

February 1, 2021

Dear: Water System Operator

Re: Annual Reporting Requirements for Permitted Water Systems

Please find enclosed a copy of the 2020 Range Report for your water system. This report contains a summary of the bacteriological water quality results for the samples submitted through Fraser Health from your water system within the 2020 calendar year. As per the Drinking Water Protection Act the report is required to be made available to all users by June 30th 2021.

Please email HPLand@fraserhealth.ca if you would like to request a copy of the Annual Report Template.

The following are reminders for all water system operators:

- a) As drinking water testing has been deemed an essential service, all health units continue to remain open for sample drop-off on their regular designated days.
- b) Please do not use expired requisition forms as this will result in the samples either not being processed or results not being returned properly from the lab. Please discard all expired requisition forms. The expiration date is located on the bottom of the form.
- c) Please do not modify sample sites or other sections on the requisition forms. Key information is contained in the barcode and the lab is unable to include handwritten information. Please contact HPLand@fraserhealth.ca to request any changes to your requisition forms.
- d) Ensure the lead flush message provided is included with your Annual Report.
- e) The coding system from BCCDC has recently changed.

QRWRT indicates that the sample exceeded the 30 hour hold time. This could be due to courier issues or an incorrect date being recorded by the operator on the requisition forms. Water systems will still be given credit for the sample collected and a qualitative result is provided to Fraser Health. If there is bacteria detected, a separate email will be sent to the operator from Fraser Health.

REJCT DELAY3 indicates that the sample has been rejected as it has been too long in transit. No results will be provided for this sample.

Sincerely,

Drinking Water Program
Fraser Health Authority
HPLand@fraserhealth.ca



fraserhealth Better health.
Best in health care.

February 1, 2021

Water System Operators

Re: Metals in Drinking Water – “Flush” Message in Annual Reports

Fraser Health has recently revised its metals at the tap “Flush” message and we are asking all water systems to please include the following health message with your next annual reports to your users.

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 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.

If you have any questions, please contact our Drinking Water Program at 604-870-7903.

Sincerely,

Drinking Water Program
Fraser Health Authority
HPLand@fraserhealth.ca

Sample Range Report

Fraser Health Authority

Facility Name: Dogwood Valley Water Supply Area

Date Range: Jan 1 2020 to Dec 31 2020

Operator

| Sampling Site | Date Collected | Total Coliform | E. Coli | Fecal Coliform |
|--|--------------------------|----------------|------------|----------------|
| <u>Reservoir,</u> | | | | |
| | 1-28-2020 7:55:00 AM | LT1 | LT1 | |
| | 3-10-2020 7:30:00 AM | LT1 | LT1 | |
| | 4-14-2020 7:50:00 AM | LT1 | LT1 | |
| | 6-9-2020 7:00:00 AM | LT1 | LT1 | |
| | 10-27-2020 7:30:00 AM | LT1 | LT1 | |
| | 11-24-2020 7:00:00 AM | <u>LT1</u> | <u>LT1</u> | |
| | Total Positive: | 0 | 0 | 0 |
| <u>Dogwood Valley</u> <u>Pumphouse, 26603</u> <u>Apostilic Way</u> | | | | |
| | 1-7-2020 | L1 | L1 | |
| | 1-21-2020 | L1 | L1 | |
| | 2-4-2020 8:15:00 AM | LT1 | LT1 | |
| | 2-18-2020 7:30:00 AM | LT1 | LT1 | |
| | 3-3-2020 8:00:00 AM | LT1 | LT1 | |
| | 3-31-2020 9:05:00 AM | LT1 | LT1 | |
| | 4-28-2020 7:00:00 AM | LT1 | LT1 | |
| | 5-26-2020 6:35:00 AM | LT1 | LT1 | |
| | 6-23-2020 7:45:00 AM | LT1 | LT1 | |
| | 7-7-2020 7:05:00 AM | LT1 | LT1 | |
| | 7-21-2020 7:30:00 AM | LT1 | LT1 | |
| | 8-4-2020 8:30:00 AM | LT1 | LT1 | |
| | 8-18-2020 8:25:00 | LT1 | LT1 | |

