



Manitoba Metis Federation  
ATTN: BRYANNA SHERBO  
300 - 150 Henry Avenue  
Winnipeg MB R3B0J7

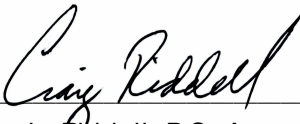
Date Received: 31- AUG- 21  
Report Date: 08- SEP- 21 16:55 (MT)  
Version: FINAL

Client Phone: 204- 586- 8474

## Certificate of Analysis

Lab Work Order #: L2634011  
Project P.O. #: NOT SUBMITTED  
Job Reference:  
C of C Numbers:  
Legal Site Desc:

Comments: ADDITIONAL 31- AUG- 21 16:45

  
\_\_\_\_\_  
Craig Biddell, B.Sc.Ag  
Account Manager

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# ANALYTICAL REPORT

## Physical Tests (WATER)

|                     |          |                |                | ALS ID                  | L2634011-1              | L2634011-2              | L2634011-3             | L2634011-4              | L2634011-5     |
|---------------------|----------|----------------|----------------|-------------------------|-------------------------|-------------------------|------------------------|-------------------------|----------------|
|                     |          |                |                | Sampled Date            | 30-AUG-21               | 30-AUG-21               | 30-AUG-21              | 30-AUG-21               | 30-AUG-21      |
|                     |          |                |                | Sampled Time            | 14:00                   | 14:00                   | 14:00                  | 14:00                   | 14:00          |
|                     |          |                |                | Sample ID               | <b>K1 - 0M 0</b>        | <b>K1 - 2.5M</b>        | <b>K2 - 0M</b>         | <b>C3 - 0M CAMP</b>     | <b>C4 - 0M</b> |
| Analyte             | Unit     | Guide Limit #1 | Guide Limit #2 |                         |                         |                         |                        |                         |                |
| Conductivity        | umhos/cm | -              | -              | 108                     | 109                     | 102                     | 269                    | 220                     |                |
| Hardness (as CaCO3) | mg/L     | -              | -              | 45.9 <small>HTC</small> | 49.2 <small>HTC</small> | 43.4 <small>HTC</small> | 115 <small>HTC</small> | 94.2 <small>HTC</small> |                |
| pH                  | pH units | 7.00-10.5      | -              | 7.40                    | 7.41                    | 7.44                    | 7.20                   | 7.07                    |                |
| TDS (Calculated)    | mg/L     | 500            | -              | 57.4                    | 59.6                    | 53.6                    | 166                    | 134                     |                |
| Turbidity           | NTU      | -              | -              | 2.10                    | 2.26                    | 2.24                    | 7.50                   | 7.77                    |                |

**Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)**

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

## Physical Tests (WATER)

|                     |          |                |                | ALS ID                 | L2634011-6              | L2634011-7                 | L2634011-8           |
|---------------------|----------|----------------|----------------|------------------------|-------------------------|----------------------------|----------------------|
|                     |          |                |                | Sampled Date           | 30-AUG-21               | 30-AUG-21                  | 30-AUG-21            |
|                     |          |                |                | Sampled Time           | 14:00                   | 14:00                      | 14:00                |
|                     |          |                |                | Sample ID              | <b>C4 - 3M</b>          | <b>P5 - SPAWNING CREEK</b> | <b>S6 - SHERLETT</b> |
| Analyte             | Unit     | Guide Limit #1 | Guide Limit #2 |                        |                         |                            |                      |
| Conductivity        | umhos/cm | -              | -              | 252                    | 75.5                    | 85.7                       |                      |
| Hardness (as CaCO3) | mg/L     | -              | -              | 126 <small>HTC</small> | 33.7 <small>HTC</small> | 37.7 <small>HTC</small>    |                      |
| pH                  | pH units | 7.00-10.5      | -              | 7.85                   | 7.36                    | 7.24                       |                      |
| TDS (Calculated)    | mg/L     | 500            | -              | 160                    | 37.5                    | 44.0                       |                      |
| Turbidity           | NTU      | -              | -              | 180                    | 2.64                    | 3.90                       |                      |

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Detection Limit for result exceeds Guide Limit. Assessment against Guide Limit cannot be made.

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\* Please refer to the Reference Information section for an explanation of any qualifiers noted.

