

Your Project #: LEECH-METALS Your C.O.C. #: 08464666

Attention: Christoph Moch

Capital Regional District Water Department 479 Island Hwy Victoria, BC Canada V9B 1H7

Report Date: 2019/02/13

Report #: R2685529 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B909536 Received: 2019/02/07, 14:01

Sample Matrix: DRINKING WATER

Samples Received: 6

| | | Date | Date | | |
|--|----------|------------|------------|--------------------------|----------------------|
| Analyses | Quantity | Extracted | Analyzed | Laboratory Method | Analytical Method |
| Hardness Total (calculated as CaCO3) (1) | 6 | N/A | 2019/02/12 | BBY WI-00033 | Auto Calc |
| Mercury (Total) by CVAF | 6 | 2019/02/12 | 2019/02/13 | BBY7SOP-00015 | BCMOE BCLM Oct2013 m |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 6 | N/A | 2019/02/12 | BBY WI-00033 | Auto Calc |
| Elements by CRC ICPMS (total) | 2 | N/A | 2019/02/11 | BBY7SOP-00003, | EPA 6020b R2 m |
| Elements by CRC ICPMS (total) | 4 | 2019/02/09 | 2019/02/11 | BBY7SOP-00003 | EPA 6020b R2 m |
| | | | | BBY7SOP-00002 | |

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

- * RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
- (1) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).



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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Debbie Nordbruget, Project Manager Email: DNordbruget@maxxam.ca Phone# (250)385-6112

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Capital Regional District Client Project #: LEECH-METALS

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

| Maxxam ID | | | | | VE9170 | VE9172 | VE9173 | VE9174 | | |
|------------------------------|-----------|---------|----------|------|------------|-------------|------------|------------|-------|----------|
| c " | | | | | 2019/02/06 | 2019/02/05 | 2019/02/05 | 2019/02/05 | | |
| Sampling Date | | | | | 09:30 | 10:30 | 09:30 | 09:45 | | |
| COC Number | | | | | 08464666 | 08464666 | 08464666 | 08464666 | | |
| | UNITS | MAC | AO | OG | WEST LEECH | CHRIS CREEK | LEECH HEAD | WEEKS OUT | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | - | - | 100 | 57.3 | 40.2 | 109 | 232 | 3.0 | 9318547 |
| Total Antimony (Sb) | ug/L | 6 | - | - | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9318547 |
| Total Arsenic (As) | ug/L | 10 | - | - | 0.10 | <0.10 | <0.10 | 0.11 | 0.10 | 9318547 |
| Total Barium (Ba) | ug/L | 1000 | - | 1 | 3.4 | 2.0 | 2.9 | 3.5 | 1.0 | 9318547 |
| Total Beryllium (Be) | ug/L | - | - | - | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9318547 |
| Total Bismuth (Bi) | ug/L | - | - | 1 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9318547 |
| Total Boron (B) | ug/L | 5000 | - | - | <50 | <50 | <50 | <50 | 50 | 9318547 |
| Total Cadmium (Cd) | ug/L | 5 | - | - | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9318547 |
| Total Chromium (Cr) | ug/L | 50 | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9318547 |
| Total Cobalt (Co) | ug/L | - | - | ı | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | 9318547 |
| Total Copper (Cu) | ug/L | - | 1000 | - | <0.50 | 0.61 | 0.63 | 0.77 | 0.50 | 9318547 |
| Total Iron (Fe) | ug/L | - | 300 | ı | 21 | 15 | 75 | 193 | 10 | 9318547 |
| Total Lead (Pb) | ug/L | 10 | - | - | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | 9318547 |
| Total Manganese (Mn) | ug/L | - | 50 | - | <1.0 | <1.0 | 1.8 | 6.1 | 1.0 | 9318547 |
| Total Molybdenum (Mo) | ug/L | - | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9318547 |
| Total Nickel (Ni) | ug/L | - | - | - | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9318547 |
| Total Selenium (Se) | ug/L | 50 | - | - | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9318547 |
| Total Silicon (Si) | ug/L | - | - | - | 2280 | 1870 | 1700 | 1680 | 100 | 9318547 |
| Total Silver (Ag) | ug/L | - | - | - | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 9318547 |
| Total Strontium (Sr) | ug/L | - | - | - | 13.4 | 7.6 | 10.2 | 10.0 | 1.0 | 9318547 |
| Total Thallium (TI) | ug/L | - | - | - | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9318547 |
| Total Tin (Sn) | ug/L | - | - | 1 | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9318547 |
| Total Titanium (Ti) | ug/L | - | - | - | <5.0 | <5.0 | <5.0 | 6.0 | 5.0 | 9318547 |
| Total Uranium (U) | ug/L | 20 | - | - | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9318547 |
| Total Vanadium (V) | ug/L | - | - | - | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9318547 |
| Total Zinc (Zn) | ug/L | - | 5000 | - | <5.0 | <5.0 | <5.0 | <5.0 | 5.0 | 9318547 |
| Total Zirconium (Zr) | ug/L | - | - | - | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 9318547 |
| No Fill No Ex | ceedan | ce | | | | | | | | |
| Grey Excee | ds 1 crit | eria po | olicy/le | evel | | | | | | |
| Black Excee | ds both | criteri | a/leve | ls | | | | | | |
| RDL = Reportable Detection L | imit | | | | | | | | | |



