

Client/Code

Braithwaite Estates Imp. Dist.  
\*A  
P.O. Box 282  
Cobble Hill, BC  
VOR 1L0

Date 23Feb21 3:21p No. W159460  
Source FWS  
Type of Sample water  
No. of Samples 1

TEL: (250) 743-7211 Comments Arrival temp.: 8.6C  
braithwaiteestates@shaw.ca Sampler: Alan Seal

Site Code	Date	Time	CFU/100 ml		CFU/100 ml		CFU/100 ml
			TC	T-NC	FC	F-NC	E.coli
#4 Well Head	23Feb21	09:33a	0	0	0	0	0

WATER DISTRICT SCREEN

Sample	Date	Time	Lactose	Coliforms		Total	Sulfur Reducing/		TPC*	
			Fermentors	Total	Fecal	E.coli	Aeromonas	Iron Bacteria		Yeast/Fungi
#4 Well Head	23Feb21	09:33a	ND	ND	ND	ND	ND	ND / ND	ND / ND	0

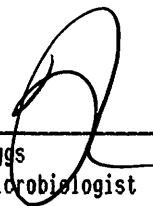
\* all counts are colony forming units per milli-litre

TC = total coliform bacteria FC = fecal coliform bacteria (aka Thermotolerant Coliforms)  
NC = non-coliform bacteria ND = none detected  
TPC = total plate count- spread plate method - 35C/48hr TGEA FDA/BAM 9th ed, Oct 2020  
CFU = colony forming units

Results may be adversely affected if samples are submitted to the laboratory more than 24 to 30 hours after collection.

E. coli = Escherichia coli, FDA/BAM 9th ed, Oct 2020  
Bergey's Manual of Systematic Bacteriology vol 1, AOAC 1984; J.Clin.Micro., J.Intern.Systm.Bact.

- see following page for chemistry results -

  
W. Riggs  
Sr. Microbiologist



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No. W159460 pg2

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Sample: Well Head #4 23Feb21 09:33a

				Maximum Limits
<u>ELEMENTS</u>		<u>SAMPLE</u>	<u>UNITS</u>	<u>In Drinking Water*</u>
1) Aluminium	Al	0.125	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	1.00 mg/L
5) Beryllium	Be	<0.003	mg/L	no limit listed
6) Bismuth	Bi	<0.100	ug/L	no limit listed
7) Boron	B	0.548	mg/L	5.00 mg/L
8) Cadmium	Cd	<0.010	ug/L	5.00 ug/L
9) Calcium	Ca	25.6	mg/L	200 mg/L
10) Chromium	Cr	<0.010	mg/L	0.050 mg/L
11) Cobalt	Co	<0.020	mg/L	no limit listed
12) Copper	Cu	<0.008	mg/L	1.00 mg/L
13) Gold	Au	<0.040	mg/L	no limit listed
14) Iron	Fe	0.021	mg/L	0.300 mg/L
15) Lanthanum	La	<0.020	mg/L	no limit listed
16) Lead	Pb	<0.500	ug/L	5.00 ug/L
17) Lithium	Li	<0.100	ug/L	no limit listed
18) Magnesium	Mg	6.20	mg/L	50.0 mg/L
19) Manganese	Mn	<0.004	mg/L	0.120 MAC 0.020 AO
20) Mercury	Hg	<0.010	ug/L	1.00 ug/L
21) Molybdenum	Mo	<0.020	mg/L	no limit listed
22) Nickel	Ni	<0.050	mg/L	no limit listed
23) Phosphorus	P	0.046	mg/L	no limit listed
24) Potassium	K	0.600	mg/L	no limit listed
25) Scandium	Sc	<0.050	mg/L	no limit listed
26) Selenium	Se	<0.500	ug/L	5.0 ug/L
27) Silicon	Si	6.14	mg/L	no limit listed
28) Silver	Ag	<0.010	mg/L	no limit listed
29) Sodium	Na	6.11	mg/L	200 mg/L
30) Strontium	Sr	0.100	mg/L	no limit listed
31) Tellurium	Te	<0.100	ug/L	no limit listed
32) Thallium	Tl	<0.100	ug/L	no limit listed
33) Thorium	Th	<0.100	ug/L	no limit listed
34) Tin	Sn	<0.020	mg/L	no limit listed
35) Titanium	Ti	<0.010	mg/L	no limit listed
36) Tungsten	W	<0.050	mg/L	no limit listed
37) Uranium	U	<0.100	ug/L	20.0 ug/L
38) Vanadium	V	<0.010	mg/L	no limit listed
39) Zinc	Zn	0.011	mg/L	5.00 mg/L
40) Zirconium	Zr	<0.100	ug/L	no limit listed
Hardness (mg/L CaCO <sub>3</sub> )		89.5	mg/L	75-150 mg/L = mod.hard
pH		7.70	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 Canadian Council of Resource & Envir. Ministers Guidelines for Canadian Drinking Water Quality, 2019.



