichloropropane	12.0	11.2	10.0	10.0	ND	120	112	70-140	7	20
(cis) 1,2-Dichloroethene	11.5	10.7	10.0	10.0	ND	115	107	70-130	7	20
Bromochloromethane	11.4	10.4	10.0	10.0	ND	114	104	70-130	9	20
Chloroform	11.1	10.3	10.0	10.0	ND	111	103	70-130	7	20
1,1,1-Trichloroethane	10.6	9.93	10.0	10.0	ND	106	99	70-130	7	20
Carbon Tetrachloride	10.2	9.57	10.0	10.0	ND	102	96	70-130	6	20
1,1-Dichloropropene	10.5	9.75	10.0	10.0	ND	105	98	70-130	7	20
1,2-Dichloroethane	11.3	10.6	10.0	10.0	ND	113	106	70-130	6	20
Trichloroethene	13.3	12.5	10.0	10.0	2.49	108	100	79-129	6	17
1,2-Dichloropropane	10.9	10.1	10.0	10.0	ND	109	101	70-130	8	20
Dibromomethane	10.8	10.0	10.0	10.0	ND	108	100	70-130	8	20
Bromodichloromethane	11.1	10.2	10.0	10.0	ND	111	102	70-130	8	20
(cis) 1,3-Dichloropropene	11.2	10.3	10.0	10.0	ND	112	103	70-130	8	20
(trans) 1,3-Dichloropropene	10.8	10.0	10.0	10.0	ND	108	100	70-130	8	20



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**VOLATILE ORGANICS EPA 8260D/SIM**  
**QUALITY CONTROL**  
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Analyte	Result		Spike Level		Source	Percent Recovery		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	MS	MSD	Limits	RPD	Limit	
<b>MATRIX SPIKES</b>											
Laboratory ID:	02-174-08										
1,1,2-Trichloroethane	10.2	9.69	10.0	10.0	ND	102	97	70-130	5	21	
Tetrachloroethene	10.5	10.0	10.0	10.0	ND	105	100	70-130	5	20	
1,3-Dichloropropane	10.4	9.82	10.0	10.0	ND	104	98	70-130	6	20	
Dibromochloromethane	10.7	9.91	10.0	10.0	ND	107	99	70-130	8	20	
1,2-Dibromoethane	11.0	10.2	10.0	10.0	ND	110	102	70-130	8	20	
Chlorobenzene	10.6	9.67	10.0	10.0	ND	106	97	78-120	9	16	
1,1,1,2-Tetrachloroethane	10.6	9.58	10.0	10.0	ND	106	96	70-130	10	20	
Bromoform	10.5	9.76	10.0	10.0	ND	105	98	70-130	7	20	
Bromobenzene	10.4	9.63	10.0	10.0	ND	104	96	70-130	8	20	
1,1,2,2-Tetrachloroethane	10.6	9.68	10.0	10.0	ND	106	97	70-130	9	20	
1,2,3-Trichloropropane	9.49	8.79	10.0	10.0	ND	95	88	70-130	8	20	
2-Chlorotoluene	10.7	9.76	10.0	10.0	ND	107	98	70-140	9	20	
4-Chlorotoluene	11.2	10.2	10.0	10.0	ND	112	102	70-140	9	20	
1,3-Dichlorobenzene	10.6	9.88	10.0	10.0	ND	106	99	70-140	7	20	
1,4-Dichlorobenzene	10.3	9.57	10.0	10.0	ND	103	96	70-140	7	20	
1,2-Dichlorobenzene	10.4	9.58	10.0	10.0	ND	104	96	70-140	8	20	
1,2-Dibromo-3-chloropropane	9.81	9.58	10.0	10.0	ND	98	96	70-140	2	20	
1,2,4-Trichlorobenzene	10.2	9.96	10.0	10.0	ND	102	100	70-140	2	20	
Hexachlorobutadiene	10.7	9.99	10.0	10.0	ND	107	100	70-140	7	20	
1,2,3-Trichlorobenzene	10.4	10.2	10.0	10.0	ND	104	102	60-140	2	28	
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>						98	101	75-127			
<i>Toluene-d8</i>						101	101	80-127			
<i>4-Bromofluorobenzene</i>						102	104	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
<b>Client ID:</b>	<b>HZ-MW-15S:W</b>					
Laboratory ID:	02-194-01					
Total Organic Carbon	<b>3.3</b>	1.0	SM 5310B	2-24-23	2-24-23	

<b>Client ID:</b>	<b>HZ-MW-1:W</b>					
Laboratory ID:	02-194-02					
Total Organic Carbon	<b>3.3</b>	1.0	SM 5310B	2-24-23	2-24-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0224W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	2-24-23	2-24-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-174-08							
	ORIG	DUP						
Total Organic Carbon	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	12	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-174-08							
	MS	MS		MS				
Total Organic Carbon	<b>9.65</b>	10.0	ND	97	80-120	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0224W1							
	SB	SB		SB				
Total Organic Carbon	<b>10.4</b>	10.0	NA	104	80-118	NA	NA	



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**DISSOLVED IRON  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-15S:W</b>					
Laboratory ID:	02-194-01					
Iron	<b>6500</b>	56	EPA 6010D		2-16-23	
<b>Client ID:</b>	<b>HZ-MW-1:W</b>					
Laboratory ID:	02-194-02					
Iron	<b>13000</b>	56	EPA 6010D		2-16-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0216D1					
Iron	ND	56	EPA 6010D		2-16-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-190-02							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	NA	20

**MATRIX SPIKES**

Laboratory ID:	02-190-02									
	MS	MSD	MS	MSD		MS	MSD			
Iron	23200	22600	22200	22200	ND	105	102	75-125	3	20



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**CHLORIDE  
 SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-15S:W</b>					
Laboratory ID:	02-194-01					
Chloride	<b>6.9</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	
<b>Client ID:</b>	<b>HZ-MW-1:W</b>					
Laboratory ID:	02-194-02					
Chloride	<b>9.2</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0222W1					
Chloride	<b>ND</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-207-01							
	ORIG	DUP						
Chloride	<b>2.76</b>	<b>2.95</b>	NA	NA	NA	7	11	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-207-01							
	MS	MS		MS				
Chloride	<b>50.0</b>	50.0	2.76	94	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0222W1							
	SB	SB		SB				
Chloride	<b>47.2</b>	50.0	NA	94	90-119	NA	NA	





Date of Report: February 27, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-194  
 Project: 82303-9.16

**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-15S:W</b>					
Laboratory ID:	02-194-01					
Sulfate	<b>8.3</b>	5.0	ASTM D516-11	2-21-23	2-21-23	
<b>Client ID:</b>	<b>HZ-MW-1:W</b>					
Laboratory ID:	02-194-02					
Sulfate	<b>18</b>	5.0	ASTM D516-11	2-21-23	2-21-23	



Date of Report: February 27, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-194  
 Project: 82303-9.16

**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0221W1					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	2-21-23	2-21-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-174-08							
	ORIG	DUP						
Sulfate	<b>9.09</b>	<b>9.32</b>	NA	NA	NA	2	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-174-08							
	MS	MS		MS				
Sulfate	<b>18.8</b>	10.0	9.09	97	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0221W1							
	SB	SB		SB				
Sulfate	<b>9.77</b>	10.0	NA	98	85-114	NA	NA	



Date of Report: February 27, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-194  
 Project: 82303-9.16

**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-15S:W</b>					
Laboratory ID:	02-194-01					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-16-23	2-16-23	
<b>Client ID:</b>	<b>HZ-MW-1:W</b>					
Laboratory ID:	02-194-02					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-16-23	2-16-23	



Date of Report: February 27, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-194  
 Project: 82303-9.16

**AMMONIA (as Nitrogen)  
 SM 4500-NH<sub>3</sub> D  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0216W1					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-16-23	2-16-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-113-02							
	ORIG	DUP						
Ammonia	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	15	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-113-02							
	MS	MS		MS				
Ammonia	<b>5.45</b>	5.00	ND	109	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0216W1							
	SB	SB		SB				
Ammonia	<b>4.85</b>	5.00	NA	97	88-110	NA	NA	



Date of Report: February 27, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-194  
 Project: 82303-9.16

**DISSOLVED GASES  
 RSK 175**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-15S:W</b>					
Laboratory ID:	02-194-01					
Methane	<b>5700</b>	42	RSK 175	2-22-23	2-22-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-22-23	2-22-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	61	50-150				
<b>Client ID:</b>	<b>HZ-MW-1:W</b>					
Laboratory ID:	02-194-02					
Methane	<b>6200</b>	55	RSK 175	2-22-23	2-22-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-22-23	2-22-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	59	50-150				



Date of Report: February 27, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-194  
 Project: 82303-9.16

**DISSOLVED GASES  
 RSK 175  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>						
Laboratory ID:	MB0222W1					
Methane	ND	0.55	RSK 175	2-22-23	2-22-23	
Ethane	ND	0.22	RSK 175	2-22-23	2-22-23	
Ethene	ND	0.29	RSK 175	2-22-23	2-22-23	
Acetylene	ND	1.2	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	73	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	38.3	37.7	44.2	44.2	87	85	75-125	2	25	
Ethane	70.8	70.0	83.2	83.2	85	84	75-125	1	25	
Ethene	64.7	64.4	77.7	77.7	83	83	75-125	0	25	
<i>Surrogate:</i>										
1-Butene					75	75	50-150			





### 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

### Turnaround Request (in working days)

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

(other) \_\_\_\_\_

Laboratory Number: **02-194**

Company: **Kane Environmental**  
 Project Number: **82303-9.16**  
 Project Name: **RSCSS**  
 Project Manager: **Jeff Jensen**  
 Sampled by: **Emmy Kane**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	H2-MW-15S:W	2/5/23	1200	GW
2	H2-MW-1:W	↓	1400	GW

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )	
NWTPH-Gx	
NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/> )	
Volatiles 8260	
Halogenated Volatiles 8260	X
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270/SIM (with low-level PAHs)	
PAHs 8270/SIM (low-level)	
PCBs 8082	
Organochlorine Pesticides 8081	
Organophosphorus Pesticides 8270/SIM	
Chlorinated Acid Herbicides 8151	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1654	X
Dissolved Iron	X
TOC	X
Chloride	X
Ammonia	X
Sulfate	X
% Moisture	X
RSK	X

Signature	Company	Date	Time	Comments/Special Instructions
	Kane Env.	2/5/23	1500	Field filtered dissolved iron
	OSE	2/5/23	1500	PSK = methane, ethane, ethene Low detection limit (3-4 µg/L)
				Low detection limit for VC
				Data Package: Standard <input checked="" type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

March 16, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2302-240

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 21, 2023.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 16, 2023  
Samples Submitted: February 21, 2023  
Laboratory Reference: 2302-240  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 20, 2023 and received by the laboratory on February 21, 2023. 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.

#### Volatiles EPA 8260D Analysis

The RPD for Dichlorodifluoromethane is outside the control limits for the Spike Blank/Spike Blank Duplicate. The percent recoveries on both spike blanks are within recovery limits. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: March 16, 2023  
 Samples Submitted: February 21, 2023  
 Laboratory Reference: 2302-240  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
 page 1 of 2

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloromethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Vinyl Chloride	3.1	0.20	EPA 8260D	2-23-23	2-23-23	
Bromomethane	ND	1.5	EPA 8260D	2-23-23	2-23-23	
Chloroethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethene	0.42	0.20	EPA 8260D	2-23-23	2-23-23	
Iodomethane	ND	10	EPA 8260D	2-23-23	2-23-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-23-23	2-23-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,2-Dichloroethene	7.9	0.20	EPA 8260D	2-23-23	2-23-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloroform	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Trichloroethene	4.8	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromomethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	



Date of Report: March 16, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Tetrachloroethene	4.0	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromoform	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Bromobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: March 16, 2023  
 Samples Submitted: February 21, 2023  
 Laboratory Reference: 2302-240  
 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-11:W</b>					
<b>Laboratory ID:</b>	<b>02-240-02</b>					
Dichlorodifluoromethane	0.49	0.20	EPA 8260D	2-23-23	2-23-23	
Chloromethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Vinyl Chloride	34	0.20	EPA 8260D	2-23-23	2-23-23	
Bromomethane	ND	1.5	EPA 8260D	2-23-23	2-23-23	
Chloroethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Iodomethane	ND	10	EPA 8260D	2-23-23	2-23-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-23-23	2-23-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,2-Dichloroethene	5.0	0.20	EPA 8260D	2-23-23	2-23-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloroform	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Trichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromomethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	



Date of Report: March 16, 2023  
 Samples Submitted: February 21, 2023  
 Laboratory Reference: 2302-240  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-11:W</b>					
Laboratory ID:	02-240-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromoform	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Bromobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
Dichlorodifluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloromethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Vinyl Chloride	2.3	1.0	EPA 8260D/SIM	2-22-23	2-22-23	
Bromomethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Chloroethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Trichlorofluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
Iodomethane	ND	480	EPA 8260D	2-22-23	2-22-23	
Methylene Chloride	ND	50	EPA 8260D	2-22-23	2-22-23	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
2,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,2-Dichloroethene	140	10	EPA 8260D	2-22-23	2-22-23	
Bromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloroform	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Carbon Tetrachloride	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Trichloroethene	50	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromomethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromodichloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
1,1,2-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Tetrachloroethene	1700	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromoethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromoform	ND	50	EPA 8260D	2-22-23	2-22-23	
Bromobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
2-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
4-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,4-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
Hexachlorobutadiene	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichlorobenzene	ND	50	EPA 8260D	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				