Capital Regional District Client Project #: LEECH-METALS

TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)

| Maxxam ID | | | | | VE9169 | | | VE9170 | | |
|----------------------|-----------------|------|----------|-----|--------------|--------|----------|------------|--------|----------|
| Compline Date | | | | | 2019/02/06 | | | 2019/02/06 | | |
| Sampling Date | | | | | 12:30 | | | 09:30 | | |
| COC Number | | | | | 08464666 | | | 08464666 | | |
| | UNITS | MAC | AO | G | LEECH TUNNEL | RDL | QC Batch | WEST LEECH | RDL | QC Batch |
| Calculated Parameter | s | | | | | | | | | |
| Total Hardness (CaCO | 3) mg/L | - | - | - | 7.91 | 0.50 | 9316211 | 6.46 | 0.50 | 9316211 |
| Elements | | | | | | | | | | |
| Total Mercury (Hg) | ug/L | 1 | - | - | <0.0020 | 0.0020 | 9320537 | <0.0020 | 0.0020 | 9320537 |
| Total Metals by ICPM | S | | | | | | L | | | |
| Total Aluminum (Al) | ug/L | - | - | 100 | 58.8 | 3.0 | 9318586 | | | |
| Total Antimony (Sb) | ug/L | 6 | - | - | <0.50 | 0.50 | 9318586 | | | |
| Total Arsenic (As) | ug/L | 10 | - | 1 | <0.10 | 0.10 | 9318586 | | | |
| Total Barium (Ba) | ug/L | 1000 | - | - | 2.7 | 1.0 | 9318586 | | | |
| Total Beryllium (Be) | ug/L | - | - | - | <0.10 | 0.10 | 9318586 | | | |
| Total Bismuth (Bi) | ug/L | - | - | - | <1.0 | 1.0 | 9318586 | | | |
| Total Boron (B) | ug/L | 5000 | - | - | <50 | 50 | 9318586 | | | |
| Total Cadmium (Cd) | ug/L | 5 | - | - | <0.010 | 0.010 | 9318586 | | | |
| Total Chromium (Cr) | ug/L | 50 | - | - | <1.0 | 1.0 | 9318586 | | | |
| Total Cobalt (Co) | ug/L | - | - | - | <0.20 | 0.20 | 9318586 | | | |
| Total Copper (Cu) | ug/L | - | 1000 | - | 0.43 | 0.20 | 9318586 | | | |
| Total Iron (Fe) | ug/L | - | 300 | - | 23.6 | 5.0 | 9318586 | | | |
| Total Lead (Pb) | ug/L | 10 | - | - | <0.20 | 0.20 | 9318586 | | | |
| Total Manganese (Mn |) ug/L | - | 50 | - | <1.0 | 1.0 | 9318586 | | | |
| Total Molybdenum (M | lo) ug/L | - | - | 1 | <1.0 | 1.0 | 9318586 | | | |
| Total Nickel (Ni) | ug/L | - | - | - | <1.0 | 1.0 | 9318586 | | | |
| Total Selenium (Se) | ug/L | 50 | - | - | <0.10 | 0.10 | 9318586 | | | |
| Total Silicon (Si) | ug/L | - | - | - | 2160 | 100 | 9318586 | | | |
| Total Silver (Ag) | ug/L | - | - | 1 | <0.020 | 0.020 | 9318586 | | | |
| Total Strontium (Sr) | ug/L | - | - | - | 14.4 | 1.0 | 9318586 | | | |
| Total Thallium (TI) | ug/L | - | - | 1 | <0.010 | 0.010 | 9318586 | | | |
| Total Tin (Sn) | ug/L | - | - | 1 | <5.0 | 5.0 | 9318586 | | | |
| Total Titanium (Ti) | ug/L | - | - | - | <5.0 | 5.0 | 9318586 | | | |
| Total Uranium (U) | ug/L | 20 | - | - | <0.10 | 0.10 | 9318586 | | | |
| Total Vanadium (V) | ug/L | - | - | - | <5.0 | 5.0 | 9318586 | | | |
| Total Zinc (Zn) | ug/L | - | 5000 | - | <5.0 | 5.0 | 9318586 | | | |
| Total Zirconium (Zr) | ug/L | - | - | - | <0.10 | 0.10 | 9318586 | | | |
| Total Calcium (Ca) | mg/L | - | - | - | 2.33 | 0.050 | 9316624 | 1.85 | 0.050 | 9316624 |
| Total Magnesium (Mg | | - | - | - | 0.512 | 0.050 | 9316624 | 0.446 | 0.050 | 9316624 |
| No Fill | No Exceedance | e | | | | | | | | |
| Grey | Exceeds 1 crite | | licv/lev | vel | | | | | | |
| Black | Exceeds both | | • | | | | | | | |

