

Village of Pemberton Water System Annual Report - 2019

INTRODUCTION

This report has been prepared for the consumers of the Drinking Water System of the Village of Pemberton (VOP) to provide basic information on water quality and compliance with health standards. Public feedback and comments are always welcomed and should be directed to VOP staff or Vancouver Coastal Health (Squamish) officials.

CONSUMPTION (CUBIC METERS/DAY):

Daily flow is recorded at the Wellhouse located in Pioneer Park. Table 1 displays the maximum, minimum, average, and total water flows for 2019 and includes the previous two years for comparison. The volumes are fairly consistent over the past three years. Variations can be attributed to population growth, climatic factors, conservation efforts and leak detection and repairs. For daily results, please refer to **Appendix I**.

Table 1 - Overall Water Consumption Summary

	2017 Consumption	2018 Consumption	2019 Consumption
Average Flow/day:	1,883 m ³	1,800 m ³	1,838 m ³
High Flow/day:	3,579 m ³ <i>(July 7, 2017)</i>	3,570 m ³ <i>(July 30, 2018)</i>	3,527 m ³ <i>(June 17, 2019)</i>
Low Flow/day:	1,102 m ³ <i>(January 11, 2017)</i>	1,001 m ³ <i>(September 26, 2018)</i>	1,067 m ³ <i>(January 19, 2019)</i>
Total Annual	686,254 m ³	656,756 m ³	667,727 m ³

CHLORINATION:

Chlorination is a condition of the Village of Pemberton's operating permit and has been in effect since March 2009. The objective is to have a positive residual chlorine reading throughout the water distribution system. The Fire Hall chlorine analyzer serves as the central measuring point, where a minimum residual of 0.20 mg/L is desired.

The chlorine residual is monitored continuously by a dedicated computer and alarm set points ensure consistent dosing. Daily readings of the previous 24 hour minimum residuals are recorded. The annual numbers are shown in Table 2.

Table 2 - 2019 Chlorine Residual Summary

	Residual (mg/L)
Average:	0.28
High:	0.36
Low:	0.08

To ensure that target chlorine residuals are achieved within the distribution system, the VOP also carries out manual sampling at 9 sites throughout the distribution system each week.

For daily results, please refer to **Appendix I** and for weekly sample results **Appendix III**.

WATER CHEMISTRY:

The Annual Total Metals, Volatile Organic Compounds and Trihalomethane sampling was performed February 21, 2019. Sampling was conducted on production Well #3, Oak St. and the Industrial Park sample stations. The test results indicate that all of the items tested are within Health Canada Maximum Acceptable Concentration (MAC) limits. Emergency Backup Well #2 was also tested and has shown a decline in water quality exceeding the Aesthetic Objectives (AO) for Iron. Aesthetic quality guidelines address parameters such as taste, odour and colour and are not considered a health concern. Recently, the guidelines for manganese were changed to a MAC of 0.12 mg/L (120 µg/L) and an AO of 0.02 mg/L (20 µg/L) for total manganese in drinking water. 2019 samples from Well # 2 have surpassed these new guidelines. As such, the Village has begun investigating the development of a new well with test wells planned to be drilled in early 2020. Depending on the results of these test wells, and with increased frequency of testing on current wells, a decision will be made for how to best manage these noted increases. For full water quality test results from 2019, please refer to **Appendix II**.

CORROSION CONTROL:

In June of 2016, the Village of Pemberton undertook a water sampling program to determine the best course of action to mitigate the corrosion of metallic plumbing systems and fixtures. The results indicated a need to adjust the pH and alkalinity of the well water which is considered slightly acidic. A water conditioning plant was designed and constructed using Sodium Carbonate (Soda Ash) to increase the pH and Alkalinity of Pemberton’s well water, prior

to distribution. In October 2017, the Village established a target pH of 7 and a target CaCO₃ concentration (alkalinity) between 40 and 80mg/L. In addition to the automated control system, water samples are tested weekly from 7 sample stations throughout the distribution system, and pH and alkalinity are recorded. For results, please refer to **Appendix IV**.

Flush Message

In 2015 Vancouver Coastal Health Authority requested that the following message be communicated to residents:

Anytime the water in a particular faucet has not been used for six hours or longer, “flush” your cold-water pipes by running the water until cold and you notice a change in temperature. (This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer.) The more time water has been sitting in your home’s pipes, the more lead it may contain. Use only water from the cold-tap for drinking, cooking, and especially making baby formula. Hot water is likely to contain higher levels of lead. The two actions recommended above are very important to the health of your family. They will probably be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not from the local water supply. Conserving water is still important. Rather than just running the water down the drain you could use the water for things such as watering your plants (Zubel,2014). If residents have any questions, they are encouraged to contact the Vancouver Coastal Health Authorities Drinking Water Officer at 604-892-2293.

CROSS CONNECTION CONTROL

To maintain safe drinking water and remain in compliance with the Vancouver Coastal Health Authority (VCH), the Village of Pemberton has begun a utility-wide Cross Connection Control / Backflow Prevention Program. A cross connection is any actual or potential connection between drinking water and a non-potable substance (contaminant). Backflow is the reverse flow from normal within a piping system. When a cross connection and backflow are combined, often the result is a contaminant entering our drinking water.

In 2018, the Cross Connection Control Bylaw was passed by council and an initial assessment and database was completed for VOP infrastructure. In 2020, the program will be expanded to incorporate Industrial, Commercial and Institutional buildings in the Village that could pose a threat to the water system in the event of a backflow.

BACTERIOLOGICAL ANALYSIS:

Water samples are collected and submitted weekly to the laboratory at Vancouver Coastal Health for Bacteriological analysis. These samples are taken directly from both active sources (Well #2 and #3), as well as the following locations:

- Oak St
- Village Office
- Health Centre
- Treatment Plant
- Pemberton Plateau
- Industrial Park (Mount Currie water source)
- Collins Rd
- Pemberton Meadows Rd.
- Pemberton Farm Rd (West)
- Urdal Rd.

All results for the 2019 period were negative for Escherichia coli.

The individual results are on file at Vancouver Coastal Health (Squamish) and the Village Office, and are posted regularly online at:

www.healthspace.ca/Clients/VCHA/CoastGaribaldi/CoastGaribaldi_Website.nsf

For Sample Range Reports, please refer to **Appendix V**.

**2019 Daily Total Consumption and
Chlorine Residual**

Date	Daily Cubic M	Daily Cl2 Residual (ppm)
January		
1	1,317	0.28
2	1,286	0.29
3	1,266	0.27
4	1,433	0.25
5	2,470	0.24
6	2,498	0.28
7	2,497	0.31
8	1,698	0.29
9	1,276	0.28
10	1,300	0.27
11	1,087	0.28
12	1,265	0.28
13	1,245	0.29
14	1,264	0.29
15	1,194	0.28
16	1,172	0.28
17	1,238	0.29
18	1,221	0.30
19	1,067	0.29
20	1,245	0.28
21	1,251	0.30
22	1,121	0.29
23	1,143	0.29
24	1,150	0.30
25	1,231	0.31
26	1,250	0.31
27	1,239	0.31
28	1,195	0.31
29	1,211	0.30
30	1,263	0.30
31	1,181	0.30
Monthly Total	42,274	
February		
1	1,244	0.31
2	1,128	0.31
3	1,284	0.29
4	1,293	0.31
5	1,243	0.30
6	1,196	0.29
7	1,291	0.27

8	1,254	0.30
9	1,247	0.30
10	1,199	0.31
11	1,266	0.31
12	1,309	0.30
13	1,247	0.29
14	1,152	0.28
15	1,152	0.27
16	1,310	0.26
17	1,310	0.25
18	1,335	0.27
19	1,364	0.28
20	1,330	0.24
21	1,285	0.27
22	1,163	0.28
23	1,312	0.28
24	1,304	0.29
25	1,138	0.29
26	1,284	0.28
27	1,280	0.28
28	1,164	0.18
Monthly Total	35,084	
March		
1	1,273	0.28
2	1,135	0.28
3	1,320	0.28
4	1,345	0.27
5	1,349	0.28
6	1,338	0.28
7	1,267	0.27
8	1,201	0.27
9	1,203	0.26
10	1,369	0.26
11	1,376	0.27
12	1,431	0.26
13	1,386	0.26
14	1,404	0.26
15	1,364	0.25
16	1,384	0.25
17	1,343	0.25
18	1,420	0.26
19	1,262	0.24
20	1,346	0.25
21	1,314	0.25
22	1,317	0.26
23	1,334	0.24
24	1,323	0.24

25	1,385	0.22
26	1,315	0.25
27	1,192	0.25
28	1,205	0.25
29	1,318	0.25
30	1,281	0.25
31	1,297	0.25
Monthly Total	40,797	
April		
1	1,303	0.26
2	1,187	0.25
3	1,351	0.25
4	1,314	0.24
5	1,279	0.24
6	1,302	0.25
7	2,046	0.25
8	2,992	0.26
9	1,860	0.26
10	1,285	0.25
11	1,312	0.25
12	1,274	0.25
13	1,324	0.26
14	1,297	0.24
15	1,317	0.25
16	1,325	0.23
17	1,367	0.24
18	1,378	0.24
19	1,394	0.24
20	1,322	0.23
21	1,301	0.23
22	1,292	0.23
23	1,296	0.26
24	1,326	0.23
25	1,209	0.26
26	1,376	0.26
27	1,455	0.25
28	1,386	0.27
29	1,658	0.26
30	1,407	0.27
Monthly Total	42,935	
May		
1	1,556	0.31
2	1,366	0.30
3	2,370	0.27
4	2,143	0.25
5	2,236	0.25
6	2,077	0.28

7	2,077	0.27
8	2,053	0.26
9	2,264	0.35
10	2,501	0.28
11	2,266	0.28
12	2,468	0.27
13	2,644	0.28
14	2,464	0.26
15	2,137	0.30
16	2,423	0.30
17	2,569	0.34
18	2,067	0.30
19	2,368	0.30
20	2,449	0.28
21	2,428	0.28
22	2,426	0.34
23	2,224	0.32
24	2,568	0.30
25	2,477	0.30
26	2,409	0.28
27	2,408	0.28
28	2,547	0.30
29	2,853	0.27
30	2,741	0.28
31	3,006	0.26
Monthly Total	72,585	
June		
1	3,025	0.30
2	3,199	0.30
3	3,136	0.30
4	2,774	0.28
5	2,741	0.28
6	2,434	0.27
7	2,584	0.27
8	2,280	0.26
9	2,388	0.26
10	2,980	0.25
11	2,515	0.25
12	2,827	0.24
13	3,028	0.30
14	3,375	0.31
15	3,129	0.31
16	3,130	0.31
17	3,527	0.33
18	3,129	0.30
19	2,911	0.30
20	2,831	0.27

21	2,555	0.27
22	2,745	0.27
23	2,745	0.27
24	2,745	0.27
25	2,935	0.27
26	2,778	0.28
27	2,766	0.30
28	2,620	0.30
29	2,664	0.30
30	2,664	0.30
Monthly Total	85,160	
July		
1	2,664	0.30
2	2,664	0.31
3	2,708	0.31
4	2,908	0.33
5	2,792	0.29
6	2,553	0.29
7	2,553	0.29
8	2,314	0.30
9	2,490	0.27
10	2,370	0.28
11	2,303	0.28
12	2,212	0.27
13	2,575	0.28
14	2,444	0.28
15	2,641	0.27
16	2,670	0.27
17	2,402	0.29
18	2,375	0.26
19	2,272	0.29
20	2,577	0.24
21	2,726	0.28
22	2,973	0.28
23	3,104	0.30
24	2,876	0.27
25	2,728	0.31
26	2,916	0.29
27	2,076	0.25
28	2,556	0.28
29	2,920	0.27
30	3,017	0.30
31	2,671	0.31
Monthly Total	81,050	
August		
1	2,699	0.30
2	2,671	0.30

