

Client/Code

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

Date 08Jan19 3:00p No. W144775
 Source Well
 Type of Sample water
 No. of Samples 2

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

CommentsArrival temp.: 7.0C
 Sampler: Alan Seal

Samples: 1) Fisher Road WellHead 08Jan19 09:39a 2) Holland Well Head 08Jan19 09:58a

| ELEMENTS | | 1 | 2 | UNITS | Maximum Limits In Drinking Water* |
|------------------------------------|----|--------|--------|-------|--------------------------------------|
| | | SAMPLE | SAMPLE | | |
| 1) Aluminium | Al | 0.137 | 0.234 | 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 | 0.016 | mg/L | 1.00 mg/L |
| 5) Beryllium | Be | <0.003 | 0.003 | mg/L | no limit listed |
| 6) Bismuth | Bi | 0.042 | 0.002 | mg/L | no limit listed |
| 7) Boron | B | 0.522 | 0.603 | mg/L | 5.00 mg/L |
| 8) Cadmium | Cd | <0.010 | <0.010 | ug/L | 5.00 ug/L |
| 9) Calcium | Ca | 18.9 | 47.6 | mg/L | 200 mg/L |
| 10) Chromium | Cr | <0.010 | 0.012 | mg/L | 0.050 mg/L |
| 11) Cobalt | Co | <0.020 | <0.020 | mg/L | no limit listed |
| 12) Copper | Cu | <0.008 | 0.011 | mg/L | 1.00 mg/L |
| 13) Gold | Au | <0.040 | <0.040 | mg/L | no limit listed |
| 14) Iron | Fe | 0.066 | 0.078 | 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 | 10.0 ug/L |
| 17) Lithium | Li | 0.038 | <0.100 | mg/L | no limit listed |
| 18) Magnesium | Mg | 7.99 | 7.70 | mg/L | 50.0 mg/L |
| 19) Manganese | Mn | 0.005 | 0.016 | mg/L | 0.050 mg/L |
| 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 | 0.012 | 0.249 | mg/L | no limit listed |
| 24) Potassium | K | 0.530 | 1.24 | 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 | 9.74 | 8.99 | mg/L | no limit listed |
| 28) Silver | Ag | <0.010 | <0.010 | mg/L | 0.050 mg/L |
| 29) Sodium | Na | 5.24 | 7.19 | mg/L | 200 mg/L |
| 30) Strontium | Sr | 0.070 | 0.100 | mg/L | no limit listed |
| 31) Tin | Sn | 0.039 | <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 | 0.012 | mg/L | no limit listed |
| 36) Zinc | Zn | 0.037 | 0.069 | mg/L | 5.00 mg/L |
| 37) Zirconium | Zr | 0.420 | 0.051 | mg/L | no limit listed |
| Hardness (mg/L CaCO ₃) | | 80.1 | 151 | mg/L | 75-150 mg/L = moderately hard |
| pH | | 7.55 | 7.26 | 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, 2014.



ANALYTICAL & TESTING SERVICES P.O. BOX 2103, SIDNEY, B.C. V8L 3S6

R. Bilodeau
 Analytical Chemist

H. Hartmann
 Sr. Analytical Chemist

TEL: (250) 656-1334 EMAIL: info@mblabs.com

Client/Code

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

Date 08Jan19 3:00p
Source Well
Type of Sample water
No. of Samples 2

No. W144775 pg2

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

Comments Arrival temp.: 7.0C
Sampler: Alan Seal

| <u>SAMPLE</u> | <u>DATE</u> | <u>TIME</u> | <u>Alkalinity</u> (mg/L) | <u>NH₃-N</u> (ug/L) | <u>D.Cl⁻</u> (mg/L) | <u>Colour</u> (TCU) |
|------------------------|-------------|-------------|-----------------------------|-----------------------------------|-----------------------------------|------------------------|
| 1 Fisher Road WellHead | 08Jan19 | 09:39a | 70.0 | 5.70 | 10.6 | 0.690 |
| 2 Holland Well Head | 08Jan19 | 09:58a | 165 | 8.90 | 16.8 | 0.500 |
| Lab Blank | | | ND | ND | ND | ND |
| S _o | | | 0.100 | 0.254 | 0.015 | 0.300 |
| REF. VALUE | | | 100 | 10.0 | 10.0 | 5.00 |
| STD ± 2SD | | | 106 ± 9.20 | 9.80 ± 0.978 | 9.88 ± 0.890 | 4.82 ± 0.460 |

