

Client/Code

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

Date 08Feb22 2:53p  
Source Well  
Type of Sample water  
No. of Samples 1

No. W166355

TEL: (250) 743-2861  
admin@mccormack.bc.ca

Comments Arrival temp.: 6.8C  
Sampler: Alan Seal

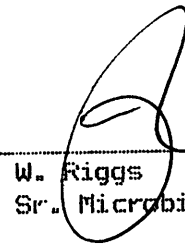
<u>Sample</u>	<u>Date</u>	<u>Time</u>	<u>Lactose Fermentors</u>	<u>Coliforms Total</u>	<u>Fecal</u>	<u>Sulfur Reducing/ Iron Bacteria</u>	<u>TFC*</u>
Holland Well	08Feb22	10:02A	ND	ND	ND	ND / ND	0

\* all counts are colony forming units per milli-litre

ND = none detected

TFC = total plate count- spread plate method - 35C/48hr TGEA  
Fecal Coliforms may also be known as Thermotolerant Coliforms

- see following page for chemistry results -



W. Riggs  
Sr. Microbiologist



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

Date 08Feb22 2:53p  
Source Well  
Type of Sample water  
No. of Samples 1

No. W166355 pg2

TEL: (250) 743-2861  
admin@mccormack.bc.ca

Comments Arrival temp.: 6.8C  
Sampler: Alan Seal

Sample: Holland Well 08Feb22 10:02A

ELEMENTS		SAMPLE	UNITS	Maximum Limits Permissible In Drinking Water*
1) Aluminium	Al	0.126	mg/L	no limit listed
2) Antimony	Sb	<0.500	ug/L	6.00 ug/L
3) Arsenic	As	<0.500	ug/L	10.0 ug/L
4) Barium	Ba	<0.009	mg/L	2.00 mg/L
5) Beryllium	Be	<0.003	mg/L	no limit listed
6) Boron	B	0.239	mg/L	5.00 mg/L
7) Cadmium	Cd	<0.010	ug/L	7.00 ug/L
8) Calcium	Ca	44.0	mg/L	200 mg/L
9) Chromium	Cr	<0.003	mg/L	0.050 mg/L
10) Cobalt	Co	<0.005	mg/L	no limit listed
11) Copper	Cu	<0.008	mg/L	1.00 mg/L
12) Gold	Au	<0.040	mg/L	no limit listed
13) Iron	Fe	0.065	mg/L	0.300 mg/L
14) Lanthanum	La	<0.020	mg/L	no limit listed
15) Lead	Pb	<0.500	ug/L	5.00 ug/L
16) Lithium	Li	<0.100	ug/L	no limit listed
17) Magnesium	Mg	6.81	mg/L	50.0 mg/L
18) Manganese	Mn	<0.004	mg/L	0.120 MAC 0.020 AD
19) Mercury	Hg	<0.010	ug/L	1.00 ug/L
20) Molybdenum	Mo	<0.005	mg/L	no limit listed
21) Nickel	Ni	<0.004	mg/L	no limit listed
22) Phosphorus	P	<0.010	mg/L	no limit listed
23) Potassium	K	0.440	mg/L	no limit listed
24) Scandium	Sc	<0.050	mg/L	no limit listed
25) Selenium	Se	<0.500	ug/L	5.0 ug/L
26) Silicon	Si	7.09	mg/L	no limit listed
27) Silver	Ag	<0.010	mg/L	no limit listed
28) Sodium	Na	6.69	mg/L	200 mg/L
29) Strontium	Sr	0.070	mg/L	no limit listed
30) Tin	Sn	<0.020	mg/L	no limit listed
31) Titanium	Ti	<0.010	mg/L	no limit listed
32) Tungsten	W	<0.050	mg/L	no limit listed
33) Uranium	U	<0.100	ug/L	20.0 ug/L
34) Vanadium	V	<0.010	mg/L	no limit listed
35) Zinc	Zn	0.026	mg/L	5.00 mg/L
36) Zirconium	Zr	<0.100	ug/L	no limit listed
Hardness (mg/L CaCO <sub>3</sub> )		138	mg/L	75-150 mg/L = mod.hard
pH		6.98	units	7.0 to 10.5

\* As per Canadian or B.C. Health Act Safe Drinking Water Regulation BC Reg 230/92, & 390 Sch 120, 2001. Task Force of the Canadian Council of Resource and Environment Ministers - Guidelines for Canadian Drinking Water Quality, 2020.

