Drinking Water System 2016 Annual Report



Public Works Department Village of Pemberton Prepared by: Tim Harris, Manager of Operations

Village of Pemberton Drinking Water System

2016 Annual Report

INTRODUCTION

This report has been prepared for the consumers of the Drinking Water System of the Village of Pemberton to provide basic information on water quality and compliance with health standards.

Feedback and comments are always appreciated and should be directed to Village staff or Vancouver Coastal Health Authority (Squamish) officials.

1. CONSUMPTION (CUBIC METERS/DAY):

Daily flow numbers are recorded at the Well house, which is located in Pioneer Park. The Village undertook significant upgrades to the SCADA (Supervisory, Control and Data Acquisition) system that monitors the water infrastructure. Due to the transition between operating systems some of the daily flow information has been estimated. The annual numbers are as follows:

| Average Flow/day: | 1,848 |
|-------------------|--------------------------|
| High Flow/day: | 3,696 (July 29, 2016) |
| Low Flow/day: | 1,017 (November 8, 2016) |

For daily results, please refer to Appendix I.

2. <u>CHLORINATION:</u>

Upon commissioning of Well No. 3 in March 2009, chlorination of the water system was instituted. The goal is to have a positive residual chlorine reading throughout the system, with the Fire Hall chlorine analyzer serving as the central measuring point, where a minimum residual of 0.20 mg/L is desired.

The residual reading is monitored continuously by a dedicated computer (SCADA), located in the main Well house. In 2016, the Village carried out upgrades to the SCADA system as well as to the chlorination skid which delivers the Sodium Hypochlorite solution. Daily readings of the previous twenty-four (24) hours average residual are recorded. The annual numbers are as follows:

| | Residual (mg/L) |
|----------|-----------------|
| Average: | 0.31 |
| High: | 0.42 |
| Low: | 0.14 |

As a means to ensure that target chlorine residuals are achieved within the distribution system, the Village also carries out sampling at nine (9) sites spread throughout the distribution system each week.

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

3. <u>CHEMISTRY TEST RESULTS:</u>

The annual total metals sampling, was performed on March 22, 2016, from sampling stations located at active Wells No. 2 and No. 3, Oak St and the Industrial Park. The test results show that all of the items tested are within Maximum Acceptable Concentrations (MAC) established in the Health Canada guidelines. The exception is Well No. 2 which exceeds the Aesthetic Objectives for Manganese.

Aesthetic quality guidelines address parameters such as taste, odour and colour and are not considered a health concern. For results, please refer to Appendix II and IV.

4. PH TEST RESULTS:

pH testing was carried out on a weekly basis, in conjunction with the chlorine residual testing. Samples from six (6) to eight (8) water sampling stations in the distribution system are recorded and tabulated.

For results, please refer to **Appendix III**.

5. TRIHALOMETHANE (THM) TEST RESULTS:

THM testing commenced in January 2010, at the Oak St. sample station and has now been expanded to include production Wells No. 2 and No. 3 as well as the Industrial Park sample station. All readings were well below the Health Canada guidelines.

For results and corresponding guidelines, please refer to **Appendix IV**.

6. BACTERIOLOGICAL TEST RESULTS:

Water samples are collected weekly at the following locations:

Source:

- Well No. 2
- Well No. 3

Distribution:

Village of Pemberton

- Oak St
- Village Office
- Health Centre
- Treatment Plant
- Pemberton Plateau
- Industrial Park (Mount Currie water source)

Pemberton North Improvement District

- Collins Rd
- Pemberton Meadows Rd.
- Pemberton Farm Rd (West)
- Urdal Rd.

These samples are submitted for analysis to the laboratory at Vancouver Coastal Health Authority. All results were negative.

The individual results are on file at Vancouver Coastal Health Authority (Squamish) and the Village Office, where they can be reviewed. They can also be viewed at: <u>www.healthspace.ca/Clients/VCHA/CoastGaribaldi/CoastGaribaldi Website.nsf</u>

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

7. <u>"FLUSH" MESSAGE FROM VANCOUVER COASTAL HEALTH AUTHORITY</u>

In 2015 Vancouver Coastal Health Authority revised its metals at the tap "Flush" message. The following message shall be included in the Annual Report:

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.

APPENDIX I- Daily Flows

Flow (MG/day)

24 hr Avg Residual (mg/L)

| Number of Samples | 364 | 364 |
|--------------------------------------|----------------------|--------------|
| Minimum | 1017.000 | 0.14 |
| Maximum | 3696.000 | 0.42 |
| Average | 1850.893 | 0.31 |
| January 1, 2016 | 1377.000 | 0.30 |
| January 2, 2016 | 1377.000 | 0.30 |
| January 3, 2016 | 1377.000 | 0.30 |
| January 4, 2016 | 1377.000 | 0.30 |
| January 5, 2016 | 1377.000 | 0.30 |
| January 6, 2016 | 1377.000 | 0.30 |
| January 7, 2016 | 1377.000 | 0.30 |
| January 8, 2016 | 1377.000 | 0.30 |
| January 9, 2016 | 1377.000 | 0.30 |
| January 10, 2016 | 1377.000 | 0.30 |
| January 11, 2016 | 1377.000 | 0.30 |
| January 12, 2016 January 13, 2016 | 1377.000 1377.000 | 0.30 0.30 |
| January 13, 2016 January 14, 2016 | 1377.000 | 0.30 |
| January 15, 2016 | 1377.000 | 0.30 |
| January 16, 2016 | 1377.000 | 0.30 |
| January 17, 2016 | 1377.000 | 0.30 |
| January 18, 2016 | 1377.000 | 0.30 |
| January 19, 2016 | 1377.000 | 0.30 |
| January 20, 2016 | 1377.000 | 0.30 |
| January 21, 2016 | 1377.000 | 0.30 |
| January 22, 2016 | 1377.000 | 0.30 |
| January 23, 2016 | 1377.000 | 0.30 |
| January 24, 2016 | 1377.000 | 0.30 |
| January 25, 2016 | 1377.000 | 0.30 |
| January 26, 2016 | 1377.000 | 0.30 |
| January 27, 2016 | 1377.000 | 0.30 |
| January 28, 2016 | 1377.000 | 0.30 |
| January 29, 2016 | 1377.000 | 0.30 |
| January 30, 2016 January 31, 2016 | 1377.000 1377.000 | 0.30 0.30 |
| February 1, 2016 | 1377.000 | 0.30 |
| February 2, 2016 | 1377.000 | 0.30 |
| February 3, 2016 | 1377.000 | 0.30 |
| February 4, 2016 | 1377.000 | 0.30 |
| February 5, 2016 | 1377.000 | 0.30 |
| February 6, 2016 | 1377.000 | 0.30 |
| February 7, 2016 | 1377.000 | 0.30 |
| February 8, 2016 | 1377.000 | 0.30 |
| February 9, 2016 | 1377.000 | 0.30 |
| February 10, 2016 | 1377.000 | 0.30 |
| February 11, 2016 | 1377.000 | 0.30 |

| February 12, 2016 | 1377.000 | 0.30 |
|--|----------------------|--------------|
| February 13, 2016 | 1377.000 1377.000 | 0.30 0.30 |
| February 14, 2016 February 15, 2016 | 1377.000 | 0.30 |
| • | 1377.000 | 0.30 |
| February 16, 2016 February 17, 2016 | 1377.000 | 0.30 |
| February 18, 2016 | 1377.000 | 0.30 |
| February 19, 2016 | 1377.000 | 0.30 |
| February 20, 2016 | 1377.000 | 0.30 |
| February 21, 2016 | 1377.000 | 0.30 |
| February 22, 2016 | 1377.000 | 0.30 |
| February 23, 2016 | 1377.000 | 0.30 |
| February 24, 2016 | 1377.000 | 0.30 |
| February 25, 2016 | 1377.000 | 0.30 |
| February 26, 2016 | 1377.000 | 0.30 |
| February 27, 2016 | 1377.000 | 0.30 |
| February 28, 2016 | 1377.000 | 0.30 |
| February 29, 2016 | 1377.000 | 0.30 |
| March 1, 2016 | 1377.000 | 0.30 |
| March 2, 2016 | 1377.000 | 0.30 |
| March 3, 2016 | 1377.000 | 0.30 |
| March 4, 2016 | 1377.000 | 0.30 |
| March 5, 2016 | 1377.000 | 0.30 |
| March 6, 2016 | 1377.000 | 0.30 |
| March 7, 2016 | 1377.000 | 0.30 |
| March 8, 2016 | 1377.000 | 0.30 |
| March 9, 2016 | 1377.000 | 0.30 |
| March 10, 2016 | 1377.000 | 0.30 |
| March 11, 2016 | 1377.000 | 0.30 |
| March 12, 2016 | 1108.000 | 0.29 |
| March 13, 2016 | 1472.000 | 0.30 |
| March 14, 2016 | 1103.000 | 0.30 |
| March 15, 2016 | 1103.000 | 0.30 |
| March 16, 2016 | 1103.000 | 0.31 |
| March 17, 2016 | 1103.000 | 0.30 |
| March 18, 2016 | 1103.000 | 0.31 |
| March 19, 2016 | 1103.000 | 0.30 |
| March 20, 2016 | 1103.000 | 0.30 |
| March 21, 2016 | 1103.000 | 0.31 |
| March 22, 2016 | 1216.000 | 0.31 |
| March 23, 2016 | 1255.000 | 0.31 |
| March 24, 2016 March 25, 2016 | 1481.000 1481.000 | 0.30 0.30 |
| March 26, 2016 | 1481.000 | 0.30 |
| March 27, 2016 | 1481.000 | 0.30 |
| March 28, 2016 | 1481.000 | 0.31 |
| March 29, 2016 | 1515.000 | 0.31 |
| March 30, 2016 | 1647.000 | 0.31 |
| March 31, 2016 | 1531.000 | 0.34 |
| April 1, 2016 | 1400.000 | 0.34 |
| April 2, 2016 | 1400.000 | 0.33 |
| April 3, 2016 | 1400.000 | 0.34 |
| - | | |