Exceeds both criteria/levels



Capital Regional District Client Project #: LEECH-METALS

TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)

| Maxxam ID | | | | | VE9169 | | | VE9170 | | |
|---------------------|-------|-----|-----|----|---------------------|-------|----------|---------------------|-------|----------|
| Sampling Date | | | | | 2019/02/06 12:30 | | | 2019/02/06 09:30 | | |
| COC Number | | | | | 08464666 | | | 08464666 | | |
| | UNITS | MAC | AO | OG | LEECH TUNNEL | RDL | QC Batch | WEST LEECH | RDL | QC Batch |
| Total Potassium (K) | mg/L | - | - | - | 0.124 | 0.050 | 9316624 | 0.212 | 0.050 | 9316624 |
| Total Sodium (Na) | mg/L | - | 200 | - | 1.72 | 0.050 | 9316624 | 1.99 | 0.050 | 9316624 |
| Total Sulphur (S) | mg/L | _ | _ | - | <3.0 | 3.0 | 9316624 | <3.0 | 3.0 | 9316624 |

No Fill

No Exceedance

Grey Black Exceeds 1 criteria policy/level Exceeds both criteria/levels



Capital Regional District Client Project #: LEECH-METALS

TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)

| Maxxam ID | | | | | VE9171 | | | VE9172 | VE9173 | VE9174 | | |
|------------------------|-----------|-------|------|-----|------------|--------|----------|-------------|------------|------------|--------|----------|
| Campling Data | | | | | 2019/02/05 | | | 2019/02/05 | 2019/02/05 | 2019/02/05 | | |
| Sampling Date | | | | | 12:00 | | | 10:30 | 09:30 | 09:45 | | |
| COC Number | | | | | 08464666 | | | 08464666 | 08464666 | 08464666 | | |
| | UNITS | MAC | AO | OG | CRAGG | RDL | QC Batch | CHRIS CREEK | LEECH HEAD | WEEKS OUT | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | - | - | - | 6.80 | 0.50 | 9316211 | 6.48 | 5.94 | 5.41 | 0.50 | 9316211 |
| Elements | • | | | | | • | | • | | | • | |
| Total Mercury (Hg) | ug/L | 1 | - | - | <0.0020 | 0.0020 | 9320537 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9320537 |
| Total Metals by ICPMS | • | | • | | | • | • | | | | • | |
| Total Aluminum (Al) | ug/L | - | - | 100 | 54.8 | 3.0 | 9318586 | | | | | |
| Total Antimony (Sb) | ug/L | 6 | - | - | <0.50 | 0.50 | 9318586 | | | | | |
| Total Arsenic (As) | ug/L | 10 | - | - | <0.10 | 0.10 | 9318586 | | | | | |
| Total Barium (Ba) | ug/L | 1000 | - | - | 1.7 | 1.0 | 9318586 | | | | | |
| Total Beryllium (Be) | ug/L | - | - | - | <0.10 | 0.10 | 9318586 | | | | | |
| Total Bismuth (Bi) | ug/L | - | - | - | <1.0 | 1.0 | 9318586 | | | | | |
| Total Boron (B) | ug/L | 5000 | - | - | <50 | 50 | 9318586 | | | | | |
| Total Cadmium (Cd) | ug/L | 5 | - | - | <0.010 | 0.010 | 9318586 | | | | | |
| Total Chromium (Cr) | ug/L | 50 | - | - | <1.0 | 1.0 | 9318586 | | | | | |
| Total Cobalt (Co) | ug/L | - | - | - | <0.20 | 0.20 | 9318586 | | | | | |
| Total Copper (Cu) | ug/L | - | 1000 | - | 0.41 | 0.20 | 9318586 | | | | | |
| Total Iron (Fe) | ug/L | - | 300 | - | 13.2 | 5.0 | 9318586 | | | | | |
| Total Lead (Pb) | ug/L | 10 | - | - | <0.20 | 0.20 | 9318586 | | | | | |
| Total Manganese (Mn) | ug/L | - | 50 | - | <1.0 | 1.0 | 9318586 | | | | | |
| Total Molybdenum (Mo) | ug/L | - | - | - | <1.0 | 1.0 | 9318586 | | | | | |
