

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: Cultus Lake Integrated Water System

Date Range: Jan 1 2020 to Dec 31 2020

Operator

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>EC #2, 3696</u>				
<u>Columbia Valley Rd</u>				
	1-14-2020	L1	L1	
	2-18-2020 8:15:00 AM	LT1	LT1	
	4-28-2020 8:10:00 AM	LT1	LT1	
	5-12-2020 8:45:00 AM	LT1	LT1	
	6-2-2020 8:00:00 AM	LT1	LT1	
	7-7-2020 11:45:00 AM	LT1	LT1	
	8-11-2020 9:15:00 AM	LT1	LT1	
	9-15-2020 8:20:00 AM	LT1	LT1	
	10-20-2020 10:00:00 AM	QRWRT	QRWRT	
	11-24-2020 10:15:00 AM	<u>LT1</u>	<u>LT1</u>	
	Total Positive:	0	1	0
<u>Main Well,</u>				
	2-11-2020 8:30:00 AM	LT1	LT1	
	3-3-2020 10:10:00 AM	LT1	LT1	
	3-31-2020 10:00:00 AM	LT1	LT1	
	5-26-2020 8:00:00 AM	QRWRT	QRWRT	
	9-29-2020 10:40:00 AM	LT1	LT1	
	12-1-2020 10:50:00 AM	<u>LT1</u>	<u>LT1</u>	
	Total Positive:	0	1	0
<u>Research Lab, 4222</u>				
<u>Columbia Valley</u>				

Hwy

1-14-2020	L1	L1	
2-4-2020 11:15:00 AM	LT1	LT1	
2-25-2020 10:00:00 AM	LT1	LT1	
4-7-2020 7:30:00 AM	LT1	LT1	
5-19-2020 9:30:00 AM	LT1	LT1	
6-9-2020 9:30:00 AM	LT1	LT1	
6-29-2020 9:15:00 AM	LT1	LT1	
8-11-2020 10:00:00 AM	LT1	LT1	
9-1-2020 9:20:00 AM	LT1	LT1	
9-22-2020 9:30:00 AM	LT1	LT1	
10-13-2020 8:30:00 AM	LT1	LT1	
11-3-2020 10:30:00 AM	LT1	LT1	
11-24-2020 10:50:00 AM	LT1	LT1	
12-15-2020 10:50:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

EC #1, 3858 Karen

Dr

1-7-2020	L1	L1	
2-11-2020 7:45:00 AM	LT1	LT1	
3-17-2020 10:30:00 AM	LT1	LT1	
3-24-2020 8:00:00 AM	LT1	LT1	
4-14-2020 11:00:00 AM	LT1	LT1	
4-21-2020 6:45:00 AM	LT1	LT1	
5-12-2020 8:30:00 AM	LT1	LT1	
5-26-2020 7:30:00 AM	QRWRT	QRWRT	
6-16-2020 10:00:00 AM	LT1	LT1	
6-29-2020 10:00:00 AM	LT1	LT1	
8-4-2020 8:15:00 AM	LT1	LT1	
9-8-2020 12:30:00 PM	LT1	LT1	

10-13-2020 10:00:00 AM	LT1	LT1	
11-17-2020 8:00:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	1	0

Outside Tap - 657
Mountain View, 657
Mountain View

1-14-2020	L1	L1	
2-4-2020 10:50:00 AM	LT1	LT1	
2-25-2020 10:30:00 AM	LT1	LT1	
3-10-2020 11:05:00 AM	LT1	LT1	
3-17-2020 10:15:00 AM	LT1	LT1	
4-7-2020 8:00:00 AM	LT1	LT1	
4-28-2020 7:50:00 AM	LT1	LT1	
5-5-2020 8:31:00 AM	LT1	LT1	
5-19-2020 10:00:00 AM	LT1	LT1	
6-9-2020 10:00:00 AM	LT1	LT1	
6-29-2020 10:30:00 AM	LT1	LT1	
7-7-2020 12:30:00 PM	LT1	LT1	
7-21-2020 8:15:00 AM	LT1	LT1	
8-11-2020 11:00:00 AM	LT1	LT1	
9-1-2020 10:10:00 AM	LT1	LT1	
9-22-2020 9:50:00 AM	LT1	LT1	
10-13-2020 10:30:00 AM	LT1	LT1	
11-3-2020 10:30:00 AM	LT1	LT1	
11-9-2020 7:45:00 AM	LT1	LT1	
11-24-2020 9:20:00 AM	LT1	LT1	
12-15-2020 12:45:00 PM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Cabins - Near Water
Slides,

1-28-2020 9:15:00 AM	LT1	LT1	
2-18-2020 8:05:00 AM	LT1	LT1	
3-31-2020 10:45:00 AM	LT1	LT1	
5-5-2020 8:00:00 AM	LT1	LT1	
7-14-2020 9:30:00 AM	LT1	LT1	
8-25-2020 10:05:00 AM	LT1	LT1	
9-15-2020 9:20:00 AM	LT1	LT1	
10-6-2020 7:45:00 AM	LT1	LT1	
10-27-2020 9:10:00 AM	LT1	LT1	
12-8-2020 10:45:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

