

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, 2018

Water System Yale and District Firehall # 2 Water System

Water System Owner Fraser Valley Regional District

Primary Contact Name (Operator or Manager) Dave Roblin

Phone Number (Operator or Manager) 604 702 5027

E-mail (Operator or Manager) droblin@fvrd.ca

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

Deep Well Shallow Well Surface Water Other

If other, specify details:

Does the Drinking Water System have Primary Disinfection?

Yes No

Chlorination Ultraviolet Light Ozone Other

If other, specify details:

Does the Drinking Water System have Secondary Disinfection?

Yes No

Chlorination Other

If other, specify details:

Does the Drinking Water System have Filtration?

Yes No

Check all boxes that apply

Cartridge Filter(s) Carbon Filter Sand Filtration Reverse Osmosis Other

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date? Yes No

How do you Inform the System Users of the ERCP?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

Drinking Water System Annual Report**How do you Inform the System Users of the Annual Report?**

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details)

COMPLIANCE WITH OPERATING PERMIT

List the conditions of your Operating Permit (Contact the DWO for a copy if needed):

Are you in compliance with your Operating Permit? Yes No

BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS

How many bacteriological samples were collected during this reporting period? 51

What is the minimum required sampling frequency for this system? (#samples/month) 4/mnth

Additional sampling details:

Was the minimum required sampling frequency achieved? Yes No

Comments:

Bacteriological summary attached to this report? Yes No

If no, how do the users of the system view the results?

WATER QUALITY STANDARDS FOR POTABLE WATER

Parameter:	Standard:	Did this system meet standard?	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/>	<input type="checkbox"/>

Yes

If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD

Was any chemical sampling conducted during reporting period? Yes No

If no, when were the last chemical samples conducted for this system?

(date) Don't Know Never

If yes, did all water samples meet the Guidelines for Canadian Drinking Water Quality?

Yes No

If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.

Parameter	Result	Corrective Action / Treatment / Comments
Total coliforms	5	System flushed and resampled

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring? Yes No

If yes, check all boxes that apply:

Chlorine Turbidity Other (details)

Are the results available on request?

If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.

Additional Testing & Reason for Sampling	Corrective Action Taken

WATER QUALITY COMPLAINTS

Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.) Yes No

If yes, complete the table below; attach additional sheets if necessary.

Date	Water Quality Complaint	Corrective Action / Treatment

OPERATIONAL PROBLEMS

Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.). Yes No

If yes, complete the table below; attach additional sheets if necessary.

Incident Date	Type of Operational Problem	Corrective Action Taken

MAJOR UPGRADES/REPAIRS & EXPENSES

Were there any major upgrades/repairs or any major costs incurred during this reporting period? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

FUTURE IMPROVEMENTS

Are there any plans for future improvements? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Future Upgrades or Improvements	Estimated Date of Completion

DATE COMPLETED: May 31 2019	COMPLETED BY: Dave Roblin
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Sample Range Report

Fraser Health Authority

Facility Name: Yale & District Volunteer Fire Dept Hall #2

Date Range: Jan 1 2018 to Dec 31 2018

Operator

<u>Sampling Site</u>	<u>Date Collected</u>	<u>Total Coliform</u>	<u>E. Coli</u>	<u>Fecal Coliform</u>
<u>Kitchen Tap -</u> <u>Volunteer Fire Hall,</u> <u>28555 Trans</u> <u>Canada Hwy</u>	1-2-2018	L1	L1	
	1-9-2018	L1	L1	
	1-16-2018	L1	L1	
	1-23-2018	L1	L1	
	1-30-2018	L1	L1	
	2-6-2018	L1	L1	
	2-13-2018	L1	L1	
	2-20-2018	L1	L1	
	2-27-2018	L1	L1	
	3-6-2018	L1	L1	
	3-13-2018	L1	L1	
	3-20-2018	L1	L1	
	3-27-2018	L1	L1	
	4-3-2018	L1	L1	
	4-10-2018	L1	L1	
	4-17-2018	L1	L1	
	4-24-2018	L1	L1	
	5-1-2018	L1	L1	
	5-8-2018	L1	L1	
	5-15-2018	L1	L1	
	5-22-2018	L1	L1	
	5-29-2018	L1	L1	
	6-5-2018	L1	L1	
	6-12-2018	L1	L1	
	6-19-2018	L1	L1	
	6-26-2018	L1	L1	
	7-3-2018	L1	L1	
	7-10-2018	L1	L1	
	7-17-2018	L1	L1	
	7-24-2018	L1	L1	
7-31-2018	L1	L1		
8-7-2018	8	L1		
8-14-2018	L1	L1		
8-21-2018	L1	L1		
8-28-2018	L1	L1		
9-4-2018	L1	L1		
9-11-2018	L1	L1		