| | | |
|------------------------|------------|------------|
| AM | | |
| 9-1-2020 7:30:00 | LT1 | LT1 |
| AM | | |
| 9-15-2020 7:15:00 | LT1 | LT1 |
| AM | | |
| 9-29-2020 7:30:00 | LT1 | LT1 |
| AM | | |
| 10-27-2020 8:10:00 | LT1 | LT1 |
| AM | | |
| 11-9-2020 7:50:00 | LT1 | LT1 |
| AM | | |
| 12-8-2020 5:55:00 | <u>LT1</u> | <u>LT1</u> |
| AM | | |
| Total Positive: | 0 | 0 |

Nickel
Mine/Reynolds Rd ,

| | | |
|--------------------|------------|-----|
| 1-14-2020 | L1 | L1 |
| 2-11-2020 7:30:00 | LT1 | LT1 |
| AM | | |
| 2-25-2020 7:30:00 | LT1 | LT1 |
| AM | | |
| 3-17-2020 8:00:00 | LT1 | LT1 |
| AM | | |
| 3-24-2020 6:55:00 | LT1 | LT1 |
| AM | | |
| 4-7-2020 7:20:00 | LT1 | LT1 |
| AM | | |
| 4-21-2020 7:10:00 | LT1 | LT1 |
| AM | | |
| 5-5-2020 6:40:00 | LT1 | LT1 |
| AM | | |
| 5-12-2020 7:30:00 | LT1 | LT1 |
| AM | | |
| 5-19-2020 6:55:00 | LT1 | LT1 |
| AM | | |
| 6-16-2020 7:30:00 | LT1 | LT1 |
| AM | | |
| 6-29-2020 7:15:00 | LT1 | LT1 |
| AM | | |
| 7-14-2020 7:05:00 | LT1 | LT1 |
| AM | | |
| 7-28-2020 6:55:00 | ESTCT 1020 | LT1 |
| AM | ESTHCD | |
| 8-4-2020 8:05:00 | LT1 | LT1 |
| AM | | |
| 8-11-2020 7:05:00 | LT1 | LT1 |
| AM | | |
| 8-25-2020 12:30:00 | LT1 | LT1 |
| PM | | |
| 9-8-2020 8:20:00 | LT1 | LT1 |
| AM | | |
| 9-22-2020 7:30:00 | LT1 | LT1 |
| AM | | |
| 10-6-2020 7:30:00 | LT1 | LT1 |

| | | |
|--------------------|------------|------------|
| AM | | |
| 10-13-2020 7:55:00 | LT1 | LT1 |
| AM | | |
| 10-20-2020 7:15:00 | LT1 | LT1 |
| AM | | |
| 11-3-2020 7:05:00 | LT1 | LT1 |
| AM | | |
| 11-17-2020 7:30:00 | LT1 | LT1 |
| AM | | |
| 12-1-2020 7:20:00 | LT1 | LT1 |
| AM | | |
| 12-15-2020 5:45:00 | <u>LT1</u> | <u>LT1</u> |
| AM | | |
| Total Positive: | 1 | 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: | 0/0 | | |
| Total number of samples: | 51 | | |

Comments:

Environmental Health Officer
Feb 9 2021

FOR FURTHER INFORMATION PLEASE CALL: Jessica Hibbs (604) 870-7900

Analytical Report

| | | |
|---|---|---|
| Bill To: Fraser Valley Regional District 1 - 45950 Cheam Ave. Chilliwack, BC, Canada V2P 1N6 | Project ID: Canyon Chem / Physical Project Name: Canyon Project Location: Canyon LSD: P.O.: | Lot ID: 1485539 Control Number: Date Received: Apr 13, 2021 Date Reported: Apr 16, 2021 Report Number: 2612481 |
| Attn: Accounts Payable | Proj. Acct. code: | |
| Sampled By: | | |
| Company: FVRD | | |