# ANALYTICAL REPORT

## Anions and Nutrients (WATER)

|                              |      | ALS ID         |                | L2634011-1       | L2634011-2       | L2634011-3     | L2634011-4          | L2634011-5     |
|------------------------------|------|----------------|----------------|------------------|------------------|----------------|---------------------|----------------|
|                              |      | Sampled Date   |                | 30-AUG-21        | 30-AUG-21        | 30-AUG-21      | 30-AUG-21           | 30-AUG-21      |
|                              |      | Sampled Time   |                | 14:00            | 14:00            | 14:00          | 14:00               | 14:00          |
|                              |      | Sample ID      |                | <b>K1 - 0M 0</b> | <b>K1 - 2.5M</b> | <b>K2 - 0M</b> | <b>C3 - 0M CAMP</b> | <b>C4 - 0M</b> |
| Analyte                      | Unit | Guide Limit #1 | Guide Limit #2 |                  |                  |                |                     |                |
| Alkalinity, Total (as CaCO3) | mg/L | -              | -              | 25.1             | 25.3             | 25.7           | 13.4                | 12.7           |
| Bicarbonate (HCO3)           | mg/L | -              | -              | 30.6             | 30.9             | 31.4           | 16.3                | 15.5           |
| Carbonate (CO3)              | mg/L | -              | -              | <0.60            | <0.60            | <0.60          | <0.60               | <0.60          |
| Chloride (Cl)                | mg/L | 250            | -              | 0.79             | 0.74             | 0.76           | 0.82                | 0.91           |
| Fluoride (F)                 | mg/L | -              | 1.5            | 0.074            | 0.075            | 0.074          | 0.100               | 0.090          |
| Hydroxide (OH)               | mg/L | -              | -              | <0.34            | <0.34            | <0.34          | <0.34               | <0.34          |
| Nitrate and Nitrite as N     | mg/L | -              | 10             | 0.0243           | 0.0232           | 0.0132         | 0.0240              | 0.0288         |
| Nitrate (as N)               | mg/L | -              | 10             | 0.0243           | 0.0232           | 0.0119         | 0.0240              | 0.0288         |
| Nitrite (as N)               | mg/L | -              | 1              | <0.0010          | <0.0010          | 0.0013         | <0.0010             | <0.0010        |
| Sulfate (SO4)                | mg/L | 500            | -              | 22.0             | 22.6             | 18.9           | 110                 | 86.4           |

**Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)**

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#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

## Anions and Nutrients (WATER)

|                              |      | ALS ID         |                | L2634011-6     | L2634011-7                 | L2634011-8           |
|------------------------------|------|----------------|----------------|----------------|----------------------------|----------------------|
|                              |      | Sampled Date   |                | 30-AUG-21      | 30-AUG-21                  | 30-AUG-21            |
|                              |      | Sampled Time   |                | 14:00          | 14:00                      | 14:00                |
|                              |      | Sample ID      |                | <b>C4 - 3M</b> | <b>P5 - SPAWNING CREEK</b> | <b>S6 - SHERLETT</b> |
| Analyte                      | Unit | Guide Limit #1 | Guide Limit #2 |                |                            |                      |
| Alkalinity, Total (as CaCO3) | mg/L | -              | -              | 26.8           | 29.2                       | 28.9                 |
| Bicarbonate (HCO3)           | mg/L | -              | -              | 32.7           | 35.6                       | 35.3                 |
| Carbonate (CO3)              | mg/L | -              | -              | <0.60          | <0.60                      | <0.60                |
| Chloride (Cl)                | mg/L | 250            | -              | 0.89           | 1.29                       | 2.79                 |
| Fluoride (F)                 | mg/L | -              | 1.5            | 0.103          | 0.067                      | 0.062                |
| Hydroxide (OH)               | mg/L | -              | -              | <0.34          | <0.34                      | <0.34                |
| Nitrate and Nitrite as N     | mg/L | -              | 10             | 0.0420         | 0.0175                     | 0.0174               |
| Nitrate (as N)               | mg/L | -              | 10             | 0.0399         | 0.0175                     | 0.0160               |
| Nitrite (as N)               | mg/L | -              | 1              | 0.0021         | <0.0010                    | 0.0014               |
| Sulfate (SO4)                | mg/L | 500            | -              | 91.1           | 4.05                       | 6.29                 |