ANALYTICAL & TESTING SERVICES

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 Sr. Analytical Chemist

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No. W159460 pg3

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<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>Alkalinity</u> (mg/L)	<u>NH<sub>4</sub>-N</u> (ug/L)	<u>TKN</u> (mg/L)	<u>TN</u> (mg/L)
Well Head #4	23Feb21	09:33a	95.0	ND	0.202	2.41
Lab Blank			ND	ND	ND	ND
So			0.100	0.254	0.012	0.030
REF. VALUE			200	10.0	1.00	1.00
STD ± 2SD			192 ± 16.6	9.88 ± 0.790	1.06 ± 0.792	0.978 ± 0.080

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>D.Cl<sup>-</sup></u> (mg/L)	<u>Colour</u> (TCU)	<u>E.C.</u> (uS/cm)	<u>Corrosivity</u> (Is @20)
Well Head #4	23Feb21	09:33a	11.2	1.15	216	-0.301
Lab Blank			ND	ND	ND	
So			0.015	0.300	0.300	
REF. VALUE			10.0	5.00	147	
STD ± 2SD			10.3 ± 0.766	4.92 ± 0.422	142 ± 13.2	

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>D.F<sup>-</sup></u> (mg/L)	<u>NO<sub>3</sub>-N</u> (mg/L)	<u>NO<sub>2</sub>-N</u> (ug/L)
Well Head #4	23Feb21	09:33a	0.048	2.21	ND
Lab Blank			ND	ND	ND
So			0.007	0.160 ug/L	0.300
REF. VALUE			1.00	10.0	10.0
STD ± 2SD			1.04 ± 0.090	9.82 ± 0.776	10.4 ± 1.01

<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>TPO<sub>4</sub><sup>3--P</sup></u> (ug/L)	<u>D.SO<sub>4</sub><sup>2-</sup></u> (mg/L)	<u>H<sub>2</sub>S</u> (ug/L)
Well Head #4	23Feb21	09:33a		6.57	ND
Lab Blank			ND	ND	ND
So			0.150	0.075	0.007
REF. VALUE			10.0	10.0	50.0
STD ± 2SD			10.6 ± 0.822	10.4 ± 1.02	50.4 ± 4.88

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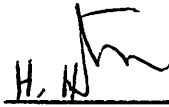
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<u>SAMPLE</u>	<u>DATE</u>	<u>TIME</u>	<u>D.O.C.</u> <u>(mg/L)</u>	<u>TDS</u> <u>(mg/L)</u>	<u>Turbidity</u> <u>(NTU)</u>
Well Head #4	23Feb21	09:33a	3.56	125	0.170
Lab Blank			ND	ND	ND
S <sub>0</sub>			0.300	0.010	0.015
REF. VALUE			5.00	200	0.500
STD ± 2SD			5.08 ± 0.433	190 ± 17.0	0.490 ± 0.042

SD = standard deviation; REF VALUE = primary or secondary reference material  
STD = secondary standard calibrated to primary standard reference material  
S<sub>0</sub> = standard deviation at zero analyte concentration; method detection limit  
is generally considered to be 3x S<sub>0</sub> value  
ND = none detected n/a = not applicable

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R. Bilodeau  
Analytical Chemist

  
\_\_\_\_\_  
H. Hartmann  
Sr. Analytical Chemist