| April 4, 2016 April 5, 2016 | 1456.000 1445.000 | 0.32 0.31 |
|----------------------------------|----------------------|--------------|
| April 6, 2016 | 1909.000 | 0.34 |
| April 7, 2016 | 1211.000 | 0.34 |
| April 8, 2016 | 1576.000 | 0.34 |
| April 9, 2016 | 1576.000 | 0.34 |
| April 10, 2016 | 1576.000 | 0.34 |
| April 11, 2016 April 12, 2016 | 1627.000 1414.000 | 0.34 0.33 |
| April 13, 2016 | 1159.000 | 0.33 |
| April 14, 2016 | 2116.000 | 0.31 |
| April 15, 2016 | 1460.000 | 0.31 |
| April 16, 2016 | 1460.000 | 0.31 |
| April 17, 2016 | 1460.000 | 0.31 |
| April 18, 2016 | 2662.000 | 0.36 |
| April 19, 2016 | 1661.000 | 0.34 |
| April 20, 2016 | 2101.000 | 0.34 |
| April 21, 2016 | 2101.000 | 0.35 |
| April 22, 2016 | 1742.000 | 0.34 |
| April 23, 2016 April 24, 2016 | 1742.000 1742.000 | 0.34 0.34 |
| April 24, 2010 April 25, 2016 | 2294.000 | 0.34 |
| April 26, 2016 | 2224.000 | 0.35 |
| April 27, 2016 | 2311.000 | 0.36 |
| April 28, 2016 | 1493.000 | 0.35 |
| April 29, 2016 | 2049.000 | 0.35 |
| April 30, 2016 | 2049.000 | 0.35 |
| May 1, 2016 | 2049.000 | 0.35 |
| May 2, 2016 | 2049.000 | 0.35 |
| May 3, 2016 | 2002.000 | 0.35 |
| May 4, 2016 | 2636.000 | 0.35 |
| May 5, 2016 May 6, 2016 | 2786.000 2400.000 | 0.36 0.36 |
| May 7, 2016 | 2400.000 | 0.36 |
| May 8, 2016 | 2400.000 | 0.35 |
| May 9, 2016 | 2456.000 | 0.34 |
| May 10, 2016 | 3025.000 | 0.34 |
| May 11, 2016 | 2133.000 | 0.34 |
| May 12, 2016 | 2190.000 | 0.39 |
| May 13, 2016 | 2853.000 | 0.38 |
| May 14, 2016 | 2853.000 | 0.38 |
| May 15, 2016 May 16, 2016 | 2853.000 2583.000 | 0.39 0.40 |
| May 17, 2016 | 3137.000 | 0.40 |
| May 18, 2016 | 2162.000 | 0.40 |
| May 19, 2016 | 2061.000 | 0.34 |
| May 20, 2016 | 2673.000 | 0.34 |
| May 21, 2016 | 2673.000 | 0.34 |
| May 22, 2016 | 2673.000 | 0.34 |
| May 23, 2016 | 2673.000 | 0.34 |
| May 24, 2016 | 2673.000 | 0.33 |
| May 25, 2016 | 2417.000 | 0.34 |

| May 26, 2016 | 2233.000 | 0.35 |
|---------------|----------|------|
| May 27, 2016 | 2324.000 | 0.35 |
| May 28, 2016 | 2324.000 | 0.35 |
| May 29, 2016 | 2324.000 | 0.38 |
| | | |
| May 30, 2016 | 2662.000 | 0.36 |
| May 31, 2016 | 2979.000 | 0.36 |
| June 1, 2016 | 1910.000 | 0.36 |
| June 2, 2016 | 2683.000 | 0.37 |
| June 3, 2016 | 2400.000 | 0.36 |
| June 4, 2016 | 2400.000 | 0.35 |
| June 5, 2016 | 2400.000 | 0.35 |
| , | | |
| June 6, 2016 | 2264.000 | 0.34 |
| June 7, 2016 | 3240.000 | 0.35 |
| June 8, 2016 | 2361.000 | 0.36 |
| June 9, 2016 | 2525.000 | 0.35 |
| June 10, 2016 | 2400.000 | 0.35 |
| June 11, 2016 | 2400.000 | 0.34 |
| June 12, 2016 | 2400.000 | 0.36 |
| , | | |
| June 13, 2016 | 1989.000 | 0.17 |
| June 14, 2016 | 2251.000 | 0.25 |
| June 15, 2016 | 2641.000 | 0.34 |
| June 16, 2016 | 2306.000 | 0.35 |
| June 17, 2016 | 2514.000 | 0.35 |
| June 18, 2016 | 2514.000 | 0.35 |
| June 19, 2016 | 2514.000 | 0.35 |
| June 20, 2016 | 2526.000 | 0.36 |
| June 21, 2016 | 2627.000 | 0.35 |
| | 2795.000 | 0.35 |
| June 22, 2016 | | |
| June 23, 2016 | 2497.000 | 0.36 |
| June 24, 2016 | 2894.000 | 0.35 |
| June 25, 2016 | 2894.000 | 0.35 |
| June 26, 2016 | 2894.000 | 0.32 |
| June 27, 2016 | 2081.000 | 0.32 |
| June 28, 2016 | 3350.000 | 0.36 |
| June 29, 2016 | 2984.000 | 0.23 |
| June 30, 2016 | 2900.000 | 0.30 |
| July 1, 2016 | 2900.000 | 0.30 |
| | 2900.000 | |
| July 2, 2016 | | 0.30 |
| July 3, 2016 | 2396.000 | 0.36 |
| July 4, 2016 | 2396.000 | 0.30 |
| July 5, 2016 | 2396.000 | 0.33 |
| July 6, 2016 | 2338.000 | 0.33 |
| July 7, 2016 | 2600.000 | 0.32 |
| July 8, 2016 | 2501.000 | 0.33 |
| July 9, 2016 | 2710.000 | 0.33 |
| July 10, 2016 | 2954.000 | 0.32 |
| July 11, 2016 | 2954.000 | 0.32 |
| | | |
| July 12, 2016 | 2900.000 | 0.32 |
| July 13, 2016 | 2439.000 | 0.32 |
| July 14, 2016 | 2319.000 | 0.32 |
| July 15, 2016 | 2400.000 | 0.32 |
| July 16, 2016 | 2400.000 | 0.32 |
| | | |

| July 17, 2016 July 18, 2016 | 2400.000 2400.000 | 0.32 0.31 |
|--------------------------------|----------------------|--------------|
| July 19, 2016 | 1524.000 | 0.28 |
| July 20, 2016 | 2414.000 | 0.28 |
| | 2414.000 2164.000 | 0.26 |
| July 21, 2016 | | |
| July 22, 2016 | 2705.000 | 0.30 |
| July 23, 2016 | 2705.000 | 0.29 |
| July 24, 2016 | 2705.000 | 0.29 |
| July 25, 2016 | 2881.000 | 0.28 |
| July 26, 2016 | 2747.000 | 0.30 |
| July 27, 2016 | 2751.000 | 0.30 |
| July 28, 2016 | 3696.000 | 0.30 |
| July 29, 2016 | 3142.000 | 0.30 |
| July 30, 2016 | 3142.000 | 0.30 |
| July 31, 2016 | 3142.000 | 0.30 |
| August 1, 2016 | 3142.000 | 0.31 |
| August 2, 2016 | 2160.000 | 0.28 |
| August 3, 2016 | 2533.000 | 0.25 |
| August 4, 2016 | 2428.000 | 0.26 |
| August 5, 2016 | 2400.000 | 0.26 |
| August 6, 2016 | 2400.000 | 0.26 |
| August 7, 2016 | 2400.000 | 0.28 |
| August 8, 2016 | 2422.000 | 0.27 |
| August 9, 2016 | 2248.000 | 0.27 |
| August 10, 2016 | 2549.000 | 0.29 |
| August 11, 2016 | 3035.000 | 0.29 |
| August 12, 2016 | 3087.000 | 0.29 |
| August 13, 2016 | 3087.000 | 0.29 |
| August 14, 2016 | 3087.000 | 0.25 |
| August 15, 2016 | 2633.000 | 0.25 |
| August 16, 2016 | 2990.000 | 0.28 |
| August 17, 2016 | 3159.000 | 0.28 |
| August 18, 2016 | 3159.000 | 0.26 |
| August 19, 2016 | 2872.000 | 0.26 |
| August 20, 2016 | 2872.000 | 0.26 |
| August 21, 2016 | 2872.000 | 0.25 |
| August 22, 2016 | 3412.000 | 0.25 |
| August 23, 2016 | 2449.000 | 0.25 |
| August 24, 2016 | 2575.000 | 0.29 |
| August 25, 2016 | 3624.000 | 0.14 |
| August 26, 2016 | 2736.000 | 0.20 |
| August 27, 2016 | 2736.000 | 0.20 |
| August 28, 2016 | 2736.000 | 0.29 |
| August 29, 2016 | 2736.000 | 0.27 |
| August 30, 2016 | 2595.000 | 0.27 |
| August 31, 2016 | 2469.000 | 0.25 |
| September 1, 2016 | 1789.000 | 0.25 |
| September 2, 2016 | 1797.000 | 0.25 |
| September 3, 2016 | 1797.000 | 0.25 |
| September 4, 2016 | 1797.000 | 0.25 |
| September 5, 2016 | 1797.000 | 0.25 |
| September 6, 2016 | 1797.000 | 0.31 |