R. Bilodeau  
Analytical Chemist

H. Hartmann  
Sr. Analytical Chemist



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

Date 08Feb22 2:53p  
Source Well  
Type of Sample water  
No. of Samples 1

No. W166355 pg3

TEL: (250) 743-2861  
admin@mccormack.bc.ca

Comments Arrival temp.: 6.8C

SAMPLE	DATE	TIME	Alkalinity (mg/L)	NH <sub>3</sub> -N (ug/L)	Cl <sup>-</sup> (mg/L)	Colour (TCU)	E.C. (uS/cm)
Holland Well	08Feb22	10:02A	165	ND	19.2	0.580	368
Lab Blank			ND	ND	ND	ND	ND
S <sub>o</sub>			0.100	0.254	0.015	0.300	0.300
REF. VALUE			200	100	100	5.00	147
STD ± 2SD			199 ± 11.4	99.5 ± 7.59	99.2 ± 8.88	4.99 ± 0.346	147 ± 7.38

SAMPLE	DATE	TIME	CORROSIVITY (Is @20C)	D.O.C. (mg/L)	F <sup>-</sup> (mg/L)	S <sup>2-</sup> (ug/L)	TKN (mg/L)
Holland Well	08Feb22	10:02A	-0.546	4.90	ND	ND	0.672
Lab Blank				ND	ND	ND	ND
S <sub>o</sub>				0.300	0.007	0.007	0.012
REF. VALUE				5.00	1.00	50.0	1.00
STD ± 2SD				4.78 ± 0.398	1.08 ± 0.778	47.9 ± 4.12	1.01 ± 0.072

SAMPLE	DATE	TIME	NO <sub>3</sub> -N (mg/L)	NO <sub>2</sub> -N (ug/L)	TN (mg/L)	TPO <sub>4</sub> <sup>3-</sup> -P (ug/L)	T.SiO <sub>2</sub> (mg/L)
Holland Well	08Feb22	10:02A	3.58	ND	4.25	16.7	6.22
Lab Blank			ND	ND	ND	ND	ND
S <sub>o</sub>			0.160 ug/L	0.300	0.030	0.150	0.003
REF. VALUE			1.00	10.0	10.0	10.0	10.0
STD ± 2SD			1.00 ± 0.057	10.0 ± 0.911	9.97 ± 0.768	9.94 ± 0.768	10.6 ± 0.890

SAMPLE	DATE	TIME	D.SO <sub>4</sub> <sup>2-</sup> (mg/L)	TDS (mg/L)	Turbidity (NTU)
Holland Well	08Feb22	10:02A	12.3	213	0.180
Lab Blank			ND	ND	ND
S <sub>o</sub>			0.075	0.010	0.015
REF. VALUE			10.0	200	0.500
STD ± 2SD			10.4 ± 1.01	200 ± 10.2	0.505 ± 0.042

SD = standard deviation; REF VALUE = primary or secondary reference material  
STD = secondary standard calibrated to primary standard reference material  
S<sub>o</sub> = standard deviation at zero analyte concentration; method detection limit  
is generally considered to be 3x S<sub>o</sub> value  
ND = none detected n/a = not applicable



R. Bilodeau  
Analytical Chemist

*H. Hartmann*  
H. Hartmann  
Sr. Analytical Chemist

Client/Code

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

Date 08Feb22 3:13p No. W166357  
Source Well  
Type of Sample water  
No. of Samples 1

TEL: (250) 743-2861  
admin@mccormack.bc.ca

Comments Arrival temp.: 6.9C  
Sampler: Alan Seal

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<u>Sample</u>	<u>Date</u>	<u>Time</u>	<u>Lactose Fermentors</u>	<u>Coliforms Total</u>	<u>Fecal</u>	<u>Sulfur Reducing/ Iron Bacteria</u>	<u>TFC*</u>
Fisher Well	08Feb22	09:48A	ND	ND	ND	ND / ND	0.80