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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
Dichlorodifluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloromethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Vinyl Chloride	52	10	EPA 8260D	2-22-23	2-22-23	
Bromomethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Chloroethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Trichlorofluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
Iodomethane	ND	480	EPA 8260D	2-22-23	2-22-23	
Methylene Chloride	ND	50	EPA 8260D	2-22-23	2-22-23	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
2,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,2-Dichloroethene	1200	10	EPA 8260D	2-22-23	2-22-23	
Bromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloroform	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Carbon Tetrachloride	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Trichloroethene	110	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromomethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromodichloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
1,1,2-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Tetrachloroethene	490	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromoethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromoform	ND	50	EPA 8260D	2-22-23	2-22-23	
Bromobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
2-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
4-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,4-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
Hexachlorobutadiene	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichlorobenzene	ND	50	EPA 8260D	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Chloromethane	ND	10	EPA 8260D	2-23-23	2-23-23	
Vinyl Chloride	18	2.0	EPA 8260D	2-23-23	2-23-23	
Bromomethane	ND	15	EPA 8260D	2-23-23	2-23-23	
Chloroethane	ND	10	EPA 8260D	2-23-23	2-23-23	
Trichlorofluoromethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Iodomethane	ND	100	EPA 8260D	2-23-23	2-23-23	
Methylene Chloride	ND	10	EPA 8260D	2-23-23	2-23-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
2,2-Dichloropropane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
(cis) 1,2-Dichloroethene	130	2.0	EPA 8260D	2-23-23	2-23-23	
Bromochloromethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Chloroform	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Carbon Tetrachloride	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloropropene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloroethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Trichloroethene	33	2.0	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloropropane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Dibromomethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Bromodichloromethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	2-23-23	2-23-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Tetrachloroethene	59	2.0	EPA 8260D	2-23-23	2-23-23	
1,3-Dichloropropane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Dibromochloromethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromoethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Chlorobenzene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Bromoform	ND	10	EPA 8260D	2-23-23	2-23-23	
Bromobenzene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	2-23-23	2-23-23	
2-Chlorotoluene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
4-Chlorotoluene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	2-23-23	2-23-23	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	2-23-23	2-23-23	
Hexachlorobutadiene	ND	10	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	2-23-23	2-23-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0222W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Chloromethane	ND	1.0	EPA 8260D	2-22-23	2-22-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-22-23	2-22-23	
Bromomethane	ND	1.0	EPA 8260D	2-22-23	2-22-23	
Chloroethane	ND	1.0	EPA 8260D	2-22-23	2-22-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Iodomethane	ND	9.5	EPA 8260D	2-22-23	2-22-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-22-23	2-22-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Chloroform	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Trichloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Dibromomethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-22-23	2-22-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0222W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Bromoform	ND	1.0	EPA 8260D	2-22-23	2-22-23	
Bromobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-22-23	2-22-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: March 16, 2023  
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 Laboratory Reference: 2302-240  
 Project: 82303-9.16

**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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0223W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloromethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-23-23	2-23-23	
Bromomethane	ND	1.5	EPA 8260D	2-23-23	2-23-23	
Chloroethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Iodomethane	ND	10	EPA 8260D	2-23-23	2-23-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-23-23	2-23-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloroform	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Trichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromomethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	



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**VOLATILE ORGANICS EPA 8260D/SIM  
 QUALITY CONTROL**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0223W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromoform	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Bromobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				





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

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	10.9	10.9	10.0	10.0	109	109	34-166	0	21	
Chloromethane	10.8	11.0	10.0	10.0	108	110	63-138	2	18	
Vinyl Chloride	11.0	11.7	10.0	10.0	110	117	71-135	6	20	
Bromomethane	8.52	9.08	10.0	10.0	85	91	20-151	6	36	
Chloroethane	10.5	11.1	10.0	10.0	105	111	76-125	6	20	
Trichlorofluoromethane	11.3	12.1	10.0	10.0	113	121	75-131	7	19	
1,1-Dichloroethene	10.7	11.2	10.0	10.0	107	112	78-125	5	19	
Iodomethane	5.26	5.87	10.0	10.0	53	59	10-155	11	40	
Methylene Chloride	10.7	11.0	10.0	10.0	107	110	80-120	3	15	
(trans) 1,2-Dichloroethene	10.3	11.1	10.0	10.0	103	111	80-125	7	17	
1,1-Dichloroethane	10.0	11.2	10.0	10.0	100	112	80-125	11	17	
2,2-Dichloropropane	11.1	12.3	10.0	10.0	111	123	80-146	10	21	
(cis) 1,2-Dichloroethene	10.5	11.6	10.0	10.0	105	116	80-129	10	17	
Bromochloromethane	10.4	11.0	10.0	10.0	104	110	80-125	6	18	
Chloroform	10.3	11.1	10.0	10.0	103	111	80-123	7	16	
1,1,1-Trichloroethane	10.1	10.9	10.0	10.0	101	109	80-123	8	18	
Carbon Tetrachloride	9.91	10.5	10.0	10.0	99	105	80-126	6	17	
1,1-Dichloropropene	10.0	10.7	10.0	10.0	100	107	80-126	7	18	
1,2-Dichloroethane	10.9	10.8	10.0	10.0	109	108	80-124	1	15	
Trichloroethene	9.74	10.4	10.0	10.0	97	104	80-122	7	18	
1,2-Dichloropropane	9.68	10.5	10.0	10.0	97	105	80-123	8	15	
Dibromomethane	9.50	10.1	10.0	10.0	95	101	80-123	6	15	
Bromodichloromethane	9.84	10.2	10.0	10.0	98	102	80-125	4	15	
(cis) 1,3-Dichloropropene	10.1	10.2	10.0	10.0	101	102	80-129	1	15	
(trans) 1,3-Dichloropropene	9.39	9.56	10.0	10.0	94	96	80-134	2	17	



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**VOLATILE ORGANICS EPA 8260D/SIM**  
**QUALITY CONTROL**  
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD	SB	SBD		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	8.78	9.02	10.0	10.0	88	90	77-126	3	20	
Tetrachloroethene	9.19	9.99	10.0	10.0	92	100	80-124	8	18	
1,3-Dichloropropane	8.99	9.15	10.0	10.0	90	92	80-120	2	15	
Dibromochloromethane	9.12	9.50	10.0	10.0	91	95	80-128	4	15	
1,2-Dibromoethane	9.55	9.53	10.0	10.0	96	95	80-127	0	15	
Chlorobenzene	9.05	9.45	10.0	10.0	91	95	80-120	4	17	
1,1,1,2-Tetrachloroethane	8.99	9.40	10.0	10.0	90	94	80-125	4	17	
Bromoform	8.75	9.11	10.0	10.0	88	91	80-130	4	15	
Bromobenzene	9.40	9.39	10.0	10.0	94	94	76-128	0	16	
1,1,2,2-Tetrachloroethane	9.57	9.10	10.0	10.0	96	91	74-130	5	15	
1,2,3-Trichloropropane	8.66	8.30	10.0	10.0	87	83	71-129	4	25	
2-Chlorotoluene	9.69	9.83	10.0	10.0	97	98	80-128	1	18	
4-Chlorotoluene	9.86	10.0	10.0	10.0	99	100	80-130	1	19	
1,3-Dichlorobenzene	9.14	9.54	10.0	10.0	91	95	80-126	4	17	
1,4-Dichlorobenzene	8.83	9.16	10.0	10.0	88	92	80-121	4	17	
1,2-Dichlorobenzene	8.89	9.21	10.0	10.0	89	92	79-125	4	15	
1,2-Dibromo-3-chloropropane	8.94	8.44	10.0	10.0	89	84	73-133	6	15	
1,2,4-Trichlorobenzene	8.78	9.00	10.0	10.0	88	90	80-139	2	18	
Hexachlorobutadiene	9.51	9.80	10.0	10.0	95	98	80-151	3	18	
1,2,3-Trichlorobenzene	8.62	8.77	10.0	10.0	86	88	75-146	2	28	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					107	108	75-127			
<i>Toluene-d8</i>					104	103	80-127			
<i>4-Bromofluorobenzene</i>					102	101	78-125			



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

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0223W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	10.1	8.17	10.0	10.0	101	82	34-166	21	21	L
Chloromethane	10.6	9.58	10.0	10.0	106	96	63-138	10	18	
Vinyl Chloride	11.0	9.55	10.0	10.0	110	96	71-135	14	20	
Bromomethane	6.52	6.71	10.0	10.0	65	67	20-151	3	36	
Chloroethane	10.5	9.19	10.0	10.0	105	92	76-125	13	20	
Trichlorofluoromethane	11.9	10.4	10.0	10.0	119	104	75-131	13	19	
1,1-Dichloroethene	11.1	9.72	10.0	10.0	111	97	78-125	13	19	
Iodomethane	4.91	5.83	10.0	10.0	49	58	10-155	17	40	
Methylene Chloride	11.7	10.3	10.0	10.0	117	103	80-120	13	15	
(trans) 1,2-Dichloroethene	11.1	9.85	10.0	10.0	111	99	80-125	12	17	
1,1-Dichloroethane	11.1	9.84	10.0	10.0	111	98	80-125	12	17	
2,2-Dichloropropane	12.0	11.0	10.0	10.0	120	110	80-146	9	21	
(cis) 1,2-Dichloroethene	11.6	10.5	10.0	10.0	116	105	80-129	10	17	
Bromochloromethane	11.4	10.1	10.0	10.0	114	101	80-125	12	18	
Chloroform	11.2	10.0	10.0	10.0	112	100	80-123	11	16	
1,1,1-Trichloroethane	10.9	9.69	10.0	10.0	109	97	80-123	12	18	
Carbon Tetrachloride	10.5	9.38	10.0	10.0	105	94	80-126	11	17	
1,1-Dichloropropene	10.6	9.36	10.0	10.0	106	94	80-126	12	18	
1,2-Dichloroethane	11.6	10.2	10.0	10.0	116	102	80-124	13	15	
Trichloroethene	10.9	9.56	10.0	10.0	109	96	80-122	13	18	
1,2-Dichloropropane	10.9	9.61	10.0	10.0	109	96	80-123	13	15	
Dibromomethane	11.0	9.66	10.0	10.0	110	97	80-123	13	15	
Bromodichloromethane	11.3	9.76	10.0	10.0	113	98	80-125	15	15	
(cis) 1,3-Dichloropropene	11.2	9.79	10.0	10.0	112	98	80-129	13	15	
(trans) 1,3-Dichloropropene	10.3	9.06	10.0	10.0	103	91	80-134	13	17	



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**VOLATILE ORGANICS EPA 8260D/SIM**  
**QUALITY CONTROL**  
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD	SB	SBD		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0223W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	9.68	8.48	10.0	10.0	97	85	77-126	13	20	
Tetrachloroethene	10.3	9.21	10.0	10.0	103	92	80-124	11	18	
1,3-Dichloropropane	10.1	8.94	10.0	10.0	101	89	80-120	12	15	
Dibromochloromethane	10.4	9.18	10.0	10.0	104	92	80-128	12	15	
1,2-Dibromoethane	10.5	9.25	10.0	10.0	105	93	80-127	13	15	
Chlorobenzene	9.87	8.83	10.0	10.0	99	88	80-120	11	17	
1,1,1,2-Tetrachloroethane	10.1	8.82	10.0	10.0	101	88	80-125	14	17	
Bromoform	10.0	8.79	10.0	10.0	100	88	80-130	13	15	
Bromobenzene	9.46	8.46	10.0	10.0	95	85	76-128	11	16	
1,1,2,2-Tetrachloroethane	9.74	8.57	10.0	10.0	97	86	74-130	13	15	
1,2,3-Trichloropropane	8.72	7.90	10.0	10.0	87	79	71-129	10	25	
2-Chlorotoluene	9.75	8.66	10.0	10.0	98	87	80-128	12	18	
4-Chlorotoluene	10.0	8.98	10.0	10.0	100	90	80-130	11	19	
1,3-Dichlorobenzene	9.66	8.65	10.0	10.0	97	87	80-126	11	17	
1,4-Dichlorobenzene	9.30	8.34	10.0	10.0	93	83	80-121	11	17	
1,2-Dichlorobenzene	9.46	8.48	10.0	10.0	95	85	79-125	11	15	
1,2-Dibromo-3-chloropropane	9.44	8.26	10.0	10.0	94	83	73-133	13	15	
1,2,4-Trichlorobenzene	9.28	8.22	10.0	10.0	93	82	80-139	12	18	
Hexachlorobutadiene	9.59	8.79	10.0	10.0	96	88	80-151	9	18	
1,2,3-Trichlorobenzene	9.34	8.49	10.0	10.0	93	85	75-146	10	28	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					101	103	75-127			
<i>Toluene-d8</i>					103	102	80-127			
<i>4-Bromofluorobenzene</i>					101	102	78-125			



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**TOTAL METALS  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
Calcium	<b>69000</b>	10000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>33000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>5300</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>23000</b>	1000	EPA 6010D	2-23-23	2-23-23	