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**Total Metals (WATER)**

| Analyte               | Unit | ALS ID         |                | L2634011-1                                    | L2634011-2                      | L2634011-3                    | L2634011-4                         | L2634011-5                    |
|-----------------------|------|----------------|----------------|---|---------------------------------|-------------------------------|------------------------------------|-------------------------------|
|                       |      | Guide Limit #1 | Guide Limit #2 | 30-AUG-21<br>14:00<br>K1 - 0M 0<br>KISSISSING | 30-AUG-21<br>14:00<br>K1 - 2.5M | 30-AUG-21<br>14:00<br>K2 - 0M | 30-AUG-21<br>14:00<br>C3 - 0M CAMP | 30-AUG-21<br>14:00<br>C4 - 0M |
| Aluminum (Al)-Total   | mg/L | 0.1            | 2.9            | 0.0761  | 0.0801                          | 0.0713                        | 0.0723                             | 0.0810                        |
| Antimony (Sb)-Total   | mg/L | -              | 0.006          | <0.00010                                      | <0.00010                        | <0.00010                      | <0.00010                           | <0.00010                      |
| Arsenic (As)-Total    | mg/L | -              | 0.01           | 0.00052                                       | 0.00050                         | 0.00051                       | 0.00042                            | 0.00048                       |
| Barium (Ba)-Total     | mg/L | -              | 2              | 0.00894                                       | 0.00958                         | 0.00866                       | 0.00983                            | 0.0105                        |
| Beryllium (Be)-Total  | mg/L | -              | -              | <0.00010                                      | <0.00010                        | <0.00010                      | <0.00010                           | <0.00010                      |
| Bismuth (Bi)-Total    | mg/L | -              | -              | <0.000050                                     | <0.000050                       | <0.000050                     | <0.000050                          | <0.000050                     |
| Boron (B)-Total       | mg/L | -              | 5              | <0.010  | <0.010                          | <0.010                        | <0.010                             | <0.010                        |
| Cadmium (Cd)-Total    | mg/L | -              | 0.005          | 0.0000661                                     | 0.0000816                       | 0.0000551                     | 0.000315                           | 0.000366                      |
| Calcium (Ca)-Total    | mg/L | -              | -              | 12.3  | 13.7                            | 11.5                          | 35.0                               | 28.0                          |
| Cesium (Cs)-Total     | mg/L | -              | -              | <0.000010                                     | <0.000010                       | <0.000010                     | <0.000010                          | 0.000011                      |
| Chromium (Cr)-Total   | mg/L | -              | 0.05           | 0.00017                                       | 0.00021                         | 0.00016                       | 0.00014                            | 0.00020                       |
| Cobalt (Co)-Total     | mg/L | -              | -              | <0.00010                                      | <0.00010                        | <0.00010                      | 0.00017                            | 0.00021                       |
| Copper (Cu)-Total     | mg/L | 1              | 2              | 0.00755                                       | 0.00835                         | 0.00675                       | 0.0136                             | 0.0150                        |
| Iron (Fe)-Total       | mg/L | 0.3            | -              | 0.807   | 0.851                           | 0.601                         | 5.38                               | 6.41                          |
| Lead (Pb)-Total       | mg/L | -              | 0.005          | 0.000085                                      | 0.000094                        | 0.000099                      | 0.000197                           | 0.000267                      |
| Lithium (Li)-Total    | mg/L | -              | -              | 0.0028  | 0.0030                          | 0.0027                        | 0.0047                             | 0.0047                        |
| Magnesium (Mg)-Total  | mg/L | -              | -              | 3.66  | 3.63                            | 3.59                          | 6.82                               | 5.93                          |
| Manganese (Mn)-Total  | mg/L | 0.02           | 0.12           | 0.0152  | 0.0169                          | 0.0141                        | 0.0499                             | 0.0516                        |
| Molybdenum (Mo)-Total | mg/L | -              | -              | 0.000078                                      | 0.000092                        | 0.000061                      | 0.000084                           | 0.000124                      |
| Nickel (Ni)-Total     | mg/L | -              | -              | 0.00060                                       | 0.00063                         | 0.00056                       | 0.00085                            | 0.00096                       |
| Phosphorus (P)-Total  | mg/L | -              | -              | <0.030  | <0.030                          | <0.030                        | <0.030                             | <0.030                        |
| Potassium (K)-Total   | mg/L | -              | -              | 1.46  | 1.59                            | 1.41                          | 2.93                               | 2.87                          |
| Rubidium (Rb)-Total   | mg/L | -              | -              | 0.00166                                       | 0.00160                         | 0.00165                       | 0.00354                            | 0.00319                       |
| Selenium (Se)-Total   | mg/L | -              | 0.05           | 0.000096                                      | 0.000082                        | 0.000081                      | 0.000145                           | 0.000091                      |
| Silicon (Si)-Total    | mg/L | -              | -              | 1.28  | 1.30                            | 1.10                          | 1.52                               | 1.57                          |
| Silver (Ag)-Total     | mg/L | -              | -              | <0.000010                                     | <0.000010                       | <0.000010                     | <0.000010                          | <0.000010                     |
| Sodium (Na)-Total     | mg/L | 200            | -              | 1.95  | 2.04                            | 1.94                          | 2.32                               | 2.47                          |
| Strontium (Sr)-Total  | mg/L | -              | 7              | 0.0279  | 0.0291                          | 0.0279                        | 0.0421                             | 0.0407                        |
| Sulfur (S)-Total      | mg/L | -              | -              | 7.74  | 7.63                            | 6.38                          | 38.5                               | 29.3                          |
| Tellurium (Te)-Total  | mg/L | -              | -              | <0.00020                                      | <0.00020                        | <0.00020                      | <0.00020                           | <0.00020                      |
| Thallium (Tl)-Total   | mg/L | -              | -              | <0.000010                                     | <0.000010                       | <0.000010                     | <0.000010                          | 0.000024                      |
| Thorium (Th)-Total    | mg/L | -              | -              | <0.00010                                      | <0.00010                        | <0.00010                      | <0.00010                           | <0.00010                      |
| Tin (Sn)-Total        | mg/L | -              | -              | <0.00010                                      | <0.00010                        | <0.00010                      | <0.00010                           | <0.00010                      |

