



April 9, 2021

**827.001.47**

Washington State Department of Ecology  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue SE  
Bellevue, Washington 98008-5452

Attention: Mr. Hideo Fujita

**CLEANUP PROGRESS REPORT, FIRST QUARTER 2021  
BSB PROPERTY, KENT, WASHINGTON  
CONSENT DECREE No. 11-2-27288-5**

Dear Mr. Fujita:

On behalf of B.S.B. Diversified Company, Inc. (BSB), PES Environmental, Inc. (PES) is submitting this quarterly progress report for the cleanup action at the BSB property located at 8202 South 200<sup>th</sup> Street in Kent, Washington. The cleanup action is being implemented pursuant to the requirements of Consent Decree No. 11-2-27288-5 issued by the State of Washington Department of Ecology (Ecology), effective August 8, 2011.

This cleanup progress report, which is being submitted consistent with Section XI of the CD, covers the period of January 1 through March 31, 2021. This progress report includes discussions of: (1) a list of activities that took place during the reporting period, (2) a description of any deviations from the required tasks not already documented in project plans or reports, (3) any deviations from the cleanup action plan during the reporting period or planned deviations during the upcoming reporting period, (4) a plan for recovering any time lost due to schedule deviations, (5) all raw data received during the reporting period with the sample source identified, and (6) a list of deliverables for the upcoming reporting period if different from the schedule.

**ACTIVITIES CONDUCTED DURING THE REPORTING PERIOD**

During the first quarter of 2021, BSB conducted the following work:

- Pumped water from the vault through the air stripper treatment system to the sewer throughout the quarter. The system was pumped at an average rate of 1.66 gallons per minute (gpm) in January, 2.17 gpm in February, and 1.97 gpm in March, for an average pumping rate of 1.93 gpm for the quarter. A total of 249,610 gallons of water was discharged to the sewer during the quarter;
- Conducted periodic monitoring and maintenance of the pumping and treatment systems;

- Monitored groundwater levels in all piezometers and monitoring wells consistent with the Compliance Monitoring Plan<sup>1</sup> (as modified by the frequency reduction approved by Ecology<sup>2</sup>) on March 8; and,
- Collected discharge monitoring samples consistent with BSB's King County Industrial Waste (KCIW) permit on January 18 and submitted the samples to Fremont Analytical in Seattle for halogenated volatile organic compound (HVOC) analysis.

#### **DEVIATIONS FROM REQUIRED TASKS NOT ALREADY REPORTED**

No unreported deviations from required tasks occurred during the reporting period.

#### **DEVIATIONS FROM CLEANUP ACTION PLAN**

No deviations from the cleanup action plan occurred during the reporting period.

#### **DEVIATIONS FROM THE SCHEDULE**

No deviations from the schedule provided in the cleanup action plan occurred during the reporting period.

#### **RAW DATA RECEIVED DURING THE REPORTING PERIOD**

Attached are two tables summarizing the monthly vault data (Table 1) and the groundwater elevation data in paired shallow and intermediate monitoring points across the soil-bentonite cutoff wall (Table 2). Attachment A provides the March groundwater quality data and data validation review memorandum for Compliance Monitoring Plan monitoring wells. The data generated during the monthly discharge monitoring under BSB's KCIW permit are not included since they have already been transmitted to Ecology.

#### **DELIVERABLES PROJECTED DURING THE UPCOMING REPORTING PERIOD**

No deliverables are planned for the second quarter of 2021.

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<sup>1</sup> PES Environmental, Inc. 2015. *Compliance Monitoring Plan, Shallow Aquifer Cleanup Action, BSB Property, Kent, Washington*. Submitted on behalf of B.S.B. Diversified Company, Inc., to the Washington State Department of Ecology. December 18.

<sup>2</sup> PES Environmental, Inc. 2017. *Cleanup Progress Report, BSB Property, Kent, Washington, Consent Decree No. 11-2-27288-5*. Submitted on behalf of B.S.B. Diversified Company, Inc., to the Washington State Department of Ecology. January 19.

**Mr. Hideo Fujita**  
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**PES Environmental, Inc.**

If you have any questions or comments, please call me at (206) 529-3980.

Sincerely,

**PES ENVIRONMENTAL, INC.**

*William R. Haldeman*



William R. Haldeman

William R. Haldeman, LHG, R.G.  
Associate Hydrogeologist

Attachments: Table 1 – Monthly Summary of Vault Area Data  
Table 2 – Summary of Groundwater Elevations in Paired Monitoring Points  
Attachment A – March 2021 Analytical Laboratory Report and Data Validation  
Memorandum

cc: John FitzSimons, B.S.B. Diversified Company, Inc.  
Ronald Burt, Burt Geology & Environmental Applications, PLLC  
Paul Beveridge, BeveridgeLaw, PS  
David DiBoyan, Hexcel Corporation

Table 1

**Monthly Summary of Vault Area Data  
BSB Property, Kent, Washington**

Month	Average Groundwater Elevation (feet)								Groundwater Extraction		SeaTac Airport Precipitation (inches)
	Shallow Wells			Intermediate Wells			Inside Vault		Monthly Totals (gallons)	Monthly Average Rate (gpm)	
	Inside P-1	Outside P-3	$\Delta$ H	Inside P-2	Outside P-4	$\Delta$ H	Cell 6 P-5	Cell 1 P-6			
April 2012	24.95	23.04	-1.91	25.36	22.59	-2.77	21.34	-	102,629	2.38	2.68
May 2012	21.14	22.40	1.26	22.65	21.61	-1.04	18.13	-	155,907	3.49	2.05
June 2012	20.30	22.41	2.11	21.80	21.60	-0.20	17.09	-	112,027	2.59	2.96
July 2012	19.74	21.68	1.94	21.12	21.19	0.07	17.25	-	104,169	2.33	1.04
August 2012	19.61	20.84	1.23	20.75	20.57	-0.17	17.42	-	75,009	1.68	0.00
September 2012	19.53	20.24	0.71	20.47	20.21	-0.26	17.65	-	53,519	1.24	0.03
October 2012	20.09	20.88	0.78	20.70	20.49	-0.21	18.59	-	38,014	0.85	6.71
November 2012	22.65	22.64	-0.01	22.84	21.71	-1.13	21.19	-	39,130	0.91	8.28
December 2012	24.81	23.14	-1.68	24.81	22.28	-2.53	21.87	-	52,135	1.17	6.85
<b>2012</b>	<b>21.43</b>	<b>21.92</b>	<b>0.49</b>	<b>22.28</b>	<b>21.36</b>	<b>-0.92</b>	<b>18.95</b>	<b>-</b>	<b>732,539</b>	<b>1.85</b>	<b>30.60</b>
January 2013	24.18	22.79	-1.39	24.58	22.09	-2.49	19.05	-	91,196	2.04	4.16
February 2013	23.14	22.50	-0.64	23.90	21.84	-2.06	16.79	19.49	99,665	2.47	1.58
March 2013	21.39	22.55	1.16	22.62	21.75	-0.87	16.99	18.56	116,507	2.61	2.74
April 2013	22.01	22.85	0.84	23.04	22.08	-0.96	17.01	19.84	101,804	2.36	5.89
May 2013	21.68	22.17	0.49	22.72	21.60	-1.13	18.95	19.96	76,717	1.72	2.38
June 2013	21.20	21.61	0.42	22.34	21.09	-1.25	16.03	19.27	94,440	2.19	1.30
July 2013	20.51	20.88	0.36	21.56	20.65	-0.90	16.51	18.61	68,125	1.53	0.00
August 2013	20.04	20.41	0.37	21.05	20.28	-0.77	17.16	18.71	65,936	1.48	1.35
September 2013	19.69	21.21	1.52	20.68	20.69	0.01	17.36	18.24	53,781	1.24	6.17
October 2013	20.38	21.83	1.46	21.18	21.20	0.02	18.11	19.07	41,790	0.94	1.54
November 2013	20.76	21.75	1.00	21.48	21.16	-0.32	19.14	19.63	40,384	0.93	3.79
December 2013	20.93	21.59	0.66	21.67	21.04	-0.63	19.51	19.79	44,459	1.00	1.66
<b>2013</b>	<b>21.33</b>	<b>21.84</b>	<b>0.52</b>	<b>22.24</b>	<b>21.29</b>	<b>-0.95</b>	<b>17.72</b>	<b>19.20</b>	<b>894,804</b>	<b>1.70</b>	<b>32.56</b>
January 2014	21.62	21.90	0.28	22.37	21.27	-1.10	20.04	20.39	51,451	1.15	3.70
February 2014	21.81	22.64	0.83	22.77	21.85	-0.92	20.22	20.18	60,139	1.49	6.11
March 2014	23.58	23.44	-0.15	24.39	22.55	-1.83	21.28	22.01	65,695	1.47	9.44
April 2014	23.94	23.07	-0.87	24.65	22.27	-2.38	22.24	22.52	58,332	1.35	4.18
May 2014	23.87	22.74	-1.13	24.65	22.06	-2.59	22.78	22.43	67,228	1.51	3.15
June 2014	21.83	21.74	-0.09	22.98	21.28	-1.70	21.84	20.08	94,124	2.18	0.73
July 2014	19.98	21.03	1.05	21.37	20.77	-0.61	19.53	18.14	86,821	1.94	0.77
August 2014	19.56	20.84	1.28	20.82	20.59	-0.23	19.00	17.89	72,250	1.62	1.81
September 2014	19.41	20.85	1.44	20.45	20.37	-0.08	18.78	17.84	58,205	1.35	2.23
October 2014	19.59	21.51	1.93	20.50	20.81	0.31	18.75	18.07	55,553	1.24	6.75
November 2014	20.21	22.43	2.22	21.14	21.65	0.52	18.88	18.11	73,872	1.71	4.84
December 2014	20.36	22.88	2.52	21.45	22.16	0.71	18.90	17.93	91,238	2.04	4.79
<b>2014</b>	<b>21.31</b>	<b>22.09</b>	<b>0.78</b>	<b>22.29</b>	<b>21.47</b>	<b>-0.82</b>	<b>20.19</b>	<b>19.63</b>	<b>834,908</b>	<b>1.59</b>	<b>48.50</b>
January 2015	20.45	22.95	2.51	21.68	22.29	0.60	18.86	18.02	91,055	2.04	3.66
February 2015	20.39	23.19	2.80	21.82	22.45	0.64	18.87	17.86	93,948	2.33	5.27
March 2015	20.33	23.04	2.71	21.70	22.29	0.59	18.64	17.99	104,656	2.34	4.47
April 2015	20.08	22.75	2.67	21.60	22.09	0.49	18.40	17.85	103,400	2.39	2.03
May 2015	19.66	21.82	2.16	21.11	21.48	0.37	18.17	17.85	87,746	1.97	0.58
June 2015	19.43	21.05	1.62	20.69	20.89	0.20	18.03	17.83	71,754	1.66	0.23
July 2015	19.29	20.37	1.08	20.36	20.27	-0.09	17.96	17.78	62,364	1.40	0.09
August 2015	19.14	20.14	1.00	20.08	19.98	-0.10	17.96	17.76	53,726	1.20	3.28
September 2015	19.08	20.61	1.53	19.93	20.18	0.26	18.01	17.78	46,710	1.08	0.83
October 2015	19.03	20.98	1.95	19.84	20.39	0.55	18.04	17.76	44,053	0.99	4.81
November 2015	19.47	22.40	2.93	20.33	21.59	1.26	18.25	17.79	59,260	1.37	8.37

Table 1

**Monthly Summary of Vault Area Data  
BSB Property, Kent, Washington**

Month	Average Groundwater Elevation (feet)						Groundwater Extraction		SeaTac Airport Precipitation (inches)		
	Shallow Wells			Intermediate Wells			Inside Vault			Monthly Totals (gallons)	Monthly Average Rate (gpm)
	Inside P-1	Outside P-3	ΔH	Inside P-2	Outside P-4	ΔH	Cell 6 P-5	Cell 1 P-6			
December 2015	20.06	23.35	3.30	21.18	22.64	1.46	18.47	17.85	85,791	1.92	11.21
<b>2015</b>	<b>19.70</b>	<b>21.89</b>	<b>2.19</b>	<b>20.86</b>	<b>21.38</b>	<b>0.52</b>	<b>18.31</b>	<b>17.84</b>	<b>904,463</b>	<b>1.72</b>	<b>44.83</b>
January 2016	20.33	23.33	3.00	21.58	22.69	1.11	18.58	17.93	91,064	2.04	7.45
February 2016	20.52	23.52	3.01	21.95	22.89	0.95	18.56	18.17	92,097	2.21	5.97
March 2016	20.41	23.61	3.21	22.03	23.02	0.99	18.05	17.80	91,359	2.05	5.52
April 2016	20.03	22.65	2.62	21.56	22.33	0.77	18.12	17.92	92,238	2.14	1.19
May 2016	19.63	21.92	2.28	21.01	22.03	1.02	18.08	17.86	77,419	1.73	0.94
June 2016	19.56	21.63	2.07	20.77	21.23	0.46	18.07	17.95	63,280	1.46	1.77
July 2016	19.43	21.36	1.93	20.56	20.89	0.33	18.07	17.85	64,599	1.45	0.72
August 2016	19.32	20.59	1.27	20.34	20.33	-0.01	18.06	17.88	58,816	1.32	0.17
September 2016	19.08	20.61	1.53	19.93	20.18	0.26	18.01	17.78	50,751	1.17	1.05
October 2016	19.37	21.81	2.44	20.27	20.96	0.69	18.10	17.93	57,985	1.30	10.05
November 2016	19.95	22.97	3.02	21.06	22.13	1.07	18.32	18.20	73,164	1.69	6.48
December 2016	20.13	23.12	2.99	21.34	22.29	0.95	18.44	18.12	90,373	2.03	3.87
<b>2016</b>	<b>19.81</b>	<b>22.26</b>	<b>2.45</b>	<b>21.03</b>	<b>21.75</b>	<b>0.72</b>	<b>18.21</b>	<b>17.95</b>	<b>903,145</b>	<b>1.71</b>	<b>45.18</b>
January 2017	20.23	23.08	2.85	21.54	22.40	0.86	18.48	18.07	92,992	2.08	4.22
February 2017	20.89	23.96	3.07	22.36	23.02	0.66	18.54	18.48	129,374	3.21	8.85
March 2017	20.84	23.81	2.97	22.57	23.10	0.53	17.96	17.90	115,878	2.60	7.31
April 2017	20.89	23.58	2.69	22.73	22.92	0.19	18.07	17.99	141,476	3.27	4.21
May 2017	20.64	23.18	2.53	22.53	22.63	0.10	18.15	17.98	126,185	2.83	2.28
June 2017	20.03	22.38	2.36	21.73	22.00	0.27	18.15	17.99	90,434	2.09	1.52
July 2017	19.74	21.32	1.58	21.18	21.29	0.10	18.14	18.12	70,849	1.59	0.00
August 2017	20.03	20.75	0.72	21.11	20.78	-0.32	18.25	18.87	46,350	1.04	0.02
September 2017	19.87	20.73	0.86	20.85	20.56	-0.29	18.51	18.79	43,435	1.01	0.61
October 2017	19.72	21.34	1.62	20.58	20.79	0.21	18.57	18.52	45,017	1.01	4.80
November 2017	21.02	22.70	1.68	21.63	21.88	0.25	19.87	19.92	29,036	0.67	8.63
December 2017	21.11	22.98	1.87	22.04	22.30	0.27	19.79	19.88	62,616	1.40	5.43
<b>2017</b>	<b>20.42</b>	<b>22.48</b>	<b>2.07</b>	<b>21.74</b>	<b>21.97</b>	<b>0.24</b>	<b>18.54</b>	<b>18.54</b>	<b>993,642</b>	<b>1.89</b>	<b>47.88</b>
January 2018	22.57	23.61	1.04	23.19	22.86	-0.33	20.85	21.74	32,062	0.72	8.12
February 2018	22.99	23.35	0.36	23.78	22.71	-1.06	21.92	22.00	48,222	1.20	2.16
March 2018	21.68	22.97	1.29	23.00	22.26	-0.73	21.26	19.91	108,566	2.43	2.44
April 2018	20.48	23.26	2.78	22.21	22.51	0.30	18.48	18.25	109,415	2.53	5.69
May 2018	19.87	22.22	2.35	21.56	21.85	0.30	18.14	17.98	88,365	1.98	0.12
June 2018	19.58	21.53	1.96	21.00	21.25	0.26	18.04	18.02	65,272	1.51	0.63
July 2018	19.59	20.91	1.32	20.79	20.76	-0.03	18.10	18.36	50,594	1.13	0.05
August 2018	19.84	20.42	0.58	20.77	20.38	-0.39	18.18	18.98	33,061	0.74	0.20
September 2018	19.66	20.48	0.83	20.61	20.29	-0.32	18.58	18.62	52,057	1.21	1.04
October 2018	19.03	21.14	2.11	20.08	20.59	0.50	18.59	17.82	52,455	1.18	3.78
November 2018	19.12	21.85	2.73	20.19	21.17	0.98	18.66	17.87	47,830	1.11	5.42
December 2018	20.10	22.73	2.62	20.99	21.87	0.89	18.79	19.01	39,334	0.88	6.08
<b>2018</b>	<b>20.37</b>	<b>22.04</b>	<b>1.66</b>	<b>21.51</b>	<b>21.54</b>	<b>0.03</b>	<b>19.13</b>	<b>19.05</b>	<b>727,233</b>	<b>1.51</b>	<b>35.73</b>
January 2019	21.14	23.04	1.91	22.09	22.37	0.28	19.76	20.05	53,727	1.20	3.83
February 2019	22.13	23.45	1.32	22.87	22.65	-0.21	20.48	20.97	72,183	1.79	4.62
March 2019	20.27	22.69	2.42	21.84	22.11	0.27	19.04	18.21	113,941	2.55	1.37
April 2019	20.19	22.84	2.65	21.66	22.02	0.36	18.16	18.21	87,742	2.03	3.53
May 2019	19.78	21.97	2.19	21.32	21.48	0.16	18.16	17.94	84,096	1.88	0.62
June 2019	20.71	21.35	0.64	21.56	20.98	-0.57	18.33	19.76	30,719	0.71	0.90

Table 1

**Monthly Summary of Vault Area Data  
BSB Property, Kent, Washington**

Month	Average Groundwater Elevation (feet)						Groundwater Extraction		SeaTac Airport Precipitation (inches)		
	Shallow Wells			Intermediate Wells			Inside Vault			Monthly Totals (gallons)	Monthly Average Rate (gpm)
	Inside P-1	Outside P-3	$\Delta$ H	Inside P-2	Outside P-4	$\Delta$ H	Cell 6 P-5	Cell 1 P-6			
July 2019	20.24	21.17	0.93	21.38	20.78	-0.60	18.86	18.89	63,230	1.42	1.15
August 2019	19.58	20.71	1.13	20.75	20.46	-0.29	18.82	18.20	55,797	1.25	1.20
September 2019	19.46	21.66	2.19	20.60	20.90	0.30	18.82	18.07	53,049	1.23	3.32
October 2019	19.54	21.94	2.40	20.63	21.20	0.57	18.85	18.02	58,116	1.30	3.67
November 2019	19.58	21.92	2.34	20.76	21.32	0.55	18.89	18.09	60,461	1.40	1.71
December 2019	19.80	22.59	2.79	20.99	21.82	0.83	18.98	18.31	64,675	1.45	7.96
<b>2019</b>	<b>20.20</b>	<b>22.11</b>	<b>1.91</b>	<b>21.37</b>	<b>21.51</b>	<b>0.14</b>	<b>18.93</b>	<b>18.73</b>	<b>797,736</b>	<b>1.52</b>	<b>33.88</b>
January 2020	20.46	23.55	3.10	21.67	22.59	0.92	19.10	18.56	80,888	1.81	9.23
February 2020	20.65	23.44	2.79	22.06	22.71	0.65	19.21	18.52	93,430	2.24	4.05
March 2020	20.39	23.01	2.62	21.81	22.20	0.39	19.21	18.44	84,472	1.89	3.17
April 2020	20.10	22.55	2.45	21.50	23.34	1.84	19.18	18.19	71,683	1.66	1.70
May 2020	20.23	22.41	2.17	21.50	21.75	0.25	19.14	18.53	68,401	1.53	3.12
June 2020	20.26	22.50	2.23	21.53	21.66	0.13	19.15	18.43	67,843	1.57	2.28
July 2020	19.74	21.52	1.78	21.09	21.12	0.03	19.08	17.99	68,838	1.54	0.17
August 2020	19.45	20.81	1.36	20.68	20.61	-0.06	18.96	17.93	60,038	1.34	0.31
September 2020	19.90	20.77	0.87	20.74	20.36	-0.38	18.90	18.83	36,383	0.84	2.48
October 2020	19.35	21.41	2.06	20.37	20.67	0.30	18.91	17.92	54,523	1.22	2.56
November 2020	19.89	22.49	2.59	20.79	21.36	0.57	18.96	18.46	49,974	1.16	5.58
December 2020	19.88	22.97	3.09	21.06	21.89	0.82	19.00	18.12	67,891	1.52	6.65
<b>2020</b>	<b>20.04</b>	<b>22.22</b>	<b>2.18</b>	<b>21.25</b>	<b>21.67</b>	<b>0.42</b>	<b>19.07</b>	<b>18.35</b>	<b>804,365</b>	<b>1.67</b>	<b>41.30</b>
January 2021	20.33	23.58	3.25	21.65	22.66	1.02	19.10	18.36	74,200	1.66	8.75
February 2021	20.75	23.47	2.72	22.06	22.53	0.47	19.18	18.81	87,530	2.17	4.68
March 2021	20.43	23.13	2.70	21.93	22.27	0.34	18.62	18.27	87,880	1.97	2.61
<b>2021</b>	<b>20.50</b>	<b>23.39</b>	<b>2.89</b>	<b>21.88</b>	<b>22.49</b>	<b>0.61</b>	<b>18.97</b>	<b>18.48</b>	<b>249,610</b>	<b>1.93</b>	<b>16.04</b>

Notes: 1. Elevations in feet relative to the North American Vertical Datum of 1988 (NAVD 88).  
2. Inside or outside refers to the location of the piezometer relative to the soil-bentonite cutoff wall.  
3.  $\Delta$ H = groundwater elevation difference; positive = inward gradient, which is shaded in blue, and negative = outward gradient, which is shaded in red.  
4. gpm = gallons per minute.  
4. NA = not available.  
5. Groundwater extracted from Cell 6 through 2/12/13, from Cells 1 and 6 from 2/13/13 through 7/20/13 and from Cell 1 after 7/20/13.

