DRINKING WATER SYSTEM ANNUAL REPORT			
Reporting Period:	January 1 st to Decer	nber 31 st , (year)	
Water System			
Water System Owner			
Primary Contact Name (Operator or Manager)			
Phone Number (Operator or Manager)			
E-mail (Operator or Manager)			
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 Prin	mary Disinfection?	🗌 Yes	🗌 No
Chlorination	🗌 Ozone	🗌 Other	
If other, specify details:			
Does the Drinking Water System have Sec	ondary Disinfection?	🗌 Yes	🗌 No
Chlorination Other			
If other, specify details:			
Does the Drinking Water System have Filt	ration?	🗌 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 th	e 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 th	-		
Hand Delivered Bulletin Board	🗌 Newspaper	🗌 Utility Bill Insert	🗌 Website
Other (specify details)			

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List the conditions that have been placed on your Operating Permit (if you have conditions, these will be stated on your permit): $\square N/A$ Are you in compliance with the conditions listed on 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? What is the minimum required sampling frequency for this system? (#samples/month) 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 Escherichia coli per 100ml	🗌 Yes	🗌 No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	🗌 Yes	🗌 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	🗌 Yes	🗌 No

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

DRINKING WATER SYSTEM ANNUAL REPORT PAGE 3 OF 4

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD					
Was any chemical sampling conducted during reporting period? Yes No					
					ples meet the Guidelines for
for this system?			Canaaian	Drinking Wate	er Quality?
(date)	🗌 Don't Know	🗌 Never	🗌 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				

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	□ Yes	□ 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

DRINKING WATER SYSTEM ANNUAL REPORT PAGE 4 OF 4

OPERATIONAL PR	OPERATIONAL PROBLEMS							
period? (e.g. in	Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of Yes INO disinfection equipment, line breaks, elevated turbidity etc.).							
If yes, complete	If yes, complete the table below; attach additional sheets if necessary.							
Incident Date	Type of Operational	Problem	Corrective Ac	tion Taken				
MAJOR UPGRADE	S/REPAIRS & EXPENSES							
	Were there any major upgrades/repairs or any major costs incurred during this reporting period?							
lf yes, complete	e the table below; att	ach additiond	al sheets if nece	essary.				
Major Upgrade	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:	COMPLETED BY:

Sample Range Report

Fraser Health Authority

Facility Name: Date Range:	Village of Harrison Hot S Jan 1 2023 to Dec 31 20			
Operator	Tyler Simmonds Box 160, 495 Hot Spring Harrison Hot Springs, B0	ls Rd C VOM 1K0		
Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>Kitchen Tap, 98</u> <u>Rockwell Dr</u>	3			
	1-3-2023 11:00:00 AM	LT1	LT1	
	AM 1-16-2023 10:00:00 AM	LT1	LT1	
	AM 1-30-2023 10:00:00 AM	LT1	LT1	
	2-13-2023 10:00:00 AM	QRWRT	QRWRT	
	2-27-2023 10:00:00 AM	LT1	LT1	
	3-13-2023 9:00:00 AM	LT1	LT1	
	4-3-2023 8:00:00 AM	LT1	LT1	
	4-17-2023 8:00:00 AM	LT1	LT1	
	5-1-2023 10:15:00 AM	LT1	LT1	
	5-15-2023 9:30:00 AM	LT1	LT1	
	5-30-2023 12:06:00 PM	LT1	LT1	
	6-12-2023 10:55:00 AM	LT1	LT1	
	7-4-2023 10:45:00 AM	LT1	LT1	
	7-17-2023 11:45:00 AM	LT1	LT1	
	7-31-2023 11:00:00 AM	LT1	LT1	
	8-14-2023 10:45:00 AM	LT1	LT1	
	9-5-2023 10:40:00 AM	LT1	LT1	
	9-18-2023 10:55:00 AM	LT1	LT1	
	10-3-2023 10:30:00 AM	LT1	LT1	
	10-16-2023 11:00:00 AM	LT1	LT1	

	10-30-2023 11:1	5:00	LT1	LT1	
	AM				
	11-14-2023 10:2 AM	0:00	LT1	LT1	
	12-4-2023 10:40 AM	:00	LT1	LT1	
	12-18-2023 10:40 AM	D:00	<u>LT1</u>	<u>LT1</u>	
	Total Positive):	0	0	0
AUDIT Kitchen Tap 98 Rockwell Drive	<u>ل</u> ــــ				
	10-11-2023 11:30 AM):00	LT1	LT1	
	10-11-2023 Total Positive		0	0	•
	TOTAL F OSITIVE	•		0	0
Result Values:	E - estimate	d	L - less than	G - gr	eater than
Samples that conta	in total coliform:	0		0.00% (of total
Samples that contain	in e. coli:	0		0.00% d	
Samples that contain	in fecal coliform:	0		0.00% (
Number of consecu	tive samples that	0			
contain total coliforn	n:				
Number of samples coliform in last 30 di	ays:	0/0			
Total number of sar	nples:	26			