| Total Nickel (Ni) | ug/L | - | - | - | <1.0 | 1.0 | 9318586 | | | | | |
| Total Selenium (Se) | ug/L | 50 | - | - | <0.10 | 0.10 | 9318586 | | | | | |
| Total Silicon (Si) | ug/L | - | - | - | 1690 | 100 | 9318586 | | | | | |
| Total Silver (Ag) | ug/L | - | - | - | <0.020 | 0.020 | 9318586 | | | | | |
| Total Strontium (Sr) | ug/L | - | - | - | 8.5 | 1.0 | 9318586 | | | | | |
| Total Thallium (TI) | ug/L | - | - | - | <0.010 | 0.010 | 9318586 | | | | | |
| Total Tin (Sn) | ug/L | - | - | - | <5.0 | 5.0 | 9318586 | | | | | |
| Total Titanium (Ti) | ug/L | - | - | - | <5.0 | 5.0 | 9318586 | | | | | |
| Total Uranium (U) | ug/L | 20 | - | - | <0.10 | 0.10 | 9318586 | | | | | |
| Total Vanadium (V) | ug/L | - | - | - | <5.0 | 5.0 | 9318586 | | | | | |
| Total Zinc (Zn) | ug/L | - | 5000 | - | <5.0 | 5.0 | 9318586 | | | | | |
| Total Zirconium (Zr) | ug/L | - | - | - | <0.10 | 0.10 | 9318586 | | | | | |
| Total Calcium (Ca) | mg/L | - | - | - | 1.82 | 0.050 | 9316624 | 1.67 | 1.61 | 1.42 | 0.050 | 9316624 |
| Total Magnesium (Mg) | mg/L | - | - | - | 0.551 | 0.050 | 9316624 | 0.559 | 0.464 | 0.450 | 0.050 | 9316624 |
| No Fill | No Exceed | dance | | | · | · — | | | | · | | |

No Fill Grey

Black

Exceeds 1 criteria policy/level Exceeds both criteria/levels



Capital Regional District
Client Project #: LEECH-METALS

TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)

| Maxxam ID | | | | | VE9171 | | | VE9172 | VE9173 | VE9174 | | |
|---------------------------------------|--------------|-----|----------|----|----------------|----------------|--------------------|--------------------|---------------|---------------|----------------|--------------------|
| Sampling Date | | | | | 2019/02/05 | | | 2019/02/05 | 2019/02/05 | 2019/02/05 | | |
| Sampling Date | | | | | 12:00 | | | 10:30 | 09:30 | 09:45 | | |
| COC Number | | | | | 08464666 | | | 08464666 | 08464666 | 08464666 | | |
| | UNITS | MAC | AO | OG | CRAGG | RDL | QC Batch | CHRIS CREEK | LEECH HEAD | WEEKS OUT | RDL | QC Batch |
| | | | | | | | | | | | | |
| Total Potassium (K) | mg/L | - | - | - | <0.050 | 0.050 | 9316624 | 0.051 | 0.066 | 0.079 | 0.050 | 9316624 |
| Total Potassium (K) Total Sodium (Na) | mg/L mg/L | - | - 200 | - | <0.050 1.30 | 0.050 0.050 | 9316624 9316624 | 0.051 1.30 | 0.066 1.38 | 0.079 1.44 | 0.050 0.050 | 9316624 9316624 |

No Fill

Grey

Black

No Exceedance

Exceeds 1 criteria policy/level Exceeds both criteria/levels



Capital Regional District Client Project #: LEECH-METALS

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| Package 1 | 7.7°C |
|-----------|-------|
|-----------|-------|

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG) It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:

- 1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
- 2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
- 3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.
- 4. To ensure effectiveness of disinfection and for good operation of the distribution system, it is recommended that water entering the distribution system have turbidity levels of 1.0 NTU or less.