<b>Client ID:</b>	<b>MW-11:W</b>					
Laboratory ID:	02-240-02					
Calcium	<b>30000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>13000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>1800</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>25000</b>	1000	EPA 6010D	2-23-23	2-23-23	

<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
Calcium	<b>17000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>6200</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>1500</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>12000</b>	1000	EPA 6010D	2-23-23	2-23-23	

<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
Calcium	<b>45000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>21000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>2000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>20000</b>	1000	EPA 6010D	2-23-23	2-23-23	

<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
Calcium	<b>99000</b>	10000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>43000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>2400</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>18000</b>	1000	EPA 6010D	2-23-23	2-23-23	



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**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0223WH1					
Calcium	ND	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	ND	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	ND	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	ND	1000	EPA 6010D	2-23-23	2-23-23	

<b>Analyte</b>	<b>Result</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>Percent Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Flags</b>
<b>DUPLICATE</b>								
Laboratory ID:	02-265-01							
	ORIG	DUP						
Calcium	39800	39600	NA	NA	NA	NA	0	20
Magnesium	11700	11700	NA	NA	NA	NA	1	20
Potassium	9740	9710	NA	NA	NA	NA	0	20
Sodium	29800	29700	NA	NA	NA	NA	0	20

**MATRIX SPIKES**

<b>Laboratory ID:</b>	02-265-01									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	98600	97600	20000	20000	79600	95	90	75-125	1	20
Magnesium	30700	30900	20000	20000	11700	95	96	75-125	1	20
Potassium	29400	29700	20000	20000	9740	98	100	75-125	1	20
Sodium	47500	48400	20000	20000	29800	89	93	75-125	2	20



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**DISSOLVED METALS  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
Iron	<b>41000</b>	250	EPA 6010D		2-28-23	
Manganese	<b>6400</b>	50	EPA 6010D		2-28-23	

<b>Client ID:</b>	<b>MW-11:W</b>					
Laboratory ID:	02-240-02					
Iron	<b>1800</b>	56	EPA 6010D		2-28-23	
Manganese	<b>830</b>	11	EPA 6010D		2-28-23	

<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
Iron	<b>ND</b>	56	EPA 6010D		2-28-23	
Manganese	<b>160</b>	11	EPA 6010D		2-28-23	

<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
Iron	<b>2900</b>	56	EPA 6010D		2-28-23	
Manganese	<b>2100</b>	11	EPA 6010D		2-28-23	

<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
Iron	<b>9100</b>	56	EPA 6010D		2-28-23	
Manganese	<b>2900</b>	11	EPA 6010D		2-28-23	



Date of Report: March 16, 2023  
 Samples Submitted: February 21, 2023  
 Laboratory Reference: 2302-240  
 Project: 82303-9.16

**DISSOLVED METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0228D1					
Iron	<b>ND</b>	56	EPA 6010D		2-28-23	
Manganese	<b>ND</b>	11	EPA 6010D		2-28-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-240-03							
	ORIG	DUP						
Iron	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	20	
Manganese	<b>161</b>	<b>158</b>	NA	NA	NA	2	20	

**MATRIX SPIKES**

Laboratory ID:	02-240-03									
	MS	MSD	MS	MSD		MS	MSD			
Iron	<b>22200</b>	<b>21800</b>	22200	22200	ND	<b>100</b>	<b>98</b>	75-125	2	20
Manganese	<b>650</b>	<b>663</b>	556	556	161	<b>88</b>	<b>90</b>	75-125	2	20





Date of Report: March 16, 2023  
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 Laboratory Reference: 2302-240  
 Project: 82303-9.16

**TOTAL ORGANIC CARBON  
 SM 5310B**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
Total Organic Carbon	<b>14</b>	1.0	SM 5310B	3-1-23	3-2-23	

<b>Client ID:</b>	<b>MW-11:W</b>					
Laboratory ID:	02-240-02					
Total Organic Carbon	<b>4.1</b>	1.0	SM 5310B	3-1-23	3-2-23	

<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
Total Organic Carbon	<b>1.2</b>	1.0	SM 5310B	3-1-23	3-2-23	

<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
Total Organic Carbon	<b>3.0</b>	1.0	SM 5310B	3-1-23	3-2-23	

<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
Total Organic Carbon	<b>11</b>	1.0	SM 5310B	3-1-23	3-2-23	



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 Project: 82303-9.16

**TOTAL ORGANIC CARBON  
 SM 5310B  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0301W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	3-1-23	3-1-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-240-01							
	ORIG	DUP						
Total Organic Carbon	<b>14.1</b>	<b>14.3</b>	NA	NA	NA	1	12	

**MATRIX SPIKE**

Laboratory ID:	02-240-01							
	MS	MS		MS				
Total Organic Carbon	<b>24.5</b>	10.0	14.1	104	80-120	NA	NA	

**SPIKE BLANK**

Laboratory ID:	SB0301W1							
	SB	SB		SB				
Total Organic Carbon	<b>9.85</b>	10.0	NA	99	80-118	NA	NA	



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**CHLORIDE  
 SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
Chloride	<b>8.2</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

<b>Client ID:</b>	<b>MW-11:W</b>					
Laboratory ID:	02-240-02					
Chloride	<b>2.1</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
Chloride	<b>5.7</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
Chloride	<b>3.8</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
Chloride	<b>6.9</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	



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**CHLORIDE  
 SM 4500-CI E  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0222W1					
Chloride	<b>ND</b>	2.0	SM 4500-CI E	2-22-23	2-22-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-207-01							
	ORIG	DUP						
Chloride	<b>2.76</b>	<b>2.95</b>	NA	NA	NA	7	11	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-207-01							
	MS	MS		MS				
Chloride	<b>50.0</b>	50.0	2.76	94	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0222W1							
	SB	SB		SB				
Chloride	<b>47.2</b>	50.0	NA	94	90-119	NA	NA	



Date of Report: March 16, 2023  
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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
Ammonia	<b>4.0</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	
<b>Client ID:</b>	<b>MW-11:W</b>					
Laboratory ID:	02-240-02					
Ammonia	<b>0.20</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	
<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	
<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	
<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	



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**AMMONIA (as Nitrogen)  
 SM 4500-NH<sub>3</sub> D  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0224W1					
Ammonia	ND	0.050	SM 4500-NH3 D	2-24-23	2-24-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-207-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-207-01							
	MS	MS		MS				
Ammonia	4.44	5.00	ND	89	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0224W1							
	SB	SB		SB				
Ammonia	4.53	5.00	NA	91	88-110	NA	NA	



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 Project: 82303-9.16

**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
Sulfate	<b>23</b>	10	ASTM D516-11	3-2-23	3-2-23	

<b>Client ID:</b>	<b>MW-11:W</b>					
Laboratory ID:	02-240-02					
Sulfate	<b>31</b>	10	ASTM D516-11	3-2-23	3-2-23	

<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
Sulfate	<b>26</b>	10	ASTM D516-11	3-2-23	3-2-23	

<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
Sulfate	<b>25</b>	10	ASTM D516-11	3-2-23	3-2-23	

<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	3-2-23	3-2-23	



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**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0228W1					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	3-2-23	3-2-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-240-05							
	ORIG	DUP						
Sulfate	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-240-05							
	MS	MS		MS				
Sulfate	<b>12.4</b>	10.0	ND	124	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0229W1							
	SB	SB		SB				
Sulfate	<b>9.34</b>	10.0	NA	93	85-114	NA	NA	





Date of Report: March 16, 2023  
 Samples Submitted: February 21, 2023  
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**DISSOLVED GASES  
RSK 175**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-6:W</b>					
Laboratory ID:	02-240-01					
Methane	<b>6600</b>	55	RSK 175	2-22-23	2-22-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-22-23	2-22-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	60	50-150				

<b>Client ID:</b>	<b>MW-11:W</b>					
Laboratory ID:	02-240-02					
Methane	<b>1600</b>	14	RSK 175	2-22-23	2-22-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-22-23	2-22-23	
Ethene	<b>3.9</b>	0.29	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	71	50-150				

<b>Client ID:</b>	<b>MW-5R:W</b>					
Laboratory ID:	02-240-03					
Methane	<b>7100</b>	55	RSK 175	2-22-23	2-22-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-22-23	2-22-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	76	50-150				

<b>Client ID:</b>	<b>MW-4R:W</b>					
Laboratory ID:	02-240-04					
Methane	<b>9900</b>	83	RSK 175	2-22-23	2-22-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-22-23	2-22-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	64	50-150				

<b>Client ID:</b>	<b>MW-12:W</b>					
Laboratory ID:	02-240-05					
Methane	<b>8300</b>	83	RSK 175	2-22-23	2-22-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-22-23	2-22-23	
Ethene	<b>13</b>	0.29	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	56	50-150				



Date of Report: March 16, 2023  
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 Project: 82303-9.16

**DISSOLVED GASES  
 RSK 175  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>						
Laboratory ID:	MB0222W1					
Methane	ND	0.55	RSK 175	2-22-23	2-22-23	
Ethane	ND	0.22	RSK 175	2-22-23	2-22-23	
Ethene	ND	0.29	RSK 175	2-22-23	2-22-23	
Acetylene	ND	1.2	RSK 175	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	73	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	38.3	37.7	44.2	44.2	87	85	75-125	2	25	
Ethane	70.8	70.0	83.2	83.2	85	84	75-125	1	25	
Ethene	64.7	64.4	77.7	77.7	83	83	75-125	0	25	
<i>Surrogate:</i>										
1-Butene					75	75	50-150			





### 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.
  - X2 - Sample extract treated with a 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.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





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

# Chain of Custody

Turnaround Request  
 (in working days)  
 (Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

(other) \_\_\_\_\_

Laboratory Number: **02-240**

Company: **Kane Environmental**  
 Project Number: **82803-9.16**  
 Project Name: **BSCSS**  
 Project Manager: **Jeff Jensen**  
 Sampled by: **Emmy Kane**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-10:W	2/20/23	1000	GW	13
2	MW-11:W		1230	GW	13
3	MW-5R:W		1200	GW	13
4	MW-4R:W		1345	GW	13
5	MW-12:W		1450	GW	13

Parameter	1	2	3	4	5
NWTPH-HCID					
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )					
NWTPH-Gx					
NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/> )					
Volatiles 8260					
Halogenated Volatiles 8260	X	X	X	X	X
EDB EPA 8011 (Waters Only)					
Semivolatiles 8270/SIM (with low-level PAHs)					
PAHs 8270/SIM (low-level)					
PCBs 8082					
Organochlorine Pesticides 8081					
Organophosphorus Pesticides 8270/SIM					
Chlorinated Acid Herbicides 8151					
Total PCBs Metals	X	X	X	X	X
Total TCCA Metals	X	X	X	X	X
TCLP Metals	X	X	X	X	X
HEM (oil and grease) 1664	X	X	X	X	X
TOC	X	X	X	X	X
chloride	X	X	X	X	X
Ammonia	X	X	X	X	X
sulfate	X	X	X	X	X
% Moisture	X	X	X	X	X

Sulfide

Cations-TOTAL

Ferrous Iron

Dissolved Iron and Manganese

RSK

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	KANE ENV.	2/20/23	1500	Field filtered dissolved iron
<i>[Signature]</i>	Kane	2/20/23	1500	RSK = methane, ethane, ethene
<i>[Signature]</i>	Kane	2/21/23	1115	below detection limit (3-4 µg/L)
<i>[Signature]</i>	OSG	2/21/23	1115	Cations = sodium, potassium, calcium, magnesium

Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Received \_\_\_\_\_  
 Relinquished \_\_\_\_\_  
 Reviewed/Date \_\_\_\_\_

Reviewed/Date \_\_\_\_\_

Chromatograms with final report  Electronic Data Deliverables (EDDs)



**Analytical Resources, LLC**  
**Analytical Chemists and Consultants**  
**Tukwila, WA**

16 March 2023

David Baumeister  
 OnSite Environmental, Inc.  
 14648 NE 95th Street  
 Redmond, WA 98052

RE: 82303-9.16 (02-240)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

<u>Associated Work Order(s)</u>	<u>Associated SDG ID(s)</u>
23B0422	N/A

-----

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 02-240

Laboratory: Analytical Resources, Inc.