Comments:

Environmental Health Officer Jan 25 2024

FOR FURTHER INFORMATION PLEASE CALL: David Fowler

Work Order	: VA23B4198	Page	: 1 of 4
Client	: Village of Harrison Hot Springs	Laboratory	: Vancouver - Environmental
Contact	: Tyler Simmonds	Account Manager	: Sneha Sansare
Address	PO Box 160 495 Hot Springs Road	Address	8081 Lougheed Highway
Talanhona	Harrison Hot Springs BC Canada VOM 1K0	Talanhona	Burnaby BC Canada V5A 1W9 • ±1 604 253 4188
Project	WTP June 2023	Date Samples Received	22-11un-2023 12-15
PO	19520	Date Analysis Commenced	: 22-Jun-2023
C-O-C number		Issue Date	: 04-Jul-2023 17:27
Sampler			
Site			
Quote number	: Quote for Harrison Hot Springs		
No. of samples received	. 4		
No. of samples analysed	÷ 4		
 his Certificate of Analysis c General Comments Analytical Results 	This Certificate of Analysis contains the following information: General Comments Analytical Results		
Additional information pertinent Sample Receipt Notification (SRN)	to this report will be found in the following	rate attachments: Quality Control R	separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and
Signatories			
This document has been e	This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.	signing is conducted in accordance with	US FDA 21 CFR Part 11.
Signatories	Position	Laboratory Department	
Caitlin Macey Katrina Zwambag Kevin Duarte Owen Cheng Tracy Harley	Team Leader - Inorganics Supervisor - HPLC Supervisor - Metals ICP Instrumentation Supervisor - Water Quality Instrumentation	Microbiology, Burnaby, British Columbia LCMS, Waterloo, Ontario Metals, Burnaby, British Columbia Metals, Burnaby, British Columbia Ihorganics, Burnaby, British Columbia	tish Columbia olumbia h Columbia

2 of 4	VA23B4198	Village of Harrison Hot Springs	WTP June 2023
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General Comments

ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances LOR: Limit of Reporting (detection limit).

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWSE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

3 of 4 VA23B4198 Village of Harrison Hot Springs WTP June 2023 Page Work Order

Client

Sub-Matrix: Drinking Water

Sub-Matrix: Drinking Water			Ö	Client sample ID	RAW Water	Treated Water	Peace Park	Art Gallery	I
(Matrix: Water)									
			Client samp	Client sampling date / time	22-Jun-2023	22-Jun-2023	22-Jun-2023	22-Jun-2023	1
Analyte	CAS Number	Method/Lab	LOR	Unit	VA23B4198-001	VA23B4198-002	VA23B4198-003	VA23B4198-004	
				<u> </u>	Result	Result	Result	Result	
Physical Tests									
Alkalinity, total (as CaCO3)		E290/VA	1.0	mg/L	15.9	15.8	16.0	31.0	
Colour, true		E329/VA	5.0	сU	<5.0	<5.0	<5.0	<5.0	I
Conductivity		E100/VA	2.0	µS/cm	48.8	53.5	53.7	83.7	-
Hd		E108/VA	0.10	pH units	7.45	7.46	7.46	7.56	-
Solids, total dissolved [TDS]		E162/VA	10	mg/L	56	60	60	77	
Turbidity		E121/VA	0.10	NTU	0.66	<0.10	<0.10	0.49	
Hardness (as CaCO3), from total Ca/Mg		EC100A/VA	0.60	mg/L	20.9	20.7	20.2	34.3	
Anions and Nutrients									
Chloride	16887-00-6 E235.CI/VA	E235.CI/VA	0.50	mg/L	0.63	1.69	1.70	2.36	
Fluoride	16984-48-8 E235.F/VA	E235.F/VA	0.020	mg/L	<0.020	<0.020	0.023	0.020	
Nitrate (as N)	14797-55-8	14797-55-8 E235.NO3-L/V	0.0050	mg/L	0.0633	0.0668	0.0672	0.123	
	-	A		:					
Nitrite (as N)	14797-65-0	14797-65-0 E235.NO2-L/V	0.0010	mg/L	<0.0010	<0.0010	<0.0010	0.0029	
Sulfate (as SO4)	14808-79-8	14808-79-8 E235.SO4/VA	0.30	mg/L	5.09	5.13	5.23	6.29	I
Microbiological Tests									
Coliforms, thermotolerant [fecal]		E012.FC/VA	-	CFU/100mL	۲ ۲	۲. ۲	۲ ۲	~	
Coliforms, total		E010/VA	-	MPN/100mL	ω	Ŷ	∑ ∠	₹	
Coliforms, Escherichia coli [E. coli]	I	E010/VA		MPN/100mL	ř	Ý	Ŷ	Ŷ	
Total Metals									
Aluminum, total	7429-90-5 E420/VA	E420/VA	0.0100	mg/L	0.0503	0.0134	0.0131	<0.0100	
Antimony, total	7440-36-0 E420/VA	E420/VA	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	
Arsenic, total	7440-38-2 E420/VA	E420/VA	0.00010	mg/L	0.00022	0.00018	0.00018	0.00020	
Barium, total	7440-39-3 E420/VA	E420/VA	0.0200	mg/L	<0.0200	<0.0200	<0.0200	<0.0200	
Boron, total	7440-42-8 E420/VA	E420/VA	0.100	mg/L	<0.100	<0.100	<0.100	<0.100	
Cadmium, total	7440-43-9 E420/VA	E420/VA	0.000200	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	
Calcium, total	7440-70-2 E420/VA	E420/VA	0.100	mg/L	7.12	7.04	6.89	12.2	
Chromium, total	7440-47-3 E420/VA	E420/VA	0.00200	mg/L	<0.00200	<0.00200	<0.00200	<0.00200	
Copper, total	7440-50-8 E420/VA	E420/VA	0.00100	mg/L	<0.00100	0.00430	0.00137	0.107	
Iron, total	7439-89-6 E420/VA	E420/VA	0.030	mg/L	0.035	<0.030	<0.030	0.329	