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# ANALYTICAL REPORT

## Total Metals (WATER)

|                       |      | ALS ID         |                | L2634011-6     | L2634011-7                 | L2634011-8           |
|-----------------------|------|----------------|----------------|----------------|----------------------------|----------------------|
|                       |      | Sampled Date   |                | 30-AUG-21      | 30-AUG-21                  | 30-AUG-21            |
|                       |      | Sampled Time   |                | 14:00          | 14:00                      | 14:00                |
|                       |      | Sample ID      |                | <b>C4 - 3M</b> | <b>P5 - SPAWNING CREEK</b> | <b>S6 - SHERLETT</b> |
| Analyte               | Unit | Guide Limit #1 | Guide Limit #2 |                |                            |                      |
| Aluminum (Al)-Total   | mg/L | 0.1            | 2.9            | 1.20           | 0.0820                     | 0.176                |
| Antimony (Sb)-Total   | mg/L | -              | 0.006          | <0.00010       | <0.00010                   | <0.00010             |
| Arsenic (As)-Total    | mg/L | -              | 0.01           | 0.00102        | 0.00053                    | 0.00059              |
| Barium (Ba)-Total     | mg/L | -              | 2              | 0.0218         | 0.00850                    | 0.00949              |
| Beryllium (Be)-Total  | mg/L | -              | -              | <0.00010       | <0.00010                   | <0.00010             |
| Bismuth (Bi)-Total    | mg/L | -              | -              | <0.000050      | <0.000050                  | <0.000050            |
| Boron (B)-Total       | mg/L | -              | 5              | <0.010         | <0.010                     | <0.010               |
| Cadmium (Cd)-Total    | mg/L | -              | 0.005          | 0.00199        | 0.0000991                  | 0.000212             |
| Calcium (Ca)-Total    | mg/L | -              | -              | 39.8           | 8.35                       | 10.1                 |
| Cesium (Cs)-Total     | mg/L | -              | -              | 0.000085       | <0.000010                  | 0.000016             |
| Chromium (Cr)-Total   | mg/L | -              | 0.05           | 0.00187        | 0.00021                    | 0.00041              |
| Cobalt (Co)-Total     | mg/L | -              | -              | 0.00494        | 0.00011                    | 0.00026              |
| Copper (Cu)-Total     | mg/L | 1              | 2              | 0.0841         | 0.00713                    | 0.0102               |
| Iron (Fe)-Total       | mg/L | 0.3            | -              | 36.5           | 0.562                      | 0.638                |
| Lead (Pb)-Total       | mg/L | -              | 0.005          | 0.00142        | 0.000178                   | 0.000148             |
| Lithium (Li)-Total    | mg/L | -              | -              | 0.0055         | 0.0023                     | 0.0026               |
| Magnesium (Mg)-Total  | mg/L | -              | -              | 6.38           | 3.12                       | 3.05                 |
| Manganese (Mn)-Total  | mg/L | 0.02           | 0.12           | 0.504          | 0.0402                     | 0.0555               |
| Molybdenum (Mo)-Total | mg/L | -              | -              | 0.000220       | 0.000059                   | 0.000150             |
| Nickel (Ni)-Total     | mg/L | -              | -              | 0.00470        | 0.00056                    | 0.00071              |
| Phosphorus (P)-Total  | mg/L | -              | -              | 0.043          | <0.030                     | <0.030               |
| Potassium (K)-Total   | mg/L | -              | -              | 3.15           | 1.08                       | 1.30                 |
| Rubidium (Rb)-Total   | mg/L | -              | -              | 0.00462        | 0.00152                    | 0.00178              |
| Selenium (Se)-Total   | mg/L | -              | 0.05           | 0.000478       | 0.000053                   | 0.000056             |
| Silicon (Si)-Total    | mg/L | -              | -              | 4.54           | 0.52                       | 1.81                 |
| Silver (Ag)-Total     | mg/L | -              | -              | 0.000048       | <0.000010                  | <0.000010            |
| Sodium (Na)-Total     | mg/L | 200            | -              | 2.55           | 2.07                       | 3.07                 |
| Strontium (Sr)-Total  | mg/L | -              | 7              | 0.0458         | 0.0252                     | 0.0264               |
| Sulfur (S)-Total      | mg/L | -              | -              | 30.5           | 1.32                       | 1.94                 |
| Tellurium (Te)-Total  | mg/L | -              | -              | <0.00020       | <0.00020                   | <0.00020             |
| Thallium (Tl)-Total   | mg/L | -              | -              | 0.000019       | <0.000010                  | <0.000010            |
| Thorium (Th)-Total    | mg/L | -              | -              | 0.00022        | <0.00010                   | <0.00010             |
| Tin (Sn)-Total        | mg/L | -              | -              | <0.00010       | <0.00010                   | <0.00010             |

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**Total Metals (WATER)**

|                      |      | ALS ID         |                | L2634011-1       | L2634011-2       | L2634011-3     | L2634011-4          | L2634011-5     |
|----------------------|------|----------------|----------------|------------------|------------------|----------------|---------------------|----------------|
|                      |      | Sampled Date   |                | 30-AUG-21        | 30-AUG-21        | 30-AUG-21      | 30-AUG-21           | 30-AUG-21      |
|                      |      | Sampled Time   |                | 14:00            | 14:00            | 14:00          | 14:00               | 14:00          |
|                      |      | Sample ID      |                | <b>K1 - 0M 0</b> | <b>K1 - 2.5M</b> | <b>K2 - 0M</b> | <b>C3 - 0M CAMP</b> | <b>C4 - 0M</b> |
| Analyte              | Unit | Guide Limit #1 | Guide Limit #2 |                  |                  |                |                     |                |
| Titanium (Ti)-Total  | mg/L | -              | -              | 0.00175          | 0.00210          | 0.00174        | 0.00180             | 0.00211        |
| Tungsten (W)-Total   | mg/L | -              | -              | <0.00010         | <0.00010         | <0.00010       | <0.00010            | <0.00010       |
| Uranium (U)-Total    | mg/L | -              | 0.02           | 0.000047         | 0.000053         | 0.000048       | 0.000043            | 0.000066       |
| Vanadium (V)-Total   | mg/L | -              | -              | <0.00050         | <0.00050         | <0.00050       | <0.00050            | <0.00050       |
| Zinc (Zn)-Total      | mg/L | 5              | -              | 0.0300           | 0.0347           | 0.0235         | 0.0861              | 0.0883         |
| Zirconium (Zr)-Total | mg/L | -              | -              | <0.00020         | <0.00020         | <0.00020       | <0.00020            | <0.00020       |