Turnaround Request

Project Manager: David Baumeister

Attention: Amanda Volgardsen

1 Day    2 Day    3 Day

email: dbaumeister@onsite-env.com

Address: 4611 S 134th Pl, Ste. 100 Tukwila, WA 98168

Standard

Project Number: 82303-9.16

Phone Number: ( 206 ) 695-6200

Other: \_\_\_\_\_

Project Name: \_\_\_\_\_

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-6:W	2/20/23	10:00	W	1	Ferrous Iron
	MW-11:W	2/20/23	12:30	W	1	Ferrous Iron
	MW-5R:W	2/20/23	12:00	W	1	Ferrous Iron
	MW-4R:W	2/20/23	13:45	W	1	Ferrous Iron
	MW-12:W	2/20/23	14:50	W	1	Ferrous Iron

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: <i>Nichelle [Signature]</i>	<i>OSE</i>	<i>2/21/23</i>	<i>1438</i>	
Received by: <i>Josh [Signature]</i>	<i>Alpha</i>	<i>2/21/23</i>	<i>1438</i>	
Relinquished by: <i>Josh Jones</i>	<i>Alpha</i>	<i>2/21/23</i>	<i>407</i>	
Received by: <i>[Signature]</i>	<i>Jacob Walter AR, LLC</i>	<i>2/21/23</i>	<i>1607</i>	
Relinquished by:				
Received by:				



OnSite Environmental, Inc.  
14648 NE 95th Street  
Redmond WA, 98052

Project: 82303-9.16  
Project Number: 02-240  
Project Manager: David Baumeister

**Reported:**  
16-Mar-2023 10:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6:W	23B0422-01	Water	20-Feb-2023 10:00	21-Feb-2023 16:07
MW-11:W	23B0422-02	Water	20-Feb-2023 12:30	21-Feb-2023 16:07
MW-5R:W	23B0422-03	Water	20-Feb-2023 12:00	21-Feb-2023 16:07
MW-4R:W	23B0422-04	Water	20-Feb-2023 13:45	21-Feb-2023 16:07
MW-12:W	23B0422-05	Water	20-Feb-2023 14:50	21-Feb-2023 16:07



OnSite Environmental, Inc.  
14648 NE 95th Street  
Redmond WA, 98052

Project: 82303-9.16  
Project Number: 02-240  
Project Manager: David Baumeister

**Reported:**  
16-Mar-2023 10:08

## Work Order Case Narrative

**Client:** OnSite Environmental, Inc.  
**Project:** 82303-9.16  
**Project Number:** 02-240  
**Work Order:** 23B0422

### Sample receipt

Sample(s) as listed on the preceding page were received 21-Feb-2023 16:07 under ARI work order 23B0422. For details regarding sample receipt, please refer to the Cooler Receipt Form.

### Wet Chemistry

The sample(s) were prepared and analyzed outside the recommended holding times. The hold time was exceeded upon sample receipt. The deviation has been flagged.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The the duplicate (DUP) relative percent difference (RPD) were within advisory control limits. A matrix spike should be included in each batch of samples. Due to the high sample concentration one sample was analyzed in triplicate.





WORK ORDER

23B0422

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: OnSite Environmental, Inc. Project Manager: Shelly Fishel  
Project: Parametrix 233-1896-107 Project Number: 82303-9.16

**Report To:** OnSite Environmental, Inc.  
David Baumeister  
14648 NE 95th Street  
Redmond, WA 98052  
Phone: 425-883-3881  
Fax: -

**Invoice To:** OnSite Environmental, Inc.  
David Baumeister  
14648 NE 95th Street  
Redmond, WA 98052  
Phone :425-883-3881  
Fax: -

Date Due: 08-Mar-2023 18:00 (10 day TAT)  
Received By: Jacob Walter Date Received: 21-Feb-2023 16:07  
Logged In By: Jacob Walter Date Logged In: 21-Feb-2023 16:12

Samples Received at 3.9°C

Intact, properly signed and dated custody seals attached to outside of coolers).....No	Custody papers included with the cooler.....	Yes
Custody papers properly filled out(in. signed, analyses requested, etc).....Yes	Was a temperature blank included in the cooler.....	No
Was sufficient ice used (if appropriate).....Yes	All bottles sealed in individual plastic bags.....	No
All bottles arrived in good condition(unbroken).....Yes	All bottle labels complete and legible.....	Yes
Number of containers listed on COC match number received.....Yes	Bottle labels and tags agree with COC.....	Yes
Correct bottles used for the requested analyses.....Yes	All VOC vials free of air bubbles.....	No
Analyses/bottles require preservation(attach preservation sheet excluding VOC)..Yes	Sufficient amount of sample sent in each bottle.....	Yes
Sample split at ARL.....No		

<b>23B0422-01 MW-6:W [Water] Sampled 20-Feb-2023 10:00</b>
Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023
<b>23B0422-02 MW-11:W [Water] Sampled 20-Feb-2023 12:30</b>
Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023
<b>23B0422-03 MW-5R:W [Water] Sampled 20-Feb-2023 12:00</b>
Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023
<b>23B0422-04 MW-4R:W [Water] Sampled 20-Feb-2023 13:45</b>
Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023
<b>23B0422-05 MW-12:W [Water] Sampled 20-Feb-2023 14:50</b>
Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023

Preservation Confirmation

Container ID	Container Type	pH
23B0422-01 A	Glass NM, Amber, 500 mL, HCl	①
23B0422-02 A	Glass NM, Amber, 500 mL, HCl	①
23B0422-03 A	Glass NM, Amber, 500 mL, HCl	①
23B0422-04 A	Glass NM, Amber, 500 mL, HCl	①
23B0422-05 A	Glass NM, Amber, 500 mL, HCl	①

T.B.W.  
Preservation Confirmed By

02/21/23  
Date

① lab to verify pH  
order to analysis

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



# Cooler Receipt Form

ARI Client: On-Site

Project Name: 22-240

COC No(s): \_\_\_\_\_ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: \_\_\_\_\_

Assigned ARI Job No: 23B0422

Tracking No: \_\_\_\_\_ NA

**Preliminary Examination Phase:**

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO  
 Were custody papers included with the cooler? ..... YES NO  
 Were custody papers properly filled out (ink, signed, etc.) ..... YES NO  
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1657 3.9  
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: TC09708

Cooler Accepted by: JR Date: 2/26/23 Time: 1657

**Complete custody forms and attach all shipping documents**

**Log-In Phase:**

Was a temperature blank included in the cooler? ..... YES NO  
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: \_\_\_\_\_  
 Was sufficient ice used (if appropriate)? ..... NA YES NO  
 How were bottles sealed in plastic bags? ..... Individually Grouped Not  
 Did all bottles arrive in good condition (unbroken)? ..... YES NO  
 Were all bottle labels complete and legible? ..... YES NO  
 Did the number of containers listed on COC match with the number of containers received? ..... YES NO  
 Did all bottle labels and tags agree with custody papers? ..... YES NO  
 Were all bottles used correct for the requested analyses? ..... YES NO  
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO  
 Were all VOC vials free of air bubbles? ..... NA YES NO  
 Was sufficient amount of sample sent in each bottle? ..... YES NO  
 Date VOC Trip Blank was made at ARI ..... NA  
 Were the sample(s) split by ARI? NA YES Date/Time: \_\_\_\_\_ Equipment: \_\_\_\_\_ Split by: \_\_\_\_\_

Samples Logged by: JR Date: 2/26/23 Time: 1612 Labels checked by: JR

**\*\* Notify Project Manager of discrepancies or concerns \*\***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

**Additional Notes, Discrepancies, & Resolutions:**

By: \_\_\_\_\_ Date: \_\_\_\_\_



WORK ORDER

23B0422

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: OnSite Environmental, Inc.

Project Manager: Shelly Fishel

Project: Parametrix 233-1896-107

Project Number: 82303-9.16

Report To:

OnSite Environmental, Inc.  
David Baumeister  
14648 NE 95th Street  
Redmond, WA 98052  
Phone: 425-883-3881  
Fax: -

Invoice To:

OnSite Environmental, Inc.  
David Baumeister  
14648 NE 95th Street  
Redmond, WA 98052  
Phone :425-883-3881  
Fax: -

Date Due: 08-Mar-2023 18:00 (10 day TAT)

Received By: Jacob Walter

Date Received: 21-Feb-2023 16:07

Logged In By: Jacob Walter

Date Logged In: 21-Feb-2023 16:12

Samples Received at 3.9°C

Intact, properly signed and dated custody seals attached to outside of coolers).....No	Custody papers included with the cooler.....	Yes
Custody papers properly filled out (in, signed, analyses requested, etc).....Yes	Was a temperature blank included in the cooler.....	No
Was sufficient ice used (if appropriate).....Yes	All bottles sealed in individual plastic bags.....	No
All bottles arrived in good condition (unbroken).....Yes	All bottle labels complete and legible.....	Yes
Number of containers listed on COC match number received.....Yes	Bottle labels and tags agree with COC.....	Yes
Correct bottles used for the requested analyses.....Yes	All VOC vials free of air bubbles.....	No
Analyses/bottles require preservation (attach preservation sheet excluding VOC).....Yes	Sufficient amount of sample sent in each bottle.....	Yes
Sample split at ARI.....No		

23B0422-01 MW-6:W [Water] Sampled 20-Feb-2023 10:00

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023

23B0422-02 MW-11:W [Water] Sampled 20-Feb-2023 12:30

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023

23B0422-03 MW-5R:W [Water] Sampled 20-Feb-2023 12:00

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023

23B0422-04 MW-4R:W [Water] Sampled 20-Feb-2023 13:45

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023

23B0422-05 MW-12:W [Water] Sampled 20-Feb-2023 14:50

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/21/2023

Preservation Confirmation

Container ID	Container Type	pH
23B0422-01 A	Glass NM, Amber, 500 mL, HCl	①
23B0422-02 A	Glass NM, Amber, 500 mL, HCl	①
23B0422-03 A	Glass NM, Amber, 500 mL, HCl	①
23B0422-04 A	Glass NM, Amber, 500 mL, HCl	①
23B0422-05 A	Glass NM, Amber, 500 mL, HCl	①

*all samples and  
pH < 2.0 and  
No headspace.  
2/21/23 19:45  
CW*

*JB*  
Preservation Confirmed By

*02/21/23*  
Date

*① lab to verify pH  
prior to analysis*

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-240 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:08
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**MW-6:W**  
**23B0422-01RE1 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/20/2023 10:00  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/21/2023 20:18

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0422-01RE1 A  
Preparation Batch: BLB0561 Sample Size: 5 mL  
Prepared: 02/21/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		50	2.00	2.00	54.6	mg/L	H, D



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-240 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:08
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**MW-11:W**  
**23B0422-02RE1 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/20/2023 12:30  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/21/2023 20:20

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0422-02RE1 A  
Preparation Batch: BLB0561 Sample Size: 5 mL  
Prepared: 02/21/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		5	0.200	0.200	2.31	mg/L	H, D



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-240 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:08
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**MW-5R:W**  
**23B0422-03 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/20/2023 12:00  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/21/2023 20:02

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0422-03 A  
Preparation Batch: BLB0561 Sample Size: 5 mL  
Prepared: 02/21/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		1	0.040	0.040	0.093	mg/L	H



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-240 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:08
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**MW-4R:W**  
**23B0422-04RE1 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/20/2023 13:45  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/21/2023 20:20

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0422-04RE1 A  
Preparation Batch: BLB0561 Sample Size: 5 mL  
Prepared: 02/21/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		10	0.400	0.400	3.60	mg/L	H, D



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-240 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:08
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**MW-12:W**  
**23B0422-05RE1 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/20/2023 14:50  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/21/2023 20:20

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0422-05RE1 A  
Preparation Batch: BLB0561 Sample Size: 5 mL  
Prepared: 02/21/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		10	0.400	0.400	10.7	mg/L	H, D





OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-240 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:08
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**Analysis by: Analytical Resources, LLC**

**Wet Chemistry - Quality Control**

**Batch BLB0561 - SM 3500-Fe B-97**

Instrument: UV1800-2 Analyst: CDE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Blank (BLB0561-BLK1)</b>						Prepared: 21-Feb-2023 Analyzed: 21-Feb-2023 19:59					
Ferrous Iron	ND	0.040	0.040	mg/L							U
<b>LCS (BLB0561-BS1)</b>						Prepared: 21-Feb-2023 Analyzed: 21-Feb-2023 19:59					
Ferrous Iron	0.465	0.040	0.040	mg/L	0.510		91.2	90-110			
<b>Duplicate (BLB0561-DUP1)</b>						Source: 23B0422-01RE1 Prepared: 21-Feb-2023 Analyzed: 21-Feb-2023 20:19					
Ferrous Iron	56.6	2.00	2.00	mg/L		54.6			3.60	20	H, D
<b>Duplicate (BLB0561-DUP2)</b>						Source: 23B0422-01RE1 Prepared: 21-Feb-2023 Analyzed: 21-Feb-2023 20:19					
Ferrous Iron	56.6	2.00	2.00	mg/L		54.6			3.69	20	H, D



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-240 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:08
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**Certified Analyses included in this Report**

Analyte	Certifications
<b>SM 3500-Fe B-97 in Water</b>	
Ferrous Iron	WADOE,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



OnSite Environmental, Inc.  
14648 NE 95th Street  
Redmond WA, 98052

Project: 82303-9.16  
Project Number: 02-240  
Project Manager: David Baumeister

**Reported:**  
16-Mar-2023 10:08

### Notes and Definitions

- D The reported value is from a dilution
- H Hold time violation - Hold time was exceeded.
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



Professional Analytical Services

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Mar 6 2023
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

Table with 4 columns: CLIENT ID, MATRIX, AMTEST ID, TEST. Rows include MW-6:W, MW-11:W, MW-5R:W, MW-4R:W, MW-12:W with corresponding matrix (Water) and test results (CONV).

Your samples were received on Wednesday, February 22, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

Handwritten signature of Aaron W. Young and typed name: Aaron W. Young, Vice President

Project #: 82303-9-16
SDG #: 2328380
PO Number: 02-240

BACT = Bacteriological MET = Metals NUT=Nutrients MIN=Minerals
CONV = Conventionals ORG = Organics DEM=Demand

Am Test Inc.  
13600 NE 126TH PL  
Suite C  
Kirkland, WA 98034  
(425) 885-1664  
www.amtestlab.com



*Professional  
Analytical  
Services*

## ANALYSIS REPORT

On-Site Environmental  
14648 NE 95th ST  
Redmond, WA 98052  
Attention: David Baumeister  
SDG Number: 2328380  
Project #: 82303-9-16  
PO Number: 02-240  
All results reported on an as received basis.

