

February 1, 2022

Dear: Water System Operator

Re: Annual Reporting Requirements for Permitted Water Systems

Please find enclosed a copy of the 2021 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 2021 calendar year. As per the Drinking Water Protection Act the report is required to be made available to all users by June 30th 2022.

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

Fraser Health Authority Health Protection Suite 400 2777 Gladwin Rd Abbotsford BC V2T 4V1 Canada Tel (604) 870-7900 Fax (604) 852-1558 www.fraserhealth.ca



February 1, 2022

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

Fraser Health Authority Health Protection Suite 400 2777 Gladwin Rd Abbotsford BC V2T 4V1 Canada Tel (604) 870-7900 Fax (604) 852-1558 www.fraserhealth.ca

DRINKING WATER SYSTEM ANNUAL REPORT					
Reporting Period:	January 1 st to Decen	nber 31 st , 2021			
Water System Yale & District Fire	nall Water System				
Water System Owner Fraser Valley Regional District					
Primary Contact Name (Operator or Manager)	Dave Roblin				
Phone Number (Operator or Manager) 604 702 50	27				
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 Pr	imary Disinfection?	□Yes	🛛 X No		
Chlorination	t 🗌 Ozone	Other			
If other, specify details:					
Does the Drinking Water System have Se	condary Disinfection?	🗌 Yes	🛛 No		
Chlorination					
If other, specify details:					
Does the Drinking Water System have Fil	tration?	🗌 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					
Is your ERCP up to Date?	X Yes	□ No			
How do you Inform the System Users of t					
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 t					
Hand Delivered Bulletin Board	🗌 Newspaper	🗌 Utility Bill Insert	🗴 Website		

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	s reporting period?	49		
What is the minimum required sampling frequency for this sy	vstem? (#samples/month)	4/mnth		
Additional sampling details:				
Was the minimum required sampling frequency achieved?	X Yes	🗌 No		
Comments:				
Bacteriological summary attached to this report?	X 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	No detectable Escherichia coli per 100ml	🗙 Yes	🗌 No
(for all samples)			
Total Coliform Bacteria		_	_
(if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	× Yes	L] No
Total Coliform Bacteria	No more than 10% of samples contain total		
(if more than 1 sample collected in a	coliform bacteria, and No sample has more than		
30 day period)	10 total coliform bacteria per 100ml		
	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
5/18/2021	42		Warm stagnant water	Disinfect and flush
7/13/2021	QRWRT	QRWRT		
10/26/2021	QRWRT	QRWRT		

			DRINKING WATE	R SYSTEM ANNUAL REPORT	
		OURING THIS REPORTING PERI			
-		nducted during reporting		No	
f no, when w for this syster		ical samples conducted	lf yes, ala all water s Canadian Drinking V	amples meet the Guideline Vater Quality?	es for
date)	Don't Kno	ow Never	A Yes	□ ^{No}	
	•	eet the Guidelines for Ca nal sheets if necessary.	nadian Drinking Wate	er Quality, record the result	ts in
Parameter	Result	Corrective Action / Trea	atment / Comments		
Additional Te	STING				
Does the syst	em have analyze	rs for continuous monito	r ing? 🗌 Yes	🛛 No	
lf yes, check d	all boxes that app	ly:			
Chlorine	🗌 Turb	idity 🗌 Other	(details)		
Are the resul	ts available on red	quest?			
If any additio sheets if nece	-	npling was conducted, re	cord results in the tab	le below; attach additiona	I
Additional Te	sting & Reason fo	or Sampling Correction	ve Action Taken		