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points  
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
<b>Shallow</b>																				
2/6/12	-	-	3.63	21.29	23.03	1.74	23.36	23.24	-0.12	24.84	24.71	-0.13	23.67	25.15	1.48	23.60	23.45	-0.15	-	-
2/24/12	-	-	-	20.47	23.20	2.73	22.53	24.52	1.99	24.15	24.82	0.67	22.88	25.19	2.31	19.75	23.60	3.85	-	-
3/13/12	-	-	7.20	23.69	23.51	-0.18	24.77	23.49	-1.28	25.83	25.35	-0.48	24.79	25.52	0.73	23.51	24.07	0.56	-	-
3/27/12	0.6	6	-	26.28	23.51	-2.77	26.53	22.91	-3.62	26.82	24.91	-1.91	26.20	25.32	-0.88	26.18	23.60	-2.58	-	-
4/9/12	2.0	6	2.68	25.76	23.13	-2.63	26.36	22.84	-3.52	26.82	23.90	-2.92	26.06	25.33	-0.73	25.59	23.57	-2.02	-	-
4/26/12	3.0	6	-	22.84	23.16	0.32	24.65	24.22	-0.43	25.89	24.89	-1.00	24.75	25.23	0.48	22.34	23.58	1.24	-	-
5/4/12	4.0	6	2.05	22.09	22.95	0.86	23.86	22.87	-0.99	25.27	24.92	-0.35	24.13	25.26	1.13	21.90	23.55	1.65	-	-
5/7/12	4.0	6	-	21.96	22.76	0.80	23.85	22.59	-1.26	25.17	24.66	-0.51	24.03	25.08	1.05	21.63	23.28	1.65	-	-
5/10/12	4.0	6	-	21.44	22.36	0.92	23.37	22.22	-1.15	24.75	24.37	-0.38	23.64	24.85	1.21	21.10	22.93	1.83	-	-
6/11/12	2.5	6	2.96	20.31	22.44	2.13	21.84	22.22	0.38	22.40	24.16	1.76	22.26	24.56	2.30	19.98	22.92	2.94	-	-
6/25/12	2.5	6	-	20.28	22.45	2.17	21.65	22.24	0.59	22.78	24.08	1.30	22.01	24.40	2.39	19.97	22.89	2.92	-	-
6/26/12	2.5	6	-	21.02	22.27	1.25	22.00	22.05	0.05	22.92	23.99	1.07	22.26	24.36	2.10	20.74	22.75	2.01	-	-
7/3/12	2.5	6	1.04	19.80	21.89	2.09	21.21	22.01	0.80	22.44	23.71	1.27	21.71	24.07	2.36	19.55	22.51	2.96	-	-
7/18/12	2.5	6	-	19.57	21.12	1.55	20.82	21.11	0.29	21.99	23.11	1.12	21.32	23.49	2.17	19.31	21.94	2.63	-	-
8/2/12	2.0	6	0.00	19.48	20.93	1.45	20.61	20.91	0.30	21.61	22.88	1.27	21.07	23.25	2.18	19.24	21.77	2.53	-	-
8/9/12	2.0	6	-	19.37	20.69	1.32	20.46	20.79	0.33	21.42	22.65	1.23	20.90	23.00	2.10	19.11	21.57	2.46	-	-
8/20/12	1.5	6	-	19.53	20.50	0.97	20.48	20.48	0.00	21.33	22.33	1.00	20.92	22.71	1.79	19.36	21.40	2.04	-	-
9/19/12	1.0	6	0.03	19.34	19.97	0.63	20.16	19.98	-0.18	20.85	21.65	0.80	20.52	22.02	1.50	19.23	20.90	1.67	-	-
10/8/12	1.0	6	6.71	19.74	19.83	0.09	20.43	19.91	-0.52	20.96	21.34	0.38	20.74	21.70	0.96	19.71	20.76	1.05	-	-
11/9/12	1.0	6	8.28	22.01	22.50	0.49	22.60	20.47	-2.13	22.93	23.27	0.34	22.56	23.60	1.04	21.84	22.45	0.61	-	-
12/3/12	1.0	6	6.85	23.95	23.38	-0.57	24.48	22.72	-1.76	24.69	25.10	0.41	24.12	25.39	1.27	24.08	23.82	-0.26	-	-
<b>2012 Shallow Averages</b>				<b>21.59</b>	<b>22.14</b>	<b>0.55</b>	<b>22.70</b>	<b>21.88</b>	<b>-0.82</b>	<b>23.51</b>	<b>23.73</b>	<b>0.21</b>	<b>22.88</b>	<b>24.17</b>	<b>1.29</b>	<b>21.66</b>	<b>22.71</b>	<b>1.05</b>	-	-
1/4/13	1.5	6	4.16	24.69	23.02	-1.67	25.34	22.79	-2.55	25.69	24.74	-0.95	25.07	25.11	0.04	24.63	23.29	-1.34	-	-
1/24/13	3.0	6	-	22.54	22.14	-0.40	23.78	22.18	-1.60	24.56	24.31	-0.25	23.92	24.76	0.84	22.38	22.96	0.58	-	-
2/1/13	2.0	6	1.58	23.99	22.89	-1.10	25.11	22.35	-2.76	25.73	24.76	-0.97	24.69	25.10	0.41	23.75	23.42	-0.33	-	-
3/1/13	3.0	1 & 6	2.74	21.48	22.44	0.96	23.08	22.40	-0.68	24.16	24.23	0.07	23.15	24.58	1.43	21.15	23.06	1.91	-	-
4/5/13	2.8	1 & 6	5.89	20.17	22.12	1.95	21.83	22.26	0.43	23.10	24.04	0.94	22.29	24.44	2.15	19.92	22.99	3.07	-	-
5/3/13	3.0	6	2.38	20.89	22.08	1.19	22.59	22.06	-0.53	23.76	24.08	0.32	22.91	24.61	1.70	20.53	22.92	2.39	-	-
5/14/13	0.6	6	-	21.33	21.88	0.55	22.44	21.88	-0.56	23.32	23.82	0.50	22.72	24.23	1.51	21.27	22.55	1.28	-	-
6/7/13	1.8	6	1.30	21.40	21.49	0.09	22.70	21.46	-1.24	23.63	23.56	-0.07	22.90	23.93	1.03	21.23	22.30	1.07	-	-
7/12/13	2.0	1	0.00	19.98	20.86	0.88	21.22	20.82	-0.40	22.24	22.77	0.53	21.62	23.13	1.51	19.83	21.75	1.92	-	-
8/6/13	1.5	1	1.35	20.10	20.29	0.19	21.09	20.29	-0.80	21.88	22.06	0.18	21.45	22.45	1.00	20.08	21.21	1.13	-	-
9/9/13	1.5	1	6.17	19.55	21.16	1.61	20.51	20.83	0.32	21.25	22.50	1.25	20.88	22.97	2.09	19.46	21.76	2.30	-	-
10/11/13	1.0	1	1.54	20.12	22.09	1.97	20.91	21.24	0.33	21.61	23.49	1.88	21.25	23.88	2.63	20.05	22.55	2.50	-	-
11/8/13	1.0	1	3.79	20.45	21.87	1.42	21.16	21.78	0.62	21.69	23.40	1.71	21.46	23.78	2.32	20.48	22.57	2.09	-	-
12/6/13	1.0	1	1.66	20.85	21.40	0.55	21.55	21.58	0.03	22.04	23.01	0.97	21.70	23.53	1.83	20.82	22.14	1.32	-	-



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BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
<b>2013 Shallow Averages</b>				<b>21.14</b>	<b>21.81</b>	<b>0.67</b>	<b>22.26</b>	<b>21.66</b>	<b>-0.60</b>	<b>23.07</b>	<b>23.55</b>	<b>0.49</b>	<b>22.45</b>	<b>23.96</b>	<b>1.51</b>	<b>20.99</b>	<b>22.50</b>	<b>1.50</b>	-	-
1/13/14	1.0	1	3.70	21.69	22.28	0.59	22.61	21.69	-0.92	23.06	23.90	0.84	22.51	24.39	1.88	21.58	22.85	1.27	-	-
2/7/14	1.5	1	6.11	21.00	21.42	0.42	22.05	21.50	-0.55	22.76	22.49	-0.27	22.33	24.03	1.70	20.90	22.47	1.57	-	-
3/14/14	1.5	1	9.44	23.54	23.36	-0.18	24.64	23.36	-1.28	25.35	25.53	0.18	24.62	25.79	1.17	23.25	24.18	0.93	-	-
4/11/14	1.5	1	4.18	23.46	22.49	-0.97	24.60	22.48	-2.12	25.32	24.58	-0.74	24.57	25.05	0.48	23.35	23.29	-0.06	-	-
5/8/14	1.5	1	3.15	24.20	23.05	-1.15	26.07	22.92	-3.15	26.02	25.02	-1.00	25.22	25.41	0.19	23.98	23.86	-0.12	-	-
6/5/14	1.5	1	0.73	22.71	21.59	-1.12	23.87	21.59	-2.28	24.44	23.56	-0.88	23.88	24.12	0.24	22.63	22.45	-0.18	-	-
7/3/14	2.5	1	0.77	20.00	20.98	0.98	21.40	20.97	-0.43	22.51	22.85	0.34	21.88	23.27	1.39	19.95	21.80	1.85	-	-
8/6/14	1.75	1	1.81	19.48	20.50	1.02	20.60	20.47	-0.13	21.55	22.16	0.61	21.07	22.55	1.48	19.45	21.34	1.89	-	-
9/4/14	1.48	1	2.23	19.29	21.15	1.86	20.24	20.84	0.60	21.04	22.16	1.12	20.69	22.61	1.92	19.23	21.57	2.34	-	-
10/10/14	1.13	1	6.75	19.29	20.39	1.10	20.09	20.33	0.24	20.74	21.79	1.05	20.48	22.28	1.80	19.24	21.20	1.96	-	-
11/13/14	1.80	1	4.84	20.14	22.14	2.00	21.20	21.90	0.70	21.90	23.66	1.76	21.48	24.11	2.63	19.81	22.76	2.95	-	-
12/5/14	2.00	1	4.79	20.07	22.16	2.09	21.18	22.18	1.00	21.97	23.91	1.94	21.50	24.44	2.94	19.77	22.90	3.13	-	-
<b>2014 Shallow Averages</b>				<b>21.24</b>	<b>21.79</b>	<b>0.55</b>	<b>22.38</b>	<b>21.69</b>	<b>-0.69</b>	<b>23.06</b>	<b>23.47</b>	<b>0.41</b>	<b>22.52</b>	<b>24.00</b>	<b>1.49</b>	<b>21.10</b>	<b>22.56</b>	<b>1.46</b>	-	-
1/14/15	2.00	1	3.66	20.16	22.52	2.36	21.50	22.45	0.95	22.50	24.27	1.77	21.88	24.81	2.93	19.83	23.15	3.32	-	-
2/13/15	2.50	1	5.27	20.51	23.20	2.69	22.05	23.58	1.53	23.08	25.10	2.02	22.31	25.52	3.21	20.10	23.87	3.77	-	-
3/13/15	2.29	1	4.47	19.84	22.27	2.43	21.17	22.22	1.05	22.17	24.11	1.94	21.68	24.64	2.96	19.68	22.81	3.13	-	-
4/10/15	2.60	1	2.03	20.10	22.37	2.27	21.52	22.32	0.80	22.63	24.27	1.64	22.04	24.79	2.75	19.95	23.13	3.18	-	-
5/1/15	2.00	1	0.58	19.79	22.02	2.23	21.12	21.95	0.83	22.16	23.83	1.67	21.64	24.33	2.69	19.72	22.76	3.04	-	-
6/5/15	1.85	1	0.23	19.41	21.18	1.77	20.49	21.12	0.63	21.35	22.79	1.44	20.99	23.25	2.26	19.38	21.96	2.58	-	-
7/2/15	1.60	1	0.09	19.22	20.45	1.23	20.22	20.46	0.24	21.02	21.98	0.96	20.68	22.39	1.71	19.22	21.34	2.12	-	-
8/7/15	1.30	1	3.28	19.07	19.85	0.78	19.93	19.85	-0.08	20.61	21.11	0.50	20.34	21.54	1.20	19.05	20.75	1.70	-	-
9/4/15	1.09	1	0.83	19.04	20.69	1.65	19.78	20.41	0.63	20.37	21.44	1.07	20.14	21.88	1.74	19.02	21.22	2.20	-	-
10/16/15	0.92	1	4.81	18.88	20.98	2.10	19.59	20.67	1.08	20.13	21.53	1.40	19.99	22.03	2.04	18.88	21.50	2.62	-	-
11/6/15	1.20	1	8.37	19.02	21.71	2.69	19.68	21.36	1.68	20.20	22.48	2.28	20.04	23.02	2.98	18.91	22.09	3.18	-	-
12/4/15	1.67	1	11.21	19.61	22.58	2.97	20.50	22.47	1.97	21.07	24.10	3.03	20.91	24.57	3.66	19.39	23.33	3.94	-	-
<b>2015 Shallow Averages</b>				<b>19.55</b>	<b>21.65</b>	<b>2.10</b>	<b>20.63</b>	<b>21.57</b>	<b>0.94</b>	<b>21.44</b>	<b>23.08</b>	<b>1.64</b>	<b>21.05</b>	<b>23.56</b>	<b>2.51</b>	<b>19.43</b>	<b>22.33</b>	<b>2.90</b>	-	-
1/16/16	2.10	1	7.45	20.06	23.06	3.00	21.27	NM	-	22.06	24.90	2.84	21.71	25.32	3.61	19.82	NM	-	-	-
2/5/16	0.26	1	5.97	20.45	23.48	3.03	21.78	23.40	1.62	22.70	25.43	2.73	22.15	25.85	3.70	20.24	24.20	3.96	-	-
3/4/16	2.46	1	5.52	20.50	23.67	3.17	22.15	23.56	1.41	23.17	25.61	2.44	22.48	26.00	3.52	20.12	24.37	4.25	-	-
4/1/16	1.69	1	1.19	20.07	22.80	2.73	21.59	22.78	1.19	22.75	24.73	1.98	22.12	25.22	3.10	19.91	23.52	3.61	-	-
5/6/16	1.94	1	0.94	19.62	21.82	2.20	20.82	21.80	0.98	21.76	23.55	1.79	21.39	24.02	2.63	19.56	22.61	3.05	-	-
6/2/16	1.61	1	1.77	19.40	21.57	2.17	20.47	21.59	1.12	21.34	22.88	1.54	21.02	23.32	2.30	19.40	22.25	2.85	-	-
7/7/16	1.47	1	0.72	19.21	21.20	1.99	20.25	21.06	0.81	21.04	22.34	1.30	20.78	22.80	2.02	19.18	21.95	2.77	-	-
8/5/16	1.40	1	0.17	19.18	20.68	1.50	20.14	20.59	0.45	20.86	21.84	0.98	20.74	22.20	1.46	19.22	21.48	2.26	-	-
9/26/16	1.20	1	1.05	18.98	20.33	1.35	NM	20.18	-	20.44	21.09	0.65	20.29	21.45	1.16	19.03	21.04	2.01	-	-
10/14/16	1.31	1	10.05	20.35	22.03	1.68	NM	21.71	-	20.61	21.87	1.26	20.49	22.24	1.75	19.24	22.64	3.40	-	-