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**Total Metals (WATER)**

|                      |      | ALS ID         |                | L2634011-6     | L2634011-7                 | L2634011-8           |
|----------------------|------|----------------|----------------|----------------|----------------------------|----------------------|
|                      |      | Sampled Date   |                | 30-AUG-21      | 30-AUG-21                  | 30-AUG-21            |
|                      |      | Sampled Time   |                | 14:00          | 14:00                      | 14:00                |
|                      |      | Sample ID      |                | <b>C4 - 3M</b> | <b>P5 - SPAWNING CREEK</b> | <b>S6 - SHERLETT</b> |
| Analyte              | Unit | Guide Limit #1 | Guide Limit #2 |                |                            |                      |
| Titanium (Ti)-Total  | mg/L | -              | -              | 0.0449         | 0.00219                    | 0.00740              |
| Tungsten (W)-Total   | mg/L | -              | -              | <0.00010       | <0.00010                   | <0.00010             |
| Uranium (U)-Total    | mg/L | -              | 0.02           | 0.000261       | 0.000048                   | 0.000057             |
| Vanadium (V)-Total   | mg/L | -              | -              | 0.00262        | <0.00050                   | 0.00053              |
| Zinc (Zn)-Total      | mg/L | 5              | -              | 0.677          | 0.0439                     | 0.0919               |
| Zirconium (Zr)-Total | mg/L | -              | -              | 0.00049        | <0.00020                   | 0.00028              |

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Detection Limit for result exceeds Guide Limit. Assessment against Guide Limit cannot be made.

Analytical result for this parameter exceeds Guide Limit listed on this report.

\* Please refer to the Reference Information section for an explanation of any qualifiers noted.

## Reference Information

## Qualifiers for Individual Parameters Listed:

| Qualifier | Description  |
|-----------|--|
| HTC       | Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable). |

## Methods Listed (if applicable):

| ALS Test Code   | Matrix | Test Description                          | Method Reference**     |
|---|--------|---|------------------------|
| <b>ALK-CO3CO3-CALC-WP</b>   | Water  | Alkalinity, Carbonate                     | CALCULATION            |
| The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO <sub>3</sub> 2-/L.  |        |   |                        |
| <b>ALK-HCO3HCO3-CALC-WP</b>   | Water  | Alkalinity, Bicarbonate                   | CALCULATION            |
| The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO <sub>3</sub> -/L.  |        |   |                        |
| <b>ALK-OHOH-CALC-WP</b>   | Water  | Alkalinity, Hydroxide                     | CALCULATION            |
| The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.   |        |   |                        |
| <b>ALK-TITR-WP</b>  | Water  | Alkalinity, Total (as CaCO <sub>3</sub> ) | APHA 2320B             |
| The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO <sub>3</sub> - and H <sub>2</sub> CO <sub>3</sub> endpoints indicated electrometrically.                                      |        |   |                        |
| <b>CL-L-IC-N-WP</b>   | Water  | Chloride in Water by IC (Low Level)       | EPA 300.1 (mod)        |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.  |        |   |                        |
| <b>EC-WP</b>  | Water  | Conductivity                              | APHA 2510B             |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.  |        |   |                        |
| <b>ETL-SOLIDS-CALC-WP</b>   | Water  | TDS calculated                            | CALCULATION            |
| <b>F-IC-N-WP</b>  | Water  | Fluoride in Water by IC                   | EPA 300.1 (mod)        |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.  |        |   |                        |
| <b>HARDNESS-CALC-WP</b>   | Water  | Hardness Calculated                       | APHA 2340B             |
| Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.  |        |   |                        |
| <b>IONBALANCE-CALC-WP</b>   | Water  | Ion Balance Calculation                   | APHA 1030E             |
| Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.   |        |   |                        |
| Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance (as % difference) cannot be calculated accurately for waters with very low electrical conductivity (EC), and is reported as "Low EC" where EC < 100 uS/cm (umhos/cm). Ion Balance is calculated as: |        |   |                        |
| Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]   |        |   |                        |
| <b>MET-T-CCMS-WP</b>  | Water  | Total Metals in Water by CRC ICPMS        | EPA 200.2/6020B (mod.) |
| Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.   |        |   |                        |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.  |        |   |                        |
| <b>NO2+NO3-CALC-L-WP</b>  | Water  | Nitrate+Nitrite                           | CALCULATION            |
| <b>NO2-L-IC-N-WP</b>  | Water  | Nitrite in Water by IC (Low Level)        | EPA 300.1 (mod)        |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.  |        |   |                        |