| September 7, 2016 | 1801.000 | 0.29 |
|--------------------|----------|------|
| September 8, 2016 | 1993.000 | 0.29 |
| September 9, 2016 | 2099.000 | 0.29 |
| September 10, 2016 | 2099.000 | 0.29 |
| September 11, 2016 | 2099.000 | 0.31 |
| September 12, 2016 | 2003.000 | 0.32 |
| September 13, 2016 | 2401.000 | 0.32 |
| September 14, 2016 | 1963.000 | 0.31 |
| • | 1903.000 | |
| September 15, 2016 | | 0.31 |
| September 16, 2016 | 1965.000 | 0.31 |
| September 17, 2016 | 1965.000 | 0.31 |
| September 18, 2016 | 1965.000 | 0.32 |
| September 19, 2016 | 1723.000 | 0.33 |
| September 20, 2016 | 1420.000 | 0.33 |
| September 21, 2016 | 1499.000 | 0.29 |
| September 22, 2016 | 1742.000 | 0.25 |
| September 23, 2016 | 1687.000 | 0.25 |
| September 24, 2016 | 1687.000 | 0.25 |
| September 25, 2016 | 1687.000 | 0.20 |
| September 26, 2016 | 1566.000 | 0.22 |
| September 27, 2016 | 1433.000 | 0.22 |
| September 28, 2016 | 1433.000 | 0.20 |
| September 29, 2016 | 1564.000 | 0.21 |
| September 30, 2016 | 1500.000 | 0.21 |
| October 1, 2016 | 1500.000 | 0.21 |
| October 2, 2016 | 1500.000 | 0.23 |
| October 3, 2016 | 1819.000 | 0.22 |
| October 4, 2016 | 1190.000 | 0.22 |
| October 5, 2016 | 1342.000 | 0.22 |
| October 6, 2016 | 1342.000 | 0.30 |
| October 7, 2016 | 1451.000 | 0.30 |
| October 8, 2016 | 1451.000 | 0.30 |
| October 9, 2016 | 1451.000 | 0.30 |
| October 10, 2016 | 1451.000 | 0.30 |
| October 11, 2016 | 1451.000 | 0.30 |
| October 12, 2016 | 1451.000 | 0.42 |
| October 13, 2016 | 1700.000 | 0.30 |
| October 14, 2016 | 1328.000 | 0.30 |
| October 15, 2016 | 1328.000 | 0.30 |
| October 16, 2016 | 1328.000 | 0.24 |
| October 17, 2016 | 1317.000 | 0.25 |
| October 18, 2016 | 1624.000 | 0.27 |
| October 19, 2016 | 1086.000 | 0.29 |
| October 20, 2016 | 1196.000 | 0.28 |
| October 21, 2016 | 1504.000 | 0.28 |
| October 22, 2016 | 1504.000 | 0.28 |
| October 23, 2016 | 1504.000 | 0.33 |
| October 24, 2016 | 1161.000 | 0.34 |
| October 25, 2016 | 1311.000 | 0.33 |
| October 26, 2016 | 1266.000 | 0.33 |
| October 27, 2016 | 1266.000 | 0.33 |
| October 28, 2016 | 1348.000 | 0.33 |
| ,,, | | |

| October 29, 2016 | 1348.000 | 0.33 |
|-------------------|----------|------|
| October 30, 2016 | 1348.000 | 0.33 |
| October 31, 2016 | 1348.000 | 0.33 |
| , | | 0.33 |
| November 1, 2016 | 1348.000 | |
| November 2, 2016 | 1348.000 | 0.33 |
| November 3, 2016 | 1348.000 | 0.28 |
| November 4, 2016 | 1361.000 | 0.28 |
| November 5, 2016 | 1361.000 | 0.28 |
| November 6, 2016 | 1361.000 | 0.28 |
| November 7, 2016 | 1017.000 | 0.28 |
| November 8, 2016 | 1204.000 | 0.28 |
| November 9, 2016 | 1204.000 | 0.26 |
| November 10, 2016 | 1075.000 | 0.20 |
| - | | |
| November 11, 2016 | 1075.000 | 0.26 |
| November 12, 2016 | 1075.000 | 0.26 |
| November 13, 2016 | 1075.000 | 0.26 |
| November 14, 2016 | 2080.000 | 0.24 |
| November 15, 2016 | 1102.000 | 0.25 |
| November 16, 2016 | 1213.000 | 0.26 |
| November 17, 2016 | 1281.000 | 0.28 |
| November 18, 2016 | 1266.000 | 0.28 |
| November 19, 2016 | 1266.000 | 0.28 |
| November 20, 2016 | 1266.000 | 0.20 |
| - | | |
| November 21, 2016 | 1654.000 | 0.28 |
| November 22, 2016 | 1203.000 | 0.28 |
| November 23, 2016 | 1632.000 | 0.17 |
| November 24, 2016 | 1195.000 | 0.20 |
| November 25, 2016 | 1161.000 | 0.20 |
| November 26, 2016 | 1161.000 | 0.20 |
| November 27, 2016 | 1161.000 | 0.24 |
| November 28, 2016 | 1494.000 | 0.25 |
| November 29, 2016 | 1143.000 | 0.28 |
| November 30, 2016 | 2562.000 | 0.27 |
| December 1, 2016 | 1264.000 | 0.27 |
| | 1264.000 | 0.27 |
| December 2, 2016 | | |
| December 3, 2016 | 1264.000 | 0.27 |
| December 4, 2016 | 1264.000 | 0.24 |
| December 5, 2016 | 1192.000 | 0.24 |
| December 6, 2016 | 1258.000 | 0.24 |
| December 7, 2016 | 1294.000 | 0.28 |
| December 8, 2016 | 1196.000 | 0.29 |
| December 9, 2016 | 1412.000 | 0.29 |
| December 10, 2016 | 1412.000 | 0.29 |
| December 11, 2016 | 1412.000 | 0.31 |
| December 12, 2016 | 1757.000 | 0.31 |
| December 13, 2016 | 1757.000 | 0.34 |
| | 1399.000 | |
| December 14, 2016 | | 0.34 |
| December 15, 2016 | 1387.000 | 0.37 |
| December 16, 2016 | 1387.000 | 0.37 |
| December 17, 2016 | 1387.000 | 0.37 |
| December 18, 2016 | 1387.000 | 0.37 |
| December 19, 2016 | 1103.000 | 0.37 |
| | | |

| December 20, 2016 | 1527.000 | 0.37 |
|-------------------|----------|------|
| December 21, 2016 | 1527.000 | 0.38 |
| December 22, 2016 | 1094.000 | 0.38 |
| December 23, 2016 | 1247.000 | 0.38 |
| December 24, 2016 | 1247.000 | 0.38 |
| December 25, 2016 | 1247.000 | 0.38 |
| December 26, 2016 | 1247.000 | 0.38 |
| December 27, 2016 | 1247.000 | 0.42 |
| December 28, 2016 | 1451.000 | 0.42 |
| December 29, 2016 | 1328.000 | 0.40 |
| December 30, 2016 | 1328.000 | 0.40 |

Total Cubic m 674,628.00

APPENDIX II- Chemistry Test Results

VILLAGE OF PEMBERTON Maxxam Job Number: B620723 Report Date: 2016/03/22

| Maxxam ID | | OH7418 | OH7419 | | |
|---------------------------------------|--------------|---------------------|---------------------|------------|--------------------|
| Sampling Date | | 2016/03/17 14:40 | 2016/03/17 14:20 | | |
| COC Number | | 489963-01-01 | 489963-01-01 | | |
| | UNITS | WELL #2 SAMPLEST | WELL #3 SAMPLEST | RDL | QC Batch |
| Calculated Parameters | | | | | |
| Total Hardness (CaCO3) | mg/L | 39.9 | 15.0 | 0.50 | 8220087 |
| Total Metals by ICPMS | | | | | |
| Total Aluminum (Al) | ug/L | 9.5 | 11.3 | 3.0 | 8221821 |
| Total Antimony (Sb) | ug/L | <0.50 | <0.50 | 0.50 | 8221821 |
| Total Arsenic (As) | ug/L | <0.10 | <0.10 | 0.10 | 8221821 |
| Total Barium (Ba) | ug/L | 24.9 | 9.4 | 1.0 | 8221821 |
| Total Beryllium (Be) | ug/L | <0.10 | <0.10 | 0.10 | 8221821 |
| Total Bismuth (Bi) | ug/L | <1.0 | <1.0 | 1.0 | 8221821 |
| Total Boron (B) | ug/L | <50 | <50 | 50 | 8221821 |
| Total Cadmium (Cd) | ug/L | 0.019 | 0.014 | 0.010 | 8221821 |
| Total Chromium (Cr) | ug/L | <1.0 | <1.0 | 1.0 | 8221821 |
| Total Cobalt (Co) | ug/L | <0.50 | <0.50 | 0.50 | 8221821 |
| Total Copper (Cu) | ug/L | 5.52 | 17.0 | 0.50 | 8221821 |
| Total Iron (Fe) | ug/L | 123 | 20 | 10 | 8221821 |
| Total Lead (Pb) | ug/L | 0.56 | 1.36 | 0.20 | 8221821 |
| Total Lithium (Li) | ug/L | <5.0 | <5.0 | 5.0 | 8221821 |
| Total Manganese (Mn) | ug/L | 78.9 | 1.4 | 1.0 | 8221821 |
| Total Molybdenum (Mo) | ug/L | <1.0 | <1.0 | 1.0 | 8221821 |
| Total Nickel (Ni) | ug/L | <1.0 | <1.0 | 1.0 | 8221821 |
| Total Selenium (Se) | ug/L | <0.10 | <0.10 | 0.10 | 8221821 |
| Total Silicon (Si) | ug/L | 4510 | 3300 | 100 | 8221821 |
| Total Silver (Ag) | ug/L | <0.020 | <0.020 | 0.020 | 8221821 |
| Total Strontium (Sr) | ug/L | 83.3 | 28.8 | 1.0 | 8221821 |
| Total Thallium (Tl) | ug/L | <0.050 | <0.050 | 0.050 | 8221821 |
| Total Tin (Sn) | ug/L | <5.0 | <5.0 | 5.0 | 8221821 |
| Total Titanium (Ti) | ug/L | <5.0 | <5.0 | 5.0 | 8221821 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | 0.10 | 8221821 |
| | | | i | 1 | |
| Total Vanadium (V) | ug/L | <5.0 | <5.0 | 5.0 | 8221821 |
| Total Vanadium (V) Total Zinc (Zn) | ug/L ug/L | <5.0 9.6 | <5.0 <5.0 | 5.0 5.0 | 8221821 8221821 |

CSR TOTAL METALS IN WATER (WATER)

| Total Calcium (Ca) | mg/L | 14.5 | 5.51 | 0.050 | 8221590 |
|----------------------|------|-------|-------|-------|---------|
| Total Magnesium (Mg) | mg/L | 0.883 | 0.290 | 0.050 | 8221590 |
| Total Potassium (K) | mg/L | 1.40 | 0.627 | 0.050 | 8221590 |
| Total Sodium (Na) | mg/L | 6.49 | 1.74 | 0.050 | 8221590 |
| Total Sulphur (S) | mg/L | 4.9 | <3.0 | 3.0 | 8221590 |

RDL = Reportable Detection Limit

Results relate only to the items tested.