Measurement of Uncertainty has not been accounted for when stating conformity to the selected criteria, where applicable.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Capital Regional District Client Project #: LEECH-METALS

| | | | Matrix | Spike | Spiked | Blank | Method E | Blank | RPI | ס |
|----------|-----------------------|------------|------------|-----------|------------|-----------|----------|-------|-----------|-----------|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9318547 | Total Aluminum (AI) | 2019/02/11 | 100 | 80 - 120 | 100 | 80 - 120 | <3.0 | ug/L | 16 | 20 |
| 9318547 | Total Antimony (Sb) | 2019/02/11 | 104 | 80 - 120 | 104 | 80 - 120 | <0.50 | ug/L | | |
| 9318547 | Total Arsenic (As) | 2019/02/11 | 101 | 80 - 120 | 102 | 80 - 120 | <0.10 | ug/L | | |
| 9318547 | Total Barium (Ba) | 2019/02/11 | 100 | 80 - 120 | 101 | 80 - 120 | <1.0 | ug/L | 0.81 | 20 |
| 9318547 | Total Beryllium (Be) | 2019/02/11 | 96 | 80 - 120 | 96 | 80 - 120 | <0.10 | ug/L | | |
| 9318547 | Total Bismuth (Bi) | 2019/02/11 | 102 | 80 - 120 | 103 | 80 - 120 | <1.0 | ug/L | | |
| 9318547 | Total Boron (B) | 2019/02/11 | 94 | 80 - 120 | 93 | 80 - 120 | <50 | ug/L | | |
| 9318547 | Total Cadmium (Cd) | 2019/02/11 | 104 | 80 - 120 | 104 | 80 - 120 | <0.010 | ug/L | NC | 20 |
| 9318547 | Total Chromium (Cr) | 2019/02/11 | 99 | 80 - 120 | 101 | 80 - 120 | <1.0 | ug/L | NC | 20 |
| 9318547 | Total Cobalt (Co) | 2019/02/11 | 98 | 80 - 120 | 100 | 80 - 120 | <0.20 | ug/L | | |
| 9318547 | Total Copper (Cu) | 2019/02/11 | 98 | 80 - 120 | 99 | 80 - 120 | <0.50 | ug/L | NC | 20 |
| 9318547 | Total Iron (Fe) | 2019/02/11 | 106 | 80 - 120 | 106 | 80 - 120 | <10 | ug/L | | |
| 9318547 | Total Lead (Pb) | 2019/02/11 | 102 | 80 - 120 | 103 | 80 - 120 | <0.20 | ug/L | NC | 20 |
| 9318547 | Total Manganese (Mn) | 2019/02/11 | 99 | 80 - 120 | 100 | 80 - 120 | <1.0 | ug/L | | |
| 9318547 | Total Molybdenum (Mo) | 2019/02/11 | 104 | 80 - 120 | 104 | 80 - 120 | <1.0 | ug/L | | |
| 9318547 | Total Nickel (Ni) | 2019/02/11 | 99 | 80 - 120 | 102 | 80 - 120 | <1.0 | ug/L | | |
| 9318547 | Total Selenium (Se) | 2019/02/11 | 101 | 80 - 120 | 100 | 80 - 120 | <0.10 | ug/L | | |
| 9318547 | Total Silicon (Si) | 2019/02/11 | 95 | 80 - 120 | 92 | 80 - 120 | <100 | ug/L | | |
| 9318547 | Total Silver (Ag) | 2019/02/11 | 102 | 80 - 120 | 103 | 80 - 120 | <0.020 | ug/L | | |
| 9318547 | Total Strontium (Sr) | 2019/02/11 | 98 | 80 - 120 | 100 | 80 - 120 | <1.0 | ug/L | | |
| 9318547 | Total Thallium (TI) | 2019/02/11 | 101 | 80 - 120 | 102 | 80 - 120 | <0.010 | ug/L | | |
| 9318547 | Total Tin (Sn) | 2019/02/11 | 101 | 80 - 120 | 103 | 80 - 120 | <5.0 | ug/L | | |
| 9318547 | Total Titanium (Ti) | 2019/02/11 | 98 | 80 - 120 | 101 | 80 - 120 | <5.0 | ug/L | | |
| 9318547 | Total Uranium (U) | 2019/02/11 | 100 | 80 - 120 | 102 | 80 - 120 | <0.10 | ug/L | | |
| 9318547 | Total Vanadium (V) | 2019/02/11 | 99 | 80 - 120 | 100 | 80 - 120 | <5.0 | ug/L | NC | 20 |
| 9318547 | Total Zinc (Zn) | 2019/02/11 | 102 | 80 - 120 | 102 | 80 - 120 | <5.0 | ug/L | NC | 20 |
| 9318547 | Total Zirconium (Zr) | 2019/02/11 | 101 | 80 - 120 | 102 | 80 - 120 | <0.10 | ug/L | | |
| 9318586 | Total Aluminum (AI) | 2019/02/11 | 98 | 80 - 120 | 97 | 80 - 120 | <3.0 | ug/L | 0.91 | 20 |
| 9318586 | Total Antimony (Sb) | 2019/02/11 | 102 | 80 - 120 | 102 | 80 - 120 | <0.50 | ug/L | NC | 20 |
| 9318586 | Total Arsenic (As) | 2019/02/11 | 99 | 80 - 120 | 98 | 80 - 120 | <0.10 | ug/L | NC | 20 |
| 9318586 | Total Barium (Ba) | 2019/02/11 | 98 | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | 0.77 | 20 |
| 9318586 | Total Beryllium (Be) | 2019/02/11 | 95 | 80 - 120 | 94 | 80 - 120 | <0.10 | ug/L | | |
| 9318586 | Total Bismuth (Bi) | 2019/02/11 | 101 | 80 - 120 | 101 | 80 - 120 | <1.0 | ug/L | | |