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4 of 4	VA23B4198	Village of Harrison Hot Springs	WTP June 2023	
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Analytical Results

Water
Drinking
Sub-Matrix:

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Sub-Matrix: Drinking Water		Clier	Client sample ID	RAW Water	Troated Water	Doaro Dark	Art Callen	
(Matrix: Water)					5		6.0	
		Client sampling date / time	g date / time	22-Jun-2023	22-Jun-2023	22-Jun-2023	22-Jun-2023	
Analyte	CAS Number Method/Lab	LOR	Unit	VA23B4198-001	VA23B4198-002	VA23B4198-003	VA23B4198-004	
				Result	Result	Result	Result	
Total Metals								
Lead, total	7439-92-1 E420/VA	0.000500	mg/L	<0.000500	<0.000500	<0.000500	0.00888	
Magnesium, total	7439-95-4 E420/VA	0.100	mg/L	0.765	0.766	0.739	0.943	
Manganese, total	7439-96-5 E420/VA	0.00200	mg/L	<0.00200	<0.00200	<0.00200	0.108	
Mercury, total	7439-97-6 E508/VA	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Potassium, total	7440-09-7 E420/VA	0.100	mg/L	0.700	0.681	0.665	0.811	
Selenium, total	7782-49-2 E420/VA	0.00100	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	
Sodium, total	7440-23-5 E420/VA	2.00	mg/L	<2.00	2.41	2.37	2.35	
Uranium, total	7440-61-1 E420/VA	0.000100	mg/L	<0.000100	<0.000100	<0.000100	<0.000100	
Zinc, total	7440-66-6 E420/VA	0.0500	mg/L	<0.0500	<0.0500	<0.0500	0.563	
Haloacetic Acids								
Bromochloroacetic acid	5589-96-8 E750/WT	1.00	hg/L		<1.00	<1.00		
Bromodichloroacetic acid	7113-14-7 E750/WT	1.00	hg/L		<1.00	<1.00		
Chlorodibromoacetic acid	5278-95-5 E750/WT	1.00	hg/L		<1.00	<1.00		
Dalapon	75-99-0 E750/WT	1.00	hg/L		<1.00	<1.00		
Dibromoacetic acid	631-64-1 E750/WT	1.00	hg/L	1	<1.00	<1.00		1
Dichloroacetic acid	79-43-6 E750/WT	1.00	hg/L		12.1	9.69		
lodoacetic acid	64-69-7 E750/WT	1.00	hg/L	1	<1.00	<1.00		
Monobromoacetic acid	79-08-3 E750/WT	1.00	hg/L		<1.00	<1.00		
Monochloroacetic acid	79-11-8 E750/WT	1.00	hg/L	I	<1.00	<1.00		
Tribromoacetic acid	75-96-7 E750/WT	1.00	hg/L	1	<1.00	<1.00		1
Trichloroacetic acid	76-03-9 E750/WT	1.00	hg/L	1	16.3	17.7		
Haloacetic acids, total [HAA5]	E750/WT	5.00	hg/L		28.4	27.4		
Haloacetic acids, total [HAA7]	E750/WT	5.00	hg/L		28.4	27.4		