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				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
11/11/16	1.60	1	6.48	19.97	22.70	2.73	NM	22.48	–	21.53	24.06	2.53	21.26	24.58	3.32	19.82	23.31	3.49	–	–
12/2/16	1.80	1	3.87	19.80	22.80	3.00	20.86	22.72	1.86	21.63	24.39	2.76	21.31	24.90	3.59	19.75	23.38	3.63	–	–
<b>2016 Shallow Averages</b>				<b>19.80</b>	<b>22.18</b>	<b>2.38</b>	<b>21.04</b>	<b>21.99</b>	<b>1.18</b>	<b>21.66</b>	<b>23.56</b>	<b>1.90</b>	<b>21.31</b>	<b>23.99</b>	<b>2.68</b>	<b>19.61</b>	<b>22.80</b>	<b>3.21</b>	–	–
1/13/17	2.00	1	4.22	19.84	22.43	2.59	20.96	22.21	1.25	21.74	24.06	2.32	21.29	24.51	3.22	19.67	22.95	3.28	–	–
2/3/17	2.07	1	8.85	19.88	22.69	2.81	21.51	22.68	1.17	22.64	24.59	1.95	22.05	25.13	3.08	19.83	23.52	3.69	–	–
3/3/17	3.30	1	7.31	20.40	23.41	3.01	21.95	23.51	1.56	23.06	25.59	2.53	22.33	25.77	3.44	20.02	24.26	4.24	–	–
4/6/17	1.96	1	3.27	–	–	–	22.92	23.76	0.84	–	–	–	–	–	–	–	–	–	–	–
5/4/17	3.33	1	2.28	20.64	23.37	2.73	22.39	23.29	0.90	23.78	24.94	1.16	22.95	25.38	2.43	20.34	23.88	3.54	–	–
6/27/17	2.01	1	1.52	19.52	21.69	2.17	20.62	21.77	1.15	21.50	23.16	1.66	21.20	23.50	2.30	19.55	22.37	2.82	–	–
7/13/17	1.55	1	0.00	19.56	21.21	1.65	20.78	21.19	0.41	–	–	–	–	–	–	–	–	–	–	–
9/25/17	1.05	1	0.59	19.56	20.67	1.11	20.99	20.26	-0.73	20.60	21.46	0.86	20.37	22.54	2.17	19.40	22.38	2.98	–	–
10/11/17	1.05	1	4.80	19.37	20.49	1.12	20.17	20.31	0.14	–	–	–	–	–	–	–	–	–	–	–
11/6/17	1.04	1	8.63	20.14	22.23	2.09	NM	21.87	–	–	–	–	–	–	–	–	–	–	–	–
12/14/17	1.70	1	5.43	20.61	22.15	1.54	21.56	22.11	0.55	22.17	23.90	1.73	21.99	24.43	2.44	20.62	22.94	2.32	–	–
<b>2017 Shallow Averages</b>				<b>19.95</b>	<b>22.03</b>	<b>2.08</b>	<b>21.39</b>	<b>22.09</b>	<b>0.72</b>	<b>22.21</b>	<b>23.96</b>	<b>1.74</b>	<b>21.74</b>	<b>24.47</b>	<b>2.73</b>	<b>19.92</b>	<b>23.19</b>	<b>3.27</b>	–	–
3/12/18	1.43	1	2.44	21.89	22.89	1.00	23.21	22.85	-0.36	24.04	24.41	0.37	23.49	24.66	1.17	21.69	23.40	1.71	–	–
6/30/18	1.40	1	0.63	19.35	21.10	1.75	NM	21.03	–	21.31	22.39	1.08	20.99	22.82	1.83	19.46	21.91	2.45	–	–
9/17/18	1.50	1	1.04	19.04	20.88	1.84	19.90	20.49	0.59	20.62	20.93	0.31	20.37	21.45	1.08	19.18	21.15	1.97	–	–
12/10/18	1.19	1	6.08	19.41	22.37	2.96	20.23	22.03	1.80	20.81	23.03	2.22	21.02	23.72	2.70	19.49	22.76	3.27	–	–
<b>2018 Shallow Averages</b>				<b>19.92</b>	<b>21.81</b>	<b>1.89</b>	<b>21.11</b>	<b>21.60</b>	<b>0.68</b>	<b>21.70</b>	<b>22.69</b>	<b>1.00</b>	<b>21.47</b>	<b>23.16</b>	<b>1.70</b>	<b>19.96</b>	<b>22.31</b>	<b>2.35</b>	–	–
3/18/19	2.50	1	1.37	20.10	22.60	2.50	NM	22.42	–	22.80	24.06	1.26	22.18	24.58	2.40	19.98	23.16	3.18	–	–
6/21/19	0.75	1	0.90	21.63	21.69	0.06	NM	21.34	–	22.34	22.38	0.04	22.18	22.85	0.67	21.76	21.96	0.20	–	–
9/3/19	1.27	1	3.32	19.19	20.35	1.16	20.10	20.16	0.06	20.89	21.07	0.18	20.61	21.51	0.90	19.28	21.05	1.77	–	–
12/9/19	1.30	1	7.96	19.28	21.82	2.54	20.14	21.54	1.40	20.79	22.57	1.78	20.54	23.08	2.54	19.32	22.13	2.81	–	–
<b>2019 Shallow Averages</b>				<b>20.05</b>	<b>21.62</b>	<b>1.57</b>	<b>20.12</b>	<b>21.37</b>	<b>0.73</b>	<b>21.71</b>	<b>22.52</b>	<b>0.82</b>	<b>21.38</b>	<b>23.01</b>	<b>1.63</b>	<b>20.09</b>	<b>22.08</b>	<b>1.99</b>	–	–
3/2/20	2.25	1	3.17	20.39	22.92	2.53	21.47	22.86	1.39	22.27	24.54	2.27	21.91	25.00	3.09	20.36	23.35	2.99	–	–
6/4/20	0.00	1	2.28	19.93	22.21	2.28	21.10	22.01	0.91	NM	22.13	–	21.50	23.85	2.35	19.94	22.68	2.74	–	–
9/4/20	1.30	1	2.48	19.14	20.40	1.26	20.10	20.33	0.23	20.89	21.28	0.39	20.64	21.69	1.05	19.18	21.15	1.97	–	–
12/2/20	1.40	1	6.65	19.83	22.39	2.56	20.74	22.06	1.32	21.36	23.10	1.74	21.14	23.70	2.56	19.76	22.69	2.93	–	–
<b>2020 Shallow Averages</b>				<b>19.82</b>	<b>21.98</b>	<b>2.16</b>	<b>20.85</b>	<b>21.82</b>	<b>0.96</b>	<b>21.51</b>	<b>22.76</b>	<b>1.47</b>	<b>21.30</b>	<b>23.56</b>	<b>2.26</b>	<b>19.81</b>	<b>22.47</b>	<b>2.66</b>	–	–
3/8/21	2.19	1	2.61	20.32	23.09	2.77	21.76	23.06	1.30	22.74	24.75	2.01	22.26	25.18	2.92	20.17	23.55	3.38	–	–
<b>2021 Shallow Averages</b>				<b>20.32</b>	<b>23.09</b>	<b>2.77</b>	<b>21.76</b>	<b>23.06</b>	<b>1.30</b>	<b>22.74</b>	<b>24.75</b>	<b>2.01</b>	<b>22.26</b>	<b>25.18</b>	<b>2.92</b>	<b>20.17</b>	<b>23.55</b>	<b>3.38</b>	–	–
<b>Intermediate</b>																				
2/6/12	–	–	3.63	23.07	22.27	-0.80	23.34	22.55	-0.79	23.57	23.94	0.37	23.62	25.09	1.47	22.91	23.50	0.59	23.42	–
2/24/12	–	–	–	22.26	22.41	0.15	22.53	22.66	0.13	22.80	24.00	1.20	22.85	25.18	2.33	22.12	23.59	1.47	22.63	–
3/13/12	–	–	7.20	24.52	22.53	-1.99	24.64	22.45	-2.19	24.74	24.14	-0.60	24.79	25.54	0.75	24.46	23.82	-0.64	24.49	–
3/27/12	0.6	6	–	26.11	22.46	-3.65	26.14	22.71	-3.43	26.20	24.13	-2.07	26.18	25.28	-0.90	26.13	23.64	-2.49	26.14	–

Table 2

**Summary of Groundwater Elevations in Paired Monitoring Points  
BSB Property, Kent, Washington**

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
4/9/12	2.0	6	2.68	25.85	22.32	-3.53	25.92	22.14	-3.78	26.02	24.10	-1.92	26.02	25.30	-0.72	25.86	23.58	-2.28	25.95	-
4/26/12	3.0	6	-	24.22	22.20	-2.02	24.43	22.18	-2.25	24.67	23.92	-0.75	24.70	25.24	0.54	24.11	23.47	-0.64	24.44	-
5/4/12	4.0	6	2.05	23.42	21.83	-1.59	23.85	22.45	-1.40	24.05	23.88	-0.17	24.08	25.25	1.17	23.55	23.35	-0.20	23.92	-
5/7/12	4.0	6	-	23.27	21.79	-1.48	23.74	22.31	-1.43	23.95	23.82	-0.13	23.99	25.05	1.06	23.40	23.27	-0.13	23.81	-
5/10/12	4.0	6	-	22.87	21.54	-1.33	23.33	22.05	-1.28	23.56	23.58	0.02	23.59	24.81	1.22	22.99	22.95	-0.04	23.43	-
6/11/12	2.5	6	2.96	21.57	21.51	-0.06	22.01	21.95	-0.06	22.91	23.37	0.46	22.23	24.54	2.31	21.71	22.93	1.22	22.08	-
6/25/12	2.5	6	-	21.39	21.42	0.03	21.81	21.90	0.09	21.97	23.21	1.24	21.99	24.43	2.44	21.55	22.84	1.29	21.87	-
6/26/12	2.5	6	-	21.79	21.31	-0.48	22.13	21.80	-0.33	22.24	23.15	0.91	22.24	24.34	2.10	21.96	22.73	0.77	22.16	-
7/3/12	2.5	6	1.04	21.07	21.07	0.00	21.50	21.56	0.06	21.67	22.88	1.21	21.68	24.05	2.37	21.21	22.44	1.23	21.55	-
7/18/12	2.5	6	-	20.72	20.66	-0.06	21.12	21.13	0.01	21.29	22.39	1.10	21.29	23.48	2.19	20.87	21.99	1.12	21.18	-
8/2/12	2.0	6	0.00	20.53	20.46	-0.07	20.91	20.93	0.02	21.06	22.21	1.15	21.06	23.22	2.16	20.69	21.83	1.14	20.98	-
8/9/12	2.0	6	-	20.37	20.31	-0.06	20.75	20.75	0.00	20.89	21.97	1.08	20.88	22.99	2.11	20.51	21.65	1.14	20.81	-
8/20/12	1.5	6	-	20.44	20.11	-0.33	20.78	20.55	-0.23	20.90	21.72	0.82	20.90	22.69	1.79	20.61	21.50	0.89	20.85	-
9/19/12	1.0	6	0.03	20.11	19.71	-0.40	20.44	20.08	-0.36	20.52	21.06	0.54	20.54	22.02	1.48	20.29	21.03	0.74	20.47	-
10/8/12	1.0	6	6.71	20.37	19.64	-0.73	20.67	20.00	-0.67	20.75	20.84	0.09	20.70	21.68	0.98	20.58	20.90	0.32	20.69	-
11/9/12	1.0	6	8.28	22.24	21.12	-1.12	22.50	21.50	-1.00	22.58	22.50	-0.08	22.53	23.61	1.08	22.44	22.47	0.03	22.52	-
12/3/12	1.0	6	6.85	23.84	21.76	-2.08	24.15	22.28	-1.87	24.17	23.75	-0.42	24.10	25.39	1.29	24.15	23.56	-0.59	24.14	-
<b>2012 Intermediate Averages</b>				<b>22.42</b>	<b>21.29</b>	<b>-1.12</b>	<b>22.72</b>	<b>21.63</b>	<b>-1.09</b>	<b>22.91</b>	<b>22.97</b>	<b>0.06</b>	<b>22.85</b>	<b>24.15</b>	<b>1.30</b>	<b>22.53</b>	<b>22.67</b>	<b>0.14</b>	<b>22.75</b>	<b>-</b>
1/4/13	1.5	6	4.16	24.74	21.67	-3.07	24.95	22.21	-2.74	25.05	23.77	-1.28	25.07	25.06	-0.01	24.95	23.23	-1.72	24.99	-
1/24/13	3.0	6	-	23.39	21.46	-1.93	23.75	21.95	-1.80	23.88	23.48	-0.40	23.89	24.73	0.84	23.56	22.95	-0.61	23.81	-
2/1/13	2.0	6	1.58	24.28	21.83	-2.45	24.63	22.30	-2.33	24.71	23.82	-0.89	24.70	25.04	0.34	24.55	23.35	-1.20	24.60	-
3/1/13	3.0	1 & 6	2.74	22.54	21.43	-1.11	22.95	21.95	-1.00	23.10	23.32	0.22	23.11	24.56	1.45	22.69	22.95	0.26	23.10	-
4/5/13	2.8	1 & 6	5.89	21.66	21.29	-0.37	22.07	21.80	-0.27	22.26	23.13	0.87	22.27	24.43	2.16	21.76	22.81	1.05	22.13	-
5/3/13	3.0	6	2.38	22.28	21.46	-0.82	22.66	21.97	-0.69	22.85	23.39	0.54	22.87	24.62	1.75	22.38	22.93	0.55	22.75	-
5/14/13	0.6	6	-	22.26	21.14	-1.12	22.60	21.64	-0.96	22.71	23.05	0.34	22.70	24.20	1.50	22.43	22.55	0.12	22.63	-
6/7/13	1.8	6	1.30	22.40	20.88	-1.52	22.75	21.36	-1.39	22.87	22.78	-0.09	22.87	23.92	1.05	22.53	22.35	-0.18	22.79	-
7/12/13	2.0	1	0.00	21.13	20.44	-0.69	21.45	20.85	-0.60	21.70	22.06	0.36	21.62	23.13	1.51	21.37	21.83	0.46	21.51	-
8/6/13	1.5	1	1.35	21.01	19.95	-1.06	21.34	20.38	-0.96	21.44	21.40	-0.04	21.41	22.44	1.03	21.18	21.34	0.16	21.37	-
9/9/13	1.5	1	6.17	20.45	20.38	-0.07	20.76	20.80	0.04	20.87	21.79	0.92	20.85	22.93	2.08	20.62	21.81	1.19	20.82	-
10/11/13	1.0	1	1.54	20.88	21.09	0.21	21.10	21.51	0.41	21.29	22.65	1.36	21.25	23.90	2.65	21.06	22.47	1.41	21.21	-
11/8/13	1.0	1	3.79	21.12	20.81	-0.31	21.40	21.25	-0.15	21.47	22.46	0.99	21.43	23.76	2.33	21.31	22.40	1.09	21.43	-
12/6/13	1.0	1	1.66	21.41	20.77	-0.64	21.65	21.19	-0.46	21.71	22.39	0.68	21.72	23.51	1.79	21.60	22.15	0.55	21.70	-
<b>2013 Intermediate Averages</b>				<b>21.99</b>	<b>21.00</b>	<b>-0.99</b>	<b>22.31</b>	<b>21.46</b>	<b>-0.84</b>	<b>22.44</b>	<b>22.75</b>	<b>0.30</b>	<b>22.43</b>	<b>23.94</b>	<b>1.51</b>	<b>22.17</b>	<b>22.47</b>	<b>0.30</b>	<b>22.37</b>	<b>-</b>
1/13/14	1.0	1	3.70	22.18	21.14	-1.04	22.45	21.59	-0.86	22.52	22.96	0.44	22.48	24.43	1.95	22.35	22.74	0.39	22.48	-
2/7/14	1.5	1	6.11	22.03	20.97	-1.06	22.22	21.42	-0.80	22.33	22.77	0.44	22.30	24.01	1.71	22.07	22.52	0.45	22.25	-
3/14/14	1.5	1	9.44	24.23	22.43	-1.80	24.52	22.91	-1.61	24.61	24.41	-0.20	24.60	25.74	1.14	23.45	24.08	0.63	24.53	-
4/11/14	1.5	1	4.18	24.17	21.77	-2.40	24.50	22.27	-2.23	24.61	23.76	-0.85	24.59	25.01	0.42	24.36	23.30	-1.06	24.52	-

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points  
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
5/8/14	1.5	1	3.15	24.79	22.19	-2.60	25.13	22.66	-2.47	25.20	24.10	-1.10	25.21	25.37	0.16	24.98	23.82	-1.16	25.13	-
6/5/14	1.5	1	0.73	23.47	21.10	-2.37	23.65	21.55	-2.10	23.85	22.96	-0.89	23.85	24.09	0.24	23.61	22.50	-1.11	23.79	-
7/3/14	2.5	1	0.77	21.35	20.52	-0.83	21.72	20.94	-0.78	21.86	22.19	0.33	21.85	23.25	1.40	21.50	21.84	0.34	21.76	-
8/6/14	1.75	1	1.81	20.60	20.12	-0.48	20.94	20.51	-0.43	21.04	21.55	0.51	21.04	22.56	1.52	20.78	21.44	0.66	20.99	-
9/4/14	1.48	1	2.23	20.25	20.16	-0.09	20.56	18.55 <sup>a</sup>	-2.01	20.66	21.53	0.87	20.64	22.61	1.97	20.42	21.60	1.18	20.60	-
10/10/14	1.13	1	6.75	20.12	19.94	-0.18	20.40	20.34	-0.06	20.50	21.26	0.76	20.45	22.27	1.82	20.29	21.29	1.00	20.44	-
11/13/14	1.80	1	4.84	21.04	21.34	0.30	21.37	21.74	0.37	21.47	22.94	1.47	21.46	24.11	2.65	21.20	22.76	1.56	21.42	-
12/5/14	2.00	1	4.79	21.09	21.45	0.36	21.42	21.88	0.46	21.51	23.18	1.67	21.55	24.44	2.89	21.23	22.86	1.63	21.46	-
<b>2014 Intermediate Averages</b>				<b>22.11</b>	<b>21.09</b>	<b>-1.02</b>	<b>22.41</b>	<b>21.62</b>	<b>-1.04</b>	<b>22.51</b>	<b>22.80</b>	<b>0.29</b>	<b>22.50</b>	<b>23.99</b>	<b>1.49</b>	<b>22.19</b>	<b>22.56</b>	<b>0.38</b>	<b>22.45</b>	<b>-</b>
1/14/15	2.00	1	3.66	21.37	21.77	0.40	21.72	22.22	0.50	21.87	23.51	1.64	21.86	24.67	2.81	21.51	23.11	1.60	21.79	-
2/13/15	2.50	1	5.27	21.80	22.38	0.58	22.17	22.34	0.17	22.32	24.21	1.89	22.31	25.49	3.18	21.92	23.80	1.88	22.23	-
3/13/15	2.29	1	4.47	21.17	21.64	0.47	21.53	22.11	0.58	21.66	23.44	1.78	21.65	24.64	2.99	21.11	22.97	1.86	21.57	-
4/10/15	2.60	1	2.03	21.53	21.80	0.27	21.88	22.26	0.38	22.01	23.58	1.57	22.00	24.76	2.76	21.68	23.10	1.42	21.94	-
5/1/15	2.00	1	0.58	21.16	21.41	0.25	21.51	21.85	0.34	21.63	23.15	1.52	21.62	24.29	2.67	21.33	22.75	1.42	21.55	-
6/5/15	1.85	1	0.23	20.55	20.71	0.16	20.85	21.12	0.27	20.98	22.21	1.23	21.00	23.24	2.24	20.75	21.98	1.23	20.92	-
7/2/15	1.60	1	0.09	20.27	20.21	-0.06	20.59	20.57	-0.02	20.65	21.46	0.81	20.70	22.39	1.69	20.48	21.40	0.92	20.64	-
8/7/15	1.30	1	3.28	19.95	19.67	-0.28	20.26	20.00	-0.26	20.33	20.71	0.38	20.30	21.54	1.24	20.14	20.87	0.73	20.28	-
9/4/15	1.09	1	0.83	19.80	19.94	0.14	20.08	20.28	0.20	20.14	20.94	0.80	20.10	21.88	1.78	20.00	21.23	1.23	20.11	-
10/16/15	0.92	1	4.81	19.65	20.26	0.61	19.93	20.56	0.63	20.00	21.12	1.12	19.97	22.04	2.07	19.86	21.56	1.70	19.96	-
11/6/15	1.20	1	8.37	19.69	20.70	1.01	19.98	21.02	1.04	20.04	21.86	1.82	20.01	23.02	3.01	19.90	22.07	2.17	20.02	-
12/4/15	1.67	1	11.21	20.52	21.64	1.12	20.84	22.04	1.20	20.79	23.19	2.40	20.90	24.59	3.69	20.68	23.13	2.45	20.86	-
<b>2015 Intermediate Averages</b>				<b>20.62</b>	<b>21.01</b>	<b>0.39</b>	<b>20.95</b>	<b>21.36</b>	<b>0.42</b>	<b>21.04</b>	<b>22.45</b>	<b>1.41</b>	<b>21.04</b>	<b>23.55</b>	<b>2.51</b>	<b>20.78</b>	<b>22.33</b>	<b>1.55</b>	<b>20.99</b>	<b>-</b>
1/6/16	2.10	1	7.45	21.27	22.29	1.02	21.62	22.73	1.11	21.70	24.09	2.39	21.69	25.29	3.60	21.42	23.69	2.27	21.68	-
2/5/16	0.26	1	5.97	21.66	22.61	0.95	22.04	23.09	1.05	22.13	24.47	2.34	22.11	25.80	3.69	21.84	25.08	3.24	22.84	-
3/4/16	2.46	1	5.52	21.94	22.82	0.88	22.34	23.30	0.96	22.47	24.65	2.18	22.46	25.99	3.53	22.08	24.23	2.15	22.39	-
4/1/16	1.69	1	1.19	21.61	22.20	0.59	21.98	22.67	0.69	22.10	23.99	1.89	22.11	25.20	3.09	21.78	23.45	1.67	22.03	-
5/6/16	1.94	1	0.94	20.93	21.36	0.43	21.28	21.81	0.53	21.37	22.94	1.57	21.37	23.98	2.61	21.12	22.62	1.50	21.31	-
6/2/16	1.61	1	1.77	20.65	21.01	0.36	20.95	21.41	0.46	21.02	22.34	1.32	21.00	23.29	2.29	20.80	22.25	1.45	20.95	-
7/7/16	1.47	1	0.72	20.37	20.74	0.37	20.70	21.10	0.40	20.76	21.86	1.10	20.69	22.83	2.14	20.55	21.95	1.40	20.72	-
8/5/16	1.40	1	0.17	20.23	20.34	0.11	20.54	20.69	0.15	20.62	21.37	0.75	20.60	22.23	1.63	20.43	21.55	1.12	20.57	-
9/26/16	1.20	1	1.05	19.87	19.93	0.06	20.16	20.25	0.09	20.23	20.71	0.48	20.19	21.46	1.27	20.06	21.14	1.08	20.19	-
10/14/16	1.31	1	10.05	19.08	20.89	1.81	20.45	21.17	0.72	20.49	21.34	0.85	20.46	22.34	1.88	20.34	22.15	1.81	20.47	-
11/11/16	1.60	1	6.48	20.89	21.80	0.91	21.19	22.23	1.04	21.28	23.32	2.04	21.24	24.60	3.36	21.08	23.24	2.16	21.22	-
12/2/16	1.80	1	3.87	20.90	21.86	0.96	21.22	22.34	1.12	21.30	23.58	2.28	22.31	24.88	2.57	21.11	23.24	2.13	21.26	-
<b>2016 Intermediate Averages</b>				<b>20.78</b>	<b>21.49</b>	<b>0.70</b>	<b>21.21</b>	<b>21.90</b>	<b>0.69</b>	<b>21.29</b>	<b>22.89</b>	<b>1.60</b>	<b>21.35</b>	<b>23.99</b>	<b>2.64</b>	<b>21.05</b>	<b>22.88</b>	<b>1.83</b>	<b>21.30</b>	<b>-</b>
1/13/17	2.00	1	4.22	20.96	21.64	0.68	21.15	22.05	0.90	21.30	23.31	2.01	21.30	24.53	3.23	21.09	22.84	1.75	21.27	-
2/3/17	2.07	1	8.85	21.50	22.07	0.57	21.87	22.59	0.72	21.94	23.85	1.91	22.00	25.11	3.11	21.62	23.35	1.73	21.93	-