Appendix III - Weekly Chlorine and pH levels

Chlorine in mg/L

Sample Station

| Date | 5-Jan-16 | 11-Jan-16 | 19-Jan-16 | 26-Jan-16 | |
|-----------------|----------|-----------|-----------|-----------|--|
| Firehall | 0.31 | | | | |
| Industrial Park | 0.04 | | | 0.16 | |
| Collins Rd | | | | 0.16 | |
| Pem. Meadows Rd | | | | 0.34 | |
| Pem. Farm Rd | | | 0.32 | 0.33 | |
| Urdal Rd | | | | | |
| Oak St | 0.41 | 0.39 | 0.38 | 0.37 | |
| Village Office | 0.15 | 0.07 | 0.34 | 0.14 | |
| Plateau | 0.32 | 0.33 | 0.32 | 0.36 | |
| Treatment Plant | 0.07 | 0.05 | 0.10 | 0.13 | |
| Health Centre | 0.37 | 0.32 | 0.33 | 0.37 | |

рΗ

| Date | 5-Jan-16 | 11-Jan-16 | 19-Jan-16 | 26-Jan-16 | |
|-----------------|-------------|-------------|-------------|-------------|---|
| Firehall | 6.18 / 14.3 | | | | |
| Industrial Park | 5.92 / 14.6 | | | 6.95 / 12.1 | |
| Collins Rd | | | | 6.18 / 11.9 | |
| Pem. Meadows Rd | | | | 5.96 / 12.2 | |
| Pem. Farm Rd | | | 5.98 / 15.0 | 5.94 / 12.1 | |
| Urdal Rd | | | | | |
| Oak St | 5.87 / 14.8 | 6.32 / 14.6 | 6.15 / 15.8 | 6.25 / 12.6 | |
| Village Office | 5.88 / 15.0 | 6.30 / 14.4 | 6.37 / 15.4 | 6.18 / 12.8 | _ |
| Plateau | 5.91 / 14.6 | 6.28 / 13.8 | 6.51 / 15.9 | 6.24 / 12.6 | |
| Treatment Plant | 5.84 / 15.1 | 6.23 / 17.1 | 6.50 / 16.7 | 6.29 / 14.5 | |
| Health Centre | 5.90 / 14.6 | 6.35 / 14.7 | 6.57 / 17.3 | 6.14 / 12.5 | |

Sample Station

| Date | 1-Feb-16 | 9-Feb-16 | 15-Feb-16 | 22-Feb-16 |
|-----------------|----------|----------|-----------|-----------|
| Firehall | 0.11 | | | |
| Industrial Park | 0.28 | 0.14 | 0.12 | 0.13 |
| Collins Rd | 0.06 | | 0.05 | 0.09 |
| Pem. Meadows Rd | 0.28 | 0.04 | 0.36 | 0.33 |
| Pem. Farm Rd | 0.29 | 0.31 | 0.33 | 0.32 |
| Urdal Rd | 0.32 | 0.36 | 0.38 | 0.38 |
| Oak St | 0.34 | 0.37 | 0.40 | 0.37 |
| Village Office | 0.08 | 0.33 | 0.35 | 0.08 |
| Plateau | 0.33 | 0.32 | 0.33 | 0.31 |
| Treatment Plant | 0.06 | 0.05 | 0.11 | 0.09 |
| Health Centre | 0.31 | 0.33 | 0.38 | 0.34 |

рΗ

| Date | 1-Feb-16 | 9-Feb-16 | 15-Feb-16 | 22-Feb-16 |
|-----------------|-------------|-------------|-------------|-------------|
| Firehall | 6.62 / 12.8 | | | |
| Industrial Park | 7.04 / 13.3 | 6.45 / 10.4 | 6.52 / 9.8 | 6.10 / 10.9 |
| Collins Rd | 6.61 / 12.2 | 6.28 / 11.0 | 6.11 / 9.6 | 5.84 / 10.4 |
| Pem. Meadows Rd | 6.63 / 12.7 | | 6.19 / 9.8 | 5.79 / 10.8 |
| Pem. Farm Rd | 6.67 / 12.0 | 6.29 / 11.2 | 6.19 / 9.6 | 5.86 / 10.5 |
| Urdal Rd | 6.69 / 12.1 | 6.22 / 10.7 | 6.30 / 9.2 | 5.93 / 10.8 |
| Oak St | 6.64 / 12.5 | 6.37 / 10.8 | 6.18 / 9.1 | 5.90 / 11.2 |
| Village Office | 6.60 / 12.4 | 6.33 / 10.8 | 6.47 / 9.8 | 5.91 / 10.9 |
| Plateau | 6.66 / 12.3 | 6.30 / 11.0 | 6.35 / 9.6 | 5.94 / 10.8 |
| Treatment Plant | 6.64 / 13.6 | 6.23 / 12.1 | 6.28 / 19.5 | 5.95 / 12.5 |
| Health Centre | 6.64 / 12.8 | 6.40 / 11. | 6.22 / 9.8 | 5.92 / 10.9 |

Sample Station

| Date | 1-Mar-16 | 9-Mar-16 | 14-Mar-16 | 23-Mar-16 | 30-Mar-16 |
|-----------------|----------|----------|-----------|-----------|-----------|
| Firehall | 0.22 | | | | |
| Industrial Park | 0.11 | 0.01 | 0.13 | 0.04 | 0.00 |
| Collins Rd | 0.05 | 0.03 | 0.06 | 0.04 | 0.00 |
| Pem. Meadows Rd | 0.32 | 0.08 | 0.21 | 0.19 | 0.13 |
| Pem. Farm Rd | 0.32 | 0.10 | 0.21 | 0.21 | 0.13 |
| Urdal Rd | 0.39 | 0.21 | 0.22 | 0.25 | 0.20 |
| Oak St | 0.38 | | 0.28 | 0.26 | 0.22 |
| Village Office | 0.28 | 0.12 | 0.17 | 0.12 | 0.13 |
| Plateau | 0.38 | 0.02 | 0.20 | 0.22 | 0.14 |
| Treatment Plant | 0.08 | 0.04 | 0.09 | 0.03 | 0.04 |
| Health Centre | 0.06 | 0.23 | 1.65 | 0.24 | 0.16 |

рΗ

| Date | 1-Mar-16 | 9-Mar-16 | 14-Mar-16 | 23-Mar-16 | 30-Mar-16 |
|-----------------|-------------|-------------|-------------|-------------|-------------|
| Firehall | 5.52 / 9.8 | | | | |
| Industrial Park | 5.64 / 9.8 | 6.60 / 8.6 | 6.49 / 13.9 | 6.51 / 10.3 | 6.62 / 11.5 |
| Collins Rd | 5.53 / 9.8 | 6.57 / 8.8 | 6.26 / 12.6 | 6.04 / 9.1 | 6.43 / 11.1 |
| Pem. Meadows Rd | 5.66 / 9.8 | 6.43 / 8.1 | 6.28 / 13.1 | 6.15 / 10.2 | 6.46 / 10.9 |
| Pem. Farm Rd | 5.52 / 10.2 | 6.47 / 7.8 | 6.40 / 13.1 | 6.08 / 9.8 | 6.45 / 11.1 |
| Urdal Rd | 5.48 / 9.7 | 6.48 / 8.9 | 6.24 / 13.6 | 6.30 / 10.1 | 6.45 / 11.2 |
| Oak St | 5.60 / 9.9 | | 6.26 / 12.8 | 6.30 / 10.0 | 6.43 / 11.7 |
| Village Office | 5.58 / 10.8 | 6.46 / 8.1 | 6.33 / 13.2 | 6.18 / 9.0 | 6.42 / 11.9 |
| Plateau | 5.59 / 9.9 | 6.48 / 8.1 | 6.32 / 13.8 | 6.05 / 9.2 | 6.46 / 10.6 |
| Treatment Plant | 5.41 / 14.7 | 6.45 / 12.1 | 6.36 / 14.5 | 6.13 / 16.9 | 6.39 / 15.8 |
| Health Centre | 5.43 / 9.9 | 6.50 / 8.8 | 6.24 / 14.6 | 6.31 / 12.9 | 6.43 / 13.0 |

Sample Station

| Date | 4-Apr-16 | 11-Apr-16 | 20-Apr-16 | 26-Apr-16 |
|-----------------|----------|-----------|-----------|-----------|
| Firehall | | | | |
| Industrial Park | 0.06 | 0.18 | 0.04 | 0.12 |
| Collins Rd | 0.05 | 0.03 | 0.22 | 0.28 |
| Pem. Meadows Rd | 0.28 | 0.24 | 0.25 | 0.23 |
| Pem. Farm Rd | 0.22 | 0.23 | 0.22 | 0.26 |
| Urdal Rd | 0.28 | 0.27 | 0.33 | 0.29 |
| Oak St | 0.31 | 0.27 | 0.35 | 0.22 |
| Village Office | 0.22 | 0.22 | 0.21 | 0.25 |
| Plateau | 0.26 | 0.23 | 0.23 | 0.21 |
| Treatment Plant | 0.06 | 0.05 | 0.07 | 0.09 |
| Health Centre | 0.28 | 0.23 | 0.27 | 0.26 |