Date Received: 02/22/23  
Date Reported: 3/ 6/23

---

**AMTEST Identification Number**      23-A003269  
**Client Identification**                MW-6:W  
**Sampling Date**                         02/20/23, 10:00

### Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	< 0.05	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

---

**AMTEST Identification Number**      23-A003270  
**Client Identification**                MW-11:W  
**Sampling Date**                         02/20/23, 12:30

### Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	0.08	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

On-Site Environmental  
Project Name:  
AmTest ID: 23-A003271

**AMTEST Identification Number** 23-A003271  
**Client Identification** MW-5R:W  
**Sampling Date** 02/20/23, 12:00

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	< 0.05	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

**AMTEST Identification Number** 23-A003272  
**Client Identification** MW-4R:W  
**Sampling Date** 02/20/23, 13:45

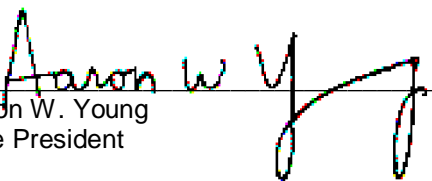
**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	0.34	mg/l		0.05	SM 4500-S2-D	KF	03/03/23

**AMTEST Identification Number** 23-A003273  
**Client Identification** MW-12:W  
**Sampling Date** 02/20/23, 14:50

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	0.39	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

  
Aaron W. Young  
Vice President

**QC Summary for sample numbers: 23-A003269 to 23-A003273**

**MATRIX SPIKES**

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
23-A003030	Total Sulfide	mg/l	< 0.05	0.23	0.25	92.00 %
23-A003030	Total Sulfide	mg/l	< 0.05	0.22	0.25	88.00 %
23-A003030	Total Sulfide	mg/l	< 0.05	0.29	0.25	116.00 %
23-A003030	Total Sulfide	mg/l	< 0.05	0.28	0.25	112.00 %
23-A003278	Total Sulfide	mg/l	< 0.05	0.29	0.25	116.00 %
23-A003278	Total Sulfide	mg/l	< 0.05	0.29	0.25	116.00 %

**MATRIX SPIKE DUPLICATES**

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Total Sulfide	mg/l	0.23	0.22	4.4
Spike	Total Sulfide	mg/l	0.29	0.28	3.5
Spike	Total Sulfide	mg/l	0.29	0.29	0.00

**STANDARD REFERENCE MATERIALS**

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Total Sulfide	mg/l	0.50	0.57	114. %
Total Sulfide	mg/l	0.25	0.26	104. %

**BLANKS**

ANALYTE	UNITS	RESULT
Total Sulfide	mg/l	< 0.05
Total Sulfide	mg/l	< 0.05







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

# Chain of Custody

Turnaround Request  
 (in working days)  
 (Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

Laboratory Number: **02-240**

Page 1 of 1

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions	
1	MW-10:W	2/20/23	1000	GW	13	2/20/23	1500	Field filtered dissolved iron RSK = methane, ethane, ethene below detection limit (3-4 µg/L) Cations = sodium, potassium, calcium, magnesium low detection limit for VC Data Package: Standard <input checked="" type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>	
2	MW-11:W		1230	GW	13				
3	MW-5R:W		1200	GW	13				
4	MW-4R:W		1345	GW	13				
5	MW-12:W		1450	GW	13				
Company: Kane Environmental		Project Number: 82803-9.16		Project Name: BSCSS		Project Manager: Jeff Jensen		Sampled by: Emmy Kane	
Signature		Company		Date		Time		Comments/Special Instructions	
Received		Kane Env.		2/20/23		1500		Field filtered dissolved iron	
Relinquished		Kane		2/20/23		1500		RSK = methane, ethane, ethene	
Received		Kane		2/21/23		1115		below detection limit (3-4 µg/L)	
Relinquished		OSG		2/21/23		1115		Cations = sodium, potassium, calcium, magnesium	
Received		OSG						low detection limit for VC	
Relinquished								Data Package: Standard <input checked="" type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	
Reviewed/Date		Reviewed/Date		Reviewed/Date		Reviewed/Date		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>	

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input checkbox="" type="checkbox/&gt;)&lt;/th&gt; &lt;th&gt;NWTPH-Gx&lt;/th&gt; &lt;th&gt;NWTPH-Dx (Acid / SG Clean-up &lt;input type="/> )	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PCBs Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TOC	chloride	Ammonia	sulfate	% Moisture		
						X										X						
						X										X						
						X										X						
						X										X						
						X										X						

Sulfide  
 Cations-TOTAL  
 Ferrous Iron  
 Dissolved Iron and Manganese  
 RSK



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

March 16, 2023

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

Re: Analytical Data for Project 82303-9.16  
Laboratory Reference No. 2302-248

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on February 15, 2023.

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,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 16, 2023  
Samples Submitted: February 15, 2023  
Laboratory Reference: 2302-248  
Project: 82303-9.16

### Case Narrative

Samples were collected on February 21, 2023 and received by the laboratory on February 21, 2023. 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.

#### Volatiles EPA 8260D Analysis

The RPD for Dichlorodifluoromethane is outside the control limits for the Spike Blank/Spike Blank Duplicate. The percent recoveries on both spike blanks are within recovery limits. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: March 16, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-248  
 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
Dichlorodifluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloromethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Vinyl Chloride	2.6	1.0	EPA 8260D/SIM	2-22-23	2-22-23	
Bromomethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Chloroethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Trichlorofluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
Iodomethane	ND	480	EPA 8260D	2-22-23	2-22-23	
Methylene Chloride	ND	50	EPA 8260D	2-22-23	2-22-23	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
2,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,2-Dichloroethene	420	10	EPA 8260D	2-22-23	2-22-23	
Bromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloroform	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Carbon Tetrachloride	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Trichloroethene	210	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromomethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromodichloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	



Date of Report: March 16, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-248  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
1,1,2-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Tetrachloroethene	1300	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromoethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromoform	ND	50	EPA 8260D	2-22-23	2-22-23	
Bromobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
2-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
4-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,4-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
Hexachlorobutadiene	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichlorobenzene	ND	50	EPA 8260D	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: March 16, 2023  
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 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
<b>Laboratory ID:</b>	02-248-02					
Dichlorodifluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloromethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Vinyl Chloride	23	10	EPA 8260D	2-22-23	2-22-23	
Bromomethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Chloroethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Trichlorofluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
Iodomethane	ND	480	EPA 8260D	2-22-23	2-22-23	
Methylene Chloride	ND	50	EPA 8260D	2-22-23	2-22-23	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
2,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,2-Dichloroethene	220	10	EPA 8260D	2-22-23	2-22-23	
Bromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloroform	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Carbon Tetrachloride	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Trichloroethene	170	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromomethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromodichloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	



Date of Report: March 16, 2023  
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 Laboratory Reference: 2302-248  
 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
Laboratory ID:	02-248-02					
1,1,2-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Tetrachloroethene	1000	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromoethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromoform	ND	50	EPA 8260D	2-22-23	2-22-23	
Bromobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
2-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
4-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,4-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
Hexachlorobutadiene	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichlorobenzene	ND	50	EPA 8260D	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: March 16, 2023  
 Samples Submitted: February 15, 2023  
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 Project: 82303-9.16

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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
<b>Laboratory ID:</b>	02-248-03					
Dichlorodifluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloromethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Vinyl Chloride	1.1	1.0	EPA 8260D/SIM	2-22-23	2-22-23	
Bromomethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Chloroethane	ND	50	EPA 8260D	2-22-23	2-22-23	
Trichlorofluoromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
Iodomethane	ND	480	EPA 8260D	2-22-23	2-22-23	
Methylene Chloride	ND	50	EPA 8260D	2-22-23	2-22-23	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
2,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,2-Dichloroethene	210	10	EPA 8260D	2-22-23	2-22-23	
Bromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chloroform	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Carbon Tetrachloride	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Trichloroethene	190	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromomethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromodichloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	2-22-23	2-22-23	





Date of Report: March 16, 2023  
 Samples Submitted: February 15, 2023  
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 Project: 82303-9.16

**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
Laboratory ID:	02-248-03					
1,1,2-Trichloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Tetrachloroethene	4400	20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
Dibromochloromethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromoethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Chlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
Bromoform	ND	50	EPA 8260D	2-22-23	2-22-23	
Bromobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichloropropane	ND	10	EPA 8260D	2-22-23	2-22-23	
2-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
4-Chlorotoluene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,3-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,4-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	2-22-23	2-22-23	
Hexachlorobutadiene	ND	50	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichlorobenzene	ND	50	EPA 8260D	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



Date of Report: March 16, 2023  
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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
Laboratory ID:	02-248-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloromethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Vinyl Chloride	0.076	0.020	EPA 8260D/SIM	2-23-23	2-23-23	
Bromomethane	ND	1.5	EPA 8260D	2-23-23	2-23-23	
Chloroethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Iodomethane	ND	10	EPA 8260D	2-23-23	2-23-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-23-23	2-23-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,2-Dichloroethene	1.6	0.20	EPA 8260D	2-23-23	2-23-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloroform	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Trichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromomethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	



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**VOLATILE ORGANICS EPA 8260D/SIM**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
<b>Laboratory ID:</b>	02-248-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Tetrachloroethene	7.4	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromoform	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Bromobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichloropropane	7.2	0.20	EPA 8260D	2-23-23	2-23-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>78-125</i>				



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

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
Dichlorodifluoromethane	0.35	0.20	EPA 8260D	2-23-23	2-23-23	
Chloromethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-23-23	2-23-23	
Bromomethane	ND	1.5	EPA 8260D	2-23-23	2-23-23	
Chloroethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Iodomethane	ND	10	EPA 8260D	2-23-23	2-23-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-23-23	2-23-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,2-Dichloroethene	8.1	0.20	EPA 8260D	2-23-23	2-23-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloroform	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Trichloroethene	6.7	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromomethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Tetrachloroethene	25	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromoform	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Bromobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0222W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Chloromethane	ND	1.0	EPA 8260D	2-22-23	2-22-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-22-23	2-22-23	
Bromomethane	ND	1.0	EPA 8260D	2-22-23	2-22-23	
Chloroethane	ND	1.0	EPA 8260D	2-22-23	2-22-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Iodomethane	ND	9.5	EPA 8260D	2-22-23	2-22-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-22-23	2-22-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Chloroform	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Trichloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Dibromomethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-22-23	2-22-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0222W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Bromoform	ND	1.0	EPA 8260D	2-22-23	2-22-23	
Bromobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,1,1,2,2-Pentachloroethane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-22-23	2-22-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-22-23	2-22-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-22-23	2-22-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-22-23	2-22-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-22-23	2-22-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0223W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloromethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Vinyl Chloride	ND	0.020	EPA 8260D/SIM	2-23-23	2-23-23	
Bromomethane	ND	1.5	EPA 8260D	2-23-23	2-23-23	
Chloroethane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Iodomethane	ND	10	EPA 8260D	2-23-23	2-23-23	
Methylene Chloride	ND	1.0	EPA 8260D	2-23-23	2-23-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chloroform	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Trichloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromomethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromodichloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	2-23-23	2-23-23	





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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0223W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Tetrachloroethene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Dibromochloromethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Chlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Bromoform	ND	1.0	EPA 8260D	2-23-23	2-23-23	
Bromobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,1,1,2,2-Pentachloroethane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	2-23-23	2-23-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	2-23-23	2-23-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	2-23-23	2-23-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD	SB	SBD	SB	
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	10.9	10.9	10.0	10.0	109	109	34-166	0	21	
Chloromethane	10.8	11.0	10.0	10.0	108	110	63-138	2	18	
Vinyl Chloride	11.0	11.7	10.0	10.0	110	117	71-135	6	20	
Bromomethane	8.52	9.08	10.0	10.0	85	91	20-151	6	36	
Chloroethane	10.5	11.1	10.0	10.0	105	111	76-125	6	20	
Trichlorofluoromethane	11.3	12.1	10.0	10.0	113	121	75-131	7	19	
1,1-Dichloroethene	10.7	11.2	10.0	10.0	107	112	78-125	5	19	
Iodomethane	5.26	5.87	10.0	10.0	53	59	10-155	11	40	
Methylene Chloride	10.7	11.0	10.0	10.0	107	110	80-120	3	15	
(trans) 1,2-Dichloroethene	10.3	11.1	10.0	10.0	103	111	80-125	7	17	
1,1-Dichloroethane	10.0	11.2	10.0	10.0	100	112	80-125	11	17	
2,2-Dichloropropane	11.1	12.3	10.0	10.0	111	123	80-146	10	21	
(cis) 1,2-Dichloroethene	10.5	11.6	10.0	10.0	105	116	80-129	10	17	
Bromochloromethane	10.4	11.0	10.0	10.0	104	110	80-125	6	18	
Chloroform	10.3	11.1	10.0	10.0	103	111	80-123	7	16	
1,1,1-Trichloroethane	10.1	10.9	10.0	10.0	101	109	80-123	8	18	
Carbon Tetrachloride	9.91	10.5	10.0	10.0	99	105	80-126	6	17	
1,1-Dichloropropene	10.0	10.7	10.0	10.0	100	107	80-126	7	18	
1,2-Dichloroethane	10.9	10.8	10.0	10.0	109	108	80-124	1	15	
Trichloroethene	9.74	10.4	10.0	10.0	97	104	80-122	7	18	
1,2-Dichloropropane	9.68	10.5	10.0	10.0	97	105	80-123	8	15	
Dibromomethane	9.50	10.1	10.0	10.0	95	101	80-123	6	15	
Bromodichloromethane	9.84	10.2	10.0	10.0	98	102	80-125	4	15	
(cis) 1,3-Dichloropropene	10.1	10.2	10.0	10.0	101	102	80-129	1	15	
(trans) 1,3-Dichloropropene	9.39	9.56	10.0	10.0	94	96	80-134	2	17	