QUALITY ASSURANCE REPORT(CONT'D)

Capital Regional District
Client Project #: LEECH-METALS

| | | | Matrix | Spike | Spiked | Blank | Method B | Blank | RPI | D |
|----------|-----------------------|------------|------------|-----------|------------|-----------|----------|-------|-----------|-----------|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| 9318586 | Total Boron (B) | 2019/02/11 | 92 | 80 - 120 | 93 | 80 - 120 | <50 | ug/L | NC | 20 |
| 9318586 | Total Cadmium (Cd) | 2019/02/11 | 102 | 80 - 120 | 102 | 80 - 120 | <0.010 | ug/L | NC | 20 |
| 9318586 | Total Chromium (Cr) | 2019/02/11 | 102 | 80 - 120 | 100 | 80 - 120 | <1.0 | ug/L | NC | 20 |
| 9318586 | Total Cobalt (Co) | 2019/02/11 | 102 | 80 - 120 | 99 | 80 - 120 | <0.20 | ug/L | NC | 20 |
| 9318586 | Total Copper (Cu) | 2019/02/11 | 101 | 80 - 120 | 99 | 80 - 120 | <0.20 | ug/L | 1.1 | 20 |
| 9318586 | Total Iron (Fe) | 2019/02/11 | 103 | 80 - 120 | 107 | 80 - 120 | <5.0 | ug/L | 0.093 | 20 |
| 9318586 | Total Lead (Pb) | 2019/02/11 | 101 | 80 - 120 | 101 | 80 - 120 | <0.20 | ug/L | NC | 20 |
| 9318586 | Total Manganese (Mn) | 2019/02/11 | 101 | 80 - 120 | 98 | 80 - 120 | <1.0 | ug/L | 1.7 | 20 |
| 9318586 | Total Molybdenum (Mo) | 2019/02/11 | 102 | 80 - 120 | 101 | 80 - 120 | <1.0 | ug/L | NC | 20 |
| 9318586 | Total Nickel (Ni) | 2019/02/11 | 103 | 80 - 120 | 101 | 80 - 120 | <1.0 | ug/L | 4.1 | 20 |
| 9318586 | Total Selenium (Se) | 2019/02/11 | 96 | 80 - 120 | 97 | 80 - 120 | <0.10 | ug/L | NC | 20 |
| 9318586 | Total Silicon (Si) | 2019/02/11 | 86 | 80 - 120 | 89 | 80 - 120 | <100 | ug/L | 2.4 | 20 |
| 9318586 | Total Silver (Ag) | 2019/02/11 | 101 | 80 - 120 | 100 | 80 - 120 | <0.020 | ug/L | NC | 20 |
| 9318586 | Total Strontium (Sr) | 2019/02/11 | 96 | 80 - 120 | 96 | 80 - 120 | <1.0 | ug/L | | |
| 9318586 | Total Thallium (TI) | 2019/02/11 | 103 | 80 - 120 | 103 | 80 - 120 | <0.010 | ug/L | | |
| 9318586 | Total Tin (Sn) | 2019/02/11 | 100 | 80 - 120 | 100 | 80 - 120 | <5.0 | ug/L | | |
| 9318586 | Total Titanium (Ti) | 2019/02/11 | 103 | 80 - 120 | 99 | 80 - 120 | <5.0 | ug/L | | |
| 9318586 | Total Uranium (U) | 2019/02/11 | 101 | 80 - 120 | 100 | 80 - 120 | <0.10 | ug/L | NC | 20 |
| 9318586 | Total Vanadium (V) | 2019/02/11 | 102 | 80 - 120 | 99 | 80 - 120 | <5.0 | ug/L | NC | 20 |
| 9318586 | Total Zinc (Zn) | 2019/02/11 | NC | 80 - 120 | 103 | 80 - 120 | <5.0 | ug/L | 1.2 | 20 |
| 9318586 | Total Zirconium (Zr) | 2019/02/11 | 99 | 80 - 120 | 96 | 80 - 120 | <0.10 | ug/L | | |
| 9320537 | Total Mercury (Hg) | 2019/02/13 | 97 | 80 - 120 | 93 | 80 - 120 | <0.0020 | ug/L | NC | 20 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