3	2,404	0.27
4	2,714	0.27
5	2,998	0.27
6	3,033	0.30
7	3,007	0.30
8	3,119	0.32
9	3,412	0.32
10	3,137	0.30
11	2,928	0.30
12	2,599	0.28
13	2,540	0.25
14	2,702	0.21
15	2,759	0.26
16	3,226	0.23
17	2,973	0.20
18	2,745	0.24
19	2,945	0.26
20	3,033	0.23
21	2,701	0.21
22	2,623	0.23
23	2,972	0.20
24	2,657	0.19
25	2,637	0.18
26	2,965	0.21
27	2,993	0.22
28	2,785	0.36
29	2,782	0.30
30	3,136	0.30
31	3,003	0.29
Monthly Total	88,898	
September		
1	2,698	0.27
2	2,837	0.30
3	3,062	0.30
4	2,628	0.32
5	2,480	0.31
6	2,895	0.28
7	2,733	0.25
8	2,609	0.25
9	2,509	0.29
10	2,270	0.29
11	2,262	0.28
12	2,262	0.27
13	2,333	0.26
14	1,877	0.26
15	1,928	0.26
16	1,848	0.26

17	1,782	0.28
18	1,860	0.27
19	1,887	0.26
20	1,868	0.27
21	1,816	0.27
22	1,778	0.27
23	1,649	0.28
24	1,639	0.27
25	1,751	0.25
26	1,637	0.27
27	1,522	0.28
28	1,597	0.28
29	1,555	0.28
30	1,476	0.34
Monthly Total	63,048	
October		
1	1,396	0.31
2	1,535	0.32
3	1,492	0.35
4	1,452	0.33
5	1,359	0.33
6	1,324	0.33
7	1,541	0.33
8	1,318	0.31
9	1,334	0.30
10	1,349	0.30
11	1,452	0.31
12	1,398	0.31
13	1,329	0.29
14	1,352	0.29
15	1,374	0.31
16	1,393	0.34
17	1,366	0.29
18	1,349	0.29
19	1,351	0.29
20	1,321	0.29
21	1,321	0.31
22	1,207	0.30
23	1,342	0.30
24	1,378	0.31
25	1,296	0.33
26	1,329	0.32
27	1,301	0.32
28	1,328	0.32
29	1,215	0.35
30	1,284	0.30
31	1,332	0.30

Monthly Total	42,118	
November		
1	1,269	0.30
2	1,312	0.30
4	1,336	0.31
5	1,338	0.30
6	1,712	0.28
7	1,316	0.33
8	1,297	0.29
9	1,265	0.29
10	1,125	0.29
11	1,289	0.29
12	1,201	0.28
13	1,284	0.29
14	1,129	0.29
15	1,131	0.29
16	1,271	0.29
17	1,267	0.29
18	1,116	0.29
19	1,301	0.30
20	1,290	0.30
21	1,178	0.29
22	1,319	0.30
23	1,281	0.30
24	1,303	0.30
25	1,203	0.32
26	1,250	0.29
27	1,156	0.29
28	1,253	0.30
29	1,275	0.27
Monthly Total	35,467	
December		
1	1,318	0.26
2	1,319	0.28
3	1,286	0.28
4	1,371	0.30
5	1,135	0.30
6	1,253	0.28
7	1,136	0.29
8	1,279	0.30
9	1,281	0.30
10	1,113	0.30
11	1,266	0.33
12	1,163	0.31
13	1,250	0.31
14	1,130	0.30
15	1,264	0.32

16	1,220	0.32
17	1,159	0.33
18	1,288	0.32
19	1,126	0.32
20	1,256	0.31
21	1,282	0.32
22	1,121	0.35
23	1,284	0.34
24	1,261	0.33
25	1,178	0.34
26	1,251	0.34
27	1,131	0.34
28	1,264	0.29
29	1,302	0.16
30	1,308	0.08
31	1,316	0.14
Monthly Total	38,311	
Total m3	667,727	
Daily Average	1,838	0.28
Max Day	3,527	0.36
Min Day	1,067	0.08

Your C.O.C. #: 577009-01-01

Attention: Jeff Westlake

VILLAGE OF PEMBERTON
Box 100
7400 Prospect St
Pemberton, BC
CANADA V0N 2L0

Report Date: 2019/02/28

Report #: R2692130

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B912925

Received: 2019/02/22, 08:15

Sample Matrix: DRINKING WATER

Samples Received: 4

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	4	N/A	2019/02/23	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	4	N/A	2019/02/25	BBY6SOP-00011	SM 22 4500-Cl- E m
True Colour (1, 2)	4	N/A	2019/02/24	EENVSOP-00065	SM 23 2120 C m
Conductance - water	4	N/A	2019/02/23	BBY6SOP-00026	SM 22 2510 B m
Fluoride	4	N/A	2019/02/25	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	4	N/A	2019/02/28	BBY WI-00033	Auto Calc
Mercury (Total) by CVAF	4	2019/02/26	2019/02/26	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2019/02/28	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	4	N/A	2019/02/27	BBY7SOP-00003,	EPA 6020b R2 m
Nitrate + Nitrite (N)	4	N/A	2019/02/23	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	4	N/A	2019/02/23	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	4	N/A	2019/02/27	BBY WI-00033	Auto Calc
pH @25°C (1, 4)	4	N/A	2019/02/26	AB SOP-00005	SM 23 4500 H+ B m
pH Water (5)	4	N/A	2019/02/23	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	4	N/A	2019/02/25	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	4	2019/02/27	2019/02/28	BBY6SOP-00033	SM 23 2540 C m
Turbidity	4	N/A	2019/02/22	BBY6SOP-00027	SM 22 2130 B m
VOCs, VH, F1, LH in Water by HS GC/MS	4	N/A	2019/02/23	BBY8SOP-00009/11/12	BCMOE BCLM Jul 2017
Volatile HC-BTEX (6)	4	N/A	2019/02/23	BBY WI-00033	Auto Calc

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report.

Your C.O.C. #: 577009-01-01

Attention: Jeff Westlake

VILLAGE OF PEMBERTON
Box 100
7400 Prospect St
Pemberton, BC
CANADA V0N 2L0

Report Date: 2019/02/28

Report #: R2692130

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B912925

Received: 2019/02/22, 08:15

Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Edmonton Environmental

(2) Analysis completed within 48h after laboratory receipt to a maximum of five days from sampling is satisfactory for compliance purposes.

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Maxxam endeavours to analyze samples as soon as possible after receipt.

(5) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

(6) VPH = VH - (Benzene + Toluene + Ethylbenzene + m & p-Xylene + o-Xylene + Styrene)

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Morgan Melnychuk, Burnaby Project Manager

Email: MMelnychuk@maxxam.ca

Phone# (604)638-8034 Ext:8034

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B912925
Report Date: 2019/02/28

VILLAGE OF PEMBERTON

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Maxxam ID			VG4516	VG4517	VG4518	VG4519	
Sampling Date			2019/02/21 09:45	2019/02/21 09:00	2019/02/21 09:15	2019/02/21 09:30	
COC Number			577009-01-01	577009-01-01	577009-01-01	577009-01-01	
	UNITS	OG	WELL #2	WELL #3	OAK ST	INDUSTRIAL P.	QC Batch
Misc. Inorganics							
pH	pH	7.0:10.5	7.07	7.06	7.55	7.37	9332499
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						

DRINKING WATER PACKAGE (REGULATED)

Maxxam ID					VG4516	VG4517	VG4518		
Sampling Date					2019/02/21 09:45	2019/02/21 09:00	2019/02/21 09:15		
COC Number					577009-01-01	577009-01-01	577009-01-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	OAK ST	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	<0.0050	0.0050	9330619
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	-	-	-	69.1	24.3	23.2	0.50	9329057
Nitrate (N)	mg/L	10	-	-	0.186	0.114	0.119	0.020	9329833
Misc. Inorganics									
Fluoride (F)	mg/L	1.5	-	-	0.026	<0.020	<0.020	0.020	9331178
Alkalinity (Total as CaCO3)	mg/L	-	-	-	33.8	12.8	45.2	1.0	9330273
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	9330273
Bicarbonate (HCO3)	mg/L	-	-	-	41.2	15.6	55.1	1.0	9330273
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	9330273
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	<1.0	1.0	9330273
Anions									
Dissolved Sulphate (SO4)	mg/L	-	500	-	19.2	8.7	8.6	1.0	9332443
Dissolved Chloride (Cl)	mg/L	-	250	-	39	7.1	7.8	1.0	9332442
Nutrients									
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.186	0.114	0.119	0.020	9330618
Physical Properties									
True Colour	PtCo units	-	15	-	<2.0	<2.0	4.9	2.0	9330779
Conductivity	uS/cm	-	-	-	237	74.7	132	2.0	9330272
pH	pH	-	-	7.0:10.5	7.05	6.84	7.44		9330271
Physical Properties									
Total Dissolved Solids	mg/L	-	500	-	150	42	64	10	9333634
Turbidity	NTU	see remark	see remark	see remark	2.23	0.26	0.11	0.10	9329985
Elements									
Total Mercury (Hg)	ug/L	1	-	-	<0.0020	0.0028	<0.0020	0.0020	9332171
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	-	-	100	106	8.3	4.3	3.0	9331696
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	<0.50	0.50	9331696
Total Arsenic (As)	ug/L	10	-	-	0.27	<0.10	<0.10	0.10	9331696
Total Barium (Ba)	ug/L	1000	-	-	42.9	15.8	14.7	1.0	9331696
Total Boron (B)	ug/L	5000	-	-	121	<50	<50	50	9331696
Total Cadmium (Cd)	ug/L	5	-	-	0.016	0.021	0.010	0.010	9331696
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	<1.0	1.0	9331696
Total Cobalt (Co)	ug/L	-	-	-	0.60	<0.20	<0.20	0.20	9331696
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									

Maxxam Job #: B912925
Report Date: 2019/02/28

VILLAGE OF PEMBERTON

DRINKING WATER PACKAGE (REGULATED)

Maxxam ID					VG4516	VG4517	VG4518		
Sampling Date					2019/02/21 09:45	2019/02/21 09:00	2019/02/21 09:15		
COC Number					577009-01-01	577009-01-01	577009-01-01		
	UNITS	MAC	AO	OG	WELL #2	WELL #3	OAK ST	RDL	QC Batch
Total Copper (Cu)	ug/L	-	1000	-	3.86	4.66	2.55	0.20	9331696
Total Iron (Fe)	ug/L	-	300	-	903	11.5	8.7	5.0	9331696
Total Lead (Pb)	ug/L	10	-	-	0.54	0.24	0.34	0.20	9331696
Total Manganese (Mn)	ug/L	-	50	-	121	15.3	4.6	1.0	9331696
Total Molybdenum (Mo)	ug/L	-	-	-	3.2	<1.0	<1.0	1.0	9331696
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	<1.0	1.0	9331696
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	<0.10	0.10	9331696
Total Silicon (Si)	ug/L	-	-	-	5260	3740	3720	100	9331696
Total Silver (Ag)	ug/L	-	-	-	<0.020	<0.020	<0.020	0.020	9331696
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	<0.10	0.10	9331696
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	<5.0	5.0	9331696
Total Zinc (Zn)	ug/L	-	5000	-	12.2	<5.0	<5.0	5.0	9331696
Total Calcium (Ca)	mg/L	-	-	-	25.4	8.98	8.55	0.050	9329827
Total Magnesium (Mg)	mg/L	-	-	-	1.38	0.450	0.447	0.050	9329827
Total Potassium (K)	mg/L	-	-	-	2.35	0.861	0.846	0.050	9329827
Total Sodium (Na)	mg/L	-	200	-	12.0	3.05	16.4	0.050	9329827
Total Sulphur (S)	mg/L	-	-	-	6.0	<3.0	<3.0	3.0	9329827
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									

