

March 6, 2023

Dear: Water System Operator

Re: Annual Reporting Requirements for Permitted Water Systems

Please find enclosed a copy of the 2022 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 2022 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 <u>david.fowler@fraserhealth.ca</u> 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 david.fowler@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,

David Feren

David Fowler

Environmental Health Officer, Fraser Health Authority

David.fowler@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

	Annual Report			
Reporting Period:		January 1 st to Decem	nber 31 st , 2022 (year)	
Water System Deroch	ne Water System			
Water System Owner	Fraser Valley Regiona	al District		
Primary Contact Name	(Operator or Manager) Dav	ve Roblin		
Phone Number (Operato	or or Manager) 604 702 5027			
E-mail (Operator or Manage	er) droblin@fvrd.ca			
Describe your Water Su	PPLY SYSTEM			
What is the Source(s) o	of Raw Water?			
X Deep Well	O Shallow Well	D Surface Water	D Other	
If other, specify details	:			
Does the Drinking Wa	uter System have Prim	ary Disinfection?	Yes	XNo
D Chlorination	$D \mbox{Ultraviolet Light}$	D Ozone	D Other	
If other, specify details	:			
Does the Drinking Wo	ater System have Seco	ondary Disinfection?	Yes	XNo
D Chlorination	☐ Ot her			
If other, specify details:	:			
Does the Drinking Wo	ater System have Filtr	ration?	Yes	X _{No}
Check all boxes that apply	7			
D Cartridge Filter(s)	D Carbon Filter	D Sand Filtration	D Reverse Osmosis	D Other
If other, specify details:	:			
Public Reporting			州区省省市第一省 。	推議實際的 4.20%
Emergency Response	& Contingency Plan (ERCP)		
Is your ERCP up to Date	te?	X Yes	□ No	
How do you Inform the	· ·	_		
D Hand Delivered	D Bulletin Board	D Newspaper	0 Utility Bill Insert	X Website
D Other (specify detai	ils)			
Drinking Water System	n Annual Report			
How do you Inform th	_	_		
Hand Delivered	O Bulletin Board	D Newspaper	0 Utility Bill Insert	X Website
D Other (specify detail	ls)			

impliance with Operating Penxi				
List the conditions that have be	een placed on your Operating Permit _{{if you} h	ove_conditionsthese_wil	be stated on your perm	<u>it):</u>
Are you in compliance with the	e conditions fisted an your Operating Perm	nit? X Yes	D No ON	/A
cheriological Teshing and Drin	IKING WATER PROTECTION REGULATION WATER	QUALITY STANDAR	DS AFT FIRE	
	uples were collected during this reporting pe		96	
	d sampling frequency for this system? (#sa		4	
Additional sampling details:				
Vas the minimum required so	ampling frequency achieved? Xy	es	□No	
Comm ents :				
Bacteriological summary att	ached to this report?	'es	XNo	
f no, how do the users of the an angle of the second	system view the results? Call			
		(15) (15) (15) (15) (15) (15) (15) (15)		\$241 e (0 + 10 + 10 + 10 + 10 + 10 + 10 + 10 +
ATTER QUALITY STANDARDS FOR PO	DEAGUE WATER		TO SHEET ME	
Parameter:	Standard:	Did this syste	m meet standard	?
Escherichia coli for all <u>samples)</u>	No detectable Escherichia coli per 100ml	X _{Yes}	□ No	
Total Coliform Bacteria				
f only 1 sample collected in a 30	No detectable total coliform bacteria per 100ml	XYes	0No	
otal Coliform Bacteria	No more than 10% of samples contain total	_		
if more than 1 sample collected in a 0 day period)	coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	☐ Ye s	XNo	

Date	TC/l00ml	E.coli/l00ml Reason	Corrective Action
7/19/2022	16	Warm water	Flushed system and disinfected
8/2/2022	3	Warm water	Flushed system and disinfected
8/9/2022	2	Warm water	Flushed system and disinfected
8/23/2022	25,8	Warm water	Flushed system and disinfected
9/13/2022 10/25/2022	2 2	Warm water	Flushed system and disinfected