| | |
|---------------------------|---|
| Reference Number | 1485539-2 |
| Sample Date | April 13, 2021 |
| Sample Time | 08:30 |
| Sample Location | |
| Sample Description | Dogwood WS / Dogwood Valley WS / 7.3 °C |
| Sample Matrix | Drinking Water |

| Analyte | | Units | Result | Nominal Detection Limit | Guideline Limit | Guideline Comments |
|--|------------------------|----------------|----------|-------------------------|-------------------|--------------------|
| Metals Extractable | | | | | | |
| Aluminum | Extractable | mg/L | 0.002 | 0.001 | 0.1 | Below OG |
| Antimony | Extractable | mg/L | 0.00004 | 0.00002 | 0.006 | Below MAC |
| Arsenic | Extractable | mg/L | 0.0009 | 0.0001 | 0.010 | Below MAC |
| Barium | Extractable | mg/L | 0.013 | 0.0001 | 2.0 | Below MAC |
| Boron | Extractable | mg/L | 0.011 | 0.002 | 5 | Below MAC |
| Cadmium | Extractable | mg/L | <0.00001 | 0.00001 | 0.007 | Below MAC |
| Chromium | Extractable | mg/L | 0.00056 | 0.00005 | 0.05 | Below MAC |
| Copper | Extractable | mg/L | 0.0013 | 0.0005 | 1 AO; 2 MAC | Below AO |
| Lead | Extractable | mg/L | 0.00013 | 0.00001 | 0.005 | Below MAC |
| Selenium | Extractable | mg/L | 0.0004 | 0.0002 | 0.05 | Below MAC |
| Strontium | Extractable | mg/L | 0.14 | 0.0001 | 7.0 | Below MAC |
| Uranium | Extractable | mg/L | 0.00021 | 0.00001 | 0.02 | Below MAC |
| Vanadium | Extractable | mg/L | 0.00072 | 0.00005 | | |
| Zinc | Extractable | mg/L | 0.0043 | 0.0005 | 5.0 | Below AO |
| Physical and Aggregate Properties | | | | | | |
| Colour | True | Colour units | <5 | 5 | | |
| Turbidity | | NTU | <0.10 | 0.1 | 0.1 | Below OG |
| Routine Water | | | | | | |
| pH - Holding Time | | | Exceeded | | | |
| pH | at 25 °C | | 7.94 | 0.01 | 7.0-10.5 | Within Range |
| Electrical Conductivity | | µS/cm at 25 °C | 210 | 1 | | |
| Calcium | Extractable | mg/L | 27 | 0.01 | | |
| Iron | Extractable | mg/L | <0.004 | 0.004 | 0.3 | Below AO |
| Magnesium | Extractable | mg/L | 3.8 | 0.02 | | |
| Manganese | Extractable | mg/L | <0.001 | 0.001 | 0.02 AO; 0.12 MAC | Below AO |
| Potassium | Extractable | mg/L | 1.0 | 0.04 | | |
| Silicon | Extractable | mg/L | 5.6 | 0.005 | | |
| Sodium | Extractable | mg/L | 3.3 | 0.1 | 200 | Below AO |
| T-Alkalinity | as CaCO3 | mg/L | 87 | 5 | | |
| Chloride | Dissolved | mg/L | 7.00 | 0.05 | 250 | Below AO |
| Fluoride | Dissolved | mg/L | <0.01 | 0.01 | 1.5 | Below MAC |
| Nitrate - N | Dissolved | mg/L | 0.40 | 0.01 | 10 | Below MAC |
| Nitrite - N | Dissolved | mg/L | <0.01 | 0.01 | 1 | Below MAC |
| Sulfate (SO4) | Dissolved | mg/L | 10.1 | 0.1 | 500 | Below AO |
| Hardness | as CaCO3 (extractable) | mg/L | 83 | 1 | | |
| Total Dissolved Solids | Extractable | mg/L | 121 | 1 | 500 | Below AO |