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points  
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
3/3/17	3.30	1	7.31	21.81	22.68	0.87	22.26	23.28	1.02	22.35	24.61	2.26	22.32	25.85	3.53	21.90	24.04	2.14	22.35	-
4/6/17	1.96	1	3.27	-	-	-	19.98	23.38	3.40	-	-	-	-	-	-	-	-	-	-	-
5/4/17	3.33	1	2.28	22.40	22.53	0.13	22.87	24.02	1.15	22.90	24.19	1.29	22.92	25.38	2.46	22.51	23.78	1.27	22.81	-
6/27/17	2.01	1	1.52	20.81	21.10	0.29	21.08	21.61	0.53	21.23	22.54	1.31	21.10	23.46	2.36	20.88	22.34	1.46	21.00	-
7/13/17	1.55	1	0.00	20.91	20.92	0.01	21.22	21.33	0.11	-	-	-	-	-	-	-	-	-	-	-
9/25/17	1.05	1	0.59	20.45	20.37	-0.08	20.84	20.30	-0.54	20.88	20.95	0.07	20.39	22.61	2.22	19.77	21.35	1.58	20.71	-
10/11/17	1.05	1	4.80	20.23	20.07	-0.16	20.49	20.39	-0.10	-	-	-	-	-	-	-	-	-	-	-
11/6/17	1.04	1	8.63	20.55	21.06	0.51	20.81	21.40	0.59	-	-	-	-	-	-	-	-	-	-	-
12/14/17	1.70	1	5.43	21.58	21.64	0.06	21.85	22.12	0.27	22.12	23.22	1.10	22.00	24.40	2.40	21.77	22.91	1.14	21.89	-
<b>2017 Intermediate Averages</b>				<b>21.12</b>	<b>21.41</b>	<b>0.29</b>	<b>21.31</b>	<b>22.04</b>	<b>0.73</b>	<b>21.82</b>	<b>23.24</b>	<b>1.42</b>	<b>21.72</b>	<b>24.48</b>	<b>2.76</b>	<b>21.36</b>	<b>22.94</b>	<b>1.58</b>	-	-
3/12/18	1.43	1	2.44	23.10	22.03	-1.07	NM	22.56	-	23.71	23.59	-0.12	23.50	24.99	1.49	23.26	23.23	-0.03	23.46	-
6/30/18	1.40	1	0.63	20.56	20.74	0.18	20.90	21.12	0.22	21.15	21.92	0.77	20.96	22.84	1.88	20.74	21.93	1.19	20.96	-
9/17/18	1.50	1	1.04	20.01	20.06	0.05	NM	20.36	-	NM	20.67	-	20.36	21.45	1.09	20.23	21.24	1.01	20.30	-
12/10/18	1.19	1	6.08	20.34	21.23	0.89	20.94	NM	-	NM	22.33	-	21.00	23.80	2.80	20.56	22.61	2.05	20.67	-
<b>2018 Intermediate Averages</b>				<b>21.00</b>	<b>21.02</b>	<b>0.01</b>	<b>20.92</b>	<b>21.35</b>	<b>0.22</b>	<b>22.43</b>	<b>22.13</b>	<b>0.33</b>	<b>21.46</b>	<b>23.27</b>	<b>1.82</b>	<b>21.20</b>	<b>22.25</b>	<b>1.06</b>	<b>21.35</b>	-
3/18/19	2.50	1	1.37	21.74	21.87	0.13	22.06	22.32	0.26	22.15	23.41	1.26	22.15	24.55	2.40	21.80	23.13	1.33	22.18	-
6/21/19	0.75	1	0.90	21.89	20.81	-1.08	22.16	NM	-	22.15	21.86	-0.29	22.15	22.89	0.74	22.14	21.96	-0.18	22.18	-
9/3/19	1.27	1	3.32	20.20	20.01	-0.19	20.49	20.30	-0.19	20.58	20.75	0.17	20.58	21.54	0.96	20.44	21.15	0.71	20.56	-
12/9/19	1.30	1	7.96	20.21	20.84	0.63	20.49	21.23	0.74	20.56	22.03	1.47	20.52	23.09	2.57	20.42	22.07	1.65	20.57	-
<b>2019 Intermediate Averages</b>				<b>21.01</b>	<b>20.88</b>	<b>-0.13</b>	<b>21.30</b>	<b>21.28</b>	<b>0.27</b>	<b>21.36</b>	<b>22.01</b>	<b>0.65</b>	<b>21.35</b>	<b>23.02</b>	<b>1.67</b>	<b>21.20</b>	<b>22.08</b>	<b>0.88</b>	<b>21.38</b>	-
3/2/20	2.25	1	3.17	21.51	22.09	0.58	21.85	22.57	0.72	21.89	23.79	1.90	21.89	24.98	3.09	21.71	23.28	1.57	21.86	-
6/4/20	0.00	1	2.28	21.08	21.35	0.27	NM	21.87	-	NM	22.76	-	21.49	23.86	2.37	21.32	22.66	1.34	21.43	-
9/4/20	1.30	1	2.48	20.21	20.19	-0.02	20.53	20.50	-0.03	20.61	20.94	0.33	20.60	21.74	1.14	20.43	21.25	0.82	20.57	-
12/2/20	1.40	1	6.65	20.71	20.40	-0.31	21.09	21.80	0.71	21.15	22.58	1.43	21.13	23.71	2.58	20.99	22.66	1.67	21.11	-
<b>2020 Intermediate Averages</b>				<b>20.88</b>	<b>21.01</b>	<b>0.13</b>	<b>21.16</b>	<b>21.69</b>	<b>0.47</b>	<b>21.22</b>	<b>22.52</b>	<b>1.22</b>	<b>21.28</b>	<b>23.57</b>	<b>2.30</b>	<b>21.11</b>	<b>22.46</b>	<b>1.35</b>	<b>21.24</b>	-
3/8/21	2.19	1	2.61	21.78	22.25	0.47	22.14	22.78	0.64	22.25	23.97	1.72	22.22	25.17	2.95	21.93	23.50	1.57	22.18	-
<b>2021 Intermediate Averages</b>				<b>21.78</b>	<b>22.25</b>	<b>0.47</b>	<b>22.14</b>	<b>22.78</b>	<b>0.64</b>	<b>22.25</b>	<b>23.97</b>	<b>1.72</b>	<b>22.22</b>	<b>25.17</b>	<b>2.95</b>	<b>21.93</b>	<b>23.50</b>	<b>1.57</b>	<b>21.40</b>	-
<b>Deep</b>																				
2/6/12	-	-	3.63	-	23.94	1.67	-	24.06	1.51	-	24.44	0.50	-	25.03	-0.06	24.15	-	1.24	24.12	0.71
2/24/12	-	-	-	-	23.96	1.55	-	23.19	0.53	-	24.48	0.48	-	25.04	-0.14	24.15	-	2.03	24.14	1.51
3/13/12	-	-	7.20	-	24.13	1.60	-	24.30	1.85	-	24.64	0.50	-	25.13	-0.41	24.36	-	-0.10	24.34	-0.14
3/27/12	-	-	-	-	24.42	1.96	-	24.54	1.83	-	24.94	0.81	-	25.43	0.15	24.56	-	-1.57	24.56	-1.58
4/9/12	-	-	2.68	-	24.18	1.86	-	22.94	0.80	-	24.77	0.67	-	25.25	-0.05	24.40	-	-1.46	24.40	-1.54
5/4/12	-	-	2.05	-	23.73	1.90	-	23.91	1.46	-	24.24	0.36	-	24.87	-0.38	23.91	-	0.36	23.86	-0.06
5/7/12	-	-	-	-	23.71	1.92	-	23.86	1.55	-	24.27	0.45	-	24.83	-0.22	23.92	-	0.52	23.90	0.09
5/10/12	-	-	-	-	22.58	1.04	-	23.70	1.65	-	24.09	0.51	-	24.75	-0.06	23.73	-	0.74	23.72	0.29
6/11/12	-	-	2.96	-	23.44	1.93	-	23.62	1.67	-	23.98	0.61	-	24.57	0.03	23.66	-	1.95	23.65	1.57

Table 2

Summary of Groundwater Elevations in Paired Monitoring Points  
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
6/25/12	-	-	-	-	23.36	1.94	-	23.53	1.63	-	23.90	0.69	-	23.49	-0.94	23.56	-	2.01	23.55	1.68
7/3/12	-	-	1.04	-	23.16	2.09	-	23.34	1.78	-	23.73	0.85	-	24.25	0.20	23.37	-	2.16	23.37	1.82
7/18/12	-	-	-	-	22.91	2.25	-	23.09	1.96	-	23.47	1.08	-	23.95	0.47	23.13	-	2.26	23.12	1.93
8/9/12	-	-	0.00	-	22.59	2.28	-	22.75	2.00	-	23.04	1.07	-	23.62	0.63	22.74	-	2.23	22.72	1.91
9/19/12	-	-	0.03	-	21.93	2.22	-	22.05	1.97	-	22.37	1.31	-	22.78	0.76	22.10	-	1.81	22.09	1.62
10/8/12	-	-	6.71	-	21.91	2.27	-	22.06	2.06	-	22.33	1.49	-	22.71	1.03	22.05	-	1.47	22.05	1.36
11/9/12	-	-	8.28	-	22.79	1.67	-	22.45	0.95	-	23.19	0.69	-	23.69	0.08	22.95	-	0.51	22.94	0.42
12/3/12	-	-	6.85	-	23.44	1.68	-	23.48	1.20	-	23.87	0.12	-	24.49	-0.90	23.63	-	-0.52	23.64	-0.50
<b>2012 Deep Averages</b>				-	<b>23.20</b>	<b>1.92</b>	-	<b>23.18</b>	<b>1.57</b>	-	<b>23.69</b>	<b>0.74</b>	-	<b>24.22</b>	<b>0.08</b>	<b>23.39</b>	-	<b>0.88</b>	<b>23.38</b>	<b>0.65</b>
1/4/13	-	-	4.16	-	23.64	1.97	-	22.18	-0.03	-	24.14	0.37	-	24.72	-0.34	24.00	-	-0.95	23.91	-1.09
1/24/13	-	-	-	-	23.59	2.13	-	23.67	1.72	-	24.19	0.71	-	24.70	-0.03	23.81	-	0.25	23.83	0.02
2/1/13	-	-	1.58	-	23.57	1.74	-	23.45	1.15	-	24.09	0.27	-	24.58	-0.46	23.75	-	-0.80	23.80	-0.80
3/1/13	-	-	2.74	-	23.25	1.82	-	NM	-	-	23.80	0.48	-	24.33	-0.23	23.45	-	0.76	23.49	0.39
4/5/13	-	-	5.89	-	23.41	2.12	-	23.62	1.82	-	24.00	0.87	-	24.52	0.09	23.62	-	1.86	23.66	1.53
5/3/13	-	-	2.38	-	23.49	2.03	-	23.67	1.70	-	24.04	0.65	-	24.68	0.06	22.71	-	0.33	23.40	0.65
5/14/13	-	-	-	-	23.26	2.12	-	23.50	1.86	-	23.86	0.81	-	24.39	0.19	23.45	-	1.02	23.47	0.84
6/7/13	-	-	1.30	-	23.09	2.21	-	23.29	1.93	-	23.66	0.88	-	24.16	0.24	23.28	-	0.75	23.31	0.52
7/12/13	-	-	0.00	-	22.66	2.22	-	22.83	1.98	-	23.18	1.12	-	23.66	0.53	22.81	-	1.44	22.85	1.34
8/6/13	-	-	1.35	-	22.27	2.32	-	22.42	2.04	-	22.74	1.34	-	23.26	0.82	22.40	-	1.22	22.45	1.07
9/9/13	-	-	6.17	-	22.23	1.85	-	22.30	1.50	-	22.60	0.81	-	23.11	0.18	22.32	-	1.70	22.36	1.54
10/11/13	-	-	1.54	-	22.69	1.60	-	22.72	1.21	-	23.14	0.49	-	23.12	-0.78	22.82	-	1.76	22.86	1.64
11/8/13	-	-	3.79	-	22.61	1.80	-	22.75	1.50	-	23.06	0.60	-	23.60	-0.16	22.76	-	1.45	22.80	1.37
12/6/13	-	-	1.66	-	22.78	2.01	-	NM	-	-	23.40	1.01	-	23.67	0.16	22.95	-	1.35	22.99	1.29
<b>2013 Deep Averages</b>				-	<b>22.97</b>	<b>1.97</b>	-	<b>22.92</b>	<b>1.48</b>	-	<b>23.49</b>	<b>0.74</b>	-	<b>23.95</b>	<b>0.01</b>	<b>23.07</b>	-	<b>0.91</b>	<b>23.15</b>	<b>0.79</b>
1/13/14	-	-	3.70	-	22.87	1.73	-	NM	-	-	23.31	0.35	-	23.88	-0.55	23.08	-	0.73	23.05	0.57
2/7/14	-	-	6.11	-	23.24	2.27	-	23.43	2.01	-	23.85	1.08	-	-	-	23.49	-	1.42	23.51	1.26
3/14/14	-	-	9.44	-	24.18	1.75	-	24.42	1.51	-	23.74	-0.67	-	25.38	-0.36	24.45	-	1.00	24.45	-0.08
4/11/14	-	-	4.18	-	23.78	2.01	-	23.99	1.72	-	24.39	0.63	-	24.94	-0.07	24.08	-	-0.28	24.09	-0.43
5/8/14	-	-	3.15	-	24.08	1.89	-	24.29	1.63	-	24.67	0.57	-	25.24	-0.13	24.38	-	-0.60	24.38	-0.75
6/5/14	-	-	0.73	-	23.26	2.16	-	23.55	2.00	-	23.85	0.89	-	24.38	0.29	23.51	-	-0.10	23.52	-0.28
7/3/14	-	-	0.77	-	22.69	2.17	-	22.88	1.94	-	23.25	1.06	-	23.70	0.45	22.95	-	1.45	22.95	1.18
8/6/14	-	-	1.81	-	22.20	2.08	-	22.39	1.88	-	22.71	1.16	-	23.14	0.58	22.45	-	1.67	22.45	1.46
9/4/14	-	-	2.23	-	22.06	1.90	-	22.20	3.65	-	22.51	0.98	-	23.00	0.39	22.30	-	1.88	22.29	1.69
10/10/14	-	-	6.75	-	22.00	2.06	-	22.23	1.89	-	22.44	1.18	-	22.93	0.66	22.24	-	1.95	22.22	1.77
11/13/14	-	-	4.84	-	23.04	1.70	-	23.26	1.52	-	23.55	0.61	-	24.07	-0.04	23.28	-	2.08	23.29	1.87
12/5/14	-	-	4.79	-	23.25	1.80	-	23.49	1.61	-	23.81	0.63	-	24.38	-0.06	23.51	-	2.28	23.53	2.07
<b>2014 Deep Averages</b>				-	<b>23.05</b>	<b>1.96</b>	-	<b>23.28</b>	<b>1.94</b>	-	<b>23.51</b>	<b>0.71</b>	-	<b>24.09</b>	<b>0.11</b>	<b>23.31</b>	-	<b>1.12</b>	<b>23.31</b>	<b>0.86</b>

Table 2

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BSB Property, Kent, Washington**

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
1/14/15	–	–	3.66	–	23.46	1.69	–	23.72	1.50	–	24.05	0.54	–	24.56	-0.11	23.71	–	2.20	23.73	1.94
2/13/15	–	–	5.27	–	23.93	1.55	–	24.15	1.81	–	24.47	0.26	–	25.12	-0.37	24.16	–	2.24	24.19	1.96
3/13/15	–	–	4.47	–	23.51	1.87	–	23.79	1.68	–	24.16	0.72	–	24.65	0.01	23.75	–	2.64	23.78	2.21
4/10/15	–	–	2.03	–	23.68	1.88	–	23.96	1.70	–	24.30	0.72	–	24.80	0.04	23.92	–	2.24	23.96	2.02
5/1/15	–	–	0.58	–	23.31	1.90	–	23.58	1.73	–	23.91	0.76	–	24.40	0.11	23.53	–	2.20	23.55	2.00
6/5/15	–	–	0.23	–	22.68	1.97	–	22.87	1.75	–	23.19	0.98	–	23.65	0.41	22.88	–	2.13	22.90	1.98
7/2/15	–	–	0.09	–	22.22	2.01	–	22.45	1.88	–	22.72	1.26	–	23.14	0.75	22.45	–	1.97	22.48	1.84
8/7/15	–	–	3.28	–	21.68	2.01	–	21.89	1.89	–	22.11	1.40	–	22.50	0.96	21.87	–	1.73	21.89	1.61
9/4/15	–	–	0.83	–	21.60	1.66	–	21.74	1.46	–	21.98	1.04	–	22.39	0.51	21.77	–	1.77	21.78	1.66
10/16/15	–	–	4.81	–	21.86	1.60	–	21.96	1.40	–	22.20	1.08	–	22.66	0.62	22.01	–	2.15	22.01	2.05
11/6/15	–	–	8.37	–	22.05	1.35	–	22.12	1.10	–	22.38	0.52	–	22.91	-0.11	22.19	–	2.29	22.19	2.17
12/4/15	–	–	11.21	–	23.17	1.53	–	23.18	1.14	–	23.64	0.45	–	24.16	-0.43	23.37	–	2.69	23.38	2.52
<b>2015 Deep Averages</b>				–	<b>22.76</b>	<b>1.75</b>	–	<b>22.95</b>	<b>1.59</b>	–	<b>23.26</b>	<b>0.81</b>	–	<b>23.75</b>	<b>0.20</b>	<b>22.97</b>	–	<b>2.19</b>	<b>22.98</b>	<b>2.00</b>
1/6/16	–	–	7.45	–	24.14	1.85	–	24.34	1.61	–	24.73	0.64	–	25.25	-0.04	24.33	–	2.91	24.37	2.69
2/5/16	–	–	5.97	–	24.19	1.58	–	24.41	1.32	–	24.75	0.28	–	25.31	-0.49	22.33	–	0.49	23.73	0.89
3/4/16	–	–	5.52	–	24.41	1.59	–	24.67	1.37	–	25.04	0.39	–	25.54	-0.45	23.62	–	1.54	24.34	1.95
4/1/16	–	–	1.19	–	23.96	1.76	–	24.20	1.53	–	24.54	0.55	–	25.04	-0.16	24.15	–	2.37	24.20	2.17
5/6/16	–	–	0.94	–	23.30	1.94	–	23.54	1.73	–	23.85	0.91	–	24.31	0.33	23.47	–	2.35	23.53	2.23
6/2/16	–	–	1.77	–	22.92	1.91	–	23.14	1.73	–	23.40	1.06	–	23.83	0.54	23.05	–	2.25	23.09	2.14
7/7/16	–	–	0.72	–	22.65	1.91	–	22.85	1.75	–	23.12	1.26	–	23.38	0.55	22.80	–	2.25	22.85	2.13
8/5/16	–	–	0.17	–	22.30	1.96	–	22.55	1.86	–	22.76	1.39	–	23.18	0.95	22.45	–	2.02	22.49	1.92
9/26/16	–	–	1.05	–	21.77	1.84	–	21.94	1.69	–	22.20	1.49	–	22.57	1.11	21.92	–	1.86	21.95	1.76
10/14/16	–	–	10.05	–	22.35	1.46	–	22.42	1.25	–	22.75	1.41	–	23.11	0.77	22.48	–	2.14	22.52	2.05
11/11/16	–	–	6.48	–	23.28	1.48	–	23.44	1.21	–	23.74	0.42	–	24.29	-0.31	23.45	–	2.37	23.49	2.26
12/2/16	–	–	3.87	–	23.41	1.55	–	23.57	1.23	–	23.89	0.31	–	24.48	-0.40	23.58	–	2.47	23.62	2.36
<b>2016 Deep Averages</b>				–	<b>23.22</b>	<b>1.74</b>	–	<b>23.42</b>	<b>1.52</b>	–	<b>23.73</b>	<b>0.84</b>	–	<b>24.19</b>	<b>0.20</b>	<b>23.14</b>	–	<b>2.09</b>	<b>23.35</b>	<b>2.05</b>
1/13/17	–	–	4.22	–	23.20	1.56	–	23.44	1.39	–	23.69	0.38	–	24.18	-0.35	23.35	–	2.26	23.38	2.11
2/3/17	–	–	8.85	–	23.82	1.75	–	24.10	1.51	–	24.52	0.67	–	25.03	-0.08	24.32	–	2.70	24.19	2.26
3/3/17	–	–	7.31	–	24.28	1.60	–	24.64	1.36	–	24.94	0.33	–	25.52	-0.33	23.50	–	1.60	24.21	1.87
5/4/17	–	–	3.27	–	24.25	1.72	–	24.43	0.41	–	24.80	0.61	–	25.80	0.42	24.38	–	1.87	24.43	1.62
6/27/17	–	–	1.52	–	23.10	2.00	–	23.29	1.68	–	23.55	1.01	–	23.97	0.51	23.22	–	2.34	23.25	2.25
9/25/17	–	–	0.59	–	21.89	1.52	–	22.86	2.56	–	22.39	1.44	–	23.55	0.94	22.20	–	2.43	22.12	1.41
12/14/17	–	–	5.43	–	23.34	1.70	–	23.44	1.32	–	23.87	0.65	–	NM	–	23.69	–	1.92	23.63	1.74
<b>2017 Deep Averages</b>				–	<b>23.41</b>	<b>1.69</b>	–	<b>23.74</b>	<b>1.46</b>	–	<b>23.97</b>	<b>0.73</b>	–	<b>24.68</b>	<b>0.19</b>	<b>23.52</b>	–	<b>2.16</b>	<b>23.60</b>	<b>1.89</b>
3/12/18	–	–	2.44	–	23.86	1.83	–	NM	–	–	24.39	0.80	–	NM	–	24.15	–	0.89	24.12	0.66
6/30/18	–	–	0.63	–	22.69	1.95	–	22.85	1.73	–	NM	–	–	23.62	0.78	22.96	–	2.22	22.91	1.95
9/17/18	–	–	1.63	–	21.69	1.63	–	21.87	1.51	–	21.84	1.17	–	23.46	2.01	22.04	–	1.81	21.96	1.66