рΗ

| Date | 4-Apr-16 | 11-Apr-16 | 20-Apr-16 | 26-Apr-16 |
|-----------------|-------------|-------------|-------------|-------------|
| Firehall | | | | |
| Industrial Park | 6.66 / 12.7 | 6.64 / 14.3 | 6.91 / 15.4 | 6.57 / 16.6 |
| Collins Rd | 6.42 / 12.1 | 6.41 / 13.9 | 6.36 / 13.3 | 6.36 / 15.6 |
| Pem. Meadows Rd | 6.41 / 12.1 | 6.43 / 13.1 | 6.36 / 14.3 | 6.34 / 16.7 |
| Pem. Farm Rd | 6.43 / 11.1 | 6.47 / 12.9 | 6.35 / 13.9 | 6.33 / 16.0 |
| Urdal Rd | 6.40 / 13.1 | 6.44 / 13.5 | 6.39 / 14.4 | 6.36 / 16.9 |
| Oak St | 6.42 / 13.1 | 6.46 / 12.6 | 6.35 / 13.5 | 6.39 / 16.1 |
| Village Office | 6.44 / 12.1 | 6.46 / 13.3 | 6.36 / 15.1 | 6.39 / 17.4 |
| Plateau | 6.39 / 12.9 | 6.39 / 13.5 | 6.35 / 15.1 | 6.40 / 16.6 |
| Treatment Plant | 6.37 / 15.2 | 6.44 / 17.5 | 6.30 / 15.8 | 6.29 / 17.6 |
| Health Centre | 6.39 / 13.4 | 6.48 / 14.0 | 6.35 / 15.7 | 6.38 / 17.5 |

Sample Station

| Date | 2-May-16 | 9-May-16 | 16-May-16 | 24-May-16 | 30-May-16 |
|-----------------|----------|----------|-----------|-----------|-----------|
| Firehall | 0.23 | | 0.33 | | 0.21 |
| Industrial Park | 0.01 | 0.12 | 0.05 | 0.06 | 0.00 |
| Collins Rd | 0.18 | 0.31 | 0.29 | 0.27 | 0.27 |
| Pem. Meadows Rd | 0.19 | 0.30 | 0.28 | 0.20 | 0.20 |
| Pem. Farm Rd | 0.36 | 0.25 | 0.30 | 0.21 | 0.23 |
| Urdal Rd | 0.26 | 0.32 | 0.32 | 0.27 | 0.26 |
| Oak St | 0.28 | 0.31 | 0.34 | 0.26 | 0.29 |
| Village Office | 0.17 | 0.27 | 0.15 | 0.16 | 0.15 |
| Plateau | 0.22 | 0.30 | 0.29 | 0.18 | 0.22 |
| Treatment Plant | 0.13 | 0.03 | 0.17 | 0.02 | 0.00 |
| Health Centre | 0.23 | 0.26 | 0.27 | 0.18 | 0.23 |

рΗ

| Date | 2-May-16 | 9-May-16 | 16-May-16 | 24-May-16 | 30-May-16 |
|-----------------|-------------|-------------|-------------|-------------|-------------|
| Firehall | 6.79 / 11.3 | | 6.37 / 20.1 | 6.71 / 16.6 | 6.38 / 15.7 |
| Industrial Park | 6.80 / 12.7 | 6.56 / 20.3 | 6.57 / 20.2 | | 6.65 / 16.1 |
| Collins Rd | 6.59 / 11.4 | 6.33 / 20.6 | 6.33 / 20.0 | 6.33 / 14.5 | 6.39 / 15.7 |
| Pem. Meadows Rd | 6.40 / 11.0 | 6.34 / 20.2 | 6.36 / 20.6 | 6.38 / 15.6 | 6.41 / 15.5 |
| Pem. Farm Rd | 6.59 / 11.3 | 6.37 / 20.7 | 6.36 / 20.6 | 6.41 / 15.3 | 6.44 / 15.4 |
| Urdal Rd | 6.61 / 11.6 | 6.31 / 20.6 | 6.36 / 20.1 | 6.33 / 14.2 | 6.39 / 15.3 |
| Oak St | 6.63 / 11.3 | 6.43 / 19.1 | 6.33 / 20.4 | 6.35 / 16.0 | 6.41 / 15.8 |
| Village Office | 6.58 / 13.4 | 6.44 / 20.1 | 6.36 / 20.7 | 6.36 / 16.4 | 6.42 / 15.5 |
| Plateau | 6.58 / 12.0 | 6.30 / 20.8 | 6.35 / 20.8 | 6.30 / 15.0 | 6.37 / 15.7 |
| Treatment Plant | 6.59 / 11.0 | 6.31 / 20.2 | 6.34 / 18.3 | 6.38 / 18.6 | 6.29 / 17.2 |
| Health Centre | 6.53 / 12.5 | 6.39 / 20.3 | 6.34 / 20.8 | 6.34 / 16.4 | 6.44 / 15.3 |

Sample Station

| Date | 6-Jun-16 | 13-Jun-16 | 20-Jun-16 | 27-Jun-16 |
|-----------------|----------|-----------|-----------|-----------|
| Firehall | 0.26 | | | |
| Industrial Park | 0.09 | 0.02 | 0.00 | 0.00 |
| Collins Rd | 0.28 | 0.38 | 0.30 | 0.18 |
| Pem. Meadows Rd | 0.24 | 0.25 | 0.26 | 0.19 |
| Pem. Farm Rd | 0.26 | 0.29 | 0.25 | 0.20 |
| Urdal Rd | 0.30 | 0.31 | 0.28 | 0.14 |
| Oak St | 0.23 | 0.31 | 0.28 | 0.16 |
| Village Office | 0.12 | 0.19 | 0.22 | 0.19 |
| Plateau | 0.23 | 0.26 | 0.16 | 0.13 |
| Treatment Plant | 0.04 | 0.08 | 0.04 | 0.03 |
| Health Centre | 0.17 | 0.14 | 0.16 | 0.11 |

рΗ

| Date | 6-Jun-16 | 13-Jun-16 | 20-Jun-16 | 27-Jun-16 |
|-----------------|-------------|-------------|-------------|-------------|
| Firehall | 6.33 / 17.0 | | | 6.52 / 15.7 |
| Industrial Park | 6.62 / 17.0 | 6.59 / 17.6 | 6.56 / 16.8 | 6.80 / 17.4 |
| Collins Rd | 6.37 / 16.7 | 6.27 / 17.2 | 6.47 / 17.3 | 6.51 / 15.6 |
| Pem. Meadows Rd | 6.41 / 16.9 | 6.28 / 17.4 | 6.32 / 15.4 | 6.45 / 15.2 |
| Pem. Farm Rd | 6.44 / 17.2 | 6.30 / 17.2 | 6.50 / 17.9 | 6.49 / 15.7 |
| Urdal Rd | 6.45 / 16.5 | 6.35 / 17.8 | 6.21 / 14.9 | 6.56 / 15.9 |
| Oak St | 6.38 / 17.0 | 6.34 / 17.5 | 6.36 / 16.0 | 6.48 / 16.4 |
| Village Office | 6.39 / 17.7 | 6.30 / 17.3 | 6.23 / 16.2 | 6.52 / 16.2 |
| Plateau | 6.38 / 16.8 | 6.34 / 17.4 | 6.31 / 15.5 | 6.50 / 16.4 |
| Treatment Plant | 6.32 / 18.7 | 6.26 / 18.0 | 6.32 / 20.1 | 6.45 / 17.3 |
| Health Centre | 6.34 / 17.1 | 6.32 / 18.4 | 6.26 / 16.3 | 6.46 / 16.3 |

Sample Station

| Date | 4-Jul-16 | 11-Jul-16 | 19-Jul-16 | 26-Jul-16 |
|-----------------|----------|-----------|-----------|-----------|
| Firehall | | | | 0.39 |
| Industrial Park | 0.08 | 0.03 | 0.15 | 0.17 |
| Collins Rd | 0.22 | 0.37 | 0.42 | 0.30 |
| Pem. Meadows Rd | 0.17 | 0.17 | 0.37 | 0.32 |
| Pem. Farm Rd | 0.16 | 0.35 | 0.37 | 0.28 |
| Urdal Rd | 0.19 | 0.27 | 0.47 | 0.31 |
| Oak St | 0.21 | 0.34 | 0.33 | 0.30 |
| Village Office | 0.13 | 0.11 | 0.14 | 0.06 |
| Plateau | 0.15 | 0.31 | 0.36 | 0.25 |
| Treatment Plant | 0.12 | 0.00 | 0.33 | 0.28 |
| Health Centre | 0.08 | 0.29 | 0.29 | 0.24 |

рΗ

| Date | 4-Jul-16 | 11-Jul-16 | 19-Jul-16 | 26-Jul-16 |
|-----------------|-------------|-------------|-------------|-------------|
| Firehall | | | | 6.64 / 20.9 |
| Industrial Park | 6.52 /17.0 | 6.70 / 18.5 | 6.65 / 18.6 | 6.73 / 19.9 |
| Collins Rd | 6.31 / 15.4 | 6.32 / 18.2 | 6.16 / 18.4 | 6.57 / 20.2 |
| Pem. Meadows Rd | 6.27 / 15.6 | 6.23 / 16.6 | 6.18 / 17.8 | 6.55 / 19.4 |
| Pem. Farm Rd | 6.24 / 16.1 | 6.37 / 16.8 | 6.21 / 18.0 | 6.48 / 19.6 |
| Urdal Rd | 6.33 / 16.7 | 6.23 / 17.0 | 6.23 / 18.8 | 6.42 / 19.2 |
| Oak St | 6.31 / 15.9 | 6.37 / 16.9 | 6.24 / 18.1 | 6.39 / 20.7 |
| Village Office | 6.30 / 16.8 | 6.34 / 18.6 | 6.14 / 18.9 | 6.32 / 19.0 |
| Plateau | 6.32 / 15.4 | 6.23 / 18.0 | 6.23 / 18.4 | 6.38 / 19.8 |
| Treatment Plant | 6.27 / 18.8 | 6.22 / 20.0 | 6.63 / 20.7 | 6.36 / 21.9 |
| Health Centre | 6.33 / 16.0 | 6.23 / 18.0 | 6.21 / 18.7 | 6.49 / 20.0 |