## Reference Information

**Methods Listed (if applicable):**

| ALS Test Code   | Matrix | Test Description                   | Method Reference**    |
|---|--------|------------------------------------|-----------------------|
| <b>NO3-L-IC-N-WP</b>  | Water  | Nitrate in Water by IC (Low Level) | EPA 300.1 (mod)       |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.  |        |                                    |                       |
| <b>PH-WP</b>  | Water  | pH                                 | APHA 4500H            |
| The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode. |        |                                    |                       |
| <b>SO4-IC-N-WP</b>  | Water  | Sulfate in Water by IC             | EPA 300.1 (mod)       |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.  |        |                                    |                       |
| <b>TURBIDITY-WP</b>   | Water  | Turbidity                          | APHA 2130B (modified) |
| Turbidity in aqueous matrices is determined by the nephelometric method.  |        |                                    |                       |

\*\*ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                            |
|----------------------------|--|
| WP                         | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

**GLOSSARY OF REPORT TERMS**

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

- mg/kg - milligrams per kilogram based on dry weight of sample*
- mg/kg wwt - milligrams per kilogram based on wet weight of sample*
- mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*
- mg/L - unit of concentration based on volume, parts per million.*
- < - Less than.*
- D.L. - The reporting limit.*
- N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

*Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.*



# Quality Control Report

Workorder: L2634011

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                         | Matrix | Reference  | Result | Qualifier | Units    | RPD | Limit  | Analyzed  |
|------------------------------|--------|------------|--------|-----------|----------|-----|--------|-----------|
| ALK-TITR-WP Water            |        |            |        |           |          |     |        |           |
| Batch R5574658               |        |            |        |           |          |     |        |           |
| WG3610008-20                 | DUP    | L2634012-1 |        |           |          |     |        |           |
| Alkalinity, Total (as CaCO3) |        |            | 66.6   | 66.2      | mg/L     | 0.6 | 20     | 01-SEP-21 |
| WG3610008-19                 | LCS    |            |        |           |          |     |        |           |
| Alkalinity, Total (as CaCO3) |        |            |        | 98.9      | %        |     | 85-115 | 01-SEP-21 |
| WG3610008-16                 | MB     |            |        |           |          |     |        |           |
| Alkalinity, Total (as CaCO3) |        |            |        | <1.0      | mg/L     |     | 1      | 01-SEP-21 |
| CL-L-IC-N-WP Water           |        |            |        |           |          |     |        |           |
| Batch R5575365               |        |            |        |           |          |     |        |           |
| WG3609315-15                 | DUP    | L2634011-1 |        |           |          |     |        |           |
| Chloride (Cl)                |        |            | 0.79   | 0.74      | mg/L     | 5.8 | 20     | 01-SEP-21 |
| WG3609315-7                  | DUP    | L2633977-1 |        |           |          |     |        |           |
| Chloride (Cl)                |        |            | 3.16   | 3.07      | mg/L     | 2.8 | 20     | 01-SEP-21 |
| WG3609315-14                 | LCS    |            |        |           |          |     |        |           |
| Chloride (Cl)                |        |            |        | 101.7     | %        |     | 90-110 | 01-SEP-21 |
| WG3609315-6                  | LCS    |            |        |           |          |     |        |           |
| Chloride (Cl)                |        |            |        | 101.8     | %        |     | 90-110 | 01-SEP-21 |
| WG3609315-13                 | MB     |            |        |           |          |     |        |           |
| Chloride (Cl)                |        |            |        | <0.10     | mg/L     |     | 0.1    | 01-SEP-21 |
| WG3609315-5                  | MB     |            |        |           |          |     |        |           |
| Chloride (Cl)                |        |            |        | <0.10     | mg/L     |     | 0.1    | 01-SEP-21 |
| WG3609315-16                 | MS     | L2634011-1 |        |           |          |     |        |           |
| Chloride (Cl)                |        |            |        | 104.5     | %        |     | 75-125 | 01-SEP-21 |
| WG3609315-8                  | MS     | L2633977-1 |        |           |          |     |        |           |
| Chloride (Cl)                |        |            |        | 104.7     | %        |     | 75-125 | 01-SEP-21 |
| EC-WP Water                  |        |            |        |           |          |     |        |           |
| Batch R5574658               |        |            |        |           |          |     |        |           |
| WG3610008-20                 | DUP    | L2634012-1 |        |           |          |     |        |           |
| Conductivity                 |        |            | 381    | 381       | umhos/cm | 0.0 | 10     | 01-SEP-21 |
| WG3610008-18                 | LCS    |            |        |           |          |     |        |           |
| Conductivity                 |        |            |        | 98.9      | %        |     | 90-110 | 01-SEP-21 |
| WG3610008-16                 | MB     |            |        |           |          |     |        |           |
| Conductivity                 |        |            |        | <1.0      | umhos/cm |     | 1      | 01-SEP-21 |
| F-IC-N-WP Water              |        |            |        |           |          |     |        |           |
| Batch R5575365               |        |            |        |           |          |     |        |           |
| WG3609315-15                 | DUP    | L2634011-1 |        |           |          |     |        |           |
| Fluoride (F)                 |        |            | 0.074  | 0.075     | mg/L     | 1.2 | 20     | 01-SEP-21 |
| WG3609315-7                  | DUP    | L2633977-1 |        |           |          |     |        |           |