Capital Regional District Client Project #: LEECH-METALS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Rob Reinert, B.Sc., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



CHAIN OF CUSTODY RECC

08464666

BBY FCD-00077/05

| Contact Name | 74 25 41 41 | ad variation droup company | Burnaby: 4 | 606 Canada Way, B | urnaby, BC V5 | G 1K5. Te | all Fre | e (800 |) 665 | -8566 | E | | | | | | CO | :#: | | | | 040 | ,00 | Р | age of |
|--|---|-----------------------------------|--------------|---------------------|----------------|------------|----------|---------|--------|---------|------------------------|------------|------------------|---------------------|----------|--------|---------|----------|-----------------|----------|----------|--------------|---------|----------------------------------|---|
| Contact Name: Contact Name | | Invoice Information | | Report In | formation (if | differs fr | om In | volce) |) | | コ | | | Proje | ct Info | rmatic | n (wh | ere ap | plical | le) | | 工 | | Turnaround Time (T | AT) Required |
| Address: #79 Island Highway Address: #Project #1. Seech - Metals Project #1. Seech - Metals Project #1. Seech - Metals Same Day Days | Company Name: | Capital Regional District | Com | pany Name: | Capital Regio | onal Distr | ict | | | | | Quot | ation | #: | | 3 | | 1 | _ 1 | | -,4 | | | X Regular TAT 5 d | ays (Most analyses) |
| Victoria, BC PC-V98 3H7 | Contact Name: | Christoph Moch | Cont | tact Name: | Christoph M | och, Jessi | ca Du | puis, I | Jennif | er Blar | ney | P.Q. | #/ AFI | E#: | | 4 | | | E . | ¥, | 9. | F | NEASE | E PROVIDE ADVANCE NOT | ICE FOR RUSH PROJEC |
| 1 Day 3 Days 1 Day 3 Days 3 D | Address: | 479 Island Highway | Adde | ress: | 20 y 155 | S A | 3 | 445 | 1,4 | | | Proje | ect #: | | Leech - | Meta | 5 | 9 | | | | I | PI | Rush TAT (Surcharges | will be applied) |
| Beauty Company Compa | | Victoria, BC PC: V9B 1H7 | | | | 1 | PC: | ij. | .5. | | | Site I | ocati | on: | - 1 | åi 🚐 | 1 | 33 | | 1 | | | A.T. | Same Day | 2 Days |
| Regulatory Criteria | Phone: 250-4 | 74-9603 | Phor | ne: CM 250-474 | -9603; JD 250 | 474-964 | 3; JB : | 250-47 | 74-968 | 80 | 6 | Site | #: | | H. | 5 | | 1 | | | 41 | 1 | | 1 Day | 3 Days |
| BECSR Soil BCCSR Water Present Intact Cooler Continue Water Boundary Water Boundary Water Boundary Water Boundary Water Boundary | Email: <u>cmo</u> | ch@crd.bc.ca | Ema | il: <u>crnoch@c</u> | rd.bc.ca; idup | uis@crd.l | oc.ca; | lblane | ey@cr | rd.bc.c | ca | Samj | pled 8 | By: | | | 11. | | 4.3 | -10 | | D | ate R | Required: | N. A. L. |
| RECIST Soll | | Regulatory Criteria | | Special | Instructions | | | | | | | | An | alysis | Reque | ested | | - | | | | R | ush C | | |
| SAMPLES MUST BE REPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM Sample Identification Lab | BC CSR Soil CCME (Specify Drinking Wate | () Other (Spec | lv) | Ship Sa | mple Bottles | | налужа П | | 20 | | Filtered? Preserved? | Preserved? | Field Preserved? | Flekt Preserved? →□ | Sulphate | 00 | Ammonia | | 47. 17. 17. 17. | | | IS SUBMITTED | ANALYZE | CUSTODY SEAL Y N Present Intact | COOLER TEMPERATURES |