\* all counts are colony forming units per milli-litre

ND = none detected

TFC = total plate count- spread plate method - 35C/48hr TGEA

Fecal Coliforms may also be known as Thermotolerant Coliforms

- see following page for chemistry results -

  
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V0R 1L0

Date 08Feb22 3:13p  
Source Well  
Type of Sample water  
No. of Samples 1

No. W166357 pg2

TEL: (250) 743-2861  
admin@nccormack.bc.ca

Comments Arrival temp.: 6.9C  
Sampler: Alan Seal

Sample: Fisher Well 08Feb22 09:48A

ELEMENTS	SAMPLE	UNITS	Maximum Limits Fermissible In Drinking Water*	
1) Aluminium	Al	0.122	mg/L	no limit listed
2) Antimony	Sb	<0.500	ug/L	6.00 ug/L
3) Arsenic	As	<0.500	ug/L	10.0 ug/L
4) Barium	Ba	<0.009	mg/L	2.00 mg/L
5) Beryllium	Be	<0.003	mg/L	no limit listed
6) Boron	B	0.243	mg/L	5.00 mg/L
7) Cadmium	Cd	<0.010	ug/L	7.00 ug/L
8) Calcium	Ca	22.3	mg/L	200 mg/L
9) Chromium	Cr	<0.003	mg/L	0.050 mg/L
10) Cobalt	Co	<0.005	mg/L	no limit listed
11) Copper	Cu	<0.008	mg/L	1.00 mg/L
12) Gold	Au	<0.040	mg/L	no limit listed
13) Iron	Fe	0.098	mg/L	0.300 mg/L
14) Lanthanum	La	<0.020	mg/L	no limit listed
15) Lead	Pb	<0.500	ug/L	5.00 ug/L
16) Lithium	Li	<0.100	ug/L	no limit listed
17) Magnesium	Mg	9.47	mg/L	50.0 mg/L
18) Manganese	Mn	<0.004	mg/L	0.120 MAC 0.020 AD
19) Mercury	Hg	<0.010	ug/L	1.00 ug/L
20) Molybdenum	Mo	<0.005	mg/L	no limit listed
21) Nickel	Ni	<0.004	mg/L	no limit listed
22) Phosphorus	P	<0.010	mg/L	no limit listed
23) Potassium	K	0.590	mg/L	no limit listed
24) Scandium	Sc	<0.050	mg/L	no limit listed
25) Selenium	Se	<0.500	ug/L	5.0 ug/L
26) Silicon	Si	8.77	mg/L	no limit listed
27) Silver	Ag	<0.010	mg/L	no limit listed
28) Sodium	Na	5.69	mg/L	200 mg/L
29) Strontium	Sr	0.070	mg/L	no limit listed
30) Tin	Sn	<0.020	mg/L	no limit listed
31) Titanium	Ti	<0.010	mg/L	no limit listed
32) Tungsten	W	<0.050	mg/L	no limit listed
33) Vanadium	V	<0.010	mg/L	no limit listed
34) Zinc	Zn	0.021	mg/L	5.00 mg/L
35) Zirconium	Zr	<0.100	ug/L	no limit listed
Hardness (mg/L CaCO <sub>3</sub> )		94.7	mg/L	75-150 mg/L = mod.hard
pH		7.13	units	7.0 to 10.5

\* As per Canadian or B.C. Health Act Safe Drinking Water Regulation BC Reg 230/92,  
& 390 Sch 120, 2001. Task Force of the Canadian Council of Resource and  
Environment Ministers - Guidelines for Canadian Drinking Water Quality, 2020.

R. Bilodeau  
Analytical Chemist

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 P.O. Box 27  
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 V0R 1L0

Date 08Feb22 3:13p No. W166357 pg3  
 Source Well  
 Type of Sample water  
 No. of Samples 1

TEL: (250) 743-2861  
 admin@mccormack.bc.ca

Comments Arrival temp.: 6.9C  
 Sampler: Alan Seal  
 Amended: 25Feb22

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>Alkalinity</u> (mg/L)	<u>NH<sub>3</sub>-N</u> (ug/L)	<u>Cl<sup>-</sup></u> (mg/L)	<u>Colour</u> (TCU)	<u>E.C.</u> (uS/cm)
Fisher Well	08Feb22	09:48A	100	10.5	11.6	0.490	208
Lab Blank			ND	ND	ND	ND	ND
S <sub>o</sub>			0.100	0.254	0.015	0.300	0.300
REF. VALUE			200	100	100	5.00	147
STD ± 2SD			199 ± 11.4	99.5 ± 7.59	92.5 ± 8.11	4.99 ± 0.346	147 ± 7.38

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>CORROSIVITY</u> (Is @20C)	<u>D.O.C.</u> (mg/L)	<u>F<sup>-</sup></u> (mg/L)	<u>S<sup>2-</sup></u> (ug/L)	<u>TKN</u> (mg/L)
Fisher Well	08Feb22	09:48A	-0.909	4.42	ND	ND	0.340
Lab Blank				ND	ND	ND	ND
S <sub>o</sub>				0.300	0.007	0.007	0.012
REF. VALUE				5.00	1.00	50.0	1.00
STD ± 2SD				4.88 ± 3.98	1.08 ± 0.078	52.0 ± 4.40	1.01 ± 0.072

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>NO<sub>3</sub>-N</u> (mg/L)	<u>NO<sub>2</sub>-N</u> (ug/L)	<u>TN</u> (mg/L)	<u>T.SiO<sub>2</sub></u> (mg/L)	<u>D.SO<sub>4</sub><sup>2-</sup></u> (mg/L)
Fisher Well	08Feb22	09:48A	2.62	ND	2.96	13.8	4.13
Lab Blank			ND	ND	ND	ND	ND
S <sub>o</sub>			0.160 ug/L	0.300	0.030	0.003	0.075
REF. VALUE			1.00	10.0	10.0	10.0	5.00
STD ± 2SD			1.00 ± 0.057	10.0 ± 0.911	9.97 ± 0.768	10.7 ± 1.01	4.78 ± 0.560

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>TDS</u> (mg/L)	<u>Turbidity</u> (NTU)	<u>TPO<sub>4</sub><sup>3--</sup>-P</u> (ug/L)
Fisher Well	08Feb22	09:48A	120	0.150	21.8
Lab Blank			ND	ND	ND
S <sub>o</sub>			0.010	0.015	0.150
REF. VALUE			200	0.500	10.0
STD ± 2SD			200 ± 10.2	0.505 ± 0.042	9.88 ± 0.070

SD = standard deviation; REF VALUE = primary or secondary reference material  
 STD = secondary standard calibrated to primary standard reference material  
 S<sub>o</sub> = standard deviation at zero analyte concentration; method detection limit  
 is generally considered to be 3x S<sub>o</sub> value  
 ND = none detected n/a = not applicable



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