# Quality Control Report

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                 | Matrix          | Reference          | Result    | Qualifier | Units | RPD       | Limit   | Analyzed  |
|----------------------|-----------------|--------------------|-----------|-----------|-------|-----------|---------|-----------|
| F-IC-N-WP            |                 | Water              |           |           |       |           |         |           |
| <b>Batch</b>         | <b>R5575365</b> |                    |           |           |       |           |         |           |
| <b>WG3609315-7</b>   | <b>DUP</b>      | <b>L2633977-1</b>  |           |           |       |           |         |           |
| Fluoride (F)         |                 | 0.091              | 0.089     |           | mg/L  | 1.8       | 20      | 01-SEP-21 |
| <b>WG3609315-14</b>  | <b>LCS</b>      |                    |           |           |       |           |         |           |
| Fluoride (F)         |                 |                    | 103.3     |           | %     |           | 90-110  | 01-SEP-21 |
| <b>WG3609315-6</b>   | <b>LCS</b>      |                    |           |           |       |           |         |           |
| Fluoride (F)         |                 |                    | 104.0     |           | %     |           | 90-110  | 01-SEP-21 |
| <b>WG3609315-13</b>  | <b>MB</b>       |                    |           |           |       |           |         |           |
| Fluoride (F)         |                 |                    | <0.020    |           | mg/L  |           | 0.02    | 01-SEP-21 |
| <b>WG3609315-5</b>   | <b>MB</b>       |                    |           |           |       |           |         |           |
| Fluoride (F)         |                 |                    | <0.020    |           | mg/L  |           | 0.02    | 01-SEP-21 |
| <b>WG3609315-16</b>  | <b>MS</b>       | <b>L2634011-1</b>  |           |           |       |           |         |           |
| Fluoride (F)         |                 |                    | 107.6     |           | %     |           | 75-125  | 01-SEP-21 |
| <b>WG3609315-8</b>   | <b>MS</b>       | <b>L2633977-1</b>  |           |           |       |           |         |           |
| Fluoride (F)         |                 |                    | 108.3     |           | %     |           | 75-125  | 01-SEP-21 |
| MET-T-CCMS-WP        |                 | Water              |           |           |       |           |         |           |
| <b>Batch</b>         | <b>R5575700</b> |                    |           |           |       |           |         |           |
| <b>WG3609076-4</b>   | <b>DUP</b>      | <b>WG3609076-3</b> |           |           |       |           |         |           |
| Aluminum (Al)-Total  |                 | 0.0171             | 0.0127    | J         | mg/L  | 0.0044    | 0.006   | 01-SEP-21 |
| Antimony (Sb)-Total  |                 | 0.0695             | 0.0725    |           | mg/L  | 4.2       | 20      | 01-SEP-21 |
| Arsenic (As)-Total   |                 | 0.0836             | 0.0829    |           | mg/L  | 0.8       | 20      | 01-SEP-21 |
| Barium (Ba)-Total    |                 | 0.0602             | 0.0582    |           | mg/L  | 3.5       | 20      | 01-SEP-21 |
| Beryllium (Be)-Total |                 | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A       | 20      | 01-SEP-21 |
| Bismuth (Bi)-Total   |                 | <0.000050          | <0.000050 | RPD-NA    | mg/L  | N/A       | 20      | 01-SEP-21 |
| Boron (B)-Total      |                 | 0.146              | 0.158     |           | mg/L  | 7.8       | 20      | 01-SEP-21 |
| Cadmium (Cd)-Total   |                 | 0.0000052          | 0.0000063 | J         | mg/L  | 0.0000012 | 0.00001 | 01-SEP-21 |
| Calcium (Ca)-Total   |                 | 379                | 414       |           | mg/L  | 8.8       | 20      | 01-SEP-21 |
| Cesium (Cs)-Total    |                 | 0.000283           | 0.000283  |           | mg/L  | 0.2       | 20      | 01-SEP-21 |
| Chromium (Cr)-Total  |                 | 0.00013            | 0.00015   |           | mg/L  | 12        | 20      | 01-SEP-21 |
| Cobalt (Co)-Total    |                 | 0.0356             | 0.0353    |           | mg/L  | 0.9       | 20      | 01-SEP-21 |
| Copper (Cu)-Total    |                 | 0.00132            | 0.00129   |           | mg/L  | 2.5       | 20      | 01-SEP-21 |
| Iron (Fe)-Total      |                 | 1.88               | 1.87      |           | mg/L  | 0.6       | 20      | 01-SEP-21 |
| Lead (Pb)-Total      |                 | <0.000050          | <0.000050 | RPD-NA    | mg/L  | N/A       | 20      | 01-SEP-21 |
| Lithium (Li)-Total   |                 | 0.0338             | 0.0359    |           | mg/L  | 6.0       | 20      | 01-SEP-21 |
| Magnesium (Mg)-Total |                 | 56.0               | 55.7      |           | mg/L  | 0.6       | 20      | 01-SEP-21 |
| Manganese (Mn)-Total |                 | 0.0392             | 0.0394    |           | mg/L  | 0.6       | 20      | 01-SEP-21 |