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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD	SB	SBD		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	8.78	9.02	10.0	10.0	88	90	77-126	3	20	
Tetrachloroethene	9.19	9.99	10.0	10.0	92	100	80-124	8	18	
1,3-Dichloropropane	8.99	9.15	10.0	10.0	90	92	80-120	2	15	
Dibromochloromethane	9.12	9.50	10.0	10.0	91	95	80-128	4	15	
1,2-Dibromoethane	9.55	9.53	10.0	10.0	96	95	80-127	0	15	
Chlorobenzene	9.05	9.45	10.0	10.0	91	95	80-120	4	17	
1,1,1,2-Tetrachloroethane	8.99	9.40	10.0	10.0	90	94	80-125	4	17	
Bromoform	8.75	9.11	10.0	10.0	88	91	80-130	4	15	
Bromobenzene	9.40	9.39	10.0	10.0	94	94	76-128	0	16	
1,1,2,2-Tetrachloroethane	9.57	9.10	10.0	10.0	96	91	74-130	5	15	
1,2,3-Trichloropropane	8.66	8.30	10.0	10.0	87	83	71-129	4	25	
2-Chlorotoluene	9.69	9.83	10.0	10.0	97	98	80-128	1	18	
4-Chlorotoluene	9.86	10.0	10.0	10.0	99	100	80-130	1	19	
1,3-Dichlorobenzene	9.14	9.54	10.0	10.0	91	95	80-126	4	17	
1,4-Dichlorobenzene	8.83	9.16	10.0	10.0	88	92	80-121	4	17	
1,2-Dichlorobenzene	8.89	9.21	10.0	10.0	89	92	79-125	4	15	
1,2-Dibromo-3-chloropropane	8.94	8.44	10.0	10.0	89	84	73-133	6	15	
1,2,4-Trichlorobenzene	8.78	9.00	10.0	10.0	88	90	80-139	2	18	
Hexachlorobutadiene	9.51	9.80	10.0	10.0	95	98	80-151	3	18	
1,2,3-Trichlorobenzene	8.62	8.77	10.0	10.0	86	88	75-146	2	28	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					107	108	75-127			
<i>Toluene-d8</i>					104	103	80-127			
<i>4-Bromofluorobenzene</i>					102	101	78-125			



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

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0223W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	10.1	8.17	10.0	10.0	101	82	34-166	21	21	L
Chloromethane	10.6	9.58	10.0	10.0	106	96	63-138	10	18	
Vinyl Chloride	11.0	9.55	10.0	10.0	110	96	71-135	14	20	
Bromomethane	6.52	6.71	10.0	10.0	65	67	20-151	3	36	
Chloroethane	10.5	9.19	10.0	10.0	105	92	76-125	13	20	
Trichlorofluoromethane	11.9	10.4	10.0	10.0	119	104	75-131	13	19	
1,1-Dichloroethene	11.1	9.72	10.0	10.0	111	97	78-125	13	19	
Iodomethane	4.91	5.83	10.0	10.0	49	58	10-155	17	40	
Methylene Chloride	11.7	10.3	10.0	10.0	117	103	80-120	13	15	
(trans) 1,2-Dichloroethene	11.1	9.85	10.0	10.0	111	99	80-125	12	17	
1,1-Dichloroethane	11.1	9.84	10.0	10.0	111	98	80-125	12	17	
2,2-Dichloropropane	12.0	11.0	10.0	10.0	120	110	80-146	9	21	
(cis) 1,2-Dichloroethene	11.6	10.5	10.0	10.0	116	105	80-129	10	17	
Bromochloromethane	11.4	10.1	10.0	10.0	114	101	80-125	12	18	
Chloroform	11.2	10.0	10.0	10.0	112	100	80-123	11	16	
1,1,1-Trichloroethane	10.9	9.69	10.0	10.0	109	97	80-123	12	18	
Carbon Tetrachloride	10.5	9.38	10.0	10.0	105	94	80-126	11	17	
1,1-Dichloropropene	10.6	9.36	10.0	10.0	106	94	80-126	12	18	
1,2-Dichloroethane	11.6	10.2	10.0	10.0	116	102	80-124	13	15	
Trichloroethene	10.9	9.56	10.0	10.0	109	96	80-122	13	18	
1,2-Dichloropropane	10.9	9.61	10.0	10.0	109	96	80-123	13	15	
Dibromomethane	11.0	9.66	10.0	10.0	110	97	80-123	13	15	
Bromodichloromethane	11.3	9.76	10.0	10.0	113	98	80-125	15	15	
(cis) 1,3-Dichloropropene	11.2	9.79	10.0	10.0	112	98	80-129	13	15	
(trans) 1,3-Dichloropropene	10.3	9.06	10.0	10.0	103	91	80-134	13	17	



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**VOLATILE ORGANICS EPA 8260D/SIM**  
**QUALITY CONTROL**  
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0223W1									
1,1,2-Trichloroethane	9.68	8.48	10.0	10.0	97	85	77-126	13	20	
Tetrachloroethene	10.3	9.21	10.0	10.0	103	92	80-124	11	18	
1,3-Dichloropropane	10.1	8.94	10.0	10.0	101	89	80-120	12	15	
Dibromochloromethane	10.4	9.18	10.0	10.0	104	92	80-128	12	15	
1,2-Dibromoethane	10.5	9.25	10.0	10.0	105	93	80-127	13	15	
Chlorobenzene	9.87	8.83	10.0	10.0	99	88	80-120	11	17	
1,1,1,2-Tetrachloroethane	10.1	8.82	10.0	10.0	101	88	80-125	14	17	
Bromoform	10.0	8.79	10.0	10.0	100	88	80-130	13	15	
Bromobenzene	9.46	8.46	10.0	10.0	95	85	76-128	11	16	
1,1,2,2-Tetrachloroethane	9.74	8.57	10.0	10.0	97	86	74-130	13	15	
1,2,3-Trichloropropane	8.72	7.90	10.0	10.0	87	79	71-129	10	25	
2-Chlorotoluene	9.75	8.66	10.0	10.0	98	87	80-128	12	18	
4-Chlorotoluene	10.0	8.98	10.0	10.0	100	90	80-130	11	19	
1,3-Dichlorobenzene	9.66	8.65	10.0	10.0	97	87	80-126	11	17	
1,4-Dichlorobenzene	9.30	8.34	10.0	10.0	93	83	80-121	11	17	
1,2-Dichlorobenzene	9.46	8.48	10.0	10.0	95	85	79-125	11	15	
1,2-Dibromo-3-chloropropane	9.44	8.26	10.0	10.0	94	83	73-133	13	15	
1,2,4-Trichlorobenzene	9.28	8.22	10.0	10.0	93	82	80-139	12	18	
Hexachlorobutadiene	9.59	8.79	10.0	10.0	96	88	80-151	9	18	
1,2,3-Trichlorobenzene	9.34	8.49	10.0	10.0	93	85	75-146	10	28	
<i>Surrogate:</i>										
Dibromofluoromethane					101	103	75-127			
Toluene-d8					103	102	80-127			
4-Bromofluorobenzene					101	102	78-125			



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**TOTAL METALS  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
Calcium	<b>56000</b>	10000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>22000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>3000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>20000</b>	1000	EPA 6010D	2-23-23	2-23-23	

<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
Laboratory ID:	02-248-02					
Calcium	<b>36000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>14000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>2100</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>12000</b>	1000	EPA 6010D	2-23-23	2-23-23	

<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
Laboratory ID:	02-248-03					
Calcium	<b>48000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>20000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>2500</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>15000</b>	1000	EPA 6010D	2-23-23	2-23-23	

<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
Laboratory ID:	02-248-04					
Calcium	<b>34000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>17000</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>1700</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>12000</b>	1000	EPA 6010D	2-23-23	2-23-23	

<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
Calcium	<b>9600</b>	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	<b>2100</b>	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	<b>4300</b>	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	<b>9700</b>	1000	EPA 6010D	2-23-23	2-23-23	



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**TOTAL METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>METHOD BLANK</b>						
Laboratory ID:	MB0223WH1					
Calcium	ND	1000	EPA 6010D	2-23-23	2-23-23	
Magnesium	ND	1000	EPA 6010D	2-23-23	2-23-23	
Potassium	ND	1000	EPA 6010D	2-23-23	2-23-23	
Sodium	ND	1000	EPA 6010D	2-23-23	2-23-23	

<b>Analyte</b>	<b>Result</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>Percent Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limit</b>	<b>Flags</b>
<b>DUPLICATE</b>								
Laboratory ID:	02-265-01							
	ORIG	DUP						
Calcium	39800	39600	NA	NA	NA	NA	0	20
Magnesium	11700	11700	NA	NA	NA	NA	1	20
Potassium	9740	9710	NA	NA	NA	NA	0	20
Sodium	29800	29700	NA	NA	NA	NA	0	20

**MATRIX SPIKES**

Laboratory ID:	02-265-01									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	98600	97600	20000	20000	79600	95	90	75-125	1	20
Magnesium	30700	30900	20000	20000	11700	95	96	75-125	1	20
Potassium	29400	29700	20000	20000	9740	98	100	75-125	1	20
Sodium	47500	48400	20000	20000	29800	89	93	75-125	2	20



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**DISSOLVED METALS  
 EPA 6010D**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
Iron	<b>7400</b>	56	EPA 6010D		2-28-23	
Manganese	<b>470</b>	11	EPA 6010D		2-28-23	

<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
Laboratory ID:	02-248-02					
Iron	<b>2900</b>	56	EPA 6010D		2-28-23	
Manganese	<b>520</b>	11	EPA 6010D		2-28-23	

<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
Laboratory ID:	02-248-03					
Iron	<b>ND</b>	56	EPA 6010D		2-28-23	
Manganese	<b>120</b>	11	EPA 6010D		2-28-23	

<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
Laboratory ID:	02-248-04					
Iron	<b>ND</b>	56	EPA 6010D		2-28-23	
Manganese	<b>63</b>	11	EPA 6010D		2-28-23	

<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
Iron	<b>1400</b>	56	EPA 6010D		2-28-23	
Manganese	<b>1100</b>	11	EPA 6010D		2-28-23	





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**DISSOLVED METALS  
 EPA 6010D  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0228D1					
Iron	ND	56	EPA 6010D		2-28-23	
Manganese	ND	11	EPA 6010D		2-28-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-240-03							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Manganese	161	158	NA	NA	NA	2	20	

**MATRIX SPIKES**

Laboratory ID:	02-240-03									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22200	21800	22200	22200	ND	100	98	75-125	2	20
Manganese	650	663	556	556	161	88	90	75-125	2	20



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**TOTAL ORGANIC CARBON  
 SM 5310B**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
Total Organic Carbon	<b>3.2</b>	1.0	SM 5310B	3-1-23	3-2-23	

<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
Laboratory ID:	02-248-02					
Total Organic Carbon	<b>1.9</b>	1.0	SM 5310B	3-1-23	3-2-23	

<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
Laboratory ID:	02-248-03					
Total Organic Carbon	<b>1.2</b>	1.0	SM 5310B	3-1-23	3-2-23	

<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
Laboratory ID:	02-248-04					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	3-1-23	3-2-23	

<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
Total Organic Carbon	<b>1.5</b>	1.0	SM 5310B	3-1-23	3-2-23	



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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
<b>METHOD BLANK</b>						
Laboratory ID:	MB0301W1					
Total Organic Carbon	<b>ND</b>	1.0	SM 5310B	3-1-23	3-1-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-240-01							
	ORIG	DUP						
Total Organic Carbon	<b>14.1</b>	<b>14.3</b>	NA	NA	NA	1	12	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-240-01							
	MS	MS		MS				
Total Organic Carbon	<b>24.5</b>	10.0	14.1	104	80-120	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0301W1							
	SB	SB		SB				
Total Organic Carbon	<b>9.85</b>	10.0	NA	99	80-118	NA	NA	



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**CHLORIDE**  
**SM 4500-Cl E**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
Chloride	<b>6.8</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
Laboratory ID:	02-248-02					
Chloride	<b>6.6</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
Laboratory ID:	02-248-03					
Chloride	<b>8.8</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
Laboratory ID:	02-248-04					
Chloride	<b>13</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	

<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
Chloride	<b>ND</b>	2.0	SM 4500-Cl E	2-22-23	2-22-23	