DRINKING WATER PACKAGE (REGULATED)

Maxxam ID					VG4519		
Sampling Date					2019/02/21 09:30		
COC Number					577009-01-01		
	UNITS	MAC	AO	OG	INDUSTRIAL P.	RDL	QC Batch
ANIONS							
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	9330619
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	-	-	-	29.4	0.50	9329057
Nitrate (N)	mg/L	10	-	-	0.058	0.020	9329833
Misc. Inorganics							
Fluoride (F)	mg/L	1.5	-	-	0.022	0.020	9331178
Alkalinity (Total as CaCO3)	mg/L	-	-	-	24.2	1.0	9330273
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0	9330273
Bicarbonate (HCO3)	mg/L	-	-	-	29.5	1.0	9330273
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0	9330273
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0	9330273
Anions							
Dissolved Sulphate (SO4)	mg/L	-	500	-	9.3	1.0	9332443
Dissolved Chloride (Cl)	mg/L	-	250	-	1.5	1.0	9332442
Nutrients							
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.058	0.020	9330618
Physical Properties							
True Colour	PtCo units	-	15	-	<2.0	2.0	9330779
Conductivity	uS/cm	-	-	-	74.3	2.0	9330272
pH	pH	-	-	7.0:10.5	7.15		9330271
Physical Properties							
Total Dissolved Solids	mg/L	-	500	-	40	10	9333634
Turbidity	NTU	see remark	see remark	see remark	0.15	0.10	9329985
Elements							
Total Mercury (Hg)	ug/L	1	-	-	0.0049	0.0020	9332171
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	-	-	100	<3.0	3.0	9331696
Total Antimony (Sb)	ug/L	6	-	-	<0.50	0.50	9331696
Total Arsenic (As)	ug/L	10	-	-	0.14	0.10	9331696
Total Barium (Ba)	ug/L	1000	-	-	5.9	1.0	9331696
Total Boron (B)	ug/L	5000	-	-	<50	50	9331696
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	0.010	9331696
Total Chromium (Cr)	ug/L	50	-	-	1.0	1.0	9331696
Total Cobalt (Co)	ug/L	-	-	-	<0.20	0.20	9331696
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							

Maxxam Job #: B912925
Report Date: 2019/02/28

VILLAGE OF PEMBERTON

DRINKING WATER PACKAGE (REGULATED)

Maxxam ID					VG4519		
Sampling Date					2019/02/21 09:30		
COC Number					577009-01-01		
	UNITS	MAC	AO	OG	INDUSTRIAL P.	RDL	QC Batch
Total Copper (Cu)	ug/L	-	1000	-	2.87	0.20	9331696
Total Iron (Fe)	ug/L	-	300	-	13.6	5.0	9331696
Total Lead (Pb)	ug/L	10	-	-	<0.20	0.20	9331696
Total Manganese (Mn)	ug/L	-	50	-	<1.0	1.0	9331696
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	1.0	9331696
Total Nickel (Ni)	ug/L	-	-	-	<1.0	1.0	9331696
Total Selenium (Se)	ug/L	50	-	-	0.11	0.10	9331696
Total Silicon (Si)	ug/L	-	-	-	2630	100	9331696
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020	9331696
Total Uranium (U)	ug/L	20	-	-	<0.10	0.10	9331696
Total Vanadium (V)	ug/L	-	-	-	<5.0	5.0	9331696
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	5.0	9331696
Total Calcium (Ca)	mg/L	-	-	-	10.3	0.050	9329827
Total Magnesium (Mg)	mg/L	-	-	-	0.871	0.050	9329827
Total Potassium (K)	mg/L	-	-	-	0.465	0.050	9329827
Total Sodium (Na)	mg/L	-	200	-	1.30	0.050	9329827
Total Sulphur (S)	mg/L	-	-	-	3.2	3.0	9329827
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							

Maxxam Job #: B912925
Report Date: 2019/02/28

VILLAGE OF PEMBERTON

CSR VOC + VPH IN WATER (DRINKING WATER)

Maxxam ID				VG4516	VG4517	VG4518	VG4519		
Sampling Date				2019/02/21 09:45	2019/02/21 09:00	2019/02/21 09:15	2019/02/21 09:30		
COC Number				577009-01-01	577009-01-01	577009-01-01	577009-01-01		
	UNITS	MAC	AO	WELL #2	WELL #3	OAK ST	INDUSTRIAL P.	RDL	QC Batch
Calculated Parameters									
VPH (VH6 to 10 - BTEX)	ug/L	-	-	<300	<300	<300	<300	300	9330157
Volatiles									
VH C6-C10	ug/L	-	-	<300	<300	<300	<300	300	9329952
1,1,1,2-tetrachloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,1,1-trichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,1,2,2-tetrachloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,1,2Trichloro-1,2,2Trifluoroethane	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	9329952
1,1,2-trichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,1-dichloroethane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,1-dichloroethene	ug/L	14	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,2,3-trichlorobenzene	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	9329952
1,2,4-trichlorobenzene	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	9329952
1,2-dibromoethane	ug/L	-	-	<0.20	<0.20	<0.20	<0.20	0.20	9329952
1,2-dichlorobenzene	ug/L	200	3	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,2-dichloroethane	ug/L	5	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,2-dichloropropane	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,3,5-trimethylbenzene	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	9329952
1,3-Butadiene	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,3-dichlorobenzene	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
1,3-dichloropropane	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
1,4-dichlorobenzene	ug/L	5	1	<0.50	<0.50	<0.50	<0.50	0.50	9329952
Benzene	ug/L	5	-	<0.40	<0.40	<0.40	<0.40	0.40	9329952
Bromobenzene	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	9329952
Bromodichloromethane	ug/L	-	-	<1.0	<1.0	1.1	<1.0	1.0	9329952
Bromoform	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
Bromomethane	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
Carbon tetrachloride	ug/L	2	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
Chlorobenzene	ug/L	80	30	<0.50	<0.50	<0.50	<0.50	0.50	9329952
Chlorodibromomethane	ug/L	-	-	<1.0	<1.0	1.5	<1.0	1.0	9329952
Chloroethane	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
Chloroform	ug/L	-	-	<1.0	<1.0	<1.0	1.2	1.0	9329952
Chloromethane	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
cis-1,2-dichloroethene	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
cis-1,3-dichloropropene	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									

Maxxam Job #: B912925
Report Date: 2019/02/28

VILLAGE OF PEMBERTON

CSR VOC + VPH IN WATER (DRINKING WATER)

Maxxam ID				VG4516	VG4517	VG4518	VG4519		
Sampling Date				2019/02/21 09:45	2019/02/21 09:00	2019/02/21 09:15	2019/02/21 09:30		
COC Number				577009-01-01	577009-01-01	577009-01-01	577009-01-01		
	UNITS	MAC	AO	WELL #2	WELL #3	OAK ST	INDUSTRIAL P.	RDL	QC Batch
Dichlorodifluoromethane	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	9329952
Dichloromethane	ug/L	50	-	<2.0	<2.0	<2.0	<2.0	2.0	9329952
Ethylbenzene	ug/L	140	1.6	<0.40	<0.40	<0.40	<0.40	0.40	9329952
Hexachlorobutadiene	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
Isopropylbenzene	ug/L	-	-	<2.0	<2.0	<2.0	<2.0	2.0	9329952
Methyl-tert-butylether (MTBE)	ug/L	-	15	<4.0	<4.0	<4.0	<4.0	4.0	9329952
Styrene	ug/L	-	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
Tetrachloroethene	ug/L	10	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
Toluene	ug/L	60	24	<0.40	<0.40	<0.40	<0.40	0.40	9329952
trans-1,2-dichloroethene	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
trans-1,3-dichloropropene	ug/L	-	-	<1.0	<1.0	<1.0	<1.0	1.0	9329952
Trichloroethene	ug/L	5	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
Trichlorofluoromethane	ug/L	-	-	<4.0	<4.0	<4.0	<4.0	4.0	9329952
Vinyl chloride	ug/L	2	-	<0.50	<0.50	<0.50	<0.50	0.50	9329952
m & p-Xylene	ug/L	-	-	<0.40	<0.40	<0.40	<0.40	0.40	9329952
o-Xylene	ug/L	-	-	<0.40	<0.40	<0.40	<0.40	0.40	9329952
Xylenes (Total)	ug/L	90	20	<0.40	<0.40	<0.40	<0.40	0.40	9329952
Surrogate Recovery (%)									
1,4-Difluorobenzene (sur.)	%	-	-	102	102	102	102		9329952
4-Bromofluorobenzene (sur.)	%	-	-	87	88	87	87		9329952
D4-1,2-Dichloroethane (sur.)	%	-	-	89	90	91	89		9329952
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									

GENERAL COMMENTS

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.
4. To ensure effectiveness of disinfection and for good operation of the distribution system, it is recommended that water entering the distribution system have turbidity levels of 1.0 NTU or less.

Measurement of Uncertainty has not been accounted for when stating conformity to the selected criteria, where applicable.

Results relate only to the items tested.