Sample Station

| Date | 2-Aug-16 | 9-Aug-16 | 15-Aug-16 | 23-Aug-16 | 30-Aug-16 |
|-----------------|----------|----------|-----------|-----------|-----------|
| Firehall | 0.27 | | | | |
| Industrial Park | 0.16 | 0.05 | 0.03 | 0.13 | 0.12 |
| Collins Rd | 0.34 | 0.31 | 0.24 | 0.25 | 0.32 |
| Pem. Meadows Rd | 0.28 | 0.24 | 0.25 | 0.23 | 0.28 |
| Pem. Farm Rd | 0.29 | 0.29 | 0.22 | 0.21 | 0.17 |
| Urdal Rd | 0.25 | 0.31 | 0.20 | 0.19 | 0.32 |
| Oak St | 0.30 | 0.34 | 0.23 | 0.22 | 0.33 |
| Village Office | 0.22 | 0.18 | 0.20 | 0.17 | 0.18 |
| Plateau | 0.30 | 0.22 | 0.25 | 0.18 | 0.26 |
| Treatment Plant | 0.22 | 0.14 | 0.02 | 0.24 | 0.28 |
| Health Centre | 0.21 | 0.16 | 0.13 | 0.12 | 0.23 |

рΗ

| Date | 2-Aug-16 | 9-Aug-16 | 15-Aug-16 | 23-Aug-16 | 30-Aug-16 |
|-----------------|-------------|-------------|-------------|-------------|-------------|
| Firehall | 6.33 / 19.4 | 6.51 / 16.5 | | | |
| Industrial Park | 6.53 / 18.5 | | 6.89 / 14.5 | 6.69 / 15.0 | 6.56 / 17.1 |
| Collins Rd | 6.45 / 19.0 | 6.28 / 17.1 | 6.33 / 14.2 | 6.32 / 13.8 | 6.06 / 15.0 |
| Pem. Meadows Rd | 6.46 / 19.2 | 6.24 / 16.9 | 6.35 / 13.4 | 6.32 / 13.9 | 6.11 / 15.8 |
| Pem. Farm Rd | 6.36 / 19.3 | 6.29 / 16.5 | 6.34 / 14.5 | 6.31 / 14.6 | 6.17 / 14.2 |
| Urdal Rd | 6.35 / 19.0 | 6.32 / 16.4 | 6.37 / 13.9 | 6.36 / 13.1 | 6.30 / 13.9 |
| Oak St | 6.47 / 19.2 | 6.34 / 15.9 | 6.39 / 12.8 | 6.34 / 14.8 | 6.24 / 14.9 |
| Village Office | 6.41 / 19.4 | 6.31 / 16.5 | 6.34 / 13.8 | 6.32 / 14.6 | 6.27 / 16.5 |
| Plateau | 6.50 / 19.7 | 6.28 / 17.8 | 6.28 / 14.2 | 6.35 / 14.2 | 6.34 / 13.5 |
| Treatment Plant | 6.28 / 18.9 | 6.28 / 17.6 | 6.29 / 16.0 | 6.29 / 15. | 6.30 / 17.1 |
| Health Centre | 6.43 / 19.4 | 6.26 / 17.9 | 6.34 / 13.9 | 6.31 / 14.5 | 6.13 / 15.5 |

Sample Station

| Date | 6-Sep-16 | 14-Sep-16 | 20-Sep-16 | 27-Sep-16 |
|-----------------|----------|-----------|-----------|-----------|
| Firehall | 0.19 | 0.22 | 0.28 | |
| Industrial Park | 0.00 | 0.16 | 0.10 | 0.15 |
| Collins Rd | 0.28 | 0.32 | 0.35 | 0.20 |
| Pem. Meadows Rd | 0.23 | 0.21 | 0.27 | 0.14 |
| Pem. Farm Rd | 0.27 | 0.24 | 0.30 | 0.17 |
| Urdal Rd | 0.21 | 0.31 | 0.34 | 0.19 |
| Oak St | 0.27 | 0.30 | 0.35 | 0.14 |
| Village Office | 0.13 | 0.21 | 0.16 | 0.00 |
| Plateau | 0.22 | 0.27 | 0.26 | 0.15 |
| Treatment Plant | 0.06 | 0.13 | 0.04 | 0.09 |
| Health Centre | | 0.23 | 0.26 | 0.12 |

рΗ

| Date | 6-Sep-16 | 14-Sep-16 | 20-Sep-16 | 27-Sep-16 |
|-----------------|-------------|-------------|-------------|-------------|
| Firehall | 6.44 / 16.7 | 6.39 / 14.8 | 6.14 / 14.9 | |
| Industrial Park | 6.52 / 16.2 | 6.67 / 15.9 | 6.58 / 15.4 | 6.33 / 14.5 |
| Collins Rd | 6.47 / 17.9 | 6.38 / 13.7 | 6.19 / 14.4 | 6.06 / 14.9 |
| Pem. Meadows Rd | 6.38 / 17.2 | 6.40 / 14.7 | 6.23 / 13.6 | 6.08 / 13.9 |
| Pem. Farm Rd | 6.51 / 16.7 | 6.44 / 14.8 | 6.22 / 14.6 | 6.03 / 15.2 |
| Urdal Rd | 6.22 / 15.4 | 6.47 / 13.1 | 6.19 / 14.0 | 5.99 / 15.1 |
| Oak St | 6.34 / 15.9 | 6.45 / 15.1 | 6.26 / 15.2 | 5.98 / 15.7 |
| Village Office | 6.50 / 17.0 | 6.41 / 15.0 | 6.24 / 16.3 | 5.99 / 15.9 |
| Plateau | 6.24 / 17.3 | 6.43 / 14.3 | 6.14 / 14.4 | 5.98 / 15.7 |
| Treatment Plant | 6.36 / 19.8 | 6.33 / 16.9 | 6.11 / 19.1 | 5.69 / 22.1 |
| Health Centre | | 6.45 / 15.1 | 5.84 / 14.7 | 5.98 / 16.1 |

Sample Station

| Date | 3-Oct-16 | 10-Oct-16 | 18-Oct-16 | 24-Oct-16 |
|-----------------|----------|-----------|-----------|-----------|
| Firehall | | 0.30 | | 0.29 |
| Industrial Park | 0.16 | 0.00 | 0.17 | 0.07 |
| Collins Rd | 0.23 | 0.34 | 0.19 | 0.32 |
| Pem. Meadows Rd | 0.16 | | 0.16 | 0.23 |
| Pem. Farm Rd | 0.17 | 0.29 | 0.11 | 0.25 |
| Urdal Rd | 0.21 | 0.35 | 0.25 | 0.34 |
| Oak St | 0.23 | 0.26 | 0.19 | 0.30 |
| Village Office | 0.08 | 0.23 | 0.18 | 0.15 |
| Plateau | 0.16 | 0.28 | 0.18 | 0.21 |
| Treatment Plant | 0.01 | 0.00 | 0.02 | 0.00 |
| Health Centre | 0.16 | 0.24 | 0.22 | 0.27 |

рΗ

| | 3-Oct-16 | 10-Oct-16 | 18-Oct-16 | 24-Oct-16 |
|-----------------|-------------|-------------|-------------|-------------|
| Firehall | | 6.38 / 19.1 | 6.72 / 12.6 | 5.77 / 13.6 |
| Industrial Park | 6.85 / 15.7 | 6.70 / 19.4 | | 6.06 / 13.9 |
| Collins Rd | 6.22 / 15.1 | 6.43 / 18.6 | 5.78 / 11.1 | 5.76 / 13.9 |
| Pem. Meadows Rd | 6.36 / 14.8 | | 5.74 / 10.0 | 5.75 / 13.9 |
| Pem. Farm Rd | 6.44 / 14.6 | 6.39 / 19.2 | 5.79 / 10.5 | 5.76 / 14.4 |
| Urdal Rd | 6.22 / 13.8 | 6.41 / 18.4 | 5.77 / 9.6 | 5.77 / 13.8 |
| Oak St | 6.24 / 14.2 | 6.37 / 18.5 | 5.70 / 11.8 | 5.94 / 14.4 |
| Village Office | 6.36 / 15.9 | 6.40 / 19.3 | 5.82 / 10.0 | 5.88 / 14.0 |
| Plateau | 6.21 / 14.6 | 6.41 / 18.8 | 5.76 / 11.9 | 5.73 / 13.9 |
| Treatment Plant | 6.38 / 17.4 | 6.35 / 17.4 | 5.59 / 15.2 | 5.73 / 16.5 |
| Health Centre | 6.29 / 15.8 | 6.69 / 18.9 | 5.72 / 12.2 | 5.79 / 14.2 |