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



February 1, 2024

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

Village of Harrison Hot Springs

	Water Sample Schedule 2024					
Date	Site 1	Site 2	Site 3			
January						
2	290 Esplanade	459 naismith	98 Rockwell Dr			
8	Beach Washrooms	526 Driftwood				
15	Public Works Office	973 Hotsprings Rd/Tap	98 Rockwell Dr			
22	Peace Park	Community Garden				
29	170 Cedar	442 Pine	98 Rockwell Dr			
Febuary						
5	Boatlaunch Washrooms	843 Myng				
12	Echo (Spring Park)	Water Treatment Plant	98 Rockwell Dr			
20	290 Esplanade	459 naismith				
26	Beach Washrooms	526 Driftwood	98 Rockwell Dr			
March						
4	Public Works Office	973 Hotsprings Rd/Tap				
11	Peace Park	Community Garden	98 Rockwell Dr			
18	170 Cedar	442 Pine				
25	Boatlaunch Washrooms	843 Myng	98 Rockwell Dr			
April						
2	Echo (Spring Park)	Water Treatment Plant				
8	290 Esplanade	459 naismith	98 Rockwell Dr			
15	Beach Washrooms	526 Driftwood				
22	Public Works Office	973 Hotsprings Rd/Tap	98 Rockwell Dr			
29	Peace Park	Community Garden				
May						
6	170 Cedar	442 Pine		Lake Samples x5		
13	Boatlaunch Washrooms	843 Myng	98 Rockwell Dr	Lake Samples x5		
21	Echo (Spring Park)	Water Treatment Plant		Lake Samples x5		
27	290 Esplanade	459 naismith	98 Rockwell Dr	Lake Samples x5		
June						
3	Beach Washrooms	526 Driftwood		Lake Samples x5		
10	Public Works Office	973 Hotsprings Rd/Tap	98 Rockwell Dr	Lake Samples x5		
17	Peace Park	Community Garden		Lake Samples x5		
24	170 Cedar	442 Pine	98 Rockwell Dr	Lake Samples x5		
July						
2	Boatlaunch Washrooms	843 Myng		Lake Samples x5		
8	Echo (Spring Park)	Water Treatment Plant	98 Rockwell Dr	Lake Samples x5		
15	290 Esplanade	459 naismith		Lake Samples x5		
22	Beach Washrooms	526 Driftwood	98 Rockwell Dr	Lake Samples x5		
29	Public Works Office	973 Hotsprings Rd/Tap		Lake Samples x5		
August						
6	Peace Park	Community Garden	98 Rockwell Dr	Lake Samples x5		
12	170 Cedar	442 Pine		Lake Samples x5		
19	Boatlaunch Washrooms	843 Myng	98 Rockwell Dr	Lake Samples x5		
26	Echo (Spring Park)	Water Treatment Plant		Lake Samples x5		

Village of Harrison Hot Springs

Water Sample Schedule 2024

	<u></u>			<u></u>
September				
3	290 Esplanade	459 naismith	98 Rockwell Dr	Lake Samples x5
9	Beach Washrooms	526 Driftwood		Lake Samples x5
16	Public Works Office	973 Hotsprings Rd/Tap	98 Rockwell Dr	Lake Samples x5
23	Peace Park	Community Garden		Lake Samples x5
October				
1	170 Cedar	442 Pine	98 Rockwell Dr	
7	Boatlaunch Washrooms	843 Myng		
14	Echo (Spring Park)	Water Treatment Plant	98 Rockwell Dr	
21	290 Esplanade	459 naismith		
28	Beach Washrooms	526 Driftwood	98 Rockwell Dr	
November				
4	Public Works Office	973 Hotsprings Rd/Tap		
12	Peace Park	Community Garden	98 Rockwell Dr	
18	170 Cedar	442 Pine		
25	Boatlaunch Washrooms	843 Myng	98 Rockwell Dr	
December				
2	Echo (Spring Park)	Water Treatment Plant		
9	290 Esplanade	459 naismith	98 Rockwell Dr	
16	Beach Washrooms	526 Driftwood		
23	Public Works Office	973 Hotsprings Rd/Tap	98 rockwell Dr	
30	Peace Park	Community Garden		