Maxxam Job #: B912925
Report Date: 2019/02/28

QUALITY ASSURANCE REPORT

VILLAGE OF PEMBERTON

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9329952	1,4-Difluorobenzene (sur.)	2019/02/22	100	50 - 140	100	50 - 140	101	%		
9329952	4-Bromofluorobenzene (sur.)	2019/02/22	100	50 - 140	100	50 - 140	89	%		
9329952	D4-1,2-Dichloroethane (sur.)	2019/02/22	94	50 - 140	93	50 - 140	87	%		
9329952	1,1,1,2-tetrachloroethane	2019/02/22	94	50 - 140	91	60 - 130	<0.50	ug/L	NC	30
9329952	1,1,1-trichloroethane	2019/02/22	102	50 - 140	97	60 - 130	<0.50	ug/L	NC	30
9329952	1,1,2,2-tetrachloroethane	2019/02/22	93	50 - 140	87	60 - 130	<0.50	ug/L	NC	30
9329952	1,1,2Trichloro-1,2,2Trifluoroethane	2019/02/22	107	50 - 140	102	60 - 130	<2.0	ug/L	NC	30
9329952	1,1,2-trichloroethane	2019/02/22	98	50 - 140	94	60 - 130	<0.50	ug/L	NC	30
9329952	1,1-dichloroethane	2019/02/22	106	50 - 140	100	60 - 130	<0.50	ug/L	NC	30
9329952	1,1-dichloroethene	2019/02/22	109	50 - 140	101	60 - 130	<0.50	ug/L	NC	30
9329952	1,2,3-trichlorobenzene	2019/02/22	117	50 - 140	110	60 - 130	<2.0	ug/L		
9329952	1,2,4-trichlorobenzene	2019/02/22	115	50 - 140	109	60 - 130	<2.0	ug/L		
9329952	1,2-dibromoethane	2019/02/22	96	50 - 140	92	60 - 130	<0.20	ug/L		
9329952	1,2-dichlorobenzene	2019/02/22	112	50 - 140	106	60 - 130	<0.50	ug/L	NC	30
9329952	1,2-dichloroethane	2019/02/22	97	50 - 140	93	60 - 130	<0.50	ug/L	NC	30
9329952	1,2-dichloropropane	2019/02/22	99	50 - 140	95	60 - 130	<0.50	ug/L	NC	30
9329952	1,3,5-trimethylbenzene	2019/02/22	112	50 - 140	108	60 - 130	<2.0	ug/L		
9329952	1,3-Butadiene	2019/02/22	88	50 - 140	85	60 - 130	<0.50	ug/L	NC	30
9329952	1,3-dichlorobenzene	2019/02/22	114	50 - 140	108	60 - 130	<0.50	ug/L	NC	30
9329952	1,3-dichloropropane	2019/02/22	99	50 - 140	94	60 - 130	<1.0	ug/L		
9329952	1,4-dichlorobenzene	2019/02/22	110	50 - 140	105	60 - 130	<0.50	ug/L	NC	30
9329952	Benzene	2019/02/22	99	50 - 140	95	60 - 130	<0.40	ug/L	NC	30
9329952	Bromobenzene	2019/02/22	105	50 - 140	101	60 - 130	<2.0	ug/L	NC	30
9329952	Bromodichloromethane	2019/02/22	98	50 - 140	92	60 - 130	<1.0	ug/L	NC	30
9329952	Bromoform	2019/02/22	99	50 - 140	95	60 - 130	<1.0	ug/L	NC	30
9329952	Bromomethane	2019/02/22	101	50 - 140	95	60 - 130	<1.0	ug/L	NC	30
9329952	Carbon tetrachloride	2019/02/22	104	50 - 140	99	60 - 130	<0.50	ug/L	NC	30
9329952	Chlorobenzene	2019/02/22	95	50 - 140	92	60 - 130	<0.50	ug/L	NC	30
9329952	Chlorodibromomethane	2019/02/22	102	50 - 140	96	60 - 130	<1.0	ug/L	NC	30
9329952	Chloroethane	2019/02/22	90	50 - 140	87	60 - 130	<1.0	ug/L	NC	30
9329952	Chloroform	2019/02/22	100	50 - 140	95	60 - 130	<1.0	ug/L	NC	30
9329952	Chloromethane	2019/02/22	103	50 - 140	98	50 - 140	<1.0	ug/L	NC	30
9329952	cis-1,2-dichloroethene	2019/02/22	100	50 - 140	95	60 - 130	<1.0	ug/L	NC	30
9329952	cis-1,3-dichloropropene	2019/02/22	97	50 - 140	92	50 - 140	<1.0	ug/L	NC	30

Maxxam Job #: B912925
Report Date: 2019/02/28

QUALITY ASSURANCE REPORT(CONT'D)

VILLAGE OF PEMBERTON

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9329952	Dichlorodifluoromethane	2019/02/22	115	50 - 140	111	50 - 140	<2.0	ug/L	NC	30
9329952	Dichloromethane	2019/02/22	123	50 - 140	115	60 - 130	<2.0	ug/L	NC	30
9329952	Ethylbenzene	2019/02/22	99	50 - 140	96	60 - 130	<0.40	ug/L	NC	30
9329952	Hexachlorobutadiene	2019/02/22	110	50 - 140	105	60 - 130	<0.50	ug/L		
9329952	Isopropylbenzene	2019/02/22	107	50 - 140	103	60 - 130	<2.0	ug/L		
9329952	m & p-Xylene	2019/02/22	107	50 - 140	103	60 - 130	<0.40	ug/L	NC	30
9329952	Methyl-tert-butylether (MTBE)	2019/02/22	103	50 - 140	98	60 - 130	<4.0	ug/L	NC	30
9329952	o-Xylene	2019/02/22	103	50 - 140	99	60 - 130	<0.40	ug/L	NC	30
9329952	Styrene	2019/02/22	102	50 - 140	98	60 - 130	<0.50	ug/L	NC	30
9329952	Tetrachloroethene	2019/02/22	103	50 - 140	98	60 - 130	<0.50	ug/L	NC	30
9329952	Toluene	2019/02/22	101	50 - 140	97	60 - 130	<0.40	ug/L	NC	30
9329952	trans-1,2-dichloroethene	2019/02/22	108	50 - 140	102	60 - 130	<1.0	ug/L	NC	30
9329952	trans-1,3-dichloropropene	2019/02/22	96	50 - 140	91	50 - 140	<1.0	ug/L	NC	30
9329952	Trichloroethene	2019/02/22	108	50 - 140	102	60 - 130	<0.50	ug/L	NC	30
9329952	Trichlorofluoromethane	2019/02/22	107	50 - 140	101	60 - 130	<4.0	ug/L	NC	30
9329952	VH C6-C10	2019/02/22			71	70 - 130	<300	ug/L	NC	30
9329952	Vinyl chloride	2019/02/22	130	50 - 140	124	50 - 140	<0.50	ug/L	NC	30
9329952	Xylenes (Total)	2019/02/22					<0.40	ug/L	NC	30
9329985	Turbidity	2019/02/22			98	80 - 120	<0.10	NTU	5.8	20
9330271	pH	2019/02/23			101	97 - 103				
9330272	Conductivity	2019/02/23			100	80 - 120	<2.0	uS/cm		
9330273	Alkalinity (PP as CaCO3)	2019/02/23					<1.0	mg/L		
9330273	Alkalinity (Total as CaCO3)	2019/02/23			97	80 - 120	<1.0	mg/L		
9330273	Bicarbonate (HCO3)	2019/02/23					<1.0	mg/L		
9330273	Carbonate (CO3)	2019/02/23					<1.0	mg/L		
9330273	Hydroxide (OH)	2019/02/23					<1.0	mg/L		
9330618	Nitrate plus Nitrite (N)	2019/02/23	NC	80 - 120	107	80 - 120	<0.020	mg/L	0.86	25
9330619	Nitrite (N)	2019/02/23	97	80 - 120	102	80 - 120	<0.0050	mg/L	7.5	20
9330779	True Colour	2019/02/24			99	80 - 120	<2.0	PtCo units	4.7	20
9331178	Fluoride (F)	2019/02/25	NC	80 - 120	110	80 - 120	<0.020	mg/L	0	20
9331696	Total Aluminum (Al)	2019/02/27	98	80 - 120	102	80 - 120	<3.0	ug/L		
9331696	Total Antimony (Sb)	2019/02/27	102	80 - 120	101	80 - 120	<0.50	ug/L		
9331696	Total Arsenic (As)	2019/02/27	107	80 - 120	108	80 - 120	<0.10	ug/L		
9331696	Total Barium (Ba)	2019/02/27	104	80 - 120	105	80 - 120	<1.0	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

VILLAGE OF PEMBERTON

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9331696	Total Boron (B)	2019/02/27	106	80 - 120	104	80 - 120	<50	ug/L		
9331696	Total Cadmium (Cd)	2019/02/27	103	80 - 120	102	80 - 120	<0.010	ug/L		
9331696	Total Chromium (Cr)	2019/02/27	97	80 - 120	96	80 - 120	<1.0	ug/L		
9331696	Total Cobalt (Co)	2019/02/27	97	80 - 120	97	80 - 120	<0.20	ug/L		
9331696	Total Copper (Cu)	2019/02/27	NC	80 - 120	96	80 - 120	<0.20	ug/L		
9331696	Total Iron (Fe)	2019/02/27	103	80 - 120	106	80 - 120	<5.0	ug/L		
9331696	Total Lead (Pb)	2019/02/27	103	80 - 120	105	80 - 120	<0.20	ug/L	1.1	20
9331696	Total Manganese (Mn)	2019/02/27	96	80 - 120	98	80 - 120	<1.0	ug/L		
9331696	Total Molybdenum (Mo)	2019/02/27	105	80 - 120	100	80 - 120	<1.0	ug/L		
9331696	Total Nickel (Ni)	2019/02/27	99	80 - 120	97	80 - 120	<1.0	ug/L		
9331696	Total Selenium (Se)	2019/02/27	105	80 - 120	102	80 - 120	<0.10	ug/L		
9331696	Total Silicon (Si)	2019/02/27	104	80 - 120	108	80 - 120	<100	ug/L		
9331696	Total Silver (Ag)	2019/02/27	103	80 - 120	103	80 - 120	<0.020	ug/L		
9331696	Total Uranium (U)	2019/02/27	102	80 - 120	103	80 - 120	<0.10	ug/L		
9331696	Total Vanadium (V)	2019/02/27	99	80 - 120	96	80 - 120	<5.0	ug/L		
9331696	Total Zinc (Zn)	2019/02/27	99	80 - 120	99	80 - 120	<5.0	ug/L		
9332171	Total Mercury (Hg)	2019/02/26	91	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9332442	Dissolved Chloride (Cl)	2019/02/25	99	80 - 120	105	80 - 120	<1.0	mg/L	NC	20
9332443	Dissolved Sulphate (SO4)	2019/02/25	90	80 - 120	99	80 - 120	<1.0	mg/L	2.5	20
9332499	pH	2019/02/26			100	97 - 103			0.37	N/A
9333634	Total Dissolved Solids	2019/02/28	103	80 - 120	93	80 - 120	<10	mg/L	1.8	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

INVOICE TO:

Company Name: #99020 VILLAGE OF PEMBERTON
 Contact Name: Accounts Payable
 Address: Box 100 7400 Prospect St
 Pemberton BC V0N 2L0
 Phone: (604) 894-6811 Fax: (604) 894-6855
 Email: accountspayable@pemberton.ca

Report Information

Company Name: Jeff Westlake
 Contact Name: [REDACTED]
 Address: [REDACTED]
 Phone: (604) 894-6135
 Email: jwestlake@pemberton.ca

Project Information

Quotation #: B80135
 P.O. #: [REDACTED]
 Project #: [REDACTED]
 Project Name: [REDACTED]
 Site #: [REDACTED]
 Sampled By: [REDACTED]



B912925_COC

Bottle Order #:



577009

Project Manager

Morgan Meinychuk

Regulatory Criteria:

CSR
 CCME
 BC Water Quality
 Other

Special Instructions:

PLEASE PLOT WITH AO + MAC IDENTIFIED

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Metals Field Filtered ? (Y/N)	Drinking Water Package - without Microbiologicals	Trihalomethanes (THM) in Water	CSR VOC + VPH in Water
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BCG and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

1 DAY 2 Day 3 Day Date Required: _____

Rush Confirmation Number: _____ (call lab for #)

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y/N)	Drinking Water Package - without Microbiologicals	Trihalomethanes (THM) in Water	CSR VOC + VPH in Water	# of Bottles	Comments
1	WELL # 2	FEB 21	9:45 AM			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	
2	WELL # 3	FEB 21	9:00 AM			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	
3	@AK ST	FEB 21	9:15 AM			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	
4	INDUSTRIAL P.	FEB 21	9:30 AM			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	
5										
6										
7										
8										
9										
10										

RECEIVED BY: (Signature/Print) [REDACTED] **Date: (YY/MM/DD)** 19/02/21 **Time** 10:00

RECEIVED BY: (Signature/Print) [REDACTED] **Date: (YY/MM/DD)** 2019/02/22 **Time** 08:15

jars used and not submitted [REDACTED]