Sample Station

| Date | 2-Nov-16 | 7-Nov-16 | 14-Nov-16 | 22-Nov-16 | 28-Nov-16 |
|-----------------|----------|----------|-----------|-----------|-----------|
| Firehall | | | | 0.25 | |
| Industrial Park | 0.04 | 0.04 | 0.04 | 0.01 | 0.16 |
| Collins Rd | 0.26 | 0.18 | 0.19 | 0.29 | 0.26 |
| Pem. Meadows Rd | 0.22 | 0.18 | 0.20 | 0.31 | 0.18 |
| Pem. Farm Rd | 0.22 | 0.17 | 0.20 | 0.27 | 0.19 |
| Urdal Rd | 0.28 | 0.17 | | 0.33 | 0.27 |
| Oak St | 0.31 | 0.24 | 0.26 | 0.32 | 0.28 |
| Village Office | 0.13 | 0.11 | 0.14 | 0.09 | 0.10 |
| Plateau | 0.25 | 0.18 | 0.19 | 0.23 | 0.17 |
| Treatment Plant | 0.02 | 0.06 | 0.03 | 0.07 | 0.01 |
| Health Centre | 0.26 | 0.18 | 0.25 | 0.31 | 0.18 |

рΗ

| Date | 2-Nov-16 | 7-Nov-16 | 14-Nov-16 | 22-Nov-16 | 28-Nov-16 |
|-----------------|-------------|-------------|-------------|-------------|-------------|
| Firehall | | | | 6.01 / 14.6 | |
| Industrial Park | 6.59 / 11.9 | 6.37 / 8.9 | 6.49 / 13.4 | 6.16 / 15.3 | 6.23 / 11.3 |
| Collins Rd | 6.27 / 11.8 | 6.06 / 6.1 | 5.77 / 10.3 | 6.02 / 14.5 | 6.01 / 11.0 |
| Pem. Meadows Rd | 6.40 / 12.8 | 6.10 / 8.2 | 5.87 / 11.1 | 5.97 / 14.9 | 6.04 / 10.7 |
| Pem. Farm Rd | 6.45 / 12.6 | 6.06 / 8.6 | 5.87 / 12.2 | 6.03 / 14.7 | 6.03 / 11.0 |
| Urdal Rd | 6.26 / 11.7 | 6.06 / 8.4 | | 6.01 / 14.5 | 6.01 / 11.0 |
| Oak St | 6.42 / 13.2 | 6.09 / 7.8 | 5.93 / 12.2 | 6.01 / 14.2 | 6.03 / 10.9 |
| Village Office | 6.25 / 11.0 | 6.11 / 7.8 | 5.93 / 11.6 | 5.99 / 14.6 | 6.01 / 10.8 |
| Plateau | 6.34 / 12.9 | 6.07 / 8.0 | 5.88 / 12.5 | 6.02 / 14.8 | 5.94 / 10.7 |
| Treatment Plant | 6.29 / 15.9 | 5.72 / 13.6 | 5.99 / 15.0 | 6.03 / 16.8 | 6.05 / 12.9 |
| Health Centre | 6.39 / 12.4 | 6.12 / 8.0 | 5.92 / 13.0 | 6.09 / 14.6 | 6.04 / 11.1 |

Sample Station

| Date | 5-Dec-16 |
|-----------------|----------|
| Firehall | 0.08 |
| Industrial Park | |
| Collins Rd | |
| Pem. Meadows Rd | |
| Pem. Farm Rd | |
| Urdal Rd | |
| Oak St | 0.27 |
| Village Office | 0.20 |
| Plateau | 0.27 |
| Treatment Plant | 0.00 |
| Health Centre | 0.25 |
| | |

рΗ

| Date | 5-Dec-16 |
|-----------------|-------------|
| Firehall | |
| Industrial Park | 6.49 / 13.5 |
| Collins Rd | |
| Pem. Meadows Rd | |
| Pem. Farm Rd | |
| Urdal Rd | |
| Oak St | 6.30 / 13.3 |
| Village Office | 6.28 / 13.5 |
| Plateau | 6.22 / 14.4 |
| Treatment Plant | 6.02 / 15.5 |
| Health Centre | 6.21 / 14.3 |

Appendix IV - THM Test Results

VILLAGE OF PEMBERTON

Maxxam Job Number: B719010 Report Date: 2017/03/22

CSR VOC + VPH IN WATER (DRINKING WATER)

| Maxxam ID | | | | QS4113 | Q\$4114 | Q\$4115 | Q\$4116 | | |
|-------------------------------|-------|-----|----|------------------|------------------|------------------|------------------|------|----------|
| Sampling Date | | | | 2017/03/14 10:00 | 2017/03/14 10:15 | 2017/03/14 09:45 | 2017/03/14 09:30 | | |
| COC Number | | | | 518243-01-01 | 518243-01-01 | 518243-01-01 | 518243-01-01 | | |
| | UNITS | MAC | AO | WELL #2 | WELL #3 | OAK ST | INDUSTRIAL PARK | RDL | QC Batch |
| Volatiles | | | | | | | | | |
| VPH (VH6 to 10 - BTEX) | ug/L | - | - | <300 | <300 | <300 | <300 | 300 | 8577600 |
| Chloromethane | ug/L | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 8579605 |
| Vinyl chloride | ug/L | 2 | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |
| Chloroethane | ug/L | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 8579605 |
| Trichlorofluoromethane | ug/L | - | - | <4.0 | <4.0 | <4.0 | <4.0 | 4.0 | 8579605 |
| 1,1-dichloroethene | ug/L | 14 | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |
| Dichloromethane | ug/L | 50 | - | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 8579605 |
| trans-1,2-dichloroethene | ug/L | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 8579605 |
| 1,1-dichloroethane | ug/L | - | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |
| cis-1,2-dichloroethene | ug/L | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 8579605 |
| Chloroform | ug/L | - | - | <1.0 | <1.0 | 1.2 | <1.0 | 1.0 | 8579605 |
| 1,1,1-trichloroethane | ug/L | - | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |
| 1,2-dichloroethane | ug/L | 5 | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |
| Carbon tetrachloride | ug/L | 2 | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |
| Benzene | ug/L | 5 | - | <0.40 | <0.40 | <0.40 | <0.40 | 0.40 | 8579605 |
| Methyl-tert-butylether (MTBE) | ug/L | - | 15 | <4.0 | <4.0 | <4.0 | <4.0 | 4.0 | 8579605 |
| 1,2-dichloropropane | ug/L | - | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |
| cis-1,3-dichloropropene | ug/L | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 8579605 |
| trans-1,3-dichloropropene | ug/L | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 8579605 |
| Bromomethane | ug/L | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 8579605 |
| 1,1,2-trichloroethane | ug/L | - | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |
| Trichloroethene | ug/L | 5 | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8579605 |

Appendix V - Sample Range Report

Sample Range Report

Vancouver Coastal Health

| Facility Name: Date Range: | Pemberton Industrial Park Water System Jan 1 2016 to Dec 31 2016 | | | | |
|-------------------------------|---|----------------|----------|----------------|--|
| Operator | Jeff Westlake Attn: Jeff Westlake Box 100 | | | | |
| | Pemberton, BC V0N 21 | _0 | | | |
| Sampling Site | Date Collected | Total Coliform | E. Coli | Fecal Coliform | |
| | | | | | |
| Yard Hydrant, | | | | | |
| Pemberton Indust | trial | | | | |
| <u>Park</u> | 26/01/2016 | L1 | L1 | | |
| | 01/02/2016 | L1 | L1 | | |
| | 09/02/2016 | L1 | L1 | | |
| | 15/02/2016 | L1 | L1 | | |
| | 22/02/2016 | L1 | L1 | | |
| | 09/03/2016 14/03/2016 | L1 L1 | L1 L1 | | |
| | 23/03/2016 | L1 | L1 | | |
| | 30/03/2016 | L1 | L1 | | |
| | 04/04/2016 | L1 | L1 | | |
| | 11/04/2016 | L1 | L1 | | |
| | 20/04/2016 | L1 | L1 | | |
| | 26/04/2016 | L1 | L1 | | |
| | 02/05/2016 09/05/2016 | L1 L1 | L1 L1 | | |
| | 24/05/2016 | L1 | L1 | | |
| | 06/06/2016 | L1 | L1 | | |
| | 13/06/2016 | L1 | L1 | | |
| | 20/06/2016 | L1 | L1 | | |
| | 27/06/2016 | L1 | L1 | | |
| | 04/07/2016 | L1 | L1 | | |
| | 11/07/2016 | L1 | L1 | | |
| | 19/07/2016 | L1 T | L1 | | |
| | 26/07/2016 02/08/2016 | L1 | L1 | | |
| | 09/08/2016 | L1 | L1 | | |
| | 15/08/2016 | L1 | L1 | | |
| | 23/08/2016 | L1 | L1 | | |
| | 30/08/2016 | L1 | L1 | | |
| | 06/09/2016 | L1 | L1 | | |
| | 14/09/2016 | L1 | L1 | | |
| | 20/09/2016 28/11/2016 | L1 L1 | L1 L1 | | |
| | 13/12/2016 | L1 | L1 | | |
| | Total Positive: | 0 | 0 | | |
| | | | | | |

| <u>Meter Chamber,</u> Pemberton Industria Park | <u>I</u> | | | |
|--|--------------------------|---------------|------------------|--|
| | 05/01/2016 | L1 | L1 | |
| | 01/03/2016 | L1 | L1 | |
| | 16/05/2016 | L1 | L1 | |
| | 30/05/2016 | L1 | L1 | |
| | 27/09/2016 | L1 EST 2 | L1 11 | |
| | 03/10/2016 11/10/2016 | L1 | L1 | |
| | 18/10/2016 | L1 | L1 | |
| | 24/10/2016 | L1 | L1 | |
| | 02/11/2016 | Li | LI | |
| | 07/11/2016 | L1 | L1 | |
| | 14/11/2016 | L1 | L1 | |
| | 22/11/2016 | L1 | L1 | |
| | 05/12/2016 | <u>L1</u> | <u>L1</u> | |
| | Total Positive: | 1 | 0 | |
| Result Values: | E - estimated | L - less than | G - greater than | |
| Samples that contain | in total coliform: 1 | | 2.08% of total | |
| Samples that contain | |) | 0.00% of total | |
| Samples that contain | |) | 0.00% of total | |
| Number of consecutive samples that | |) | | |
| contain total coliform: | | | | |
| Number of samples that contain total | |)/0 | | |
| coliform in last 30 d | | | | |
| Total number of sar | nples: 4 | 18 | | |