180 1st Ave, 180 1st
Ave

1-7-2020	L1	L1
1-28-2020 9:00:00 AM	LT1	LT1
2-18-2020 8:35:00 AM	LT1	LT1
3-10-2020 11:25:00 AM	LT1	LT1
3-24-2020 8:30:00 AM	LT1	LT1
3-31-2020 9:30:00 AM	LT1	LT1
4-21-2020 7:00:00 AM	LT1	LT1
5-12-2020 9:00:00 AM	LT1	LT1
6-2-2020 9:15:00 AM	LT1	LT1
6-23-2020 9:00:00 AM	LT1	LT1
6-29-2020 10:45:00 AM	LT1	LT1
7-14-2020 10:00:00 AM	LT1	LT1
8-4-2020 8:45:00 AM	LT1	LT1
8-25-2020 10:25:00 AM	LT1	LT1
9-15-2020 8:35:00 AM	LT1	LT1
10-6-2020 8:10:00 AM	LT1	LT1

10-27-2020 9:20:00 AM	LT1	LT1	
11-17-2020 8:30:00 AM	LT1	LT1	
12-8-2020 10:30:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Washroom near
Cultus Lake Plaza.

1-21-2020	L1	L1	
2-11-2020 8:10:00 AM	LT1	LT1	
3-3-2020 8:40:00 AM	LT1	LT1	
7-7-2020 12:45:00 PM	LT1	LT1	
7-28-2020 9:45:00 AM	LT1	LT1	
8-18-2020 10:00:00 AM	LT1	LT1	
9-8-2020 12:45:00 PM	LT1	LT1	
9-29-2020 9:50:00 AM	LT1	LT1	
10-20-2020 9:45:00 AM	QRWRT	QRWRT	
11-9-2020 8:45:00 AM	LT1	LT1	
12-1-2020 10:35:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	1	0

Well #2 - Source,
Sunshine Blvd

3-3-2020 9:00:00 AM	LT1	LT1	
4-28-2020 9:15:00 AM	LT1	LT1	
6-29-2020 11:30:00 AM	LT1	LT1	
9-1-2020 10:30:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Munroe Standpipe.

1-7-2020	L1	L1	
1-7-2020	L1	L1	
1-14-2020	L1	L1	
1-21-2020	L1	L1	
1-28-2020 9:30:00 AM	LT1	LT1	
2-4-2020 10:20:00	LT1	LT1	

AM		
2-11-2020 8:00:00	LT1	LT1
AM		
2-18-2020 7:50:00	LT1	LT1
AM		
2-25-2020 10:15:00	LT1	LT1
AM		
3-3-2020 8:35:00	LT1	LT1
AM		
3-10-2020 10:40:00	LT1	LT1
AM		
3-17-2020 10:00:00	LT1	LT1
AM		
3-24-2020 7:15:00	LT1	LT1
AM		
3-31-2020 7:00:00	LT1	LT1
AM		
4-7-2020 7:00:00	LT1	LT1
AM		
4-14-2020 10:30:00	LT1	LT1
AM		
4-21-2020 7:15:00	LT1	LT1
AM		
4-28-2020 7:35:00	LT1	LT1
AM		
5-5-2020 7:30:00	LT1	LT1
AM		
5-12-2020 8:00:00	LT1	LT1
AM		
5-19-2020 9:00:00	LT1	LT1
AM		
5-26-2020 7:15:00	QRWRT	QRWRT
AM		
6-2-2020 8:15:00	LT1	LT1
AM		
6-9-2020 9:00:00	LT1	LT1
AM		
6-16-2020 9:30:00	LT1	LT1
AM		
6-23-2020 8:30:00	LT1	LT1
AM		
7-14-2020 9:00:00	LT1	LT1
AM		
7-21-2020 7:30:00	LT1	LT1
AM		
7-28-2020 10:15:00	LT1	LT1
AM		
8-11-2020 10:30:00	LT1	LT1
AM		
8-18-2020 9:45:00	LT1	LT1
AM		
8-25-2020 9:20:00	LT1	LT1
AM		
9-1-2020 8:40:00	LT1	LT1
AM		
9-8-2020 11:30:00	LT1	LT1

AM		
9-15-2020 9:35:00	LT1	LT1
AM		
9-22-2020 9:05:00	LT1	LT1
AM		
9-29-2020 9:05:00	LT1	LT1
AM		
10-6-2020 7:30:00	LT1	LT1
AM		
10-13-2020 8:00:00	LT1	LT1
AM		
10-20-2020 9:30:00	QRWRT	QRWRT
AM		
10-27-2020 9:00:00	LT1	LT1
AM		
11-3-2020 10:00:00	LT1	LT1
AM		
11-9-2020 8:15:00	LT1	LT1
AM		
11-17-2020 8:15:00	LT1	LT1
AM		
11-24-2020 8:45:00	LT1	LT1
AM		
12-1-2020 10:15:00	LT1	LT1
AM		
12-8-2020 10:15:00	LT1	LT1
AM		
12-15-2020 10:20:00	<u>LT1</u>	<u>LT1</u>
AM		
Total Positive:	0	2