WATED		
VVALER	UUALITY	COMPLAINTS

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

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

Date	Water Quality Complaint	Corrective Action / Treatment

			0	RINKING WATER SYS	TEM ANNUAL REPORT	
OPERATIONAL PR	OBLEMS					
period? (e.g. ir	y operational problem sufficient water supp uipment, line breaks,	ly, malfuncti	on of	□Yes	No 🗵	
lf yes, complet	e the table below; att	ach addition	al sheets if ne	cessary.		
Incident Date	Type of Operational	Problem	Corrective A	Action Taken		
Major Upgrad	ES/REPAIRS & EXPENSES					
Were there an	ES/REPAIRS & EXPENSES y major upgrades/rep g this reporting period	-	najor costs	☐ Yes	□ No	
Were there an incurred durin	y major upgrades/rep	d?	-		🗌 No	
Were there an incurred durin If yes, complet	y major upgrades/rep g this reporting period te the table below; att	d?	-		□ No	
Were there an incurred durin If yes, complet Major Upgrade	y major upgrades/rep g this reporting period te the table below; att	d? tach addition	-		□ No	
Were there an incurred durin If yes, complet Major Upgrade Improvements	y major upgrades/rep g this reporting period te the table below; att es/Expenses required by DWO	d? tach addition	-		□ No	
Were there an incurred durin If yes, complet Major Upgrad Improvements Additions/char	y major upgrades/rep g this reporting period te the table below; att es/Expenses required by DWO	d? tach addition	-		□ No	
Were there an incurred durin If yes, complet Major Upgrad Improvements Additions/char Purchase or in:	y major upgrades/rep g this reporting period te the table below; att es/Expenses required by DWO nges to system	d? tach addition	-		□ No	
Were there an incurred durin If yes, complet Major Upgrad Improvements Additions/char Purchase or in Equipment rep	y major upgrades/rep g this reporting period te the table below; att es/Expenses required by DWO nges to system stall new equipment	d? tach addition Details	al sheets if ne	cessary.	□ No hydrant maintenance	
Were there an incurred durin If yes, complet Major Upgrad Improvements Additions/char Purchase or in Equipment rep	y major upgrades/rep g this reporting period te the table below; att es/Expenses required by DWO nges to system stall new equipment pair or replacement nance of system	d? tach addition Details	al sheets if ne	cessary.		

FUTURE IMPROVEMENTS

Are there any plai	ns for future	e improvements?
	is jui juiuit	

🗌 Yes

🗴 No

7

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

Future Upgrades or Improvements	Estimated Date of Completion

DATE COMPLETED: March 31 2021	COMPLETED BY: Dave Roblin

Sample Range Report

ana - 191

Fraser Health Authority

Facility Name: Date Range:	Yale & District Volunteer Jan 1 2021 to Dec 31 202			
Operator	Dave Roblin 45950 Cheam Ave Chilliwack, BC V2P 1N6			
Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>Kitchen Tap</u> Volunteer Fire Ha 28555 Trans Cana <u>Hwy</u>				
<u>1 100 y</u>	1-5-2021 7:45:00 AM	LT1	LT1	
	1-12-2021 6:45:00 AM	LT1	LT1	
	1-19-2021 7:05:00 AM	LT1	LT1	
	1-26-2021 7:30:00 AM	LT1	LT1	
	2-2-2021 9:45:00 AM	LT1	LT1	
	2-9-2021 7:10:00 AM	LT1	LT1	
	2-16-2021 6:50:00 AM	LT1	LT1	
	2-23-2021 6:55:00 AM	LT1	LT1	
	3-2-2021 7:00:00 AM	LT1	LT1	
	3-9-2021 6:50:00 AM	LT1	LT1	
	3-16-2021 7:00:00	LT1	LT1	
	AM 3-23-2021 8:45:00	LT1	LT1	
	AM 3-30-2021 6:30:00 AM	LT1	LT1	
	4-6-2021 8:40:00 AM	LT1	LT1	
	4-13-2021 9:20:00 AM	LT1	LT1	
	4-20-2021 8:15:00 AM	LT1	LT1	
	4-27-2021 7:30:00 AM	LT1	LT1	
	5-4-2021 8:00:00 AM	LT1	LT1	
	5-11-2021 8:35:00 AM	LT1	LT1	
	5-18-2021 8:30:00 E	STCT 42 ESTHCD	LT1	
	5-25-2021 8:15:00 AM	LT1	LT1	
	6-1-2021 8:00:00 AM	LT1	LT1	
	6-8-2021 9:05:00 AM	LT1	LT1	