Comments:

Environmental Health Officer Aug 25 2017

FOR FURTHER INFORMATION PLEASE CALL: Cindy Watson (604) 892-2293

Sample Range Report

Vancouver Coastal Health

| Facility Name: Date Range: | Village of Pemberton Jan 1 2016 to Dec 31 2 | 016 | | |
|--|--|---|----------------------------------|----------------|
| Operator | Jeff Westlake P.O. Box 100 Pemberton, BC V0N 21 | _0 | | |
| Sampling Site | Date Collected | Total Coliform | E. Coli | Fecal Coliform |
| <u>1403 Portage Roz audit site - PHN office tap, Pemberton Heal Centre</u> | 1 | L1 L1 | L1 L1 | |
| | 09/05/2016 24/05/2016 30/05/2016 13/06/2016 20/06/2016 27/06/2016 11/07/2016 19/07/2016 | L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 T | | |
| | 26/07/2016 02/08/2016 09/08/2016 15/08/2016 23/08/2016 30/08/2016 Total Positive: | L1 L1 L1 L1 <u>L1</u> 0 | L1 L1 L1 <u>L1</u> 0 | |
| Reservoir South Pemberton | 129/02/2016 Total Positive: | <u>L1</u> 0 | <u>L1</u> 0 | |
| <u>Treatment</u> <u>Plant/Airport Rd</u> <u>Pemberton</u> | 05/01/2016 11/01/2016 19/01/2016 26/01/2016 01/02/2016 09/02/2016 15/02/2016 | L1 L1 L1 L1 L1 L1 L1 | 11 11 11 11 11 11 | |

| | 22/02/2016 01/03/2016 09/03/2016 23/03/2016 04/04/2016 11/04/2016 20/04/2016 26/04/2016 02/05/2016 02/05/2016 06/06/2016 24/05/2016 06/06/2016 27/06/2016 06/06/2016 27/06/2016 04/07/2016 13/06/2016 20/06/2016 27/06/2016 02/08/2016 02/08/2016 02/08/2016 02/08/2016 03/08/2016 05/02/016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/08/2016 03/10/2016 11/10/2016 11/10/2016 03/10/2016 0 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | $ \begin{matrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$ |
|---|--|--|--|
| <u>Oak Street At High</u> <u>School, Pemberton</u> | 05/01/2016 11/01/2016 26/01/2016 01/02/2016 09/02/2016 15/02/2016 22/02/2016 01/03/2016 | L1 L1 L1 L1 L1 L1 L1 L1 L1 | L1 L1 L1 L1 L1 L1 L1 L1 L1 |

Pemberton Plateau, Pemberton

| 05/01/0010 | | |
|------------|----|----|
| 05/01/2016 | L1 | L1 |
| 11/01/2016 | L1 | L1 |
| 19/01/2016 | L1 | L1 |
| 26/01/2016 | L1 | L1 |
| 01/02/2016 | L1 | L1 |
| 09/02/2016 | L1 | L1 |
| 15/02/2016 | L1 | L1 |
| 22/02/2016 | L1 | L1 |
| 01/03/2016 | L1 | L1 |
| 09/03/2016 | L1 | L1 |

| 09/03/2016 14/03/2016 23/03/2016 30/03/2016 04/04/2016 11/04/2016 20/04/2016 26/04/2016 02/05/2016 | L1 L1 L1 L1 L1 L1 L1 L1 L1 | L1 L1 L1 L1 L1 L1 L1 L1 |
|--|--|--|
| 09/05/2016 | L1 | L1 |
| 16/05/2016 | L1 | L1 |
| 24/05/2016 | L1 | L1 |
| 30/05/2016 | L1 | L1 |
| 06/06/2016 | L1 | L1 |
| 13/06/2016 | L1 | L1 |
| 20/06/2016 | L1 | L1 |
| 27/06/2016 | L1 | L1 |
| 04/07/2016 | L1 | L1 |
| 11/07/2016 | L1 | L1 |
| 19/07/2016 | L1 | L1 |
| 26/07/2016 02/08/2016 | T L1 L1 | L1 |
| 09/08/2016 15/08/2016 23/08/2016 | L1 L1 | L1 L1 L1 |
| 30/08/2016 06/09/2016 | L1 L1 L1 | L1 L1 L1 |
| 14/09/2016 20/09/2016 27/09/2016 | L1 L1 | L1 L1 |
| 03/10/2016 | L1 | L1 |
| 11/10/2016 | L1 | L1 |
| 18/10/2016 | L1 | L1 |
| 24/10/2016 | L1 | L1 |
| 02/11/2016 | L1 | L1 |
| 07/11/2016 | L1 | L1 |
| 14/11/2016 | L1 | L1 |
| 22/11/2016 | L1 | L1 |
| 28/11/2016 | L1 | L1 |
| 05/12/2016 | L1 | L1 |
| 13/12/2016 | L1 | L1 |
| Total Positive: | 0 | 0 |

| | 14/03/2016 23/03/2016 30/03/2016 04/04/2016 20/04/2016 26/04/2016 02/05/2016 09/05/2016 16/05/2016 24/05/2016 30/05/2016 27/06/2016 27/06/2016 27/06/2016 13/06/2016 04/07/2016 19/07/2016 26/07/2016 02/08/2016 02/08/2016 02/08/2016 30/08/2016 23/08/2016 30/08/2016 23/08/2016 23/08/2016 23/08/2016 23/08/2016 23/08/2016 15/08/2016 23/08/2016 15/08/2016 23/08/2016 14/09/2016 27/09/2016 14/10/2016 18/10/2016 18/10/2016 14/11/2016 22/11/2016 13/12/2016 Total Positive: | L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L | $\begin{array}{c} 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ $ |
|---|---|---|---|
| <u>Ad hoc /</u> miscellaneous site, Pemberton | 03/10/2016 Total Positive: | <u>L1</u> 0 | <u>L1</u> 0 |
| Pemberton Health <u>Center, 1403</u> Portage Road, Pemberton, B.C. | 05/01/2016 11/01/2016 | L1 L1 | L1 L1 |

| Village Office, 7410 | 19/01/2016 26/01/2016 15/02/2016 01/03/2016 09/03/2016 14/03/2016 23/03/2016 30/03/2016 04/04/2016 20/04/2016 26/04/2016 26/04/2016 02/05/2016 16/05/2016 02/07/2016 24/10/2016 02/11/2016 02/11/2016 14/11/2016 28/11/2016 13/12/2016 Total Positive: | L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L | L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L |
|----------------------|---|---|---|
| Prospect | 05/01/2016 11/01/2016 19/01/2016 26/01/2016 01/02/2016 09/02/2016 | L1 L1 L1 L1 L1 | L1 L1 L1 L1 L1 |
| | 15/02/2016 | L1 | L1 |
| | 22/02/2016 | L1 | L1 |
| | 01/03/2016 | L1 | L1 |
| | 09/03/2016 | L1 | L1 |
| | 14/03/2016 | L1 | L1 |
| | 23/03/2016 | L1 | L1 |
| | 30/03/2016 | L1 | L1 |
| | 04/04/2016 | L1 | L1 |
| | 11/04/2016 | L1 | L1 |
| | 20/04/2016 | L1 | L1 |
| | 26/04/2016 | L1 | L1 |
| | 02/05/2016 | L1 | L1 |
| | 09/05/2016 | L1 | L1 |
| | 16/05/2016 | L1 | L1 |
| | 24/05/2016 | L1 | L1 |
| | 30/05/2016 | L1 | L1 |
| | 06/06/2016 | L1 | L1 |
| | 13/06/2016 | L1 | L1 |
| | 20/06/2016 | L1 | L1 |
| | 27/06/2016 | L1 | L1 |
| | 04/07/2016 | L1 | L1 |
| | 11/07/2016 | L1 | L1 |

| | 19/07/2016 | L1 | L1 | |
|-----------------------|------------------------------|----------------|----------------|-----------|
| | 26/07/2016 | Т | | |
| | 02/08/2016 | L1 | L1 | |
| | 09/08/2016 | L1 | L1 | |
| | 15/08/2016 | L1 | L1 | |
| | 23/08/2016 | L1 | L1 | |
| | 30/08/2016 | L1 | L1 | |
| | 06/09/2016 | L1 | L1 | |
| | 14/09/2016 | L1 | L1 | |
| | 20/09/2016 | L1 | L1 | |
| | 27/09/2016 | L1 | L1 | |
| | 03/10/2016 | L1 | L1 | |
| | 11/10/2016 | L1 | L1 | |
| | 18/10/2016 | L1 | L1 | |
| | 24/10/2016 | L1 | L1 | |
| | 02/11/2016 | L1 | L1 | |
| | 07/11/2016 | L1 | L1 | |
| | 14/11/2016 | L1 | L1 | |
| | 22/11/2016 | L1 | L1 | |
| | 28/11/2016 | L1 | L1 | |
| | 05/12/2016 | L1 | L1 | |
| | 13/12/2016 Total Desitiva | <u>L1</u> 0 | <u>L1</u> 0 | |
| | Total Positive: | 0 | 0 | |
| Result Values: | E - estimated | L - less than | G - grea | ater than |
| Samples that conta | ain total coliform: 0 | | 0.00% of | total |
| Samples that conta | ain e. coli: 0 | | 0.00% of | |
| Samples that conta | | | 0.00% of | total |
| Number of consecu | utive samples that 0 | | | |
| contain total colifor | | | | |
| Number of samples | s that contain total 0 | /0 | | |
| coliform in last 30 d | lays: | | | |
| Total number of sar | mples: 2 | 43 | | |

Comments:

Environmental Health Officer Aug 25 2017

FOR FURTHER INFORMATION PLEASE CALL: Cindy Watson (604) 892-2293