| <u>SAMPLE</u> | <u>DATE</u> | <u>TIME</u> | <u>E.C.</u> (uS/cm) | <u>CORROSIIVITY</u> (Is @20C) | <u>D.F⁻</u> (mg/L) | <u>S²⁻</u> (ug/L) | <u>TKN</u> (mg/L) |
|------------------------|-------------|-------------|------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------|
| 1 Fisher Road WellHead | 08Jan19 | 09:39a | 206 | -0.516 | 0.043 | ND | 0.006 |
| 2 Holland Well Head | 08Jan19 | 09:58a | 376 | -0.232 | 0.033 | ND | 0.009 |
| Lab Blank | | | ND | | ND | ND | ND |
| S _o | | | 0.300 | | 0.007 | 0.007 | 0.012 |
| REF. VALUE | | | 147 | | 1.00 | 50.0 | 0.100 |
| STD ± 2SD | | | 143 ± 12.9 | | 0.980 ± 0.090 | 50.6 ± 4.22 | 0.108 ± 0.008 |

| <u>SAMPLE</u> | <u>DATE</u> | <u>TIME</u> | <u>NO₃-N</u> (mg/L) | <u>NO₂-N</u> (ug/L) | <u>TN</u> (mg/L) | <u>TPO₄³⁻-P</u> (ug/L) |
|------------------------|-------------|-------------|-----------------------------------|-----------------------------------|---------------------|---|
| 1 Fisher Road WellHead | 08Jan19 | 09:39a | 4.22 | ND | 4.23 | 6.28 |
| 2 Holland Well Head | 08Jan19 | 09:58a | 4.66 | ND | 4.66 | 2.28 |
| Lab Blank | | | ND | ND | ND | ND |
| S _o | | | 0.160 ug/L | 0.300 | 0.033 | 0.150 |
| REF. VALUE | | | 10.0 | 10.0 | 10.0 | 10.0 |
| STD ± 2SD | | | 10.5 ± 0.820 | 9.92 ± 0.892 | 9.88 ± 0.890 | 9.96 ± 0.866 |

..../contin



Client/Code

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

Date 08Jan19 3:00p
 Source Well
 Type of Sample water
 No. of Samples 2

No. W144775 pg3

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

Comments Arrival temp.: 7.0C
 Sampler: Alan Seal

| <u>SAMPLE</u> | <u>DATE</u> | <u>TIME</u> | <u>D.SO₄²⁻</u> <u>(mg/L)</u> | <u>D.O.C.</u> <u>(mg/L)</u> | <u>TDS</u> <u>(mg/L)</u> | <u>Turbidity</u> <u>(NTU)</u> |
|------------------------|-------------|-------------|---|--------------------------------|-----------------------------|----------------------------------|
| 1 Fisher Road WellHead | 08Jan19 | 09:39a | 3.03 | ND | 119 | 0.770 |
| 2 Holland Well Head | 08Jan19 | 09:58a | 11.0 | ND | 218 | 0.670 |
| Lab Blank | | | ND | ND | ND | ND |
| S _o | | | 0.075 | 0.300 | 0.700 | 0.015 |
| REF. VALUE | | | 10.0 | 0.500 | 200 | 0.500 |
| STD ± 2SD | | | 9.92 ± 0.890 | 0.490 ± 0.390 | 198 ± 16.9 | 0.478 ± 0.040 |

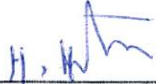
SD = standard deviation

STD = secondary standard calibrated to primary standard reference material

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

ND = none detected n/a = not applicable

 R. Bilodeau
 Analytical Chemist



 H. Hartmann
 Sr. Analytical Chemist