Revised March 2016

DRINKING WATER SYSTEM ANNUAL REPORT

II/ 1		URING THIS REPORTING	Irenies a la	· 大学 大学 法 在		多数等於
was any chen	nical sampling c	conducted during rep	orting period? X	Yes	ONo	
If no, when w		nical samples conduc	ted If yes, did all v Canadian Drir		s meet the Guidelin Quality?	es for
(date)	D Don't K	now 0 Never	XYes	2	□No	
	•	meet the Guidelines f tional sheets if neces.	or Canadian Drinking sary.	g Water Qual	ity, record the rest	ults in
Parameter	Result	Corrective Action /Treatment/ Comments				
		WW. 1994.23 1310				
TERLY TOWNSON						埃里特勒
Does the syste	em have analyze	rs for continuous mo	nitoring?	Yes	XNo	
If yes, check a	all boxes that app	ply:				
Chlorine	O Turk	oidity 0 O	Other (details)			
Are the result	es available on re	aguast?				
	s available on re	equest:				
	onal testing or so		ed, record results in th	he table belo	w; attach additiond	ul
sheets if nece	nal testing or so ssary.	umpling was conduct	ed, record results in the	he table belo	w; attach additiond	ıl
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Additional Te Additional Te Water Quanty Were there as period? (e.g. If yes, comple	Computations To water quality taste, odour, con	for Sampling Conductor for Sampling Conductor complaints in this relation and the conductor and the	rrective Action Taken reporting all sheets if necessary.	Yes		

DRINKING WATER SYSTEM ANNUAL	REPORT FILE

	TERRETOR AT STATE				
PERATIONAL PROBLEMS					
Were there any operational problem period? (e.g. insufficient water supdisinfection equipment, line breaks,	ply, malfunction	of	☐Yes	XNo	
If yes, complete the table below; atta	ch additional she	ets if necessar	y.		
ncident Date Type of Operational Problem Corrective A tionTaken					
Major Upgrades/Repairs & Expenses					
Were there any major upgrades/rep incurred during this reporting period		r costs	Yes	XNo	
If yes, complete the table below; attach	ch additional she	ets if necessary	у.		
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 impro	vements?		Yes	XNo	
If yes, complete the table below; atta	ach additional s	neets if necess	ary.		
Future Upgrades or Improvements Estimated Date of Completion					
DATE COMPLETED: May 23, 2023 COMPLETED BY: Dave Roblin					

Sample Range Report

Fraser Health Authority

Facility Name: Date Range:

Deroche Water System Jan 1 2022 to Dec 31 2022

Operator

Fraser Valley Regional District

45950 Cheam Ave Chilliwack, BC V2P 1N6

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
6 Well, 41651 Nort	<u>h</u>			
Deroche Rd	2-15-2022 9:30:00	LT1	LT1	
	AM 3-8-2022 9:45:00 AM	LT1	LT1	
	3-29-2022 10:30:00 AM	LT1	LT1	
	4-19-2022 10:30:00	LT1	LT1	
	AM 5-10-2022 10:25:00	LT1	LT1	
	AM 5-31-2022 11:00:00	LT1	LT1	
	AM 6-21-2022 10:00:00	LT1	LT1	
	AM 7-12-2022 10:00:00 AM	LT1	LT1	
	8-2-2022 10:15:00 AM	LT1	LT1	
	8-23-2022 10:00:00 AM	8	LT1	
	8-30-2022 9:55:00 AM	LT1	LT1	
	9-13-2022 10:00:00 AM	2	LT1	
	9-20-2022 9:15:00	LT1	LT1	
	AM 10-4-2022 10:00:00	LT1	LT1	
	AM 10-25-2022 9:15:00	LT1	LT1	
	AM 11-15-2022 10:30:00	LT1	LT1	
	AM 12-6-2022 10:00:00	QRWRT	QRWRT	
	AM Total Positive:	2	1	0
Result Values:	E - estimated	L - less than	G -	greater than
Samples that conta	ain total coliform: 2 ain e. coli: 1			% of total of total

Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that	0	
contain total coliform:		
Number of samples that contain total	0/0	
coliform in last 30 days:		
Total number of samples:	17	

Comments:

Environmental Health Officer Feb 1 2023

FOR FURTHER INFORMATION PLEASE CALL: David Fowler



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E: info.vancouver@element.com

W: www.element.com

Analytical Report

Bill To: Fraser Valley Regional District

Project ID:

LSD:

Lot ID: 1654374

1 - 45950 Cheam Ave. Chilliwack, BC, Canada Project Name: Chem/Phys

Control Number:

V2P 1N6

Project Location: Northside

Date Received: May 30, 2023 Jun 6, 2023

Attn: Accounts Payable Sampled By: B.Kafi

P.O.: Proj. Acct. code:

Date Reported: Report Number: 2878158

Company: **FVRD**

Reference Number

1654374-4

Sample Date Sample Time May 30, 2023 10:00

Sample Location

Sample Description

Deroche Well / 6.6 °C

Sample Matrix

Drinking Water

		Cample Matrix	Dilliking Wate	···		
Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Silicon	Extractable	mg/L	3.89	0.05		
Aluminum	Extractable	mg/L	0.003	0.002	0.1 OG; 2.9 MAC	Below OG
Antimony	Extractable	mg/L	< 0.0002	0.0002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0002	0.0002	0.01	Below MAC
Barium	Extractable	mg/L	0.003	0.001	2.0	Below MAC
Boron	Extractable	mg/L	0.009	0.002	5	Below MAC
Cadmium	Extractable	mg/L	< 0.00001	0.00001	0.007	Below MAC
Chromium	Extractable	mg/L	< 0.0005	0.0005	0.05	Below MAC
Copper	Extractable	mg/L	0.001	0.001	1 AO; 2 MAC	Below AO
Lead	Extractable	mg/L	0.0001	0.0001	0.005	Below MAC
Selenium	Extractable	mg/L	< 0.0002	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.013	0.001	7.0	Below MAC
Uranium	Extractable	mg/L	< 0.0005	0.0005	0.02	Below MAC
Vanadium	Extractable	mg/L	0.0001	0.0001		
Zinc	Extractable	mg/L	0.006	0.001	5	Below AO
Physical and Aggregate	Properties					
Colour	Apparent, Potable	Colour units	<5	5	15	Below AO
Turbidity		NTU	0.2	0.1	0.1/0.3/1.0 OG	
Routine Water						
pH			6.57	1	7.0-10.5	Below OG Range
Electrical Conductivity	at 25 °C	μS/cm	35	1		
Calcium	Extractable	mg/L	3.6	0.2		
Magnesium	Extractable	mg/L	0.7	0.2		
Sodium	Extractable	mg/L	2.1	0.4	200	Below AO
Potassium	Extractable	mg/L	0.4	0.4		
Iron	Extractable	mg/L	<0.01	0.01	0.3	Below AO
Manganese	Extractable	mg/L	<0.005	0.005	0.02 AO; 0.12 MAC	Below AO
Chloride	Dissolved	mg/L	1.5	0.4	250	Below AO
Fluoride		mg/L	< 0.05	0.05	1.5	Below MAC
Nitrate - N		mg/L	0.24	0.01	10	Below MAC
Nitrite - N		mg/L	< 0.005	0.005	1	Below MAC
Sulfate (SO4)	Extractable	mg/L	3	0.9	500	Below AO
T-Alkalinity	as CaCO3	mg/L	12	5		
Total Dissolved Solids		mg/L	18	1	500	Below AO
Hardness	as CaCO3	mg/L	12			