Table 2

Summary of Groundwater Elevations in Paired Monitoring Points  
BSB Property, Kent, Washington

Date	Pump Rate (gpm)	Cell Pumped	Monthly Rainfall (inches)	Groundwater Elevations																
				Northeast Corner			North Boundary			Northwest Corner			Southwest Corner			East Boundary			Center	
				Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	Outside	ΔH	Inside	ΔH
12/10/18	–	–	6.08	–	22.70	1.47	–	NM	–	–	22.89	0.56	–	23.59	-0.21	23.01	–	2.45	22.91	2.24
<b>2018 Deep Averages</b>				–	<b>22.74</b>	<b>1.72</b>	–	<b>22.36</b>	<b>1.62</b>	–	<b>23.04</b>	<b>0.84</b>	–	<b>23.56</b>	<b>0.69</b>	<b>23.04</b>	–	<b>1.84</b>	<b>22.97</b>	<b>1.63</b>
3/18/19	–	–	1.37	–	23.61	1.74	–	23.83	1.51	–	22.89	<sup>b</sup> –	–	24.62	0.07	23.94	–	2.14	23.89	1.71
6/21/19	–	–	0.90	–	22.70	1.89	–	22.73	–	–	21.75	<sup>b</sup> –	–	23.46	0.57	22.92	–	0.78	22.85	0.66
9/3/19	–	–	3.32	–	22.01	2.00	–	22.10	1.80	–	21.12	<sup>b</sup> –	–	22.78	1.24	22.24	–	1.80	22.17	1.61
12/9/19	–	–	7.96	–	22.56	1.72	–	22.63	1.40	–	21.73	<sup>b</sup> –	–	23.48	0.39	22.88	–	2.46	22.82	2.25
<b>2019 Deep Averages</b>				–	<b>22.72</b>	<b>1.84</b>	–	<b>22.82</b>	<b>1.57</b>	–	<b>21.87</b>	<sup>b</sup> –	–	<b>23.59</b>	<b>0.57</b>	<b>23.00</b>	–	<b>1.80</b>	<b>22.93</b>	<b>1.56</b>
3/2/20	–	–	3.17	–	23.89	1.80	–	24.14	1.57	–	23.24	<sup>b</sup> –	–	25.02	0.04	24.25	–	2.54	24.20	2.34
6/4/20	–	–	2.28	–	23.19	1.84	–	23.37	1.50	–	22.41	<sup>b</sup> –	–	24.16	0.30	23.45	–	2.13	23.41	1.98
9/4/20	–	–	2.48	–	22.14	1.95	–	22.33	1.83	–	21.32	<sup>b</sup> –	–	23.00	1.26	23.72	–	3.29	22.82	2.25
12/2/20	–	–	6.65	–	23.06	2.66	–	23.22	1.42	–	22.27	<sup>b</sup> –	–	24.05	0.34	23.35	–	2.36	23.31	2.19
<b>2020 Deep Averages</b>				–	<b>23.07</b>	<b>2.06</b>	–	<b>23.27</b>	<b>1.58</b>	–	<b>22.31</b>	<sup>b</sup> –	–	<b>24.06</b>	<b>0.48</b>	<b>23.69</b>	–	<b>2.58</b>	<b>23.44</b>	<b>2.19</b>
3/8/21	–	–	2.61	–	24.11	1.86	–	24.33	1.55	–	23.47	<sup>b</sup> –	–	25.19	0.02	24.45	–	2.52	24.42	2.24
<b>2021 Deep Averages</b>				–	<b>24.11</b>	<b>1.86</b>	–	<b>24.33</b>	<b>1.55</b>	–	<b>23.47</b>	<sup>b</sup> –	–	<b>25.19</b>	<b>0.02</b>	<b>24.45</b>	–	<b>2.52</b>	<b>24.42</b>	<b>2.24</b>

**Notes:**

1. Shallow and intermediate groundwater comparisons are for monitoring points installed across the soil-bentonite cutoff wall from each other.
2. Deep to intermediate groundwater comparisons are for co-located monitoring monitoring points installed above and below the Layer C aquitard.
3. All elevations in feet relative to the North American Vertical Datum (NAVD 88).
4. ΔH = groundwater elevation difference; positive = inward or upward gradient, which is shaded in blue, and negative = outward or downward gradient, which is shaded in red.
5. – = not available or not applicable; NM = not measured; gpm = gallons per minutes; precipitation measured at SeaTac airport (station 457473).
6. Northeast corner monitoring points = inside: P-1 (shallow), P-2 (intermediate); outside: P-3 (shallow), P-4 (intermediate), HY-108 (deep).
7. North boundary monitoring points = inside: P-5 (shallow), P-6 (intermediate); outside: HYCP-7s (shallow), HYCP-7i (intermediate), HYCP-7d (deep).
8. Northwest corner monitoring points = inside: P-7 (shallow), P-8 (intermediate); outside: HY-1s (shallow), HY-1i (intermediate), HY-1d (deep).
9. Southwest corner monitoring points = inside: P-9 (shallow), P-10 (intermediate); outside: P-11 (shallow), P-12 (intermediate), HY-11d (deep).
10. East boundary monitoring points = inside: P-13 (shallow), P-14 (intermediate), HY-125 (deep); outside: P-15 (shallow), P-16 (intermediate).
11. Center monitoring points = inside: HYCP-3i, HY-12i, and HY-13i (intermediate); outside: HY-117, HY-122, and HY-125 (deep).
12. Center groundwater elevations represent averages of HYCP-3i, HY-12i, and HY-13i (intermediate) and HY-117, HY-122, and HY-125 (deep).

<sup>a</sup> Groundwater elevation suspect based on change in groundwater elevation from previous month compared to other wells.

<sup>b</sup> Well monument and top of PVC retrofitted in late 2018; well head yet to be resurveyed.



**ATTACHMENT A**  
**March 2021 Analytical Laboratory Report**  
**and Data Validation Memorandum**



**PES Environmental, Inc.**  
Bill Haldeman  
1215 Fourth Avenue, Suite 1350  
Seattle, WA 98161

**RE: BSB**  
**Work Order Number: 2103221**

March 23, 2021

**Attention Bill Haldeman:**

Fremont Analytical, Inc. received 17 sample(s) on 3/12/2021 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager



Date: 03/23/2021

**CLIENT:** PES Environmental, Inc.  
**Project:** BSB  
**Work Order:** 2103221

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2103221-001	MW101-031021	03/10/2021 9:30 AM	03/12/2021 4:18 PM
2103221-002	HY-1s-031021	03/10/2021 10:25 AM	03/12/2021 4:18 PM
2103221-003	HY-1i-031021	03/10/2021 11:15 AM	03/12/2021 4:18 PM
2103221-004	HY-13i-031021	03/10/2021 12:10 PM	03/12/2021 4:18 PM
2103221-005	HY-3i-031021	03/10/2021 1:55 PM	03/12/2021 4:18 PM
2103221-006	HY-12i-031021	03/10/2021 3:00 PM	03/12/2021 4:18 PM
2103221-007	HYCP-2-031021	03/10/2021 3:55 PM	03/12/2021 4:18 PM
2103221-008	HYCP-2i-031021	03/10/2021 4:35 PM	03/12/2021 4:18 PM
2103221-009	HYCP-7s-031121	03/11/2021 10:20 AM	03/12/2021 4:18 PM
2103221-010	HYCP-7i-031121	03/11/2021 11:15 AM	03/12/2021 4:18 PM
2103221-011	HY-11s-031121	03/11/2021 12:55 PM	03/12/2021 4:18 PM
2103221-012	HY-11i-031121	03/11/2021 1:30 PM	03/12/2021 4:18 PM
2103221-013	HS-031121	03/11/2021 2:40 PM	03/12/2021 4:18 PM
2103221-014	Hi-031121	03/11/2021 3:15 PM	03/12/2021 4:18 PM
2103221-015	Gi-031121	03/11/2021 4:10 PM	03/12/2021 4:18 PM
2103221-016	Gs-031121	03/11/2021 5:15 PM	03/12/2021 4:18 PM
2103221-017	TB-031221-1	03/12/2021 3:00 PM	03/12/2021 4:18 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** PES Environmental, Inc.

**Project:** BSB

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

### Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 9:30:00 AM

**Project:** BSB

**Lab ID:** 2103221-001

**Matrix:** Groundwater

**Client Sample ID:** MW101-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 4:02:29 PM
Vinyl chloride	13.7	0.200		µg/L	1	3/18/2021 4:02:29 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 4:02:29 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
cis-1,2-Dichloroethene	2.73	0.500		µg/L	1	3/18/2021 4:02:29 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 4:02:29 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 4:02:29 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 9:30:00 AM

**Project:** BSB

**Lab ID:** 2103221-001

**Matrix:** Groundwater

**Client Sample ID:** MW101-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 4:02:29 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 4:02:29 PM
Surr: Toluene-d8	100	87.8 - 114		%Rec	1	3/18/2021 4:02:29 PM
Surr: 1-Bromo-4-fluorobenzene	95.1	86.8 - 109		%Rec	1	3/18/2021 4:02:29 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)





**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 10:25:00 AM

**Project:** BSB

**Lab ID:** 2103221-002

**Matrix:** Groundwater

**Client Sample ID:** HY-1s-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 5:02:45 PM
Vinyl chloride	13.8	0.200		µg/L	1	3/18/2021 5:02:45 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 5:02:45 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
cis-1,2-Dichloroethene	2.53	0.500		µg/L	1	3/18/2021 5:02:45 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 5:02:45 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 5:02:45 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 10:25:00 AM

**Project:** BSB

**Lab ID:** 2103221-002

**Matrix:** Groundwater

**Client Sample ID:** HY-1s-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 5:02:45 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 5:02:45 PM
Surr: Toluene-d8	99.6	87.8 - 114		%Rec	1	3/18/2021 5:02:45 PM
Surr: 1-Bromo-4-fluorobenzene	93.4	86.8 - 109		%Rec	1	3/18/2021 5:02:45 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 11:15:00 AM

**Project:** BSB

**Lab ID:** 2103221-003

**Matrix:** Groundwater

**Client Sample ID:** HY-1i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 5:32:51 PM
Vinyl chloride	0.522	0.200		µg/L	1	3/18/2021 5:32:51 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 5:32:51 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1-Dichloroethane	0.817	0.500		µg/L	1	3/18/2021 5:32:51 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 5:32:51 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 5:32:51 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 11:15:00 AM

**Project:** BSB

**Lab ID:** 2103221-003

**Matrix:** Groundwater

**Client Sample ID:** HY-1i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 5:32:51 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Surr: Dibromofluoromethane	100	89.4 - 113		%Rec	1	3/18/2021 5:32:51 PM
Surr: Toluene-d8	98.2	87.8 - 114		%Rec	1	3/18/2021 5:32:51 PM
Surr: 1-Bromo-4-fluorobenzene	93.3	86.8 - 109		%Rec	1	3/18/2021 5:32:51 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 12:10:00 PM

**Project:** BSB

**Lab ID:** 2103221-004

**Matrix:** Groundwater

**Client Sample ID:** HY-13i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
Chloromethane	ND	7.89	DMDL	µg/L	10	3/19/2021 3:03:09 AM
Vinyl chloride	1,120	100	D	µg/L	500	3/19/2021 2:02:51 AM
Bromomethane	ND	5.00	DQ	µg/L	10	3/19/2021 3:03:09 AM
Trichlorofluoromethane (CFC-11)	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Chloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1-Dichloroethene	46.7	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Methylene chloride	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
trans-1,2-Dichloroethene	106	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1-Dichloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
cis-1,2-Dichloroethene	6,070	250	D	µg/L	500	3/19/2021 2:02:51 AM
Chloroform	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
1,1,1-Trichloroethane (TCA)	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1-Dichloropropene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Carbon tetrachloride	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2-Dichloroethane (EDC)	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Trichloroethene (TCE)	195	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2-Dichloropropane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Bromodichloromethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Dibromomethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
cis-1,3-Dichloropropene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
trans-1,3-Dichloropropylene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1,2-Trichloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,3-Dichloropropane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Tetrachloroethene (PCE)	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Dibromochloromethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2-Dibromoethane (EDB)	ND	2.00	D	µg/L	10	3/19/2021 3:03:09 AM
Chlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1,1,2-Tetrachloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Bromoform	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1,1,2,2-Tetrachloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Bromobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
2-Chlorotoluene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
4-Chlorotoluene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2,3-Trichloropropane	ND	20.0	D	µg/L	10	3/19/2021 3:03:09 AM
1,2,4-Trichlorobenzene	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
1,3-Dichlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,4-Dichlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2-Dichlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 12:10:00 PM

**Project:** BSB

**Lab ID:** 2103221-004

**Matrix:** Groundwater

**Client Sample ID:** HY-13i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
Hexachloro-1,3-butadiene	ND	20.0	D	µg/L	10	3/19/2021 3:03:09 AM
1,2,3-Trichlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Surr: Dibromofluoromethane	102	89.4 - 113	D	%Rec	10	3/19/2021 3:03:09 AM
Surr: Toluene-d8	98.8	87.8 - 114	D	%Rec	10	3/19/2021 3:03:09 AM
Surr: 1-Bromo-4-fluorobenzene	94.6	86.8 - 109	D	%Rec	10	3/19/2021 3:03:09 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Diluted due to matrix.

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 1:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-005

**Matrix:** Groundwater

**Client Sample ID:** HY-3i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
Chloromethane	ND	15.8	DMDL	µg/L	20	3/19/2021 5:03:40 AM
Vinyl chloride	5,770	200	D	µg/L	1000	3/18/2021 3:02:14 PM
Bromomethane	ND	10.0	DQ	µg/L	20	3/19/2021 5:03:40 AM
Trichlorofluoromethane (CFC-11)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Chloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1-Dichloroethene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Methylene chloride	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
trans-1,2-Dichloroethene	41.0	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1-Dichloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
cis-1,2-Dichloroethene	9,180	500	D	µg/L	1000	3/18/2021 3:02:14 PM
Chloroform	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1,1-Trichloroethane (TCA)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1-Dichloropropene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Carbon tetrachloride	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2-Dichloroethane (EDC)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Trichloroethene (TCE)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2-Dichloropropane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Bromodichloromethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Dibromomethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
cis-1,3-Dichloropropene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
trans-1,3-Dichloropropylene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1,2-Trichloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,3-Dichloropropane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Tetrachloroethene (PCE)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Dibromochloromethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2-Dibromoethane (EDB)	ND	4.00	D	µg/L	20	3/19/2021 5:03:40 AM
Chlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1,1,2-Tetrachloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Bromoform	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1,2,2-Tetrachloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Bromobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
2-Chlorotoluene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
4-Chlorotoluene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2,3-Trichloropropane	ND	40.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2,4-Trichlorobenzene	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,3-Dichlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,4-Dichlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2-Dichlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM





**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 1:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-005

**Matrix:** Groundwater

**Client Sample ID:** HY-3i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
Hexachloro-1,3-butadiene	ND	40.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2,3-Trichlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Surr: Dibromofluoromethane	100	89.4 - 113	D	%Rec	20	3/19/2021 5:03:40 AM
Surr: Toluene-d8	98.8	87.8 - 114	D	%Rec	20	3/19/2021 5:03:40 AM
Surr: 1-Bromo-4-fluorobenzene	94.4	86.8 - 109	D	%Rec	20	3/19/2021 5:03:40 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Diluted due to matrix.

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 3:00:00 PM

**Project:** BSB

**Lab ID:** 2103221-006

**Matrix:** Groundwater

**Client Sample ID:** HY-12i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
Chloromethane	ND	39.4	DMDL	µg/L	50	3/19/2021 3:33:17 AM
Vinyl chloride	16,700	100	D	µg/L	500	3/19/2021 2:33:00 AM
Bromomethane	ND	25.0	DQ	µg/L	50	3/19/2021 3:33:17 AM
Trichlorofluoromethane (CFC-11)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Chloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1-Dichloroethene	173	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Methylene chloride	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
trans-1,2-Dichloroethene	1,240	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1-Dichloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
cis-1,2-Dichloroethene	36,000	2,500	D	µg/L	5000	3/18/2021 3:32:22 PM
Chloroform	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1,1-Trichloroethane (TCA)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1-Dichloropropene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Carbon tetrachloride	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2-Dichloroethane (EDC)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Trichloroethene (TCE)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2-Dichloropropane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Bromodichloromethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Dibromomethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
cis-1,3-Dichloropropene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
trans-1,3-Dichloropropylene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1,2-Trichloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,3-Dichloropropane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Tetrachloroethene (PCE)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Dibromochloromethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2-Dibromoethane (EDB)	ND	10.0	D	µg/L	50	3/19/2021 3:33:17 AM
Chlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1,1,2-Tetrachloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Bromoform	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1,2,2-Tetrachloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Bromobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
2-Chlorotoluene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
4-Chlorotoluene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2,3-Trichloropropane	ND	100	D	µg/L	50	3/19/2021 3:33:17 AM
1,2,4-Trichlorobenzene	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,3-Dichlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,4-Dichlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2-Dichlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 3:00:00 PM

**Project:** BSB

**Lab ID:** 2103221-006

**Matrix:** Groundwater

**Client Sample ID:** HY-12i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
Hexachloro-1,3-butadiene	ND	100	D	µg/L	50	3/19/2021 3:33:17 AM
1,2,3-Trichlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Surr: Dibromofluoromethane	102	89.4 - 113	D	%Rec	50	3/19/2021 3:33:17 AM
Surr: Toluene-d8	99.1	87.8 - 114	D	%Rec	50	3/19/2021 3:33:17 AM
Surr: 1-Bromo-4-fluorobenzene	94.4	86.8 - 109	D	%Rec	50	3/19/2021 3:33:17 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Diluted due to matrix.