Lab Use Only

Time Sensitive Temperature (°C) on Receipt: 5.6.7

Custody Seal/Intact in Cooler? Yes No

White: Maxxam Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

** IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Appendix III

2019 Village of Pemberton Water Sampling Program

Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	1/14/2019					
Health Centre	1/14/2019	0.26	6.7	9.3	40	
Village Office	1/14/2019	0.29	6.7	8	40	
Plateau/Ridge	1/14/2019	0.23	6.7	8.2	35	
Oak St	1/14/2019	0.30	6.8	8.6	36	
Pemberton North						
Collins Rd	1/14/2019					frozen
Meadows Rd	1/14/2019					frozen
Farm Rd	1/14/2019	0.28	6.6	8.5	30	
Urdal Rd	1/14/2019					frozen
Distrib total		0.27	6.7	8.5	36	
Industrial Park	1/14/2019					
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	1/21/2019					
Health Centre	1/21/2019	0.31	7.2	9.8	60	
Village Office	1/21/2019	0.28	7.1	8.3	51	
Plateau/Ridge	1/21/2019	0.22	7.2	8.5	47	
Oak St	1/21/2019	0.32	7.1	8.5	60	
Pemberton North						
Collins Rd	1/21/2019					frozen
Meadows Rd	1/21/2019					frozen
Farm Rd	1/21/2019					frozen
Urdal Rd	1/21/2019					frozen
Distrib total		0.28	7.2	8.8	55	
Industrial Park	1/21/2019				21	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	1/29/2019					
Health Centre	1/29/2019	0.28	7.2	8.5	43	
Village Office	1/29/2019	0.27	7.2	8.4	47	
Plateau/Ridge	1/29/2019	0.25	7.2	8.4	47	
Oak St	1/29/2019	0.32	7.2	7.4	48	
Pemberton North						
Collins Rd	1/29/2019					frozen
Meadows Rd	1/29/2019					frozen
Farm Rd	1/29/2019					frozen
Urdal Rd	1/29/2019					frozen
Distrib total		0.28	7.2	8.2	46	
Industrial Park	1/29/2019				27	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	2/4/2019	0	7.1	7.6		

Health Centre	2/4/2019	0.31	7.2	8	66	
Village Office	2/4/2019	0.27	7.2	8.2	59	
Plateau/Ridge	2/4/2019	0.14	7.2	8.2	47	
Oak St	2/4/2019	0.31	7.2	8.1	60	
Pemberton North						
Collins Rd	2/4/2019					frozen
Meadows Rd	2/4/2019					frozen
Farm Rd	2/4/2019					frozen
Urdal Rd	2/4/2019					frozen
Distrib total		0.21	7.2	8.0	58	
Industrial Park	2/4/2019				23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	2/11/2019	0.16	7.2	9		
Health Centre	2/11/2019	0.24	7.2	9	63	
Village Office	2/11/2019	0.26	7.3	8.8	56	
Plateau/Ridge	2/11/2019	0.16	7.2	8.8	47	
Oak St	2/11/2019	0.30	7.3	8.8	49	
Pemberton North						
Collins Rd	2/11/2019					frozen
Meadows Rd	2/11/2019					frozen
Farm Rd	2/11/2019					frozen
Urdal Rd	2/11/2019					frozen
Distrib total		0.22	7.2	8.9	54	
Industrial Park	2/11/2019				25	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	19-Feb	0.03	7.0	9.4	63	
Health Centre	19-Feb	0.25	7.1	9.8	49	
Village Office	19-Feb	0.28	7.2	8.9	63	
Plateau/Ridge	19-Feb	0.16	7.2	8.5	58	
Oak St	19-Feb	0.3	7.2	9.3	52	
Pemberton North						
Collins Rd	19-Feb					frozen
Meadows Rd	19-Feb					frozen
Farm Rd	19-Feb					frozen
Urdal Rd	19-Feb					frozen
Distrib total		0.20	7.1	9.2	57	
Industrial Park	19-Feb	0.11	7.2	8.9	29	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	25-Feb	0.21	7.3	4.5	52	
Health Centre	25-Feb	0.26	7.3	7.1	42	
Village Office	25-Feb	0.28	7.3	6.1	55	
Plateau/Ridge	25-Feb	0.25	7.1	8.8	43	
Oak St	25-Feb	0.31	7.3	6.2	53	
Pemberton North						

Collins Rd	25-Feb					frozen
Meadows Rd	25-Feb					frozen
Farm Rd	25-Feb					frozen
Urdal Rd	25-Feb					frozen
Distrib total		0.26	7.3	6.5	49	
Industrial Park	25-Feb	0.12	7.3	4.6	24	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	4-Mar	0	7.3	8.6	60	
Health Centre	4-Mar	0.27	7.3	8.7	57	
Village Office	4-Mar	0.28	7.3	9	52	
Plateau/Ridge	4-Mar	0.23	7.3	8.4	56	
Oak St	4-Mar	0.34	7.3	8	58	
Pemberton North						
Collins Rd	4-Mar					frozen
Meadows Rd	4-Mar					frozen
Farm Rd	4-Mar					frozen
Urdal Rd	4-Mar					frozen
Distrib total		0.22	7.3	8.54	57	
Industrial Park	4-Mar	0.16	7.3	8.4	27	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	11-Mar	0	7.3	8.2	58	
Health Centre	11-Mar	0.28	7.2	9.1	48	
Village Office	11-Mar	0.23	7.2	8.5	55	
Plateau/Ridge	11-Mar	0.32	7.3	7.4	46	
Oak St	11-Mar	0.31	7.2	8.4	51	
Pemberton North						
Collins Rd	11-Mar					frozen
Meadows Rd	11-Mar					frozen
Farm Rd	11-Mar					frozen
Urdal Rd	11-Mar					frozen
Distrib total		0.23	7.2	8.32	52	
Industrial Park	11-Mar	0.11	7.3	8.1	25	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	18-Mar	0.32	7.3	4.2	58	
Health Centre	18-Mar				62	
Village Office	18-Mar	0.28	7.2	7.1	57	
Plateau/Ridge	18-Mar	0.29	7.3	5.3	56	
Oak St	18-Mar	0.24	7.3	5.3	51	
Pemberton North						
Collins Rd	18-Mar					frozen
Meadows Rd	18-Mar					frozen
Farm Rd	18-Mar	0.32	7.2	4.7	53	
Urdal Rd	18-Mar					
Distrib total		0.29	7.2	5.32	56	

Industrial Park	18-Mar	0.1	7.2	4.7	30	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	3/25/2019	0.21	7.3	7.5	57	
Health Centre	3/25/2019	0.29	7.3	10	58	
Village Office	3/25/2019	0.25	7.3	9.9	56	
Plateau/Ridge	3/25/2019				54	
Oak St	3/25/2019	0.32	7.1	11.4	51	
Pemberton North						
Collins Rd	3/25/2019	0.31	7.3	9.6	50	
Meadows Rd	3/25/2019					frozen
Farm Rd	3/25/2019	0.28	7.3	9.3	48	
Urdal Rd	3/25/2019					frozen
Distrib total	3/25/2019	0.28	7.3	9.62	53	
Industrial Park		0	7.3	8.2	33	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	4/1/2019	0.1	7.1	6.5	61	
Health Centre	4/1/2019	0.33	7.0	8.4	57	
Village Office	4/1/2019	0.25	7.1	6.7	45	
Plateau/Ridge	4/1/2019	0.2	7.0	6.8	46	
Oak St	4/1/2019	0.33	7.0	7.3	60	
Pemberton North						
Collins Rd	4/1/2019	0.28	7.1	5.2	57	
Meadows Rd	4/1/2019	0.28	7.1	5.8	56	
Farm Rd	4/1/2019	0.29	7.1	5.5	65	
Urdal Rd	4/1/2019					
Distrib total	4/1/2019	0.26	7.1	6.53	56	
Industrial Park	4/1/2019	0.05	7.2	5.5	26	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	4/8/2019	0.17	7.4	9.3	54	
Health Centre	4/8/2019	0.28	7.3	10.2	60	
Village Office	4/8/2019	0.21	7.4	8.4	50	
Plateau/Ridge	4/8/2019	0.17	7.4	8.3	57	
Oak St	4/8/2019	0.33	7.3	10	47	
Pemberton North						
Collins Rd	4/8/2019	0.34	7.4	8.5	52	
Meadows Rd	4/8/2019	0.32	7.3	9.4	63	
Farm Rd	4/8/2019	0.3	7.4	8.8	62	
Urdal Rd	4/8/2019	0.27	7.4	9.4	62	
Distrib total		0.27	7.4	9.1	56	
Industrial Park	4/8/2019	0	7.3	8.9	26	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	4/15/2019	0.23	7.4	8.8	54	
Health Centre	4/15/2019	0.26	7.3	8.1	61	

Village Office	4/15/2019	0.27	7.3	9	55	
Plateau/Ridge	4/15/2019	0.24	7.4	8.7	44	
Oak St	4/15/2019	0.22	7.3	9.5	53	
Pemberton North						
Collins Rd	4/15/2019	0.38	7.3	7.9	55	
Meadows Rd	4/15/2019	0.29	7.4	7.9	53	
Farm Rd	4/15/2019	0.28	7.3	9	55	
Urdal Rd	4/15/2019	0.3	7.3	9.2	52	
Distrib total		0.27	7.3	8.7	54	
Industrial Park	4/15/2019	0.14	7.3	9.6	29	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	4/29/2019	0.09	7.3	11.5	54	
Health Centre	4/29/2019					
Village Office	4/29/2019	0.32	7.3	11.3	53	
Plateau/Ridge	4/29/2019	0.2	7.2	12	54	
Oak St	4/29/2019	0.36	7.2	11.8	59	
Pemberton North						
Collins Rd	4/29/2019	0.33	7.2	11.4	49	
Meadows Rd	4/29/2019	0.34	7.2	11.8	55	
Farm Rd	4/29/2019	0.32	7.2	11.1	49	
Urdal Rd	4/29/2019	0.32	7.2	11.6	48	
Distrib total		0.29	7.2	11.6	53	
Industrial Park	4/29/2019	0	7.2	11.8	30	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	5/7/2019	0.01	7.2	10	47	
Health Centre	5/7/2019	0.28	7.3	10.6	45	
Village Office	5/7/2019					
Plateau/Ridge	5/7/2019	0.35	7.3	10.2	50	
Oak St	5/7/2019	0.35	7.3	11	39	
Pemberton North						
Collins Rd	5/7/2019	0.36	7.3	9.2	45	
Meadows Rd	5/7/2019	0.33	7.3	10.1	45	
Farm Rd	5/7/2019	0.32	7.3	9.9	40	
Urdal Rd	5/7/2019	0.25	7.3	11.6	45	
Distrib total		0.28	7.3	10.3	45	
Industrial Park	5/7/2019	0.22	7.3	10.3	28	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	5/13/2019	0.08	7.4	11.6	47	
Health Centre	5/13/2019	0.35	7.2	14.9	55	
Village Office	5/13/2019	0.31	7.3	11	52	
Plateau/Ridge	5/13/2019	0.34	7.3	10.9	56	
Oak St	5/13/2019	0.37	7.3	10.6	52	
Pemberton North						
Collins Rd	5/13/2019	0.44	7.4	10.4	51	