Result Values: Samples that co	E - estimated	L - less than	2.0	G - greater than
	Total Positive:	1	2	0
	12-20-2021 7:30:00 AM	<u>LT1</u>	<u>LT1</u>	0
	12-14-2021 8:00:00 AM	LT1	LT1	
	12-7-2021 8:50:00 AM	LT1	LT1	
	11-30-2021 10:45:00 AM	LT1	LT1	
	11-9-2021 8:15:00 AM	LT1	LT1	
	AM 11-2-2021 8:10:00 AM	LT1	LT1	
	AM 10-26-2021 8:45:00	QRWRT	QRWRT	
	AM 10-19-2021 7:40:00	LT1	LT1	
	AM 10-12-2021 9:00:00	LT1	LT1	
	AM 10-5-2021 8:45:00	LT1	LT1	
	AM 9-28-2021 8:45:00	LT1	LT1	
	AM 9-21-2021 8:55:00	LT1	LT1	
	9-7-2021 9:00:00 AM 9-14-2021 9:05:00	LT1 LT1	LT1 LT1	
	8-31-2021 8:40:00 AM	LT1	LT1	
	8-24-2021 7:45:00 AM	LT1	LT1	
	8-17-2021 6:20:00 AM	LT1	LT1	
	8-3-2021 9:00:00 AM 8-10-2021 8:05:00 AM	LT1 LT1	LT1 LT1	
	7-27-2021 8:50:00 AM	LT1	LT1	
	7-20-2021 8:35:00 AM	LT1	LT1	
	7-6-2021 7:50:00 AM 7-13-2021 8:15:00 AM	LT1 QRWRT	LT1 QRWRT	
	6-29-2021 8:45:00 AM	LT1	LT1	
	6-22-2021 9:25:00 AM	LT1	LT1	
	6-15-2021 8:15:00 AM	LT1	LT1	

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Samples that contain total coliform:	1	2.04% of total
Samples that contain e. coli:	2	4.08% 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:	49	

Comments:

Environmental Health Officer Jan 27 2022

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



Element #104, 19575-55 A Ave. Surrey, British Columbia V3S 8P8. Canada Page 3 of 8

F: +1 (604) 514-3323 E: info.vancouver@element.com

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Analytical Re	eport					
Bill To:	Fraser Valley Regional Distric 1 - 45950 Cheam Ave. Chilliwack, BC, Canada	t Project ID: Project Name: Project Location:	Chem/Physical Canyon		Lot ID: 15766 I Number: Received: Jun 7, 20	
	V2P 1N6	LSD:			Reported: Jun 10, 2	
Attn:	Accounts Payable	P.O.:			t Number: 2755649	
Sampled By:	Mathew Teschke	Proj. Acct. code:		(opor		
Company:						
		Reference Number	1576645-3			
		Sample Date	June 07, 2022			
		Sample Time	08:20			
		Sample Location				
	:	Sample Description	Yale District Fi	rehall / Kitchen Tap /		
		Sample Matrix	Drinking Water			
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extracta	ble					
Aluminum	Extractable	mg/L	<0.001	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	0.00017	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0021	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0001	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	0.005	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.007	Below MAC
Chromium	Extractable	mg/L	<0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.012	0.0005	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.00017	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.0002	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	0.00007	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00006	0.00005		
Zinc	Extractable	mg/L	0.015	0.0005	5.0	Below AO
Physical and Ag	ggregate Properties					
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.75	0.1	0.1/0.3/1.0 OG	
Routine Water						
pH - Holding Tir	ne		Exceeded			
pН	at 25 °C		8.13	0.01	7.0-10.5	Within Range
Electrical Condu	uctivity	µS/cm at 25 °C	237	1		
Calcium	Extractable	mg/L	0.08	0.01		
Iron	Extractable	mg/L	0.087	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	<0.02	0.02		
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	0.07	0.04		
Silicon	Extractable	mg/L	9.6	0.005	000	Delas AC
Sodium	Extractable	mg/L	53	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	102	5	050	Dalam A.C
Chloride	Dissolved	mg/L	0.65	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.06	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	19.9	0.1	500	Below AO
Hardness Total Dissolved	as CaCO3 (extractable) Solids Extractable	mg/L mg/L	<1.0 161	1	500	Below AO
		mg/L	101	'	000	DOW AU