9-18-2018	L1	L1	
9-25-2018	L1	L1	
10-2-2018	L1	L1	
10-9-2018	L1	L1	
10-16-2018	L1	L1	
10-23-2018	L1	L1	
10-30-2018	L1	L1	
11-6-2018	L1	L1	
11-13-2018	L1	L1	
11-20-2018	L1	L1	
11-27-2018	L1	L1	
12-4-2018	L1	L1	
12-11-2018	L1	L1	
12-18-2018	<u>L1</u>	<u>L1</u>	
Total Positive:	1	0	0

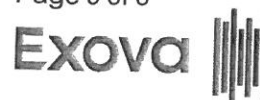
Result Values: **E - estimated** **L - less than** **G - greater than**

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:	0/1	
Total number of samples:	51	

Comments:

Environmental Health Officer
Jan 29 2019

FOR FURTHER INFORMATION PLEASE CALL: Kevin Freer (604) 870-7900



Analytical Report

Bill To: Fraser Valley Regional District 1 - 45950 Cheam Ave. Chilliwack, BC, Canada V2P 1N6	Project ID: Project Name: Project Location: LSD: P.O.:	Lot ID: 1287150 Control Number: C117053 Date Received: Jul 25, 2018 Date Reported: Jul 30, 2018 Report Number: 2308441
Attn: Accounts Payable Sampled By: J.Horn Company: FVRD	Proj. Acct. code:	

Reference Number	1287150-3
Sample Date	July 24, 2018
Sample Time	07:40
Sample Location	
Sample Description	Yale Fire Dept. / 5.0 °C
Sample Matrix	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable					
Aluminum	Extractable mg/L	<0.001	0.001	0.1	Below OG
Antimony	Extractable mg/L	<0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable mg/L	0.0046	0.0001	0.010	Below MAC
Barium	Extractable mg/L	0.0001	0.0001	1	Below MAC
Boron	Extractable mg/L	0.003	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	0.0020	0.0005	1.0	Below AO
Lead	Extractable mg/L	0.00009	0.00001	0.01	Below MAC
Selenium	Extractable mg/L	<0.0002	0.0002	0.05	Below MAC
Uranium	Extractable mg/L	0.00002	0.00001	0.02	Below MAC
Vanadium	Extractable mg/L	<0.00005	0.00005		
Zinc	Extractable mg/L	0.0101	0.0005	5.0	Below AO
Physical and Aggregate Properties					
Colour	True	Colour units	<5	5	
Turbidity		NTU	0.25	0.05	
Routine Water					
pH - Holding Time			Exceeded		
pH	at 25 °C		7.97	0.01	7.0-10.5
Electrical Conductivity		µS/cm at 25 °C	213	1	Within Range
Calcium	Extractable mg/L	0.07	0.01		
Iron	Extractable mg/L	0.025	0.004	0.3	Below AO
Magnesium	Extractable mg/L	<0.02	0.02		
Manganese	Extractable mg/L	<0.001	0.001	0.05	Below AO
Potassium	Extractable mg/L	1.0	0.04		
Silicon	Extractable mg/L	9.4	0.005		
Sodium	Extractable mg/L	52	0.1	200	Below AO
T-Alkalinity	as CaCO3 mg/L	90	5		
Chloride	Dissolved mg/L	0.87	0.05	250	Below AO
Fluoride	Dissolved mg/L	<0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved mg/L	<0.01	0.01	10	Below MAC
Nitrite - N	Dissolved mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved mg/L	18.6	0.1	500	Below AO
Hardness	as CaCO3 (extractable) mg/L	<1.0	1		
Total Dissolved Solids	Extractable mg/L	152	1		



fraserhealth Better health.
Best in health care.

February, 2019

Water System Operators

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

Fraser Health has 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 or 1-866-749-7900.

Sincerely,

Marc Zubel
Manager, Drinking Water Program
Health Protection