Meadows Rd	5/13/2019	0.37	7.4	10.7	54	
Farm Rd	5/13/2019	0.36	7.4	9.5	58	
Urdal Rd	5/13/2019	0.34	7.4	10.2	49	
Distrib total		0.33	7.3	11.1	53	
Industrial Park	5/13/2019	0.04	7.3	11.8	24	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	5/21/2019	0.13	7.4	11.8	63	
Health Centre	5/21/2019	0.29	7.3	11.8	55	
Village Office	5/21/2019	0.32	7.3	12.6	44	
Plateau/Ridge	5/21/2019	0.28	7.4	11.6	67	
Oak St	5/21/2019	0.33	7.3	12.6	47	
Pemberton North						
Collins Rd	5/21/2019	0.33	7.2	10.4	46	
Meadows Rd	5/21/2019	0.31	7.3	11.1	42	
Farm Rd	5/21/2019	0.35	7.3	11.5	44	
Urdal Rd	5/21/2019	0.29	7.2	11.4	48	
Distrib total		0.29	7.3	11.6	51	
Industrial Park	5/21/2019	0	7.4	11	30	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	5/21/2019	0.19	7.4	14.5	52	
Health Centre	5/21/2019	0.3	7.5	9.3	45	
Village Office	5/21/2019	0.23	7.5	9.9	51	
Plateau/Ridge	5/21/2019	0.32	7.5	8.8	45	
Oak St	5/21/2019	0.31	7.5	8.8	51	
Pemberton North						
Collins Rd	5/21/2019	0.28	7.5	8.6	46	
Meadows Rd	5/21/2019	0.28	7.5	8.7	56	
Farm Rd	5/21/2019	0.32	7.5	9.7	42	
Urdal Rd	5/21/2019	0.3	7.5	9.9	51	
Distrib total		0.28	7.5	9.8	49	
Industrial Park	5/21/2019	0.13	7.5	8.5	23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	5/28/2019	0.16	7.1	16	49	
Health Centre	5/28/2019	0.29	7.2	13.9	46	
Village Office	5/28/2019	0.23	7.3	15	46	
Plateau/Ridge	5/28/2019	0.25	7.3	15.5	45	
Oak St	5/28/2019	0.31	7.2	13.6	46	
Pemberton North						
Collins Rd	5/28/2019	0.31	7.2	14.2	47	
Meadows Rd	5/28/2019	0.3	7.3	12.9	39	
Farm Rd	5/28/2019	0.36	7.3	14.1	44	
Urdal Rd	5/28/2019	0.3	7.2	12.5	45	
Distrib total		0.28	7.2	14.2	45	
Industrial Park	5/28/2019	0.16	7.1	16.7	23	

Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	6/3/2019	0.19	7.4	14.5	52	
Health Centre	6/3/2019	0.3	7.5	9.3	45	
Village Office	6/3/2019	0.23	7.5	9.9	51	
Plateau/Ridge	6/3/2019	0.32	7.5	8.8	45	
Oak St	6/3/2019	0.31	7.5	8.8	51	
Pemberton North						
Collins Rd	6/3/2019	0.28	7.5	8.6	46	
Meadows Rd	6/3/2019	0.28	7.5	8.7	56	
Farm Rd	6/3/2019	0.32	7.5	9.7	42	
Urdal Rd	6/3/2019	0.3	7.5	9.9	51	
Distrib total		0.28	7.5	9.8	49	
Industrial Park	6/3/2019	0.13	7.5	8.5	23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	6/11/2019	0.28	7.2	14.9	56	
Health Centre	6/11/2019	0.28	7.2	15.7	47	
Village Office	6/11/2019	0.31	7.2	13.9	55	
Plateau/Ridge	6/11/2019	0.18	7.2	14	53	
Oak St	6/11/2019	0.33	7.2	13.7	49	
Pemberton North						
Collins Rd	6/11/2019	0.37	7.1	14.2	57	
Meadows Rd	6/11/2019	0.34	7.2	12.9	58	
Farm Rd	6/11/2019	0.34	7.2	13.9	51	
Urdal Rd	6/11/2019	0.27	7.2	15.2	55	
Distrib total		0.30	7.2	14.3	53	
Industrial Park	6/11/2019	0	7.3	15.9	23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	6/17/2019	0.23	7.1	14.7	58	
Health Centre	6/17/2019	0.26	7.1	13.3	45	
Village Office	6/17/2019	0.36	7.1	12.7	47	
Plateau/Ridge	6/17/2019	0.35	7.2	11.6	49	
Oak St	6/17/2019	0.37	7.2	10.8	50	
Pemberton North						
Collins Rd	6/17/2019	0.4	7.2	10.6	47	
Meadows Rd	6/17/2019	0.36	7.1	13	50	
Farm Rd	6/17/2019	0.29	7.1	13.1	53	
Urdal Rd	6/17/2019	0.2	7.2	11.2	53	
Distrib total		0.31	7.1	12.3	50	
Industrial Park	6/17/2019	0.11	7.3	12.9	26	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	6/25/2019	0.27	7.2	12	50	
Health Centre	6/25/2019	0.27	7.2	13.2	52	
Village Office	6/25/2019	0.27	7.2	12.4	46	

Plateau/Ridge	6/25/2019	0.33	7.2	11.5	53	
Oak St	6/25/2019	0.33	7.1	11.5	43	
Pemberton North						
Collins Rd	6/25/2019	0.31	7.2	11	54	
Meadows Rd	6/25/2019	0.3	7.2	12.2	47	
Farm Rd	6/25/2019	0.3	7.1	11.3	52	
Urdal Rd	6/25/2019	0.31	7.1	11.9	49	
Distrib total		0.30	7.1	11.9	50	
Industrial Park	6/25/2019	0.05	7.3	13.4	23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	7/2/2019	0.3	7.3	10.4	52	
Health Centre	7/2/2019	0.27	7.3	10.2	44	
Village Office	7/2/2019	0.3	7.3	11	46	
Plateau/Ridge	7/2/2019	0.27	7.3	9.3	42	
Oak St	7/2/2019	0.35	7.3	10.2	52	
Pemberton North						
Collins Rd	7/2/2019	0.35	7.3	10	49	
Meadows Rd	7/2/2019	0.32	7.3	10.1	48	
Farm Rd	7/2/2019	0.14	7.3	9.9	47	
Urdal Rd	7/2/2019	0.18	7.3	9.1	43	
Distrib total		0.28	7.3	10.0	47	
Industrial Park	7/2/2019	0.12	7.3	9.5	18	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	7/8/2019	0.2	7.1	16	44	
Health Centre	7/8/2019	0.3	7.1	15.1	48	
Village Office	7/8/2019	0.33	7.1	13.8	44	
Plateau/Ridge	7/8/2019	0.22	7.1	14.6	47	
Oak St	7/8/2019	0.35	7.0	14.3	46	
Pemberton North						
Collins Rd	7/8/2019	0.38	7.1	15.3	42	
Meadows Rd	7/8/2019	0.34	7.1	13.7	41	
Farm Rd	7/8/2019	0.33	7.1	13.9	44	
Urdal Rd	7/8/2019	0.32	7.1	15	42	
Distrib total		0.31	7.1	14.6	44	
Industrial Park	7/8/2019	0.17	7.2	15.1	23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	7/15/2019	0.2	7.1	9.6	50	
Health Centre	7/15/2019	0.35	7.1	9.6	40	
Village Office	7/15/2019	0.42	7.2	9.2	52	
Plateau/Ridge	7/15/2019	0.29	7.1	9.1	47	
Oak St	7/15/2019	0.36	7.1	9.4	55	
Pemberton North						
Collins Rd	7/15/2019	0.4	7.1	8.4	63	
Meadows Rd	7/15/2019	0.44	7.1	7	50	

Farm Rd	7/15/2019	0.37	7.1	8.8	55	
Urdal Rd	7/15/2019	0.37	7.2	8.4	55	
Distrib total		0.36	7.1	8.8	52	
Industrial Park	7/15/2019	0	7.2	9.9	23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	7/23/2019	0.12	7.1	10.4	56	
Health Centre	7/23/2019	0.27	7.1	13.4	52	
Village Office	7/23/2019	0.12	7.0	13.6	52	
Plateau/Ridge	7/23/2019	0.26	7.0	15.8	54	
Oak St	7/23/2019	0.34	7.0	10.5	54	
Pemberton North						
Collins Rd	7/23/2019	0.37	7.0	9.1	57	
Meadows Rd	7/23/2019	0.31	7.0	11	47	
Farm Rd	7/23/2019	0.35	7.1	12.6	55	
Urdal Rd	7/23/2019	0.34	7.1	10.5	51	
Distrib total		0.28	7.0	11.9	53	
Industrial Park	7/23/2019	0.16	7.2	10.1	23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	7/29/2019	0.21	7.1	10.7	65	
Health Centre	7/29/2019	0.31	7.1	9.8	58	
Village Office	7/29/2019	0.27	7.1	10.1	54	
Plateau/Ridge	7/29/2019	0.28	7.0	9.7	49	
Oak St	7/29/2019	0.29	7.1	9.8	59	
Pemberton North						
Collins Rd	7/29/2019	0.32	7.1	10.5	52	
Meadows Rd	7/29/2019	0.26	7.1	10.1	55	
Farm Rd	7/29/2019	0.32	7.1	9.7	61	
Urdal Rd	7/29/2019	0.27	7.1	10.1	58	
Distrib total		0.28	7.1	10.1	57	
Industrial Park	7/29/2019	0.1	7.2	10	19	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	8/6/2019	0.19	7.2	20.2	55	
Health Centre	8/6/2019	0.25	7.4	7.4	66	
Village Office	8/6/2019	0.26	7.4	5.4	54	
Plateau/Ridge	8/6/2019	0.27	7.5	4.4	54	
Oak St	8/6/2019	0.35	7.4	5	57	
Pemberton North						
Collins Rd	8/6/2019	0.38	7.5	4.8	58	
Meadows Rd	8/6/2019	0.34	7.5	6.2	60	
Farm Rd	8/6/2019	0.38	7.4	5.1	55	
Urdal Rd	8/6/2019	0.35	7.4	6.2	61	
Distrib total		0.31	7.4	7.2	58	
Industrial Park	8/6/2019	0.08	7.5	5.8	19	

Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	8/12/2019	0.22	6.9	25.1	56	
Health Centre	8/12/2019	0.29	7.1	11.1	55	
Village Office	8/12/2019	0.27	7.1	10.1	52	
Plateau/Ridge	8/12/2019	0.25	7.1	11.5	58	
Oak St	8/12/2019	0.35	7.1	10.9	52	
Pemberton North						
Collins Rd	8/12/2019	0.34	7.1	10	54	
Meadows Rd	8/12/2019	0.33	7.1	9.6	55	
Farm Rd	8/12/2019	0.33	7.1	14.3	55	
Urdal Rd	8/12/2019	0.33	7.1	9.6	51	
Distrib total		0.30	7.1	12.5	54	
Industrial Park	8/12/2019	0.1	7.2	10.9	22	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	8/20/2019	0.23	7.0	18.7	64	
Health Centre	8/20/2019	0.09	7.0	13.7	49	
Village Office	8/20/2019	0.12	7.1	12.3	46	
Plateau/Ridge	8/20/2019	0.08	7.0	12.7	42	
Oak St	8/20/2019	0.17	7.0	13.1	43	
Pemberton North						
Collins Rd	8/20/2019	0.29	7.0	12.9	48	
Meadows Rd	8/20/2019	0.24	7.0	13.5	54	
Farm Rd	8/20/2019	0.18	7.0	13.9	48	
Urdal Rd	8/20/2019	0.11	7.0	12.4	50	
Distrib total		0.17	7.0	13.7	49	
Industrial Park	8/20/2019	0.19	7.1	13.3	18	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	8/26/2019	0.08	7.0	13.6	56	
Health Centre	8/26/2019	0.21	7.0	13.4	49	
Village Office	8/26/2019	0.24	7.0	12.3	44	
Plateau/Ridge	8/26/2019	0.13	7.0	13.6	44	
Oak St	8/26/2019	0.23	7.0	12.9	50	
Pemberton North						
Collins Rd	8/26/2019	0.25	7.0	11.8	43	
Meadows Rd	8/26/2019	0.22	7.0	11.5	49	
Farm Rd	8/26/2019	0.23	7.0	12.5	41	
Urdal Rd	8/26/2019	0.22	7.0	13.6	41	
Distrib total		0.20	7.0	12.8	46	
Industrial Park	8/26/2019	0	7.1	12.4	19	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	9/3/2019	0.07	7.0	12.1	63	
Health Centre	9/3/2019	0.13	7.0	13.8	61	
Village Office	9/3/2019	0.13	7.0	12.3	61	
Plateau/Ridge	9/3/2019	0.12	7.0	13.8	56	