0

Sunnyside
Campground, 4165
Columbia Valley
Hwy

4-28-2020 8:05:00	LT1	LT1
AM		
6-9-2020 9:45:00	LT1	LT1
AM		
6-16-2020 10:00:00	LT1	LT1
AM		
6-23-2020 8:45:00	LT1	LT1
AM		
6-29-2020 9:45:00	LT1	LT1
AM		
7-7-2020 12:00:00	LT1	LT1
PM		
7-14-2020 8:30:00	LT1	LT1
AM		
7-21-2020 8:45:00	LT1	LT1
AM		
7-28-2020 9:30:00	LT1	LT1
AM		
8-4-2020 8:30:00	LT1	LT1
AM		

8-11-2020 9:00:00 AM	LT1	LT1	
8-18-2020 9:00:00 AM	LT1	LT1	
8-25-2020 9:45:00 AM	LT1	LT1	
9-1-2020 10:00:00 AM	LT1	LT1	
9-8-2020 12:15:00 PM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Cultus Lake
Community Centre,
Columbia Valley
Hwy

1-21-2020	L1	L1	
4-14-2020 11:30:00 AM	LT1	LT1	
6-16-2020 8:45:00 AM	LT1	LT1	
7-7-2020 1:00:00 PM	LT1	LT1	
7-28-2020 9:15:00 AM	LT1	LT1	
8-18-2020 9:30:00 AM	LT1	LT1	
9-8-2020 12:00:00 PM	LT1	LT1	
9-29-2020 9:20:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	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:	6		3.33% 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:	180		

Comments:

Environmental Health Officer
Jan 29 2021

FOR FURTHER INFORMATION PLEASE CALL: Jeniene Lutz

Analytical Report

Bill To: Fraser Valley Regional District 1 - 45950 Cheam Ave. Chilliwack, BC, Canada V2P 1N6	Project ID: Chem / Physical Project Name: Southside Project Location: LSD: P.O.:	Lot ID: 1434484 Control Number: Date Received: Jul 14, 2020 Date Reported: Jul 17, 2020 Report Number: 2530449
Attn: Accounts Payable Sampled By: L. Adamik Company: FVRD	Proj. Acct. code:	

Reference Number	1434484-3
Sample Date	July 14, 2020
Sample Time	10:00
Sample Location	
Sample Description	Cultus Lake I.W.S. / #3 180 1st Ave. / 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	0.00005	0.00002	0.006	Below MAC
Arsenic	Extractable mg/L	0.0013	0.0001	0.010	Below MAC
Barium	Extractable mg/L	0.079	0.0001	2.0	Below MAC
Boron	Extractable mg/L	0.009	0.002	5	Below MAC
Cadmium	Extractable mg/L	<0.00001	0.00001	0.005	Below MAC
Chromium	Extractable mg/L	<0.00005	0.00005	0.05	Below MAC
Copper	Extractable mg/L	0.0038	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable mg/L	0.00031	0.00001	0.005	Below MAC
Selenium	Extractable mg/L	0.0011	0.0002	0.05	Below MAC
Strontium	Extractable mg/L	0.19	0.0001	7.0	Below MAC
Uranium	Extractable mg/L	0.00028	0.00001	0.02	Below MAC
Vanadium	Extractable mg/L	0.00045	0.00005		
Zinc	Extractable mg/L	0.0044	0.0005	5.0	Below AO
Physical and Aggregate Properties					
Colour	True	Colour units	<5	5	
Turbidity		NTU	0.35	0.1	Above OG
Routine Water					
pH - Holding Time			Exceeded		
pH	at 25 °C		7.95	0.01	7.0-10.5 Within Range
Electrical Conductivity		µS/cm at 25 °C	322	1	
Calcium	Extractable mg/L		50	0.01	
Iron	Extractable mg/L		<0.004	0.004	0.3 Below AO
Magnesium	Extractable mg/L		4.5	0.02	
Manganese	Extractable mg/L		0.002	0.001	0.02 AO; 0.12 MAC Below AO
Potassium	Extractable mg/L		1.4	0.04	
Silicon	Extractable mg/L		7.2	0.005	
Sodium	Extractable mg/L		5.1	0.1	200 Below AO
T-Alkalinity	as CaCO3	mg/L	135	5	
Chloride	Dissolved mg/L		8.86	0.05	250 Below AO
Fluoride	Dissolved mg/L		0.06	0.01	1.5 Below MAC
Nitrate - N	Dissolved mg/L		0.17	0.01	10 Below MAC
Nitrite - N	Dissolved mg/L		<0.01	0.01	1 Below MAC
Sulfate (SO4)	Dissolved mg/L		16.9	0.1	500 Below AO
Hardness	as CaCO3 (extractable)	mg/L	140	1	
Total Dissolved Solids	Extractable mg/L		188	1	500 Below AO