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 3:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-007

**Matrix:** Groundwater

**Client Sample ID:** HYCP-2-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 6:02:57 PM
Vinyl chloride	2.18	0.200		µg/L	1	3/18/2021 6:02:57 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 6:02:57 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
cis-1,2-Dichloroethene	0.852	0.500		µg/L	1	3/18/2021 6:02:57 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 6:02:57 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 6:02:57 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 3:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-007

**Matrix:** Groundwater

**Client Sample ID:** HYCP-2-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 6:02:57 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Surr: Dibromofluoromethane	102	89.4 - 113		%Rec	1	3/18/2021 6:02:57 PM
Surr: Toluene-d8	99.7	87.8 - 114		%Rec	1	3/18/2021 6:02:57 PM
Surr: 1-Bromo-4-fluorobenzene	94.4	86.8 - 109		%Rec	1	3/18/2021 6:02:57 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 4:35:00 PM

**Project:** BSB

**Lab ID:** 2103221-008

**Matrix:** Groundwater

**Client Sample ID:** HYCP-2i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 6:33:05 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 6:33:05 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 6:33:05 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 6:33:05 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 6:33:05 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 4:35:00 PM

**Project:** BSB

**Lab ID:** 2103221-008

**Matrix:** Groundwater

**Client Sample ID:** HYCP-2i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 6:33:05 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Surr: Dibromofluoromethane	102	89.4 - 113		%Rec	1	3/18/2021 6:33:05 PM
Surr: Toluene-d8	99.9	87.8 - 114		%Rec	1	3/18/2021 6:33:05 PM
Surr: 1-Bromo-4-fluorobenzene	93.8	86.8 - 109		%Rec	1	3/18/2021 6:33:05 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)





**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 10:20:00 AM

**Project:** BSB

**Lab ID:** 2103221-009

**Matrix:** Groundwater

**Client Sample ID:** HYCP-7s-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 7:03:14 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 7:03:14 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 7:03:14 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 7:03:14 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 7:03:14 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 10:20:00 AM

**Project:** BSB

**Lab ID:** 2103221-009

**Matrix:** Groundwater

**Client Sample ID:** HYCP-7s-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 7:03:14 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Surr: Dibromofluoromethane	99.8	89.4 - 113		%Rec	1	3/18/2021 7:03:14 PM
Surr: Toluene-d8	98.9	87.8 - 114		%Rec	1	3/18/2021 7:03:14 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	86.8 - 109		%Rec	1	3/18/2021 7:03:14 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 11:15:00 AM

**Project:** BSB

**Lab ID:** 2103221-010

**Matrix:** Groundwater

**Client Sample ID:** HYCP-7i-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 7:33:21 PM
Vinyl chloride	0.427	0.200		µg/L	1	3/18/2021 7:33:21 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 7:33:21 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 7:33:21 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 7:33:21 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 11:15:00 AM

**Project:** BSB

**Lab ID:** 2103221-010

**Matrix:** Groundwater

**Client Sample ID:** HYCP-7i-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 7:33:21 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 7:33:21 PM
Surr: Toluene-d8	100	87.8 - 114		%Rec	1	3/18/2021 7:33:21 PM
Surr: 1-Bromo-4-fluorobenzene	95.1	86.8 - 109		%Rec	1	3/18/2021 7:33:21 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 12:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-011

**Matrix:** Groundwater

**Client Sample ID:** HY-11s-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 8:03:30 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 8:03:30 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 8:03:30 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 8:03:30 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 8:03:30 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 12:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-011

**Matrix:** Groundwater

**Client Sample ID:** HY-11s-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 8:03:30 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Surr: Dibromofluoromethane	98.0	89.4 - 113		%Rec	1	3/18/2021 8:03:30 PM
Surr: Toluene-d8	99.1	87.8 - 114		%Rec	1	3/18/2021 8:03:30 PM
Surr: 1-Bromo-4-fluorobenzene	92.1	86.8 - 109		%Rec	1	3/18/2021 8:03:30 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 1:30:00 PM

**Project:** BSB

**Lab ID:** 2103221-012

**Matrix:** Groundwater

**Client Sample ID:** HY-11i-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 8:33:38 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 8:33:38 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 8:33:38 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 8:33:38 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 8:33:38 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 1:30:00 PM

**Project:** BSB

**Lab ID:** 2103221-012

**Matrix:** Groundwater

**Client Sample ID:** HY-11i-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 8:33:38 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 8:33:38 PM
Surr: Toluene-d8	100	87.8 - 114		%Rec	1	3/18/2021 8:33:38 PM
Surr: 1-Bromo-4-fluorobenzene	94.9	86.8 - 109		%Rec	1	3/18/2021 8:33:38 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)





# Analytical Report

Work Order: 2103221  
Date Reported: 3/23/2021

**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 2:40:00 PM

**Project:** BSB

**Lab ID:** 2103221-013

**Matrix:** Groundwater

**Client Sample ID:** HS-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 9:03:45 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 9:03:45 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 9:03:45 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 9:03:45 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 9:03:45 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 2:40:00 PM

**Project:** BSB

**Lab ID:** 2103221-013

**Matrix:** Groundwater

**Client Sample ID:** HS-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 9:03:45 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Surr: Dibromofluoromethane	101	89.4 - 113		%Rec	1	3/18/2021 9:03:45 PM
Surr: Toluene-d8	98.5	87.8 - 114		%Rec	1	3/18/2021 9:03:45 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	86.8 - 109		%Rec	1	3/18/2021 9:03:45 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



# Analytical Report

Work Order: 2103221  
Date Reported: 3/23/2021

**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 3:15:00 PM

**Project:** BSB

**Lab ID:** 2103221-014

**Matrix:** Groundwater

**Client Sample ID:** Hi-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 9:33:53 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 9:33:53 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 9:33:53 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 9:33:53 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 9:33:53 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 3:15:00 PM

**Project:** BSB

**Lab ID:** 2103221-014

**Matrix:** Groundwater

**Client Sample ID:** Hi-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 9:33:53 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 9:33:53 PM
Surr: Toluene-d8	98.2	87.8 - 114		%Rec	1	3/18/2021 9:33:53 PM
Surr: 1-Bromo-4-fluorobenzene	95.0	86.8 - 109		%Rec	1	3/18/2021 9:33:53 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 4:10:00 PM

**Project:** BSB

**Lab ID:** 2103221-015

**Matrix:** Groundwater

**Client Sample ID:** Gi-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 10:04:00 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 10:04:00 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 10:04:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 10:04:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 10:04:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 4:10:00 PM

**Project:** BSB

**Lab ID:** 2103221-015

**Matrix:** Groundwater

**Client Sample ID:** Gi-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 10:04:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Surr: Dibromofluoromethane	100	89.4 - 113		%Rec	1	3/18/2021 10:04:00 PM
Surr: Toluene-d8	98.2	87.8 - 114		%Rec	1	3/18/2021 10:04:00 PM
Surr: 1-Bromo-4-fluorobenzene	92.4	86.8 - 109		%Rec	1	3/18/2021 10:04:00 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 5:15:00 PM

**Project:** BSB

**Lab ID:** 2103221-016

**Matrix:** Groundwater

**Client Sample ID:** Gs-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 10:34:07 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 10:34:07 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 10:34:07 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 10:34:07 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 10:34:07 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 5:15:00 PM

**Project:** BSB

**Lab ID:** 2103221-016

**Matrix:** Groundwater

**Client Sample ID:** Gs-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 10:34:07 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Surr: Dibromofluoromethane	104	89.4 - 113		%Rec	1	3/18/2021 10:34:07 PM
Surr: Toluene-d8	101	87.8 - 114		%Rec	1	3/18/2021 10:34:07 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	86.8 - 109		%Rec	1	3/18/2021 10:34:07 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)





# Analytical Report

Work Order: 2103221  
Date Reported: 3/23/2021

**Client:** PES Environmental, Inc.

**Collection Date:** 3/12/2021 3:00:00 PM

**Project:** BSB

**Lab ID:** 2103221-017

**Matrix:** Groundwater

**Client Sample ID:** TB-031221-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/19/2021 1:32:42 AM
Chloromethane	ND	0.789	MDL	µg/L	1	3/19/2021 1:32:42 AM
Vinyl chloride	ND	0.200		µg/L	1	3/19/2021 1:32:42 AM
Bromomethane	ND	0.500	Q	µg/L	1	3/19/2021 1:32:42 AM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Chloroethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Methylene chloride	ND	1.00		µg/L	1	3/19/2021 1:32:42 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Chloroform	ND	1.00		µg/L	1	3/19/2021 1:32:42 AM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Dibromomethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Dibromochloromethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/19/2021 1:32:42 AM
Chlorobenzene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Bromoform	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Bromobenzene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/19/2021 1:32:42 AM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/19/2021 1:32:42 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM

Original



**Client:** PES Environmental, Inc.

**Collection Date:** 3/12/2021 3:00:00 PM

**Project:** BSB

**Lab ID:** 2103221-017

**Matrix:** Groundwater

**Client Sample ID:** TB-031221-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/19/2021 1:32:42 AM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/19/2021 1:32:42 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/19/2021 1:32:42 AM
Surr: Dibromofluoromethane	100	89.4 - 113		%Rec	1	3/19/2021 1:32:42 AM
Surr: Toluene-d8	98.7	87.8 - 114		%Rec	1	3/19/2021 1:32:42 AM
Surr: 1-Bromo-4-fluorobenzene	94.1	86.8 - 109		%Rec	1	3/19/2021 1:32:42 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-31690</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>31690</b>					Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327758</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	17.0	1.00	20.00	0	84.8	80	120				
Chloromethane	21.9	2.00	20.00	0	110	80	120				
Vinyl chloride	18.2	0.200	20.00	0	90.8	80	120				
Bromomethane	14.1	1.00	20.00	0	70.3	80	120				S
Trichlorofluoromethane (CFC-11)	18.8	1.00	20.00	0	94.0	80	120				
Chloroethane	18.5	1.00	20.00	0	92.3	80	120				
1,1-Dichloroethene	18.8	1.00	20.00	0	93.9	80	120				
Methylene chloride	19.4	1.00	20.00	0	97.2	80	120				
trans-1,2-Dichloroethene	18.6	1.00	20.00	0	93.1	80	120				
1,1-Dichloroethane	18.7	1.00	20.00	0	93.5	80	120				
cis-1,2-Dichloroethene	19.4	1.00	20.00	0	96.8	80	120				
Chloroform	18.8	1.00	20.00	0	94.2	80	120				
1,1,1-Trichloroethane (TCA)	19.3	1.00	20.00	0	96.4	80	120				
1,1-Dichloropropene	19.1	1.00	20.00	0	95.5	80	120				
Carbon tetrachloride	19.0	1.00	20.00	0	94.8	80	120				
1,2-Dichloroethane (EDC)	19.0	1.00	20.00	0	95.0	80	120				
Trichloroethene (TCE)	18.8	0.500	20.00	0	94.2	80	120				
1,2-Dichloropropane	19.3	1.00	20.00	0	96.3	80	120				
Bromodichloromethane	19.4	1.00	20.00	0	96.9	80	120				
Dibromomethane	19.0	1.00	20.00	0	94.9	80	120				
cis-1,3-Dichloropropene	19.0	1.00	20.00	0	94.9	80	120				
trans-1,3-Dichloropropylene	19.0	1.00	20.00	0	94.8	80	120				
1,1,2-Trichloroethane	19.4	1.00	20.00	0	97.1	80	120				
1,3-Dichloropropane	19.5	1.00	20.00	0	97.6	80	120				
Tetrachloroethene (PCE)	19.6	1.00	20.00	0	98.1	80	120				
Dibromochloromethane	19.5	1.00	20.00	0	97.5	80	120				
1,2-Dibromoethane (EDB)	19.5	0.250	20.00	0	97.3	80	120				
Chlorobenzene	19.4	1.00	20.00	0	96.9	80	120				
1,1,1,2-Tetrachloroethane	20.0	1.00	20.00	0	100	80	120				
Bromoform	19.4	1.00	20.00	0	96.9	80	120				

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-31690</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327758</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	21.3	1.00	20.00	0	106	80	120				
Bromobenzene	19.1	1.00	20.00	0	95.7	80	120				
2-Chlorotoluene	19.1	1.00	20.00	0	95.6	80	120				
4-Chlorotoluene	19.3	1.00	20.00	0	96.7	80	120				
1,2,3-Trichloropropane	19.0	1.00	20.00	0	94.8	80	120				
1,2,4-Trichlorobenzene	19.3	2.00	20.00	0	96.6	80	120				
1,3-Dichlorobenzene	19.8	1.00	20.00	0	99.2	80	120				
1,4-Dichlorobenzene	19.7	1.00	20.00	0	98.5	80	120				
1,2-Dichlorobenzene	19.8	1.00	20.00	0	99.1	80	120				
1,2-Dibromo-3-chloropropane	19.5	1.00	20.00	0	97.3	80	120				
Hexachloro-1,3-butadiene	19.6	0.500	20.00	0	97.8	80	120				
1,2,3-Trichlorobenzene	19.9	4.00	20.00	0	99.7	80	120				
Surr: Dibromofluoromethane	26.2		25.00		105	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.7		25.00		94.7	80	120				

**NOTES:**

S - Outlying spike recovery observed (low bias). Samples will be qualified with a Q.

Sample ID: <b>MB-31690</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327758</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	1.00									
Chloromethane	ND	0.789									MDL
Vinyl chloride	ND	0.200									
Bromomethane	ND	1.00									Q
Trichlorofluoromethane (CFC-11)	ND	1.00									
Chloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
Methylene chloride	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									

**Work Order:** 2103221  
**CLIENT:** PES Environmental, Inc.  
**Project:** BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-31690</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327757</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
Chloroform	ND	1.00									
1,1,1-Trichloroethane (TCA)	ND	1.00									
1,1-Dichloropropene	ND	1.00									
Carbon tetrachloride	ND	1.00									
1,2-Dichloroethane (EDC)	ND	1.00									
Trichloroethene (TCE)	ND	0.500									
1,2-Dichloropropane	ND	1.00									
Bromodichloromethane	ND	1.00									
Dibromomethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
trans-1,3-Dichloropropylene	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,3-Dichloropropane	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Dibromochloromethane	ND	1.00									
1,2-Dibromoethane (EDB)	ND	0.250									
Chlorobenzene	ND	1.00									
1,1,1,2-Tetrachloroethane	ND	1.00									
Bromoform	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
Bromobenzene	ND	1.00									
2-Chlorotoluene	ND	1.00									
4-Chlorotoluene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	2.00									
1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-31690</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327757</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromo-3-chloropropane	ND	1.00									
Hexachloro-1,3-butadiene	ND	0.500									
1,2,3-Trichlorobenzene	ND	4.00									
Surr: Dibromofluoromethane	25.3		25.00		101	89.4	113				
Surr: Toluene-d8	24.9		25.00		99.6	87.8	114				
Surr: 1-Bromo-4-fluorobenzene	23.5		25.00		94.2	86.8	109				

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria  
 MDL - Analyte reported to Method Detection Limit (MDL)

Sample ID: <b>2103221-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>MW101-031021</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327726</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	1.00						0		30	
Chloromethane	ND	0.789						0		30	MDL
Vinyl chloride	13.4	0.200						13.65	1.69	30	
Bromomethane	ND	1.00						0		30	Q
Trichlorofluoromethane (CFC-11)	ND	1.00						0		30	
Chloroethane	ND	1.00						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
Methylene chloride	ND	1.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
1,1-Dichloroethane	ND	1.00						0		30	
cis-1,2-Dichloroethene	2.68	1.00						2.728	1.86	30	
Chloroform	ND	1.00						0		30	
1,1,1-Trichloroethane (TCA)	ND	1.00						0		30	
1,1-Dichloropropene	ND	1.00						0		30	
Carbon tetrachloride	ND	1.00						0		30	
1,2-Dichloroethane (EDC)	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	



Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2103221-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>MW101-031021</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327726</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloropropane	ND	1.00						0		30	
Bromodichloromethane	ND	1.00						0		30	
Dibromomethane	ND	1.00						0		30	
cis-1,3-Dichloropropene	ND	1.00						0		30	
trans-1,3-Dichloropropylene	ND	1.00						0		30	
1,1,2-Trichloroethane	ND	1.00						0		30	
1,3-Dichloropropane	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Dibromochloromethane	ND	1.00						0		30	
1,2-Dibromoethane (EDB)	ND	0.250						0		30	
Chlorobenzene	ND	1.00						0		30	
1,1,1,2-Tetrachloroethane	ND	1.00						0		30	
Bromoform	ND	1.00						0		30	
1,1,2,2-Tetrachloroethane	ND	1.00						0		30	
Bromobenzene	ND	1.00						0		30	
2-Chlorotoluene	ND	1.00						0		30	
4-Chlorotoluene	ND	1.00						0		30	
1,2,3-Trichloropropane	ND	1.00						0		30	
1,2,4-Trichlorobenzene	ND	2.00						0		30	
1,3-Dichlorobenzene	ND	1.00						0		30	
1,4-Dichlorobenzene	ND	1.00						0		30	
1,2-Dichlorobenzene	ND	1.00						0		30	
1,2-Dibromo-3-chloropropane	ND	1.00						0		30	
Hexachloro-1,3-butadiene	ND	0.500						0		30	
1,2,3-Trichlorobenzene	ND	4.00						0		30	
Surr: Dibromofluoromethane	25.5		25.00		102	89.4	113		0		
Surr: Toluene-d8	24.6		25.00		98.3	87.8	114		0		
Surr: 1-Bromo-4-fluorobenzene	23.7		25.00		95.0	86.8	109		0		

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2103221-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>MW101-031021</b>	Batch ID: <b>31690</b>	Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327726</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria  
 MDL - Analyte reported to Method Detection Limit (MDL)

Sample ID: <b>2103221-013AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>HS-031121</b>	Batch ID: <b>31690</b>	Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327745</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	13.0	1.00	20.00	0	64.9	8.59	168				
Chloromethane	17.3	2.00	20.00	0	86.4	31.6	166				
Vinyl chloride	18.0	0.200	20.00	0	89.9	57.3	148				
Bromomethane	17.8	1.00	20.00	0	89.1	36.5	177				
Trichlorofluoromethane (CFC-11)	19.9	1.00	20.00	0	99.7	80.9	136				
Chloroethane	19.5	1.00	20.00	0	97.4	73.2	140				
1,1-Dichloroethene	20.6	1.00	20.00	0	103	87.9	131				
Methylene chloride	20.3	1.00	20.00	0	101	85.1	127				
trans-1,2-Dichloroethene	19.6	1.00	20.00	0	98.1	87.7	128				
1,1-Dichloroethane	20.1	1.00	20.00	0	101	79.9	138				
cis-1,2-Dichloroethene	20.0	1.00	20.00	0	99.8	87.1	126				
Chloroform	20.3	1.00	20.00	0	101	89.6	126				
1,1,1-Trichloroethane (TCA)	20.3	1.00	20.00	0	102	90.8	127				
1,1-Dichloropropene	19.9	1.00	20.00	0	99.4	90.7	129				
Carbon tetrachloride	20.6	1.00	20.00	0	103	90.1	129				
1,2-Dichloroethane (EDC)	19.4	1.00	20.00	0	96.9	80.7	131				
Trichloroethene (TCE)	18.9	0.500	20.00	0	94.5	83.2	130				
1,2-Dichloropropane	19.5	1.00	20.00	0	97.7	79.8	135				
Bromodichloromethane	19.5	1.00	20.00	0	97.5	78.1	133				
Dibromomethane	19.8	1.00	20.00	0	98.8	77.9	134				
cis-1,3-Dichloropropene	17.7	1.00	20.00	0	88.5	75.1	128				
trans-1,3-Dichloropropylene	17.7	1.00	20.00	0	88.6	69.7	135				
1,1,2-Trichloroethane	19.7	1.00	20.00	0	98.5	77.5	132				



Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: 2103221-013AMS	SampType: MS	Units: µg/L				Prep Date: 3/18/2021	RunNo: 65987				
Client ID: HS-031121	Batch ID: 31690					Analysis Date: 3/18/2021	SeqNo: 1327745				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.3	1.00	20.00	0	96.3	77.4	133				
Tetrachloroethene (PCE)	20.0	1.00	20.00	0	100	84.6	133				
Dibromochloromethane	19.3	1.00	20.00	0	96.3	74.6	133				
1,2-Dibromoethane (EDB)	19.5	0.250	20.00	0	97.3	75.7	132				
Chlorobenzene	20.0	1.00	20.00	0	100	94.8	115				
1,1,1,2-Tetrachloroethane	19.4	1.00	20.00	0	97.2	87.1	119				
Bromoform	19.4	1.00	20.00	0	96.8	70.3	133				
1,1,1,2,2-Tetrachloroethane	21.9	1.00	20.00	0	109	76.7	137				
Bromobenzene	19.8	1.00	20.00	0	98.8	92.5	114				
2-Chlorotoluene	20.2	1.00	20.00	0	101	89.2	126				
4-Chlorotoluene	20.3	1.00	20.00	0	101	90.5	123				
1,2,3-Trichloropropane	18.6	1.00	20.00	0	92.8	66.9	131				
1,2,4-Trichlorobenzene	18.7	2.00	20.00	0	93.7	70.1	130				
1,3-Dichlorobenzene	19.8	1.00	20.00	0	98.9	93.4	118				
1,4-Dichlorobenzene	20.0	1.00	20.00	0	99.9	93.5	117				
1,2-Dichlorobenzene	19.8	1.00	20.00	0	99.0	92.3	119				
1,2-Dibromo-3-chloropropane	19.1	1.00	20.00	0	95.6	59.6	144				
Hexachloro-1,3-butadiene	19.8	0.500	20.00	0	98.9	71.3	139				
1,2,3-Trichlorobenzene	19.7	4.00	20.00	0	98.5	66.9	136				
Surr: Dibromofluoromethane	27.7		25.00		111	89.4	113				
Surr: Toluene-d8	25.7		25.00		103	87.8	114				
Surr: 1-Bromo-4-fluorobenzene	23.7		25.00		94.9	86.8	109				

Sample ID: 2103221-013AMSD	SampType: MSD	Units: µg/L				Prep Date: 3/18/2021	RunNo: 65987				
Client ID: HS-031121	Batch ID: 31690					Analysis Date: 3/18/2021	SeqNo: 1327746				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	12.8	1.00	20.00	0	63.9	8.59	168	12.97	1.44	30	
Chloromethane	16.8	2.00	20.00	0	84.2	31.6	166	17.28	2.56	30	
Vinyl chloride	17.8	0.200	20.00	0	89.2	57.3	148	17.98	0.817	30	