Oak St	9/3/2019	0.23	7.0	13.5	59	
Pemberton North						
Collins Rd	9/3/2019	0.25	7.0	13.1	54	
Meadows Rd	9/3/2019	0.27	6.9	11.8	53	
Farm Rd	9/3/2019	0.23	7.0	12.7	58	
Urdal Rd	9/3/2019	0.22	6.9	13.5	54	
Distrib total		0.18	7.0	13.0	58	
Industrial Park	9/3/2019	0.02	7.1	12.1	20	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	9/9/2019	0.16	7.0	16.2	77	
Health Centre	9/9/2019	0.2	6.9	17.6	50	
Village Office	9/9/2019	0.2	7.0	16	55	
Plateau/Ridge	9/9/2019	0.14	6.9	15.6	55	
Oak St	9/9/2019	0.27	7.0	14.6	46	
Pemberton North						
Collins Rd	9/9/2019	0.29	6.9	14.6	53	
Meadows Rd	9/9/2019	0.2	6.9	14.8	54	
Farm Rd	9/9/2019	0.22	6.9	15.1	51	
Urdal Rd	9/9/2019	0.26	7.0	15.7	50	
Distrib total		0.22	6.9	15.6	55	
Industrial Park	9/9/2019	0	7.1	15.8	22	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	9/16/2019	0.2	7.1	12	60	
Health Centre	9/16/2019	0.27	7.1	11.4	57	
Village Office	9/16/2019	0.26	7.2	10.2	60	
Plateau/Ridge	9/16/2019	0.2	7.1	10.9	49	
Oak St	9/16/2019	0.25	7.2	10.8	59	
Pemberton North						
Collins Rd	9/16/2019	0.27	7.1	10.6	64	
Meadows Rd	9/16/2019	0.27	7.1	9.3	61	
Farm Rd	9/16/2019	0.25	7.1	9.1	61	
Urdal Rd	9/16/2019	0.28	7.2	10.5	69	
Distrib total		0.25	7.1	10.5	60	
Industrial Park	9/9/2019	0.13	7.1	15.8	23	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	9/23/2019	0.12	6.9	14.5	59	
Health Centre	9/23/2019	0.36	7.0	14.4	56	
Village Office	9/23/2019	0.3	7.0	13.2	60	
Plateau/Ridge	9/23/2019	0.25	7.0	13.8	49	
Oak St	9/23/2019	0.35	7.0	13.2	48	
Pemberton North						
Collins Rd	9/23/2019	0.36	7.0	13.8	52	
Meadows Rd	9/23/2019	0.3	7.0	13.6	53	
Farm Rd	9/23/2019	0.28	6.9	14.3	41	

Urdal Rd	9/23/2019	0.34	7.0	14	54	
Distrib total		0.30	7.0	13.9	52	
Industrial Park	9/23/2019	0.22	7.0	12.7	24	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	9/30/2019	0.15	6.9	7.7	59	
Health Centre	9/30/2019	0.34	7.0	11.2	56	
Village Office	9/30/2019	0.35	7.0	9.8	60	
Plateau/Ridge	9/30/2019	0.3	7.0	7.9	49	
Oak St	9/30/2019	0.33	6.9	10	48	
Pemberton North						
Collins Rd	9/30/2019	0.37	7.0	7.7	52	
Meadows Rd	9/30/2019	0.32	7.0	11.5	53	
Farm Rd	9/30/2019	0.35	7.0	6.4	41	
Urdal Rd	9/30/2019	0.36	7.0	8.2	54	
Distrib total		0.32	7.0	8.9	52	
Industrial Park	9/30/2019	0.12	7.1	7.8	24	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	10/7/2019	0.1	6.9	12.5	57	
Health Centre	10/7/2019	0.38	6.9	11	67	
Village Office	10/7/2019	0.28	6.9	11.3	63	
Plateau/Ridge	10/7/2019	0.24	7.0	8.4	62	
Oak St	10/7/2019	0.37	6.9	10	61	
Pemberton North						
Collins Rd	10/7/2019	0.33	6.9	8.7	65	
Meadows Rd	10/7/2019	0.26	6.9	9.5	51	
Farm Rd	10/7/2019	0.26	7.0	10.5	66	
Urdal Rd	10/7/2019	0.23	6.9	12	59	
Distrib total		0.27	6.9	10.4	61	
Industrial Park	10/7/2019	0.07	7.1	11.5	27	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	10/16/2019	0.25	6.9	11	47	
Health Centre	10/16/2019	0.34	6.8	11.5	57	
Village Office	10/16/2019	0.32	6.8	10.2	64	
Plateau/Ridge	10/16/2019	0.2	6.8	11.2	61	
Oak St	10/16/2019	0.27	6.9	10.9	58	
Pemberton North						
Collins Rd	10/16/2019	0.38	6.8	11.2	63	
Meadows Rd	10/16/2019	0.33	6.8	11.7	54	
Farm Rd	10/16/2019	0.26	6.8	11.2	50	
Urdal Rd	10/16/2019	0.3	6.8	11	54	
Distrib total		0.29	6.8	11.1	56	
Industrial Park	10/16/2019	0	7.0	10.8	25	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes

WWTP	10/21/2019	0.19	6.9	11	74	
Health Centre	10/21/2019	0.33	6.9	10.5	63	
Village Office	10/21/2019	0.27	6.9	10.6	64	
Plateau/Ridge	10/21/2019	0.18	6.8	10.1	61	
Oak St	10/21/2019	0.34	6.8	10.7	64	
Pemberton North						
Collins Rd	10/21/2019	0.34	6.9	9.5	75	
Meadows Rd	10/21/2019	0.32	6.9	10.5	70	
Farm Rd	10/21/2019	0.26	6.9	9.4	68	
Urdal Rd	10/21/2019	0.27	6.9	9.5	66	
Distrib total		0.28	6.9	10.2	67	
Industrial Park	10/21/2019	0.31	7.0	9	26	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	10/29/2019	0.2	6.8	11.6	66	
Health Centre	10/29/2019	0.35	6.7	11.2	64	
Village Office	10/29/2019	0.34	6.8	10.4	66	
Plateau/Ridge	10/29/2019	0.21	6.7	10.8	68	
Oak St	10/29/2019	0.4	6.7	10.3	67	
Pemberton North						
Collins Rd	10/29/2019					frozen
Meadows Rd	10/29/2019					frozen
Farm Rd	10/29/2019					frozen
Urdal Rd	10/29/2019					frozen
Distrib total		0.30	6.7	10.9	66	
Industrial Park	10/29/2019	0.05	6.9	10	24	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	11/4/2019	0.1	7.0	9.3	67	
Health Centre	11/4/2019	0.3	7.0	7.8	66	
Village Office	11/4/2019	0.29	6.9	9.1	67	
Plateau/Ridge	11/4/2019	0.24	7.1	7.9	69	
Oak St	11/4/2019	0.3	7.1	5.5	76	
Pemberton North						
Collins Rd	11/4/2019	0.33	7.0	8.1	77	
Meadows Rd	11/4/2019	0.27	7.1	9	70	
Farm Rd	11/4/2019	0.26	7.0	12.7	58	
Urdal Rd	11/4/2019	0.32	7.1	5.8	63	
Distrib total		0.27	7.0	8.4	68	
Industrial Park	11/4/2019	0.08	7.1	8.5	24	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	11/12/2019	0.12	6.9	10.8	63	
Health Centre	11/12/2019	0.28	7.0	10.8	72	
Village Office	11/12/2019	0.28	6.9	10.6	60	
Plateau/Ridge	11/12/2019	0.2	6.9	9.4	65	
Oak St	11/12/2019	0.33	6.8	9.9	65	

Pemberton North						
Collins Rd	11/12/2019	0.17	6.9	9	62	meter valve closed
Meadows Rd	11/12/2019	0.29	6.9	10.6	69	
Farm Rd	11/12/2019	0.28	6.9	9.6	72	
Urdal Rd	11/12/2019	0.28	6.8	10.9	70	
Distrib total		0.25	6.9	10.2	66	
Industrial Park	11/12/2019	0	6.97	10.3	24	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	11/18/2019	0.08	6.9	6.8	67	
Health Centre	11/18/2019	0.27	6.8	9.3	72	
Village Office	11/18/2019	0.27	6.9	9.6	64	
Plateau/Ridge	11/18/2019	0.2	6.8	7.4	62	
Oak St	11/18/2019	0.29	6.8	8.1	66	
Pemberton North						
Collins Rd	11/18/2019	0.31	6.8	8.8	68	
Meadows Rd	11/18/2019	0.25	6.9	8.8	66	
Farm Rd	11/18/2019	0.25	6.9	7.9	65	
Urdal Rd	11/18/2019	0.27	6.8	9.5	66	
Distrib total		0.24	6.8	8.5	66	
Industrial Park	11/18/2019		7.0	8	22	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	11/25/2019	0.02	6.9	10.5	52	
Health Centre	11/25/2019	0.2	6.9	10.9	54	
Village Office	11/25/2019	0.15	7.0	10.8	49	
Plateau/Ridge	11/25/2019	0.16	6.9	10.1	58	
Oak St	11/25/2019	0.22	6.9	10.7	63	
Pemberton North						
Collins Rd	11/25/2019	0.26	6.9	10.2	63	
Meadows Rd	11/25/2019	0.25	6.9	10.6	56	
Farm Rd	11/25/2019	0.19	6.8	11.3	56	
Urdal Rd	11/25/2019	0.22	7.0	10.9	58	
Distrib total		0.19	6.9	10.7	57	
Industrial Park	11/25/2019	0.17	7.1	11	22	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	12/3/2019	0.19	6.7	8.5	58	
Health Centre	12/3/2019	0.24	6.7	8.9	56	
Village Office	12/3/2019	0.18	6.7	7.7	58	
Plateau/Ridge	12/3/2019	0.06	6.6	6.6	64	
Oak St	12/3/2019	0.26	6.7	6.5	49	
Pemberton North						
Collins Rd	12/3/2019					Frozen
Meadows Rd	12/3/2019					Frozen
Farm Rd	12/3/2019					Frozen
Urdal Rd	12/3/2019					Frozen

Distrib total		0.19	6.7	7.6		
Industrial Park	12/3/2019	0.02	6.8	7	22	
Location	Date	Cl2	PH	Temp C	Alkalinity	Notes
WWTP	12/10/2019	0.12	6.9	8.5	56	
Health Centre	12/10/2019	0.27	7.0	8.4	56	
Village Office	12/10/2019	0.28	6.9	9.8	54	
Plateau/Ridge	12/10/2019	0.13	6.9	11	47	
Oak St	12/10/2019	0.31	6.8	7.2	64	
Pemberton North						
Collins Rd	12/10/2019					Frozen
Meadows Rd	12/10/2019					Frozen
Farm Rd	12/10/2019					Frozen
Urdal Rd	12/10/2019					Frozen
Distrib total		0.22	6.9	9.0	55	
Industrial Park	12/10/2019	0.17	6.8	7	22	