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**CHLORIDE  
 SM 4500-CI E  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0222W1					
Chloride	<b>ND</b>	2.0	SM 4500-CI E	2-22-23	2-22-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-207-01							
	ORIG	DUP						
Chloride	<b>2.76</b>	<b>2.95</b>	NA	NA	NA	7	11	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-207-01							
	MS	MS		MS				
Chloride	<b>50.0</b>	50.0	2.76	94	85-121	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0222W1							
	SB	SB		SB				
Chloride	<b>47.2</b>	50.0	NA	94	90-119	NA	NA	



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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	

<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
Laboratory ID:	02-248-02					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	

<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
Laboratory ID:	02-248-03					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	

<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
Laboratory ID:	02-248-04					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	

<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	



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**AMMONIA (as Nitrogen)**  
**SM 4500-NH<sub>3</sub> D**  
**QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0224W1					
Ammonia	<b>ND</b>	0.050	SM 4500-NH3 D	2-24-23	2-24-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-207-01							
	ORIG	DUP						
Ammonia	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	15	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-207-01							
	MS	MS		MS				
Ammonia	<b>4.44</b>	5.00	ND	89	87-110	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0224W1							
	SB	SB		SB				
Ammonia	<b>4.53</b>	5.00	NA	91	88-110	NA	NA	



Date of Report: March 16, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-248  
 Project: 82303-9.16

**SULFATE**  
**ASTM D516-11**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
Sulfate	<b>26</b>	10	ASTM D516-11	3-2-23	3-2-23	

<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
Laboratory ID:	02-248-02					
Sulfate	<b>15</b>	5.0	ASTM D516-11	3-2-23	3-2-23	

<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
Laboratory ID:	02-248-03					
Sulfate	<b>15</b>	5.0	ASTM D516-11	3-2-23	3-2-23	

<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
Laboratory ID:	02-248-04					
Sulfate	<b>21</b>	5.0	ASTM D516-11	3-2-23	3-2-23	

<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
Sulfate	<b>27</b>	10	ASTM D516-11	3-2-23	3-2-23	





Date of Report: March 16, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-248  
 Project: 82303-9.16

**SULFATE  
 ASTM D516-11  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0228W1					
Sulfate	<b>ND</b>	5.0	ASTM D516-11	3-2-23	3-2-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	02-240-05							
	ORIG	DUP						
Sulfate	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	10	

<b>MATRIX SPIKE</b>								
Laboratory ID:	02-240-05							
	MS	MS		MS				
Sulfate	<b>12.4</b>	10.0	ND	124	72-128	NA	NA	

<b>SPIKE BLANK</b>								
Laboratory ID:	SB0229W1							
	SB	SB		SB				
Sulfate	<b>9.34</b>	10.0	NA	93	85-114	NA	NA	



Date of Report: March 16, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-248  
 Project: 82303-9.16

**DISSOLVED GASES  
RSK 175**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>MW-7:W</b>					
Laboratory ID:	02-248-01					
Methane	<b>4600</b>	42	RSK 175	2-28-23	2-28-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-28-23	2-28-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-28-23	2-28-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	66	50-150				

<b>Client ID:</b>	<b>HZ-MW-14S:W</b>					
Laboratory ID:	02-248-02					
Methane	<b>7900</b>	66	RSK 175	2-28-23	2-28-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-28-23	2-28-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-28-23	2-28-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	69	50-150				

<b>Client ID:</b>	<b>HZ-MW-15D:W</b>					
Laboratory ID:	02-248-03					
Methane	<b>6500</b>	55	RSK 175	2-28-23	2-28-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-28-23	2-28-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-28-23	2-28-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	65	50-150				

<b>Client ID:</b>	<b>HZ-MW-26:W</b>					
Laboratory ID:	02-248-04					
Methane	<b>140</b>	1.1	RSK 175	2-28-23	2-28-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-28-23	2-28-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-28-23	2-28-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	73	50-150				

<b>Client ID:</b>	<b>MW-27:W</b>					
Laboratory ID:	02-248-05					
Methane	<b>2300</b>	17	RSK 175	2-28-23	2-28-23	
Ethane	<b>ND</b>	0.22	RSK 175	2-28-23	2-28-23	
Ethene	<b>ND</b>	0.29	RSK 175	2-28-23	2-28-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	79	50-150				



Date of Report: March 16, 2023  
 Samples Submitted: February 15, 2023  
 Laboratory Reference: 2302-248  
 Project: 82303-9.16

**DISSOLVED GASES  
 RSK 175  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>						
Laboratory ID:	MB0228W1					
Methane	ND	0.55	RSK 175	2-28-23	2-28-23	
Ethane	ND	0.22	RSK 175	2-28-23	2-28-23	
Ethene	ND	0.29	RSK 175	2-28-23	2-28-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
1-Butene	81	50-150				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANK</b>										
Laboratory ID:	SB0228W1									
	SB	SBD	SB	SBD	SB	SBD				
Methane	36.9	39.9	44.2	44.2	84	90	75-125	8	25	
Ethane	68.9	75.5	83.2	83.2	83	91	75-125	9	25	
Ethene	62.7	70.9	77.7	77.7	81	91	75-125	12	25	
<i>Surrogate:</i>										
1-Butene					74	86	50-150			





### 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.
  - X2 - Sample extract treated with a 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.
  - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference





**Analytical Resources, LLC**  
**Analytical Chemists and Consultants**  
**Tukwila, WA**

16 March 2023

David Baumeister  
 OnSite Environmental, Inc.  
 14648 NE 95th Street  
 Redmond, WA 98052

RE: 82303-9.16 (02-248)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)  
 23B0447

Associated SDG ID(s)  
 N/A

-----

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Shelly Fishel, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 02-248

Laboratory: Analytical Resources, Inc.

Turnaround Request

Project Manager: David Baumeister

Attention: Amanda Volgardsen

1 Day    2 Day    3 Day

email: [dbaumeister@onsite-env.com](mailto:dbaumeister@onsite-env.com)

Address: 4611 S 134th Pl, Ste. 100 Tukwila, WA 98168

Standard

Project Number: 82303-9.16

Phone Number: ( 206 ) 695-6200

Other: \_\_\_\_\_

Project Name: \_\_\_\_\_

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-7:W	2/21/23	9:50	W	1	Ferrous Iron
	HZ-MW-14S:W	2/21/23	10:00	W	1	Ferrous Iron
	HZ-MW-15D:W	2/21/23	11:15	W	1	Ferrous Iron
	HZ-MW-26:W	2/21/23	12:15	W	1	Ferrous Iron
	MW-27:W	2/21/23	13:40	W	1	Ferrous Iron

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: <i>[Signature]</i>	<i>[Signature]</i>	2/22/23	1008	
Received by: <i>[Signature]</i>	ALPHA	2/21/23	1008	
Relinquished by: <i>[Signature]</i>	ALPHA	2/21/23	1104	
Received by: <i>[Signature]</i>	AR IIC	02/22/23	11:04	
Relinquished by:				
Received by:				



OnSite Environmental, Inc.  
14648 NE 95th Street  
Redmond WA, 98052

Project: 82303-9.16  
Project Number: 02-248  
Project Manager: David Baumeister

**Reported:**  
16-Mar-2023 10:27

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7:W	23B0447-01	Water	21-Feb-2023 09:50	22-Feb-2023 11:04
HZ-MW-14S:W	23B0447-02	Water	21-Feb-2023 10:00	22-Feb-2023 11:04
HZ-MW-15D:W	23B0447-03	Water	21-Feb-2023 11:15	22-Feb-2023 11:04
HZ-MW-26:W	23B0447-04	Water	21-Feb-2023 12:15	22-Feb-2023 11:04
MW-27:W	23B0447-05	Water	21-Feb-2023 13:40	22-Feb-2023 11:04



OnSite Environmental, Inc.  
14648 NE 95th Street  
Redmond WA, 98052

Project: 82303-9.16  
Project Number: 02-248  
Project Manager: David Baumeister

**Reported:**  
16-Mar-2023 10:27

## Work Order Case Narrative

**Client:** OnSite Environmental, Inc.  
**Project:** 82303-9.16  
**Project Number:** 02-248  
**Work Order:** 23B0447

### Sample receipt

Sample(s) as listed on the preceding page were received 22-Feb-2023 11:04 under ARI work order 23B0447. For details regarding sample receipt, please refer to the Cooler Receipt Form.

### Wet Chemistry

The sample(s) were prepared and analyzed outside the recommended holding times. The holding time was exceeded upon sample receipt. The deviation has been flagged.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.





WORK ORDER

23B0447

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: OnSite Environmental, Inc.

Project Manager: Shelly Fishel

Project: 82303-9.16

Project Number: 82303-9.16

Report To:

OnSite Environmental, Inc.  
David Baumeister  
14648 NE 95th Street  
Redmond, WA 98052  
Phone: 425-883-3881  
Fax: -

Invoice To:

OnSite Environmental, Inc.  
David Baumeister  
14648 NE 95th Street  
Redmond, WA 98052  
Phone :425-883-3881  
Fax: -

Date Due: 08-Mar-2023 18:00 (10 day TAT)

Received By: Truett Smith

Date Received: 22-Feb-2023 11:04

Logged In By: Jacob Walter

Date Logged In: 22-Feb-2023 11:43

Samples Received at 1.6°C

Intact, properly signed and dated custody seals attached to outside of coolers).....No	Custody papers included with the cooler.....	Yes
Custody papers properly filled out(in, signed, analyses requested etc).....Yes	Was a temperature blank included in the cooler.....	No
Was sufficient ice used (if appropriate).....Yes	All bottles sealed in individual plastic bags.....	No
All bottles arrived in good condition(unbroken).....Yes	All bottle labels complete and legible.....	Yes
Number of containers listed on COC match number received.....Yes	Bottle labels and tags agree with COC.....	Yes
Correct bottles used for the requested analyses.....Yes	All VOC vials free of air bubbles.....	No
Analyses/bottles require preservation(attach preservation sheet excluding VOC).....Yes	Sufficient amount of sample sent in each bottle.....	Yes
Sample split at ARL.....No		

23B0447-01 MW-7:W [Water] Sampled 21-Feb-2023 09:50

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

23B0447-02 HZ-MW-14S:W [Water] Sampled 21-Feb-2023 10:00

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

23B0447-03 HZ-MW-15D:W [Water] Sampled 21-Feb-2023 11:15

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

23B0447-04 HZ-MW-26:W [Water] Sampled 21-Feb-2023 12:15

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

23B0447-05 MW-27:W [Water] Sampled 21-Feb-2023 13:40

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

Preservation Confirmation

Container ID	Container Type	pH
23B0447-01 A	Glass NM, Amber, 500 mL, HCl	①
23B0447-02 A	Glass NM, Amber, 500 mL, HCl	①
23B0447-03 A	Glass NM, Amber, 500 mL, HCl	①
23B0447-04 A	Glass NM, Amber, 500 mL, HCl	①
23B0447-05 A	Glass NM, Amber, 500 mL, HCl	①

*JL*  
Preservation Confirmed By

*2/22/23*  
Date

① Lab to verify pH prior to analysis

Reviewed By

Date



# Cooler Receipt Form

ARI Client: onsite Env  
 COC No(s): \_\_\_\_\_ NA  
 Assigned ARI Job No: 2350447

Project Name: 82303-9.16  
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: \_\_\_\_\_  
 Tracking No: \_\_\_\_\_ NA

**Preliminary Examination Phase:**

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES  NO  
 Were custody papers included with the cooler? ..... YES  NO  
 Were custody papers properly filled out (ink, signed, etc.) ..... YES  NO  
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 11:06 1.6  
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 2007109

Cooler Accepted by: [Signature] Date: 2/22/23 Time: 11:04

**Complete custody forms and attach all shipping documents**

**Log-In Phase:**

Was a temperature blank included in the cooler? ..... YES  NO  
 What kind of packing material was used? ... Bubble Wrap  Wet Ice/Gel Packs Baggies Foam Block Paper Other: \_\_\_\_\_  
 Was sufficient ice used (if appropriate)? ..... NA  YES  NO  
 How were bottles sealed in plastic bags? ..... Individually  Grouped  Not  
 Did all bottles arrive in good condition (unbroken)? .....  YES  NO  
 Were all bottle labels complete and legible? .....  YES  NO  
 Did the number of containers listed on COC match with the number of containers received? .....  YES  NO  
 Did all bottle labels and tags agree with custody papers? .....  YES  NO  
 Were all bottles used correct for the requested analyses? .....  YES  NO  
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA  YES  NO  
 Were all VOC vials free of air bubbles? .....  NA  YES  NO  
 Was sufficient amount of sample sent in each bottle? .....  YES  NO  
 Date VOC Trip Blank was made at ARI .....  NA  
 Were the sample(s) split by ARI?  NA YES Date/Time: \_\_\_\_\_ Equipment: \_\_\_\_\_ Split by: \_\_\_\_\_

Samples Logged by: JS Date: 2/22/23 Time: 1142 Labels checked by: JS

**\*\* Notify Project Manager of discrepancies or concerns \*\***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

**Additional Notes, Discrepancies, & Resolutions:**

By: \_\_\_\_\_ Date: \_\_\_\_\_



WORK ORDER

23B0447

Samples will be discarded 90 days after submission of a final report unless other instructions are received

Client: OnSite Environmental, Inc.