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2103221-013AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>HS-031121</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/18/2021</b>	SeqNo: <b>1327746</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromomethane	17.0	1.00	20.00	0	84.9	36.5	177	17.83	4.87	30	
Trichlorofluoromethane (CFC-11)	20.1	1.00	20.00	0	100	80.9	136	19.94	0.636	30	
Chloroethane	19.2	1.00	20.00	0	96.0	73.2	140	19.49	1.47	30	
1,1-Dichloroethene	20.8	1.00	20.00	0	104	87.9	131	20.62	0.974	30	
Methylene chloride	20.2	1.00	20.00	0	101	85.1	127	20.28	0.236	30	
trans-1,2-Dichloroethene	20.2	1.00	20.00	0	101	87.7	128	19.62	2.73	30	
1,1-Dichloroethane	20.3	1.00	20.00	0	102	79.9	138	20.13	1.07	30	
cis-1,2-Dichloroethene	20.0	1.00	20.00	0	100	87.1	126	19.97	0.340	30	
Chloroform	20.5	1.00	20.00	0	102	89.6	126	20.28	0.857	30	
1,1,1-Trichloroethane (TCA)	21.1	1.00	20.00	0	105	90.8	127	20.30	3.75	30	
1,1-Dichloropropene	20.6	1.00	20.00	0	103	90.7	129	19.88	3.41	30	
Carbon tetrachloride	21.3	1.00	20.00	0	107	90.1	129	20.59	3.56	30	
1,2-Dichloroethane (EDC)	19.9	1.00	20.00	0	99.4	80.7	131	19.37	2.63	30	
Trichloroethene (TCE)	20.1	0.500	20.00	0	100	83.2	130	18.89	6.01	30	
1,2-Dichloropropane	20.3	1.00	20.00	0	102	79.8	135	19.55	3.84	30	
Bromodichloromethane	20.5	1.00	20.00	0	102	78.1	133	19.50	5.02	30	
Dibromomethane	19.7	1.00	20.00	0	98.5	77.9	134	19.75	0.293	30	
cis-1,3-Dichloropropene	18.8	1.00	20.00	0	93.9	75.1	128	17.71	5.93	30	
trans-1,3-Dichloropropylene	18.9	1.00	20.00	0	94.3	69.7	135	17.72	6.26	30	
1,1,2-Trichloroethane	20.3	1.00	20.00	0	101	77.5	132	19.69	2.87	30	
1,3-Dichloropropane	20.3	1.00	20.00	0	102	77.4	133	19.26	5.43	30	
Tetrachloroethene (PCE)	21.0	1.00	20.00	0	105	84.6	133	20.03	4.74	30	
Dibromochloromethane	20.2	1.00	20.00	0	101	74.6	133	19.26	4.54	30	
1,2-Dibromoethane (EDB)	20.1	0.250	20.00	0	100	75.7	132	19.46	3.02	30	
Chlorobenzene	21.1	1.00	20.00	0	105	94.8	115	20.04	5.12	30	
1,1,1,2-Tetrachloroethane	21.2	1.00	20.00	0	106	87.1	119	19.44	8.59	30	
Bromoform	20.4	1.00	20.00	0	102	70.3	133	19.37	5.34	30	
1,1,2,2-Tetrachloroethane	23.0	1.00	20.00	0	115	76.7	137	21.88	5.19	30	
Bromobenzene	20.5	1.00	20.00	0	103	92.5	114	19.76	3.90	30	
2-Chlorotoluene	21.0	1.00	20.00	0	105	89.2	126	20.20	4.11	30	

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: 2103221-013AMSD	SampType: MSD	Units: µg/L				Prep Date: 3/18/2021	RunNo: 65987				
Client ID: HS-031121	Batch ID: 31690					Analysis Date: 3/18/2021	SeqNo: 1327746				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorotoluene	21.3	1.00	20.00	0	106	90.5	123	20.27	4.88	30	
1,2,3-Trichloropropane	19.2	1.00	20.00	0	95.8	66.9	131	18.56	3.22	30	
1,2,4-Trichlorobenzene	19.9	2.00	20.00	0	99.5	70.1	130	18.75	5.99	30	
1,3-Dichlorobenzene	20.9	1.00	20.00	0	104	93.4	118	19.78	5.48	30	
1,4-Dichlorobenzene	20.8	1.00	20.00	0	104	93.5	117	19.98	3.89	30	
1,2-Dichlorobenzene	20.9	1.00	20.00	0	104	92.3	119	19.80	5.15	30	
1,2-Dibromo-3-chloropropane	21.2	1.00	20.00	0	106	59.6	144	19.13	10.2	30	
Hexachloro-1,3-butadiene	21.3	0.500	20.00	0	106	71.3	139	19.79	7.15	30	
1,2,3-Trichlorobenzene	20.7	4.00	20.00	0	104	66.9	136	19.69	5.18	30	
Surr: Dibromofluoromethane	26.7		25.00		107	89.4	113		0		
Surr: Toluene-d8	25.3		25.00		101	87.8	114		0		
Surr: 1-Bromo-4-fluorobenzene	24.1		25.00		96.2	86.8	109		0		

Sample ID: 2103221-006AMS	SampType: MS	Units: µg/L				Prep Date: 3/18/2021	RunNo: 65987				
Client ID: HY-12i-031021	Batch ID: 31690					Analysis Date: 3/19/2021	SeqNo: 1327736				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	6,190	500	10,000	0	61.9	8.59	168				D
Chloromethane	8,490	1,000	10,000	0	84.9	31.6	166				D
Vinyl chloride	27,700	100	10,000	16,710	110	57.3	148				D
Bromomethane	8,310	500	10,000	0	83.1	36.5	177				D
Trichlorofluoromethane (CFC-11)	9,720	500	10,000	0	97.2	80.9	136				D
Chloroethane	9,290	500	10,000	0	92.9	73.2	140				D
1,1-Dichloroethene	10,100	500	10,000	223.8	98.7	87.9	131				D
Methylene chloride	9,660	500	10,000	0	96.6	85.1	127				D
trans-1,2-Dichloroethene	11,100	500	10,000	1,180	99.1	87.7	128				D
1,1-Dichloroethane	9,910	500	10,000	0	99.1	79.9	138				D
cis-1,2-Dichloroethene	50,200	500	10,000	35,360	149	87.1	126				SD
Chloroform	9,650	500	10,000	0	96.5	89.6	126				D
1,1,1-Trichloroethane (TCA)	10,200	500	10,000	0	102	90.8	127				D

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2103221-006AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>HY-12i-031021</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/19/2021</b>	SeqNo: <b>1327736</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	10,300	500	10,000	0	103	90.7	129				D
Carbon tetrachloride	10,200	500	10,000	0	102	90.1	129				D
1,2-Dichloroethane (EDC)	9,140	500	10,000	0	91.4	80.7	131				D
Trichloroethene (TCE)	9,640	250	10,000	0	96.4	83.2	130				D
1,2-Dichloropropane	9,590	500	10,000	0	95.9	79.8	135				D
Bromodichloromethane	9,480	500	10,000	0	94.8	78.1	133				D
Dibromomethane	9,190	500	10,000	0	91.9	77.9	134				D
cis-1,3-Dichloropropene	9,180	500	10,000	0	91.8	75.1	128				D
trans-1,3-Dichloropropylene	9,010	500	10,000	0	90.1	69.7	135				D
1,1,2-Trichloroethane	9,150	500	10,000	0	91.5	77.5	132				D
1,3-Dichloropropane	9,210	500	10,000	0	92.1	77.4	133				D
Tetrachloroethene (PCE)	10,500	500	10,000	0	105	84.6	133				D
Dibromochloromethane	9,150	500	10,000	0	91.5	74.6	133				D
1,2-Dibromoethane (EDB)	8,950	125	10,000	0	89.5	75.7	132				D
Chlorobenzene	10,100	500	10,000	0	101	94.8	115				D
1,1,1,2-Tetrachloroethane	9,930	500	10,000	0	99.3	87.1	119				D
Bromoform	9,160	500	10,000	0	91.6	70.3	133				D
1,1,1,2,2-Tetrachloroethane	9,750	500	10,000	0	97.5	76.7	137				D
Bromobenzene	9,850	500	10,000	0	98.5	92.5	114				D
2-Chlorotoluene	10,300	500	10,000	0	103	89.2	126				D
4-Chlorotoluene	10,300	500	10,000	0	103	90.5	123				D
1,2,3-Trichloropropane	8,950	500	10,000	0	89.5	66.9	131				D
1,2,4-Trichlorobenzene	9,530	1,000	10,000	0	95.3	70.1	130				D
1,3-Dichlorobenzene	10,400	500	10,000	0	104	93.4	118				D
1,4-Dichlorobenzene	10,400	500	10,000	0	104	93.5	117				D
1,2-Dichlorobenzene	10,100	500	10,000	0	101	92.3	119				D
1,2-Dibromo-3-chloropropane	8,960	500	10,000	0	89.6	59.6	144				D
Hexachloro-1,3-butadiene	10,900	250	10,000	0	109	71.3	139				D
1,2,3-Trichlorobenzene	9,560	2,000	10,000	0	95.6	66.9	136				D
Surr: Dibromofluoromethane	13,100		12,500		105	89.4	113				D

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2103221-006AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>HY-12i-031021</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/19/2021</b>	SeqNo: <b>1327736</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	12,500		12,500		99.8	87.8	114				D
Surr: 1-Bromo-4-fluorobenzene	11,800		12,500		94.1	86.8	109				D

**NOTES:**  
 S - Outlying spike recovery observed (high bias).

Sample ID: <b>2103221-006AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>							
Client ID: <b>HY-12i-031021</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/19/2021</b>	SeqNo: <b>1327737</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	5,970	500	10,000	0	59.7	8.59	168	6,187	3.51	30	D
Chloromethane	8,520	1,000	10,000	0	85.2	31.6	166	8,489	0.304	30	D
Vinyl chloride	27,700	100	10,000	16,710	110	57.3	148	27,700	0.0276	30	D
Bromomethane	8,730	500	10,000	0	87.3	36.5	177	8,314	4.91	30	D
Trichlorofluoromethane (CFC-11)	9,720	500	10,000	0	97.2	80.9	136	9,720	0.0408	30	D
Chloroethane	9,130	500	10,000	0	91.3	73.2	140	9,291	1.73	30	D
1,1-Dichloroethene	10,200	500	10,000	223.8	99.3	87.9	131	10,100	0.586	30	D
Methylene chloride	9,720	500	10,000	0	97.2	85.1	127	9,655	0.719	30	D
trans-1,2-Dichloroethene	11,000	500	10,000	1,180	98.1	87.7	128	11,090	0.882	30	D
1,1-Dichloroethane	9,830	500	10,000	0	98.3	79.9	138	9,909	0.793	30	D
cis-1,2-Dichloroethene	48,900	500	10,000	35,360	136	87.1	126	50,230	2.67	30	SD
Chloroform	9,810	500	10,000	0	98.1	89.6	126	9,651	1.64	30	D
1,1,1-Trichloroethane (TCA)	10,300	500	10,000	0	103	90.8	127	10,160	1.40	30	D
1,1-Dichloropropene	10,300	500	10,000	0	103	90.7	129	10,270	0.0113	30	D
Carbon tetrachloride	10,300	500	10,000	0	103	90.1	129	10,200	0.698	30	D
1,2-Dichloroethane (EDC)	9,500	500	10,000	0	95.0	80.7	131	9,143	3.78	30	D
Trichloroethene (TCE)	9,970	250	10,000	0	99.7	83.2	130	9,643	3.33	30	D
1,2-Dichloropropane	9,890	500	10,000	0	98.9	79.8	135	9,591	3.07	30	D
Bromodichloromethane	9,980	500	10,000	0	99.8	78.1	133	9,482	5.11	30	D
Dibromomethane	9,570	500	10,000	0	95.7	77.9	134	9,193	4.02	30	D
cis-1,3-Dichloropropene	9,630	500	10,000	0	96.3	75.1	128	9,176	4.84	30	D
trans-1,3-Dichloropropylene	9,480	500	10,000	0	94.8	69.7	135	9,008	5.13	30	D

Work Order: 2103221  
 CLIENT: PES Environmental, Inc.  
 Project: BSB

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2103221-006AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>3/18/2021</b>	RunNo: <b>65987</b>
Client ID: <b>HY-12i-031021</b>	Batch ID: <b>31690</b>		Analysis Date: <b>3/19/2021</b>	SeqNo: <b>1327737</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	9,800	500	10,000	0	98.0	77.5	132	9,152	6.84	30	D
1,3-Dichloropropane	9,790	500	10,000	0	97.9	77.4	133	9,211	6.05	30	D
Tetrachloroethene (PCE)	10,400	500	10,000	0	104	84.6	133	10,460	0.721	30	D
Dibromochloromethane	9,830	500	10,000	0	98.3	74.6	133	9,148	7.16	30	D
1,2-Dibromoethane (EDB)	9,760	125	10,000	0	97.6	75.7	132	8,954	8.57	30	D
Chlorobenzene	10,300	500	10,000	0	103	94.8	115	10,130	1.71	30	D
1,1,1,2-Tetrachloroethane	10,400	500	10,000	0	104	87.1	119	9,934	4.92	30	D
Bromoform	9,950	500	10,000	0	99.5	70.3	133	9,159	8.24	30	D
1,1,1,2,2-Tetrachloroethane	10,600	500	10,000	0	106	76.7	137	9,751	8.73	30	D
Bromobenzene	9,950	500	10,000	0	99.5	92.5	114	9,854	1.02	30	D
2-Chlorotoluene	10,200	500	10,000	0	102	89.2	126	10,260	0.621	30	D
4-Chlorotoluene	10,400	500	10,000	0	104	90.5	123	10,290	0.681	30	D
1,2,3-Trichloropropane	9,680	500	10,000	0	96.8	66.9	131	8,953	7.86	30	D
1,2,4-Trichlorobenzene	10,300	1,000	10,000	0	103	70.1	130	9,528	7.80	30	D
1,3-Dichlorobenzene	10,600	500	10,000	0	106	93.4	118	10,360	1.92	30	D
1,4-Dichlorobenzene	10,700	500	10,000	0	107	93.5	117	10,410	2.30	30	D
1,2-Dichlorobenzene	10,500	500	10,000	0	105	92.3	119	10,110	3.63	30	D
1,2-Dibromo-3-chloropropane	10,000	500	10,000	0	100	59.6	144	8,960	11.2	30	D
Hexachloro-1,3-butadiene	11,500	250	10,000	0	115	71.3	139	10,910	5.01	30	D
1,2,3-Trichlorobenzene	10,500	2,000	10,000	0	105	66.9	136	9,559	9.68	30	D
Surr: Dibromofluoromethane	13,100		12,500		105	89.4	113		0		D
Surr: Toluene-d8	12,600		12,500		101	87.8	114		0		D
Surr: 1-Bromo-4-fluorobenzene	11,800		12,500		94.6	86.8	109		0		D

**NOTES:**

S - Outlying spike recovery observed (high bias).

Client Name: <b>PES</b>	Work Order Number: <b>2103221</b>
Logged by: <b>Gabrielle Coeuille</b>	Date Received: <b>3/12/2021 4:18:00 PM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes  No  Not Present
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all items received at a temperature of >2°C to 6°C \* Yes  No  NA
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Sample 1	0.7

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C









**Fremont**  
Analytical

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

# Chain of Custody Record & Laboratory Services Agreement

Date: 3/12/21 Page: 2 of 2

Project Name: BSB

Project No: 827.00147.004

Laboratory Project No (Internal): 2403221

Special Remarks:

Client: PES Environmental

Address:

SEE PG 1

City, State, Zip:

Collected by:

SEE PG 1

Location:

SEE PG 1

Telephone:

Report To (PM):

PM Email:

Sample Disposal:  return to client  Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (IC)***	ED8 (801)	HVOCs (8260B)	Comments
1 HYP-71-031121	3/11/21	1115	GW	3														
2 HY-115-031121		1255		3														
3 HY-111-031121		1330		3														
4 HS-031121		1440		5														Lab QC volume
5 HI-031121		1515		3														
6 GI-031121		1610		3														
7 GS-031121		1715		3														
8 TB-031221-1	3/12/21	1500	-	1														
9																		
10																		

\*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

\*\*Metals (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:  Standard  Next Day  3 Day  Same Day  2 Day (specify)

Relinquished (Signature) *Hannah Cohen* Print Name Hannah Cohen Date/Time 3/12/21 1600

Relinquished (Signature) *[Signature]* Received (Signature) *[Signature]* Print Name Carter Johnson Date/Time 3/12/21 1600



**Fremont**  
Analytical

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

**Chain of Custody Record & Laboratory Services Agreement**

Date: 3/12/21 Page: 1 of 2

Project Name: BSB

Project No: 827.001.47.004

Collected by: B. Hecht

Location: Kent, WA

Report To (PM): Bill Halldeman

PM Email: BHALDEMAN@PESENV.COM

Laboratory Project No (Internal): 2103221

Special Remarks:

Edits per HC 3/15/21 - gac

Sample Disposal:  Return to client  Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - SIM)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (CI)***	EDB (8011)	HVOCs (3260B)	Comments
1 MW101-031021	3/10/21	930	GW	3														
2 HY-15-031021		1025		3														
3 HY-16-031021		1115		3														
4 HY-13i-031021		1210		3														
5 HY-13i-031021		1355		3														
6 HY-12i-031021		1500		5														QC Volume
7 HY-12i-031021		1555		3														
8 HY-12i-031021		1635		3														
9 HY-12i-031121	3/11/21	1020		3														
10 AA103-031121	3/11/21	805																

\*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water  
 \*\*Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn  
 \*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *[Signature]* Print Name *Hannah Cohen* Date/Time *3/12/21 1600*  
 Relinquished (Signature) *[Signature]* Print Name *Carter Johnson* Date/Time *3/12/21 @ 1400*

Turn-around Time:  
 Standard  Next Day  
 3 Day  Same Day  
 2 Day (specify)





## MEMORANDUM

**TO:** Project File **DATE:** March 26, 2021  
**FROM:** Jessie Compeau  
**SUBJECT:** Laboratory Data Validation Review  
**PROJECT:** BSB Property – Shallow Aquifer Cleanup Action  
**PROJECT #:** 827.001.47.005  
**TASK:** EIM Data Validation Level EPA2A for March 2021 Groundwater Samples  
**LAB:** Fremont Work Order Number 2103221

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Sixteen (16) groundwater samples (including one field duplicate) and one (1) trip blank were collected March 10 and 11, 2021, as part of a shallow aquifer cleanup action at the BSB Diversified Facility in Kent, Washington. The samples were analyzed for halogenated volatile organic compounds (VOCs) using USEPA Method 8260D. Laboratory analyses were conducted by Fremont Analytical (Fremont) of Seattle, Washington. The quality assurance review of the sample data is summarized below.

### DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with Fremont control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

### DATA VALIDATION

#### Completeness

All samples were collected and analyzed as requested with the following discussion:

- Sample HY-12i-031021 was sampled at 1500 and HYCP-2i-031021 was sampled at 1635. The chain of custody edits by PES (March 15, 2021) include "CP" to sample HY-12i-031021 however this edit was applied to the wrong sample and should have been applied to sample HY-2i-031021. Field notes were verified to confirm that these sample identifications were correct. No further action was needed since an earlier communication between PES and the laboratory correctly identified the two samples.

### **Sample Collection and Preservation**

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice delivered to the analytical laboratory. The laboratory reported that the coolers were received at cooler temperatures were received within the recommended temperature preservation of 6°C. The laboratory reported that the samples were received in good condition with cooling materials. No data were qualified based upon the sample collection and preservation information.

### **Holding Times**

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

### **Initial and Continuing Calibration**

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. These data were not provided nor requested for this project however Fremont indicated within the laboratory report that continuing calibration criteria did not meet acceptance criteria for the following:

- VOC CCV criteria are not met for bromomethane and Fremont qualified associated results (Q). **Associated water sample bromomethane results are estimated (J/UJ) because CCV acceptance criteria are not met.**

### **Method Blank Results**

Laboratory method blank is included with the analytical batch per method requirement. The target analytes are not detected in the method blank at or above the reporting limits (RLs). No qualifications of the data are made due to the results of the method blank analysis.

### **Trip Blank Results**

One trip blank (TB-031221-1) was collected and analyzed. The target analytes are not detected in the trip blank at or above the RLs. No qualifications of the data are made due to the results of the trip blank analysis.

### **Field, Rinsate, or Equipment Blank Results**

Field, rinsate, or equipment blanks were not collected.

### **Field Duplicate Analyses**

Field duplicate sample pair is as follows:

- Samples MW101-031021 is a field duplicate of HY-1s-031021

Field duplicates were submitted and analyzed with the sample group. VOC target analyte results are comparable and within 30 relative percent difference (RPD).

### **Laboratory Duplicate Analyses**

Laboratory duplicate samples were performed on client sample MW101-031021 within the analytical batch. The primary/duplicate RPDs were within the laboratory control limit of 30%. Duplicate data are acceptable.

### **Surrogate Recoveries**

The surrogate recovery results for the samples, duplicate, laboratory control samples, matrix spike samples, trip blank, and the method blank are within the laboratory surrogate control limits.

### **Laboratory Control Samples**

Laboratory control sample (LCS) was analyzed by USEPA Method 8260D. The LCS %R's and for the target compounds are within the laboratory control criteria for waters with the following exception:

- **LCS (analytical batch LCS-31690) recovery for bromomethane is below criteria and associated results are qualified (J/UJ).**

### **Matrix Spike/Matrix Spike Duplicates**

Matrix spike and matrix spike duplicate (MS/MSD) analyses were performed on samples HS-031121 and HY-12i-031021. The MS/MSD %Rs and RPDs for all target compounds were within the laboratory control criteria for water.