Sample Range Report

Vancouver Coastal Health

Facility Name: Village of Pemberton
Date Range: Jan 1 2019 to Jan 1 2020
Operator Jeff Westlake
 P.O. Box 100
 Pemberton, BC V0N 2L0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>1403 Portage Road -</u>				
<u>audit site - PHN</u>				
<u>office tap,</u>				
<u>Pemberton Health</u>				
<u>Centre</u>				
	1/29/2019	L1	L1	
	3/25/2019	<u>L1</u>	<u>L1</u>	
	Total Positive :	0	0	
<u>Treatment</u>				
<u>Plant/Airport Rd.,</u>				
<u>Pemberton</u>				
	1/2/2019	L1	L1	
	1/7/2019	L1	L1	
	1/14/2019	L1	L1	
	1/21/2019	L1	L1	
	1/29/2019	L1	L1	
	2/4/2019	L1	L1	
	2/11/2019	L1	L1	
	2/19/2019	L1	L1	
	2/25/2019	L1	L1	
	3/4/2019	L1	L1	
	3/11/2019	L1	L1	
	3/18/2019	L1	L1	
	3/25/2019	L1	L1	
	4/1/2019	L1	L1	
	4/8/2019	L1	L1	
	4/15/2019	L1	L1	
	4/24/2019	L1	L1	
	4/29/2019	L1	L1	
	5/6/2019	L1	L1	
	5/13/2019	L1	L1	
	5/21/2019	L1	L1	
	5/28/2019	L1	L1	
	6/3/2019	L1	L1	
	6/11/2019	L1	L1	
	6/17/2019	L1	L1	
	6/24/2019	L1	L1	
	7/2/2019	L1	L1	
	7/9/2019	L1	L1	

7/15/2019	L1	L1
7/23/2019	L1	L1
7/29/2019	L1	L1
8/6/2019	L1	L1
8/12/2019	L1	L1
8/20/2019	L1	L1
8/26/2019	L1	L1
9/3/2019	L1	L1
9/9/2019	L1	L1
9/16/2019	L1	L1
9/23/2019	L1	L1
9/30/2019	L1	L1
10/7/2019	L1	L1
10/15/2019	L1	L1
10/21/2019	L1	L1
10/29/2019	L1	L1
11/12/2019	L1	L1
11/18/2019	L1	L1
11/25/2019	L1	L1
12/3/2019	L1	L1
12/10/2019	L1	L1
12/18/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Reservoir North,
Pemberton

5/6/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Oak Street At High
School, Pemberton

1/2/2019	L1	L1
1/7/2019	L1	L1
1/14/2019	L1	L1
1/21/2019	L1	L1
1/29/2019	L1	L1
2/4/2019	L1	L1
2/11/2019	L1	L1
2/19/2019	L1	L1
2/25/2019	L1	L1
3/4/2019	L1	L1
3/11/2019	L1	L1
3/18/2019	L1	L1
3/25/2019	L1	L1
4/1/2019	L1	L1
4/8/2019	L1	L1
4/15/2019	L1	L1
4/24/2019	L1	L1
4/29/2019	L1	L1
5/7/2019	L1	L1
5/13/2019	L1	L1
5/21/2019	L1	L1
5/28/2019	L1	L1

6/3/2019	L1	L1
6/11/2019	L1	L1
6/17/2019	L1	L1
6/24/2019	L1	L1
7/2/2019	L1	L1
7/9/2019	L1	L1
7/15/2019	L1	L1
7/24/2019	L1	L1
7/29/2019	L1	L1
8/6/2019	L1	L1
8/12/2019	L1	L1
8/20/2019	L1	L1
8/26/2019	L1	L1
9/3/2019	L1	L1
9/9/2019	L1	L1
9/16/2019	L1	L1
9/23/2019	L1	L1
9/30/2019	L1	L1
10/7/2019	L1	L1
10/16/2019	L1	L1
10/21/2019	L1	L1
10/29/2019	L1	L1
11/4/2019	L1	L1
11/12/2019	L1	L1
11/18/2019	L1	L1
11/25/2019	L1	L1
12/3/2019	L1	L1
12/10/2019	L1	L1
12/18/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Pemberton Plateau,
Pemberton

1/2/2019	L1	L1
1/7/2019	L1	L1
1/14/2019	L1	L1
1/21/2019	L1	L1
1/29/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Ad hoc /
miscellaneous site,
Pemberton

6/10/2019	L1	L1
11/4/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Pemberton Health
Center, 1403
Portage Road,
Pemberton, B.C.

1/2/2019	L1	L1
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1/7/2019	L1	L1
1/14/2019	L1	L1
1/21/2019	L1	L1
2/4/2019	L1	L1
2/11/2019	L1	L1
2/19/2019	L1	L1
2/25/2019	L1	L1
3/4/2019	L1	L1
3/11/2019	L1	L1
3/18/2019	L1	L1
4/1/2019	L1	L1
4/8/2019	L1	L1
4/15/2019	L1	L1
4/24/2019	L1	L1
4/29/2019	L1	L1
5/7/2019	L1	L1
5/13/2019	L1	L1
5/21/2019	L1	L1
5/28/2019	L1	L1
6/3/2019	L1	L1
6/11/2019	L1	L1
6/17/2019	L1	L1
6/24/2019	L1	L1
7/2/2019	L1	L1
7/9/2019	L1	L1
7/15/2019	L1	L1
7/23/2019	L1	L1
7/29/2019	L1	L1
8/6/2019	L1	L1
8/12/2019	L1	L1
8/20/2019	L1	L1
8/26/2019	L1	L1
9/3/2019	L1	L1
9/9/2019	L1	L1
9/16/2019	L1	L1
9/23/2019	L1	L1
9/30/2019	L1	L1
10/7/2019	L1	L1
10/15/2019	L1	L1
10/21/2019	L1	L1
10/29/2019	L1	L1
11/4/2019	L1	L1
11/12/2019	L1	L1
11/18/2019	L1	L1
11/25/2019	L1	L1
12/3/2019	L1	L1
12/10/2019	L1	L1
12/18/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Village Office, 7410
Prospect

1/2/2019	L1	L1
1/7/2019	L1	L1

1/14/2019	L1	L1
1/21/2019	L1	L1
1/29/2019	L1	L1
2/4/2019	L1	L1
2/11/2019	L1	L1
2/19/2019	L1	L1
2/25/2019	L1	L1
3/4/2019	L1	L1
3/11/2019	L1	L1
3/18/2019	L1	L1
3/25/2019	L1	L1
4/1/2019	L1	L1
4/8/2019	L1	L1
4/15/2019	L1	L1
4/24/2019	L1	L1
4/29/2019	L1	L1
5/6/2019	L1	L1
5/13/2019	L1	L1
5/21/2019	L1	L1
5/28/2019	L1	L1
6/3/2019	L1	L1
6/11/2019	L1	L1
6/17/2019	L1	L1
6/24/2019	L1	L1
7/2/2019	L1	L1
7/9/2019	L1	L1
7/15/2019	L1	L1
7/23/2019	L1	L1
7/29/2019	L1	L1
8/6/2019	L1	L1
8/12/2019	L1	L1
8/20/2019	L1	L1
8/26/2019	L1	L1
9/3/2019	L1	L1
9/9/2019	L1	L1
9/16/2019	L1	L1
9/23/2019	L1	L1
9/30/2019	L1	L1
10/7/2019	L1	L1
10/15/2019	L1	L1
10/21/2019	L1	L1
10/29/2019	L1	L1
11/4/2019	L1	L1
11/12/2019	L1	L1
11/18/2019	L1	L1
11/25/2019	L1	L1
12/3/2019	L1	L1
12/10/2019	L1	L1
12/18/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Pemberton Ridge
Pumphouse,
Pemberton

2/4/2019	L1	L1
2/11/2019	L1	L1
2/19/2019	L1	L1
2/25/2019	L1	L1
3/4/2019	L1	L1
3/11/2019	L1	L1
3/18/2019	L1	L1
3/25/2019	L1	L1
4/1/2019	L1	L1
4/15/2019	L1	L1
4/24/2019	L1	L1
4/29/2019	L1	L1
5/7/2019	L1	L1
5/13/2019	L1	L1
5/21/2019	L1	L1
5/28/2019	L1	L1
6/3/2019	L1	L1
6/11/2019	L1	L1
6/17/2019	L1	L1
6/24/2019	L1	L1
7/2/2019	L1	L1
7/9/2019	L1	L1
7/15/2019	L1	L1
7/23/2019	L1	L1
7/29/2019	L1	L1
8/6/2019	L1	L1
8/12/2019	L1	L1
8/20/2019	L1	L1
8/26/2019	L1	L1
9/3/2019	L1	L1
9/9/2019	L1	L1
9/16/2019	L1	L1
9/23/2019	L1	L1
9/30/2019	L1	L1
10/7/2019	L1	L1
10/15/2019	L1	L1
10/21/2019	L1	L1
10/29/2019	L1	L1
11/4/2019	L1	L1
11/12/2019	L1	L1
11/18/2019	L1	L1
11/25/2019	L1	L1
12/3/2019	L1	L1
12/10/2019	L1	L1
12/18/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Result Values:

E - estimated

L - less than

G - greater than

Samples that contain total coliform:	0	0.00% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total	0/10	

coliform in last 30 days:		
Total number of samples:	256	

Comments:

Environmental Health Officer
Jan 6 2020

FOR FURTHER INFORMATION PLEASE CALL: Dan Glover (604) 892-2293

Sample Range Report

Vancouver Coastal Health

Facility Name: Pemberton Industrial Park Water System

Date Range: Jan 1 2019 to Jan 1 2020

Operator Jeff Westlake
 Attn: Jeff Westlake Box 100
 Pemberton, BC V0N 2L0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>Yard Hydrant,</u>				
<u>Pemberton Industrial</u>				
<u>Park</u>				
	3/4/2019	L1	L1	
	3/11/2019	L1	L1	
	3/18/2019	L1	L1	
	3/25/2019	L1	L1	
	4/1/2019	L1	L1	
	4/8/2019	L1	L1	
	4/15/2019	L1	L1	
	4/24/2019	L1	L1	
	4/29/2019	L1	L1	
	5/7/2019	L1	L1	
	5/13/2019	L1	L1	
	5/21/2019	1	L1	
	6/3/2019	L1	L1	
	8/26/2019	L1	L1	
	9/3/2019	L1	L1	
	9/9/2019	L1	L1	
	9/16/2019	L1	L1	
	9/23/2019	L1	L1	
	9/30/2019	L1	L1	
	10/7/2019	L1	L1	
	10/15/2019	L1	L1	
	10/21/2019	L1	L1	
	10/29/2019	L1	L1	
	11/4/2019	L1	L1	
	11/12/2019	L1	L1	
	11/18/2019	L1	L1	
	11/25/2019	L1	L1	
	12/3/2019	L1	L1	
	12/10/2019	L1	L1	
	12/18/2019	<u>L1</u>	<u>L1</u>	
	Total Positive :	1	0	

Sample Station at
Meter Chamber,
Pemberton Industrial
Park

	1/2/2019	L1	L1
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1/7/2019	L1	L1
1/14/2019	L1	L1
1/21/2019	L1	L1
1/29/2019	L1	L1
2/4/2019	L1	L1
2/11/2019	L1	L1
2/19/2019	L1	L1
2/25/2019	L1	L1
5/28/2019	L1	L1
6/11/2019	L1	L1
6/17/2019	L1	L1
6/24/2019	L1	L1
7/2/2019	L1	L1
7/9/2019	L1	L1
7/15/2019	L1	L1
7/23/2019	L1	L1
7/29/2019	L1	L1
8/6/2019	L1	L1
8/12/2019	L1	L1
8/20/2019	<u>L1</u>	<u>L1</u>
Total Positive :	0	0

Result Values: **E - estimated** **L - less than** **G - greater than**

Samples that contain total coliform:	1	1.96% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total coliform in last 30 days:	0/2	
Total number of samples:	51	

Comments:

Environmental Health Officer
Jan 6 2020

FOR FURTHER INFORMATION PLEASE CALL: Dan Glover (604) 892-2293