Project Manager: Shelly Fishel

Project: 82303-9.16

Project Number: 82303-9.16

Report To:

OnSite Environmental, Inc.  
David Baumeister  
14648 NE 95th Street  
Redmond, WA 98052  
Phone: 425-883-3881  
Fax: -

Invoice To:

OnSite Environmental, Inc.  
David Baumeister  
14648 NE 95th Street  
Redmond, WA 98052  
Phone :425-883-3881  
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Date Due: 08-Mar-2023 18:00 (10 day TAT)

Received By: Truett Smith

Date Received: 22-Feb-2023 11:04

Logged In By: Jacob Walter

Date Logged In: 22-Feb-2023 11:43

Samples Received at 1.6°C

Intact, properly signed and dated custody seals attached to outside of coolers).....No	Custody papers included with the cooler.....	Yes
Custody papers properly filled out (in. signed. analyses requested etc).....Yes	Was a temperature blank included in the cooler.....	No
Was sufficient ice used (if appropriate).....Yes	All bottles sealed in individual plastic bags.....	No
All bottles arrived in good condition (unbroken).....Yes	All bottle labels complete and legible.....	Yes
Number of containers listed on COC match number received.....Yes	Bottle labels and tags agree with COC.....	Yes
Correct bottles used for the requested analyses.....Yes	All VOC vials free of air bubbles.....	No
Analyses/bottles require preservation (attach preservation sheet excluding VOC).....Yes	Sufficient amount of sample sent in each bottle.....	Yes
Sample split at ARL.....No		

23B0447-01 MW-7:W [Water] Sampled 21-Feb-2023 09:50

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

23B0447-02 HZ-MW-14S:W [Water] Sampled 21-Feb-2023 10:00

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

23B0447-03 HZ-MW-15D:W [Water] Sampled 21-Feb-2023 11:15

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

23B0447-04 HZ-MW-26:W [Water] Sampled 21-Feb-2023 12:15

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

23B0447-05 MW-27:W [Water] Sampled 21-Feb-2023 13:40

Iron, Ferrous SM 3500-Fe B-97 03/08/2023 10 2/22/2023

Preservation Confirmation

Container ID	Container Type	pH
23B0447-01 A	Glass NM, Amber, 500 mL, HCl	①
23B0447-02 A	Glass NM, Amber, 500 mL, HCl	①
23B0447-03 A	Glass NM, Amber, 500 mL, HCl	①
23B0447-04 A	Glass NM, Amber, 500 mL, HCl	①
23B0447-05 A	Glass NM, Amber, 500 mL, HCl	①

*All samples < 2.0 pH and No Head space*  
2/22/23  
19.17  
CW

      
Preservation Confirmed By

      
Date

      
Reviewed By

      
Date

① Lab to verify pH prior to analysis



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-248 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:27
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**MW-7:W**  
**23B0447-01RE1 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/21/2023 09:50  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/22/2023 20:06

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0447-01RE1 A  
Preparation Batch: BLB0588 Sample Size: 5 mL  
Prepared: 02/22/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		5	0.200	0.200	8.81	mg/L	H, D



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-248 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:27
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**HZ-MW-14S:W**  
**23B0447-02RE1 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/21/2023 10:00  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/22/2023 20:07

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0447-02RE1 A  
Preparation Batch: BLB0588 Sample Size: 5 mL  
Prepared: 02/22/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		2	0.080	0.080	3.58	mg/L	H, D



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-248 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:27
-------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------

**HZ-MW-15D:W**  
**23B0447-03 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/21/2023 11:15  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/22/2023 19:49

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0447-03 A  
Preparation Batch: BLB0588 Sample Size: 5 mL  
Prepared: 02/22/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		1	0.040	0.040	ND	mg/L	H, U



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-248 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:27
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**HZ-MW-26:W**  
**23B0447-04 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/21/2023 12:15  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/22/2023 19:50

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0447-04 A  
Preparation Batch: BLB0588 Sample Size: 5 mL  
Prepared: 02/22/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		1	0.040	0.040	ND	mg/L	H, U



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-248 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:27
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**MW-27:W**  
**23B0447-05 (Water)**

**Wet Chemistry**

Method: SM 3500-Fe B-97 Sampled: 02/21/2023 13:40  
Instrument: UV1800-2 Analyst: CDE Analyzed: 02/22/2023 19:50

**Analysis by: Analytical Resources, LLC**

Sample Preparation: Preparation Method: SM 3500-Fe B Extract ID: 23B0447-05 A  
Preparation Batch: BLB0588 Sample Size: 5 mL  
Prepared: 02/22/2023 Final Volume: 5 mL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Ferrous Iron		1	0.040	0.040	0.785	mg/L	H





OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-248 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:27
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**Analysis by: Analytical Resources, LLC**

**Wet Chemistry - Quality Control**

**Batch BLB0588 - SM 3500-Fe B-97**

Instrument: UV1800-2 Analyst: CDE

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Blank (BLB0588-BLK1)</b>						Prepared: 22-Feb-2023 Analyzed: 22-Feb-2023 19:46					
Ferrous Iron	ND	0.040	0.040	mg/L							U
<b>LCS (BLB0588-BS1)</b>						Prepared: 22-Feb-2023 Analyzed: 22-Feb-2023 19:47					
Ferrous Iron	0.493	0.040	0.040	mg/L	0.510		96.7	90-110			
<b>Duplicate (BLB0588-DUP1)</b>						Source: 23B0447-01RE1 Prepared: 22-Feb-2023 Analyzed: 22-Feb-2023 20:07					
Ferrous Iron	9.24	0.400	0.400	mg/L		8.81			4.76	20	H, D
<b>Matrix Spike (BLB0588-MS1)</b>						Source: 23B0447-01RE1 Prepared: 22-Feb-2023 Analyzed: 22-Feb-2023 20:08					
Ferrous Iron	9.75	0.400	0.400	mg/L	0.816	8.81	115	75-125			H, D

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



OnSite Environmental, Inc. 14648 NE 95th Street Redmond WA, 98052	Project: 82303-9.16 Project Number: 02-248 Project Manager: David Baumeister	<b>Reported:</b> 16-Mar-2023 10:27
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**Certified Analyses included in this Report**

Analyte	Certifications
<b>SM 3500-Fe B-97 in Water</b>	
Ferrous Iron	WADOE,NELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023



OnSite Environmental, Inc.  
14648 NE 95th Street  
Redmond WA, 98052

Project: 82303-9.16  
Project Number: 02-248  
Project Manager: David Baumeister

**Reported:**  
16-Mar-2023 10:27

**Notes and Definitions**

- D The reported value is from a dilution
- H Hold time violation - Hold time was exceeded.
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



Am Test Inc.  
13600 NE 126TH PL  
Suite C  
Kirkland, WA 98034  
(425) 885-1664

Professional  
Analytical  
Services

Mar 6 2023  
On-Site Environmental  
14648 NE 95th ST  
Redmond, WA 98052  
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
MW-7:W	Water	23-A003274	CONV
HZ-MW-14S:W	Water	23-A003275	CONV
HZ-MW-15D:W	Water	23-A003276	CONV
HZ-MW-26:W	Water	23-A003277	CONV
MW-27:W	Water	23-A003278	CONV

Your samples were received on Wednesday, February 22, 2023. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

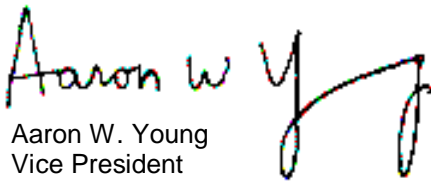
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

  
Aaron W. Young  
Vice President

Project #: 82303-9.16  
SDG #: 2328380  
PO Number: 02-248

BACT = Bacteriological  
CONV = Conventionals

MET = Metals  
ORG = Organics

NUT=Nutrients  
DEM=Demand

MIN=Minerals

Am Test Inc.  
13600 NE 126TH PL  
Suite C  
Kirkland, WA 98034  
(425) 885-1664  
www.amtestlab.com



Professional  
Analytical  
Services

## ANALYSIS REPORT

On-Site Environmental  
14648 NE 95th ST  
Redmond, WA 98052  
Attention: David Baumeister  
SDG Number: 2328380  
Project #: 82303-9.16  
PO Number: 02-248  
All results reported on an as received basis.

Date Received: 02/22/23  
Date Reported: 3/ 6/23

---

AMTEST Identification Number      23-A003274  
Client Identification                MW-7:W  
Sampling Date                        02/21/23, 09:50

### Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	< 0.05	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

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AMTEST Identification Number      23-A003275  
Client Identification                HZ-MW-14S:W  
Sampling Date                        02/21/23, 10:00

### Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	< 0.05	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

On-Site Environmental  
Project Name:  
AmTest ID: 23-A003276

**AMTEST Identification Number** 23-A003276  
**Client Identification** HZ-MW-15D:W  
**Sampling Date** 02/21/23, 11:15

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	< 0.05	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

**AMTEST Identification Number** 23-A003277  
**Client Identification** HZ-MW-26:W  
**Sampling Date** 02/21/23, 12:15

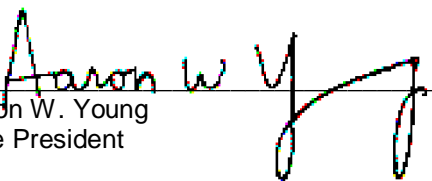
**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	< 0.05	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

**AMTEST Identification Number** 23-A003278  
**Client Identification** MW-27:W  
**Sampling Date** 02/21/23, 13:40

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Sulfide	< 0.05	mg/l		0.05	SM 4500-S2-D	FG	02/24/23

  
Aaron W. Young  
Vice President

**QC Summary for sample numbers: 23-A003274 to 23-A003278**

**MATRIX SPIKES**

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
23-A003030	Total Sulfide	mg/l	< 0.05	0.23	0.25	92.00 %
23-A003030	Total Sulfide	mg/l	< 0.05	0.22	0.25	88.00 %
23-A003030	Total Sulfide	mg/l	< 0.05	0.29	0.25	116.00 %
23-A003030	Total Sulfide	mg/l	< 0.05	0.28	0.25	112.00 %
23-A003278	Total Sulfide	mg/l	< 0.05	0.29	0.25	116.00 %
23-A003278	Total Sulfide	mg/l	< 0.05	0.29	0.25	116.00 %

**MATRIX SPIKE DUPLICATES**

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Total Sulfide	mg/l	0.23	0.22	4.4
Spike	Total Sulfide	mg/l	0.29	0.28	3.5
Spike	Total Sulfide	mg/l	0.29	0.29	0.00

**STANDARD REFERENCE MATERIALS**

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Total Sulfide	mg/l	0.50	0.57	114. %

**BLANKS**

ANALYTE	UNITS	RESULT
Total Sulfide	mg/l	< 0.05



14648 NE 96th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

Laboratory Reference #: 02-248

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 82303-9.16

Project Name:

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses	Comments/Special Instructions
3274	MW-7:W	2/21/23	9:50	W	1	Sulfide	
3275	HZ-MW-14S:W	2/21/23	10:00	W	1	Sulfide	
3276	HZ-MW-15D:W	2/21/23	11:15	W	1	Sulfide	
3277	HZ-MW-26:W	2/21/23	12:15	W	1	Sulfide	
3278	MW-27:W	2/21/23	13:40	W	1	Sulfide	
Relinquished by: <i>Shaunhamy</i>						Date	Time
Received by: <i>KH</i>						2-21-23	1625
Relinquished by:						2/21/23	1625
Received by:							
Relinquished by:							
Received by:							
<b>EDDS</b>							

T = 9.4°C





**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

Turnaround Request  
(in working days)

(Check One)

Same Day       1 Day

2 Days       3 Days

Standard (7 Days)

\_\_\_\_\_ (other)

Laboratory Number:

**02-248**

Company: **Kaine Environmental**  
Project Number: **82303-9.16**  
Project Name: **BSCSS**  
Project Manager: **JEFF JENSEN**  
Sampled by: **EMMY KANE**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	MW-7:W	2/21/23	0950	GW
2	H2-MW-14S:W		1000	GW
3	H2-MW-15D:W		1115	GW
4	H2-MW-20:W		1215	GW
5	MW-27:W		1340	GW

Number of Containers		Date	Time	Comments/Special Instructions
NWTPH-HCID				
NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/> )				
NWTPH-Gx				
NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/> )				
Volatiles 8260				
Halogenated Volatiles 8260				
EDB EPA 8011 (Waters Only)				
Semivolatiles 8270/SIM (with low-level PAHs)				
PAHs 8270/SIM (low-level)				
PCBs 8082				
Organochlorine Pesticides 8081				
Organophosphorus Pesticides 8270/SIM				
Chlorinated Acid Herbicides 8151				
Total RCRA Metals				
Total MTOA Metals				
TCEP Metals				
HEM (oil and grease) 1664				
Dissolved Iron and Manganese				
TOC				
chloride				
Ammonia				
sulfate				
% Moisture				

Signature	Company	Date	Time	Comments/Special Instructions
	Kaine Env.	2/21/23	1400	Field filtered dissolved iron
	Kane	2/21/23	1400	RSK = methane, ethane, ethene
	Kane	2/21/23	1525	US10W detection limit (3-4 mg/L)
	Kane	2/20/23	1525	Cations = Sodium, Potassium, Calcium, Magnesium
	Kane			low detection limit for VC
	Kane			Data Package: Standard <input checked="" type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
	Kane			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>