| Leech Tunnel 2019-02-06 12:30 water | SAMPLES MI | JST BE KEPT COOL (< 10 °C) FROM | TIME OF SAMP | LING UNTIL DELIVE | RY TO MAXXA | M | 7.0 | | | 2 | Metals | Mercu | 30 | Anna | D Fluc | S S | | i. | | | Ws) | TAINER | | | |
| West Leech 2019-02-06 9:30 water X X X 3 4 Chris Creek 2019-02-05 10:30 water X X X 5 5 Leech Head 2019-02-05 9:30 water X X X 5 6 Weeks Out 2019-02-05 9:45 water X X X 5 7 8 8 9 B909536_COC B909536 | Sar | mple Identification | | | Sampled | Metrix | STEX/VPH | □ Ha∃ | | ссме-ьн | Dissolved | Dissolved | Total Met | Total Mer | 100 | 4.5 | | Bromate | Bromide | | DBPs (TH | # OF CON | 146 | | |
| 2 Cragg 2019-02-05 12:00 water X X X 4 4 Chris Creek 2019-02-05 10:30 water X X X 5 Leech Head 2019-02-05 9:30 water X X X 5 Leech Head 2019-02-05 9:45 water X X X 7 7 8 8 8 9 8 9 8 9 8 9 8 9 9 8 9 8 9 9 8 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 8 9 9 9 9 8 9 | 1 Leech Tunn | nel | j | 2019-02-06 | 12:30 | water | | | | | | 72- | Х | Х | | | | | | | 12 | 41.60 | | | N 53 |
| 4 Chris Creek 2019-02-05 10:30 water X X X 5 Leech Head 2019-02-05 9:30 water X X X 6 Weeks Out 2019-02-05 9:45 water X X X 8 8 8 8 9 8 9 8 8 8 8 9 8 9 8 8 8 8 | 2 West Leech | 1 | | 2019-02-06 | 9:30 | water | | | | | | | Х | Х | | | | | | | 777 | | | | |
| Second S | 3 Cragg | | | 2019-02-05 | 12:00 | water | | | | | | | Х | Х | | | | | | | | 1 | | | |
| 6 Weeks Out 2019-02-05 9:45 water X X X B909536_COC B909556_COC B909556_COC B909556_COC B909556_COC B909556_COC B909556_COC B909556_COC B90956_COC B909556_COC B909556_COC B90956_COC B90956_COC B90956_COC B90956_COC B90956_COC B90956_COC B90956_COC B90956_COC B90956_COC | 4 Chris Creek | , | | 2019-02-05 | 10:30 | water | | | | | | | Х | Х | | | | | | | T | | | | |
| 8 B909536_COC REUNQUISHED BY: (Signature/Print) DATE: (YYYY/MM/DD) TIME: (HH:MM) RECEIVED BY: (Signature/Print) DATE: (YYYY/MM/DD) TIME: (HH:MM) MAXXAM JOB # | 5 Leech Head | d | | 2019-02-05 | 9:30 | water | | | П | | | | х | х | | | | | Г | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
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| B909536_COC RELINQUISHED BY: (Signature/Print) DATE: (YYYY/MM/DD) TIME: (HH:MM) RECEIVED BY: (Signature/Print) DATE: (YYYY/MM/DD) TIME: (HH:MM) MAXXAM JOB # | 8 | | | | | | | | \Box | | | | | | \neg | | \top | T | | \Box | | | | | |
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| Enghie Vigne SUPHIE NEWS 2019/00/07 1401 Di/(Martin 2019/02/07 1401 | | D BY: (Signature/Print) DATE | : (YYYY/MM/I | DD) TIME: (HH: | MM) | RECE | IVED | BY: (5 | ignati | ure/Pr | rint) | | | DA | E: (YY | YY/MI | u/DD) | TI | ME: (I | H:MN | 1) | | 4 | MAXXAM JO | B# |
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| | a)price + | | | | - | | -/ | _ | LIN | 111 | _ | | | Ť | | - | ,0 | T | 1-1 | νį | ┪ | | | | |