### **Quantitation Limits**

Target compound chloromethane was reported to the method detection limit (MDL). No action was taken other than to note that the associated method blank was also reported to the MDL for this compound.

Results of the VOC analyses were reported based on laboratory RLs for all compounds. Selected samples were diluted due to elevated concentrations of various target analytes. In these cases, the RLs are raised. The RLs used for this sample group were acceptable for the project.

### **Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- An electronic data deliverable (EDD) for this SDG is provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy laboratory report however associated Chemical

Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

### **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017)

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 9:30:00 AM

**Project:** BSB

**Lab ID:** 2103221-001

**Matrix:** Groundwater

**Client Sample ID:** MW101-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 4:02:29 PM
Vinyl chloride	13.7	0.200		µg/L	1	3/18/2021 4:02:29 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 4:02:29 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
cis-1,2-Dichloroethene	2.73	0.500		µg/L	1	3/18/2021 4:02:29 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 4:02:29 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 4:02:29 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM





**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 9:30:00 AM

**Project:** BSB

**Lab ID:** 2103221-001

**Matrix:** Groundwater

**Client Sample ID:** MW101-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 4:02:29 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 4:02:29 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 4:02:29 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 4:02:29 PM
Surr: Toluene-d8	100	87.8 - 114		%Rec	1	3/18/2021 4:02:29 PM
Surr: 1-Bromo-4-fluorobenzene	95.1	86.8 - 109		%Rec	1	3/18/2021 4:02:29 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 10:25:00 AM

**Project:** BSB

**Lab ID:** 2103221-002

**Matrix:** Groundwater

**Client Sample ID:** HY-1s-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 5:02:45 PM
Vinyl chloride	13.8	0.200		µg/L	1	3/18/2021 5:02:45 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 5:02:45 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
cis-1,2-Dichloroethene	2.53	0.500		µg/L	1	3/18/2021 5:02:45 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 5:02:45 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 5:02:45 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 10:25:00 AM

**Project:** BSB

**Lab ID:** 2103221-002

**Matrix:** Groundwater

**Client Sample ID:** HY-1s-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 5:02:45 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 5:02:45 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:02:45 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 5:02:45 PM
Surr: Toluene-d8	99.6	87.8 - 114		%Rec	1	3/18/2021 5:02:45 PM
Surr: 1-Bromo-4-fluorobenzene	93.4	86.8 - 109		%Rec	1	3/18/2021 5:02:45 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 11:15:00 AM

**Project:** BSB

**Lab ID:** 2103221-003

**Matrix:** Groundwater

**Client Sample ID:** HY-1i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 5:32:51 PM
Vinyl chloride	0.522	0.200		µg/L	1	3/18/2021 5:32:51 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 5:32:51 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1-Dichloroethane	0.817	0.500		µg/L	1	3/18/2021 5:32:51 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 5:32:51 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 5:32:51 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 11:15:00 AM

**Project:** BSB

**Lab ID:** 2103221-003

**Matrix:** Groundwater

**Client Sample ID:** HY-1i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 5:32:51 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 5:32:51 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 5:32:51 PM
Surr: Dibromofluoromethane	100	89.4 - 113		%Rec	1	3/18/2021 5:32:51 PM
Surr: Toluene-d8	98.2	87.8 - 114		%Rec	1	3/18/2021 5:32:51 PM
Surr: 1-Bromo-4-fluorobenzene	93.3	86.8 - 109		%Rec	1	3/18/2021 5:32:51 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 12:10:00 PM

**Project:** BSB

**Lab ID:** 2103221-004

**Matrix:** Groundwater

**Client Sample ID:** HY-13i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
Chloromethane	ND	7.89	DMDL	µg/L	10	3/19/2021 3:03:09 AM
Vinyl chloride	1,120	100	D	µg/L	500	3/19/2021 2:02:51 AM
Bromomethane	ND	UJ 5.00	DQ	µg/L	10	3/19/2021 3:03:09 AM
Trichlorofluoromethane (CFC-11)	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Chloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1-Dichloroethene	46.7	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Methylene chloride	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
trans-1,2-Dichloroethene	106	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1-Dichloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
cis-1,2-Dichloroethene	6,070	250	D	µg/L	500	3/19/2021 2:02:51 AM
Chloroform	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
1,1,1-Trichloroethane (TCA)	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1-Dichloropropene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Carbon tetrachloride	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2-Dichloroethane (EDC)	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Trichloroethene (TCE)	195	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2-Dichloropropane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Bromodichloromethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Dibromomethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
cis-1,3-Dichloropropene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
trans-1,3-Dichloropropylene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1,2-Trichloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,3-Dichloropropane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Tetrachloroethene (PCE)	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Dibromochloromethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2-Dibromoethane (EDB)	ND	2.00	D	µg/L	10	3/19/2021 3:03:09 AM
Chlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1,1,2-Tetrachloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Bromoform	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,1,2,2-Tetrachloroethane	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Bromobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
2-Chlorotoluene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
4-Chlorotoluene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2,3-Trichloropropane	ND	20.0	D	µg/L	10	3/19/2021 3:03:09 AM
1,2,4-Trichlorobenzene	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
1,3-Dichlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,4-Dichlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
1,2-Dichlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 12:10:00 PM

**Project:** BSB

**Lab ID:** 2103221-004

**Matrix:** Groundwater

**Client Sample ID:** HY-13i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	10.0	D	µg/L	10	3/19/2021 3:03:09 AM
Hexachloro-1,3-butadiene	ND	20.0	D	µg/L	10	3/19/2021 3:03:09 AM
1,2,3-Trichlorobenzene	ND	5.00	D	µg/L	10	3/19/2021 3:03:09 AM
Surr: Dibromofluoromethane	102	89.4 - 113	D	%Rec	10	3/19/2021 3:03:09 AM
Surr: Toluene-d8	98.8	87.8 - 114	D	%Rec	10	3/19/2021 3:03:09 AM
Surr: 1-Bromo-4-fluorobenzene	94.6	86.8 - 109	D	%Rec	10	3/19/2021 3:03:09 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Diluted due to matrix.

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 1:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-005

**Matrix:** Groundwater

**Client Sample ID:** HY-3i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
Chloromethane	ND	15.8	DMDL	µg/L	20	3/19/2021 5:03:40 AM
Vinyl chloride	5,770	200	D	µg/L	1000	3/18/2021 3:02:14 PM
Bromomethane	ND	10.0	DQ	µg/L	20	3/19/2021 5:03:40 AM
Trichlorofluoromethane (CFC-11)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Chloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1-Dichloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Methylene chloride	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
trans-1,2-Dichloroethene	41.0	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1-Dichloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
cis-1,2-Dichloroethene	9,180	500	D	µg/L	1000	3/18/2021 3:02:14 PM
Chloroform	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1,1-Trichloroethane (TCA)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1-Dichloropropene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Carbon tetrachloride	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2-Dichloroethane (EDC)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Trichloroethene (TCE)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2-Dichloropropane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Bromodichloromethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Dibromomethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
cis-1,3-Dichloropropene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
trans-1,3-Dichloropropylene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1,2-Trichloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,3-Dichloropropane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Tetrachloroethene (PCE)	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Dibromochloromethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2-Dibromoethane (EDB)	ND	4.00	D	µg/L	20	3/19/2021 5:03:40 AM
Chlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1,1,2-Tetrachloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Bromoform	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,1,2,2-Tetrachloroethane	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Bromobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
2-Chlorotoluene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
4-Chlorotoluene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2,3-Trichloropropane	ND	40.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2,4-Trichlorobenzene	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,3-Dichlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,4-Dichlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2-Dichlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM





**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 1:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-005

**Matrix:** Groundwater

**Client Sample ID:** HY-3i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	20.0	D	µg/L	20	3/19/2021 5:03:40 AM
Hexachloro-1,3-butadiene	ND	40.0	D	µg/L	20	3/19/2021 5:03:40 AM
1,2,3-Trichlorobenzene	ND	10.0	D	µg/L	20	3/19/2021 5:03:40 AM
Surr: Dibromofluoromethane	100	89.4 - 113	D	%Rec	20	3/19/2021 5:03:40 AM
Surr: Toluene-d8	98.8	87.8 - 114	D	%Rec	20	3/19/2021 5:03:40 AM
Surr: 1-Bromo-4-fluorobenzene	94.4	86.8 - 109	D	%Rec	20	3/19/2021 5:03:40 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Diluted due to matrix.

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 3:00:00 PM

**Project:** BSB

**Lab ID:** 2103221-006

**Matrix:** Groundwater

**Client Sample ID:** HY-12i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
Chloromethane	ND	39.4	DMDL	µg/L	50	3/19/2021 3:33:17 AM
Vinyl chloride	16,700	100	D	µg/L	500	3/19/2021 2:33:00 AM
Bromomethane	ND	25.0	DQ	µg/L	50	3/19/2021 3:33:17 AM
Trichlorofluoromethane (CFC-11)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Chloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1-Dichloroethene	173	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Methylene chloride	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
trans-1,2-Dichloroethene	1,240	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1-Dichloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
cis-1,2-Dichloroethene	36,000	2,500	D	µg/L	5000	3/18/2021 3:32:22 PM
Chloroform	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1,1-Trichloroethane (TCA)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1-Dichloropropene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Carbon tetrachloride	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2-Dichloroethane (EDC)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Trichloroethene (TCE)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2-Dichloropropane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Bromodichloromethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Dibromomethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
cis-1,3-Dichloropropene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
trans-1,3-Dichloropropylene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1,2-Trichloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,3-Dichloropropane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Tetrachloroethene (PCE)	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Dibromochloromethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2-Dibromoethane (EDB)	ND	10.0	D	µg/L	50	3/19/2021 3:33:17 AM
Chlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1,1,2-Tetrachloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Bromoform	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,1,2,2-Tetrachloroethane	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Bromobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
2-Chlorotoluene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
4-Chlorotoluene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2,3-Trichloropropane	ND	100	D	µg/L	50	3/19/2021 3:33:17 AM
1,2,4-Trichlorobenzene	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,3-Dichlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,4-Dichlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
1,2-Dichlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 3:00:00 PM

**Project:** BSB

**Lab ID:** 2103221-006

**Matrix:** Groundwater

**Client Sample ID:** HY-12i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	50.0	D	µg/L	50	3/19/2021 3:33:17 AM
Hexachloro-1,3-butadiene	ND	100	D	µg/L	50	3/19/2021 3:33:17 AM
1,2,3-Trichlorobenzene	ND	25.0	D	µg/L	50	3/19/2021 3:33:17 AM
Surr: Dibromofluoromethane	102	89.4 - 113	D	%Rec	50	3/19/2021 3:33:17 AM
Surr: Toluene-d8	99.1	87.8 - 114	D	%Rec	50	3/19/2021 3:33:17 AM
Surr: 1-Bromo-4-fluorobenzene	94.4	86.8 - 109	D	%Rec	50	3/19/2021 3:33:17 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Diluted due to matrix.

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 3:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-007

**Matrix:** Groundwater

**Client Sample ID:** HYCP-2-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 6:02:57 PM
Vinyl chloride	2.18	0.200		µg/L	1	3/18/2021 6:02:57 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 6:02:57 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
cis-1,2-Dichloroethene	0.852	0.500		µg/L	1	3/18/2021 6:02:57 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 6:02:57 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 6:02:57 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 3:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-007

**Matrix:** Groundwater

**Client Sample ID:** HYCP-2-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 6:02:57 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 6:02:57 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:02:57 PM
Surr: Dibromofluoromethane	102	89.4 - 113		%Rec	1	3/18/2021 6:02:57 PM
Surr: Toluene-d8	99.7	87.8 - 114		%Rec	1	3/18/2021 6:02:57 PM
Surr: 1-Bromo-4-fluorobenzene	94.4	86.8 - 109		%Rec	1	3/18/2021 6:02:57 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 4:35:00 PM

**Project:** BSB

**Lab ID:** 2103221-008

**Matrix:** Groundwater

**Client Sample ID:** HYCP-2i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 6:33:05 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 6:33:05 PM
Bromomethane	ND	0.500	Q	µg/L	1	3/18/2021 6:33:05 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 6:33:05 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 6:33:05 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/10/2021 4:35:00 PM

**Project:** BSB

**Lab ID:** 2103221-008

**Matrix:** Groundwater

**Client Sample ID:** HYCP-2i-031021

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 6:33:05 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 6:33:05 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 6:33:05 PM
Surr: Dibromofluoromethane	102	89.4 - 113		%Rec	1	3/18/2021 6:33:05 PM
Surr: Toluene-d8	99.9	87.8 - 114		%Rec	1	3/18/2021 6:33:05 PM
Surr: 1-Bromo-4-fluorobenzene	93.8	86.8 - 109		%Rec	1	3/18/2021 6:33:05 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 10:20:00 AM

**Project:** BSB

**Lab ID:** 2103221-009

**Matrix:** Groundwater

**Client Sample ID:** HYCP-7s-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 7:03:14 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 7:03:14 PM
Bromomethane	ND	UJ 0.500	Q	µg/L	1	3/18/2021 7:03:14 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 7:03:14 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 7:03:14 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM





**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 10:20:00 AM

**Project:** BSB

**Lab ID:** 2103221-009

**Matrix:** Groundwater

**Client Sample ID:** HYCP-7s-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 7:03:14 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 7:03:14 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:03:14 PM
Surr: Dibromofluoromethane	99.8	89.4 - 113		%Rec	1	3/18/2021 7:03:14 PM
Surr: Toluene-d8	98.9	87.8 - 114		%Rec	1	3/18/2021 7:03:14 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	86.8 - 109		%Rec	1	3/18/2021 7:03:14 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 11:15:00 AM

**Project:** BSB

**Lab ID:** 2103221-010

**Matrix:** Groundwater

**Client Sample ID:** HYCP-7i-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 7:33:21 PM
Vinyl chloride	0.427	0.200		µg/L	1	3/18/2021 7:33:21 PM
Bromomethane	ND	0.500	UJ	µg/L	1	3/18/2021 7:33:21 PM
Trichlorofluoromethane (CFC-11)	ND	0.500	Q	µg/L	1	3/18/2021 7:33:21 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 7:33:21 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 7:33:21 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 11:15:00 AM

**Project:** BSB

**Lab ID:** 2103221-010

**Matrix:** Groundwater

**Client Sample ID:** HYCP-7i-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 7:33:21 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 7:33:21 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 7:33:21 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 7:33:21 PM
Surr: Toluene-d8	100	87.8 - 114		%Rec	1	3/18/2021 7:33:21 PM
Surr: 1-Bromo-4-fluorobenzene	95.1	86.8 - 109		%Rec	1	3/18/2021 7:33:21 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 12:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-011

**Matrix:** Groundwater

**Client Sample ID:** HY-11s-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 8:03:30 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 8:03:30 PM
Bromomethane	ND	UJ	Q	µg/L	1	3/18/2021 8:03:30 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 8:03:30 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 8:03:30 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 12:55:00 PM

**Project:** BSB

**Lab ID:** 2103221-011

**Matrix:** Groundwater

**Client Sample ID:** HY-11s-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 8:03:30 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 8:03:30 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:03:30 PM
Surr: Dibromofluoromethane	98.0	89.4 - 113		%Rec	1	3/18/2021 8:03:30 PM
Surr: Toluene-d8	99.1	87.8 - 114		%Rec	1	3/18/2021 8:03:30 PM
Surr: 1-Bromo-4-fluorobenzene	92.1	86.8 - 109		%Rec	1	3/18/2021 8:03:30 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 1:30:00 PM

**Project:** BSB

**Lab ID:** 2103221-012

**Matrix:** Groundwater

**Client Sample ID:** HY-11i-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM	
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 8:33:38 PM	
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 8:33:38 PM	
Bromomethane	ND	UJ	0.500	Q	µg/L	1	3/18/2021 8:33:38 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Chloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM	
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Chloroform	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM	
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 8:33:38 PM	
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Bromoform	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 8:33:38 PM	
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM	
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM	



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 1:30:00 PM

**Project:** BSB

**Lab ID:** 2103221-012

**Matrix:** Groundwater

**Client Sample ID:** HY-11i-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 8:33:38 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 8:33:38 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 8:33:38 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 8:33:38 PM
Surr: Toluene-d8	100	87.8 - 114		%Rec	1	3/18/2021 8:33:38 PM
Surr: 1-Bromo-4-fluorobenzene	94.9	86.8 - 109		%Rec	1	3/18/2021 8:33:38 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 2:40:00 PM

**Project:** BSB

**Lab ID:** 2103221-013

**Matrix:** Groundwater

**Client Sample ID:** HS-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 9:03:45 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 9:03:45 PM
Bromomethane	ND	UJ 0.500	Q	µg/L	1	3/18/2021 9:03:45 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 9:03:45 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 9:03:45 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM





**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 2:40:00 PM

**Project:** BSB

**Lab ID:** 2103221-013

**Matrix:** Groundwater

**Client Sample ID:** HS-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 9:03:45 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 9:03:45 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:03:45 PM
Surr: Dibromofluoromethane	101	89.4 - 113		%Rec	1	3/18/2021 9:03:45 PM
Surr: Toluene-d8	98.5	87.8 - 114		%Rec	1	3/18/2021 9:03:45 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	86.8 - 109		%Rec	1	3/18/2021 9:03:45 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 3:15:00 PM

**Project:** BSB

**Lab ID:** 2103221-014

**Matrix:** Groundwater

**Client Sample ID:** Hi-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 9:33:53 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 9:33:53 PM
Bromomethane	ND	UJ 0.500	Q	µg/L	1	3/18/2021 9:33:53 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 9:33:53 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 9:33:53 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 3:15:00 PM

**Project:** BSB

**Lab ID:** 2103221-014

**Matrix:** Groundwater

**Client Sample ID:** Hi-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 9:33:53 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 9:33:53 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 9:33:53 PM
Surr: Dibromofluoromethane	103	89.4 - 113		%Rec	1	3/18/2021 9:33:53 PM
Surr: Toluene-d8	98.2	87.8 - 114		%Rec	1	3/18/2021 9:33:53 PM
Surr: 1-Bromo-4-fluorobenzene	95.0	86.8 - 109		%Rec	1	3/18/2021 9:33:53 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 4:10:00 PM

**Project:** BSB

**Lab ID:** 2103221-015

**Matrix:** Groundwater

**Client Sample ID:** Gi-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 10:04:00 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 10:04:00 PM
Bromomethane	ND	UJ 0.500	Q	µg/L	1	3/18/2021 10:04:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 10:04:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 10:04:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 4:10:00 PM

**Project:** BSB

**Lab ID:** 2103221-015

**Matrix:** Groundwater

**Client Sample ID:** Gi-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 10:04:00 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 10:04:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:04:00 PM
Surr: Dibromofluoromethane	100	89.4 - 113		%Rec	1	3/18/2021 10:04:00 PM
Surr: Toluene-d8	98.2	87.8 - 114		%Rec	1	3/18/2021 10:04:00 PM
Surr: 1-Bromo-4-fluorobenzene	92.4	86.8 - 109		%Rec	1	3/18/2021 10:04:00 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 5:15:00 PM

**Project:** BSB

**Lab ID:** 2103221-016

**Matrix:** Groundwater

**Client Sample ID:** Gs-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
Chloromethane	ND	0.789	MDL	µg/L	1	3/18/2021 10:34:07 PM
Vinyl chloride	ND	0.200		µg/L	1	3/18/2021 10:34:07 PM
Bromomethane	ND	UJ 0.500	Q	µg/L	1	3/18/2021 10:34:07 PM
Trichlorofluoromethane (CFC-11)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Chloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Methylene chloride	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Chloroform	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
1,1,1-Trichloroethane (TCA)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2-Dichloroethane (EDC)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Dibromomethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
trans-1,3-Dichloropropylene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Tetrachloroethene (PCE)	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Dibromochloromethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2-Dibromoethane (EDB)	ND	0.200		µg/L	1	3/18/2021 10:34:07 PM
Chlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Bromoform	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Bromobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2,3-Trichloropropane	ND	2.00		µg/L	1	3/18/2021 10:34:07 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 3/11/2021 5:15:00 PM

**Project:** BSB

**Lab ID:** 2103221-016

**Matrix:** Groundwater

**Client Sample ID:** Gs-031121

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 31690

Analyst: CR

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	3/18/2021 10:34:07 PM
Hexachloro-1,3-butadiene	ND	2.00		µg/L	1	3/18/2021 10:34:07 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/18/2021 10:34:07 PM
Surr: Dibromofluoromethane	104	89.4 - 113		%Rec	1	3/18/2021 10:34:07 PM
Surr: Toluene-d8	101	87.8 - 114		%Rec	1	3/18/2021 10:34:07 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	86.8 - 109		%Rec	1	3/18/2021 10:34:07 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

MDL - Analyte reported to Method Detection Limit (MDL)

JC 3/29/2021