

Client/Code

Cobble Hill Improve. District
 P.O. Box 27
 Cobble Hill, BC
 V0R 1L0

Date 04Feb20 3:51p No. W152281
 Source Well
 Type of Sample water
 No. of Samples 2

TEL: (250) 743-2861
 1979chid@gmail.com

Comments Arrival temp.: 7.0C
 Sampler: Alan Seal

Samples: 1) Fisher Road Well Hd 04Feb20 09:26a 2) Holland Well Head 04Feb20 09:38a

ELEMENTS		1 2		UNITS	Maximum Limits Permissible
		SAMPLE	SAMPLE		In Drinking Water*
1) Aluminium	Al	0.289	0.524	mg/L	no limit listed
2) Antimony	Sb	<0.500	<0.500	ug/L	6.00 ug/L
3) Arsenic	As	<0.500	<0.500	ug/L	10.0 ug/L
4) Barium	Ba	<0.009	0.010	mg/L	1.00 mg/L
5) Beryllium	Be	<0.003	<0.003	mg/L	no limit listed
6) Bismuth	Bi	<0.100	<0.100	ug/L	no limit listed
7) Boron	B	0.468	0.403	mg/L	5.00 mg/L
8) Cadmium	Cd	<0.010	<0.010	ug/L	5.00 ug/L
9) Calcium	Ca	17.3	40.0	mg/L	200 mg/L
10) Chromium	Cr	<0.010	<0.010	mg/L	0.050 mg/L
11) Cobalt	Co	<0.020	<0.020	mg/L	no limit listed
12) Copper	Cu	<0.008	<0.008	mg/L	1.00 mg/L
13) Gold	Au	<0.040	<0.040	mg/L	no limit listed
14) Iron	Fe	0.055	0.210	mg/L	0.300 mg/L
15) Lanthanum	La	<0.020	<0.020	mg/L	no limit listed
16) Lead	Pb	<0.500	<0.500	ug/L	5.00 ug/L
17) Lithium	Li	<0.100	<0.100	ug/L	no limit listed
18) Magnesium	Mg	8.25	7.29	mg/L	50.0 mg/L
19) Manganese	Mn	0.005	0.014	mg/L	0.120 MAC 0.020 AO
20) Mercury	Hg	<0.010	<0.010	ug/L	1.00 ug/L
21) Molybdenum	Mo	<0.020	<0.020	mg/L	no limit listed
22) Nickel	Ni	<0.050	<0.050	mg/L	no limit listed
23) Phosphorus	P	0.095	0.240	mg/L	no limit listed
24) Potassium	K	0.670	0.720	mg/L	no limit listed
25) Scandium	Sc	<0.050	<0.050	mg/L	no limit listed
26) Selenium	Se	<0.500	<0.500	ug/L	5.0 ug/L
27) Silicon	Si	11.2	10.4	mg/L	no limit listed
28) Silver	Ag	<0.010	<0.010	mg/L	no limit listed
29) Sodium	Na	5.63	7.27	mg/L	200 mg/L
30) Strontium	Sr	0.080	0.090	mg/L	no limit listed
31) Tin	Sn	<0.020	<0.020	mg/L	no limit listed
32) Titanium	Ti	<0.010	<0.010	mg/L	no limit listed
33) Tungsten	W	<0.050	<0.050	mg/L	no limit listed
34) Uranium	U	<0.100	<0.100	ug/L	100 ug/L
35) Vanadium	V	<0.010	<0.010	mg/L	no limit listed
36) Zinc	Zn	0.019	0.036	mg/L	5.00 mg/L
37) Zirconium	Zr	<0.100	<0.100	ug/L	no limit listed
Hardness (mg/L CaCO ₃)		77.2	130	mg/L	75-150 mg/L = mod.hard
pH		7.40	7.42	units	6.5 to 8.5

* As per Canadian or B.C. Health Act Safe Drinking Water Regulation BC Reg 230/92, & 390 Sch 120, 2001. Task Force of Canadian Council of Resource & Envir. Ministers Guidelines for Canadian Drinking Water Quality, 2019.



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SAMPLE	DATE	TIME	Alkalinity (mg/L)	NH ₃ -N (ug/L)	Cl ⁻ (mg/L)	Colour (TCU)	E.C. (uS/cm)
1 Fisher Road Well Hd	04Feb20	09:26a	75.0	13.9	10.9	ND	196
2 Holland Well Head	04Feb20	09:38a	150	23.4	18.4	ND	367
Lab Blank			ND	ND	ND	ND	ND
So			0.100	0.254	0.015	0.300	0.300
REF. VALUE			200	20.0	100	5.00	147
STD ± 2SD			199 ± 11.6	21.0 ± 1.88	96.9 ± 8.78	4.99 ± 0.355	147 ± 7.53

SAMPLE	DATE	TIME	CORROSIVITY (Is @20C)	D.O.C. (mg/L)	F ⁻ (mg/L)	S ²⁻ (ug/L)	TKH (mg/L)
1 Fisher Road Well Hd	04Feb20	09:26a	-0.874	1.02	0.039	ND	0.014
2 Holland Well Head	04Feb20	09:38a	-0.189	1.27	0.033	ND	0.023
Lab Blank				ND	ND	ND	ND
So				0.300	0.007 ug/L	0.007	0.012
REF. VALUE				5.00	1.00	50.0	10.0
STD ± 2SD				4.89 ± 0.440	1.08 ± 0.090	52.0 ± 4.99	10.0 ± 0.807

SAMPLE	DATE	TIME	NO ₃ -N (mg/L)	NO ₂ -N (ug/L)	T.SiO ₂ (mg/L)	SO ₄ ²⁻ (mg/L)	T.O.C. (mg/L)
1 Fisher Road Well Hd	04Feb20	09:26a	2.50	ND	8.10	3.79	1.02
2 Holland Well Head	04Feb20	09:38a	3.13	ND	26.9	12.8	1.27
Lab Blank			ND	ND	ND	ND	ND
So			0.160 ug/L	0.300	0.003	0.075	0.300
REF. VALUE			1.00	10.0	10.0	100	5.00
STD ± 2SD			1.03 ± 0.078	10.6 ± 0.882	10.4 ± 1.01	103 ± 10.1	4.88 ± 0.452

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No. W152281 pg3

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Comments Arrival temp.: 7.0C
Sampler: Alan Seal

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>TDS</u> (mg/L)	<u>Turbidity</u> (NTU)	<u>UVT</u> (%)
1 Fisher Road Well Hd	04Feb20	09:26a	114	0.160	100
2 Holland Well Head	04Feb20	09:38a	213	0.270	99.6
Lab Blank			ND	ND	ND
S ₀			0.700	0.015	0.003
REF. VALUE			200	5.00	90.0
STD ± 2SD			200 ± 10.4	5.01 ± 0.304	90.1 ± 0.02

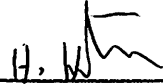
SD = standard deviation

STD = secondary standard calibrated to primary standard reference material

S₀ = standard deviation at zero analyte concentration; method detection limit
is generally considered to be 3x S₀ value

ND = none detected n/a = not applicable

R. Bilodeau
Analytical Chemist


H. Hartmann
Sr. Analytical Chemist