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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                  | Matrix          | Reference          | Result    | Qualifier | Units | RPD      | Limit  | Analyzed  |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|----------|--------|-----------|
| MET-T-CCMS-WP         |                 | Water              |           |           |       |          |        |           |
| <b>Batch</b>          | <b>R5575700</b> |                    |           |           |       |          |        |           |
| <b>WG3609076-4</b>    | <b>DUP</b>      | <b>WG3609076-3</b> |           |           |       |          |        |           |
| Molybdenum (Mo)-Total |                 | 0.00806            | 0.00840   |           | mg/L  | 4.2      | 20     | 01-SEP-21 |
| Nickel (Ni)-Total     |                 | 0.0157             | 0.0158    |           | mg/L  | 1.0      | 20     | 01-SEP-21 |
| Potassium (K)-Total   |                 | 58.8               | 59.2      |           | mg/L  | 0.6      | 20     | 01-SEP-21 |
| Phosphorus (P)-Total  |                 | <0.030             | <0.030    | RPD-NA    | mg/L  | N/A      | 20     | 01-SEP-21 |
| Rubidium (Rb)-Total   |                 | 0.0308             | 0.0306    |           | mg/L  | 0.5      | 20     | 01-SEP-21 |
| Selenium (Se)-Total   |                 | 0.000443           | 0.000336  | J         | mg/L  | 0.000107 | 0.0001 | 01-SEP-21 |
| Silicon (Si)-Total    |                 | 1.43               | 1.49      |           | mg/L  | 3.7      | 20     | 01-SEP-21 |
| Silver (Ag)-Total     |                 | <0.000010          | <0.000010 | RPD-NA    | mg/L  | N/A      | 20     | 01-SEP-21 |
| Sodium (Na)-Total     |                 | 226                | 226       |           | mg/L  | 0.0      | 20     | 01-SEP-21 |
| Strontium (Sr)-Total  |                 | 3.08               | 3.23      |           | mg/L  | 4.7      | 20     | 01-SEP-21 |
| Sulfur (S)-Total      |                 | 409                | 423       |           | mg/L  | 3.4      | 20     | 01-SEP-21 |
| Tellurium (Te)-Total  |                 | 0.00033            | 0.00033   |           | mg/L  | 1.0      | 20     | 01-SEP-21 |
| Thallium (Tl)-Total   |                 | 0.000012           | 0.000011  |           | mg/L  | 8.4      | 20     | 01-SEP-21 |
| Thorium (Th)-Total    |                 | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A      | 20     | 01-SEP-21 |
| Tin (Sn)-Total        |                 | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A      | 20     | 01-SEP-21 |
| Titanium (Ti)-Total   |                 | 0.00151            | 0.00154   |           | mg/L  | 1.8      | 20     | 01-SEP-21 |
| Tungsten (W)-Total    |                 | 0.00071            | 0.00076   |           | mg/L  | 6.7      | 20     | 01-SEP-21 |
| Uranium (U)-Total     |                 | 0.000186           | 0.000200  |           | mg/L  | 7.2      | 20     | 01-SEP-21 |
| Vanadium (V)-Total    |                 | 0.00351            | 0.00341   |           | mg/L  | 2.9      | 20     | 01-SEP-21 |
| Zinc (Zn)-Total       |                 | <0.0030            | <0.0030   | RPD-NA    | mg/L  | N/A      | 20     | 01-SEP-21 |
| Zirconium (Zr)-Total  |                 | <0.00020           | <0.00020  | RPD-NA    | mg/L  | N/A      | 20     | 01-SEP-21 |
| <b>WG3609076-2</b>    | <b>LCS</b>      |                    |           |           |       |          |        |           |
| Aluminum (Al)-Total   |                 |                    | 103.8     |           | %     |          | 80-120 | 01-SEP-21 |
| Antimony (Sb)-Total   |                 |                    | 102.6     |           | %     |          | 80-120 | 01-SEP-21 |
| Arsenic (As)-Total    |                 |                    | 101.6     |           | %     |          | 80-120 | 01-SEP-21 |
| Barium (Ba)-Total     |                 |                    | 100.9     |           | %     |          | 80-120 | 01-SEP-21 |
| Beryllium (Be)-Total  |                 |                    | 97.7      |           | %     |          | 80-120 | 01-SEP-21 |
| Bismuth (Bi)-Total    |                 |                    | 102.1     |           | %     |          | 80-120 | 01-SEP-21 |
| Boron (B)-Total       |                 |                    | 94.2      |           | %     |          | 80-120 | 01-SEP-21 |
| Cadmium (Cd)-Total    |                 |                    | 101.3     |           | %     |          | 80-120 | 01-SEP-21 |
| Calcium (Ca)-Total    |                 |                    | 97.8      |           | %     |          | 80-120 | 01-SEP-21 |
| Cesium (Cs)-Total     |                 |                    | 95.8      |           | %     |          | 80-120 | 01-SEP-21 |
| Chromium (Cr)-Total   |                 |                    | 101.7     |           | %     |          | 80-120 | 01-SEP-21 |



### Quality Control Report

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                  | Matrix          | Reference | Result   | Qualifier | Units | RPD | Limit  | Analyzed  |
|-----------------------|-----------------|-----------|----------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WP         | Water           |           |          |           |       |     |        |           |
| <b>Batch</b>          | <b>R5575700</b> |           |          |           |       |     |        |           |
| <b>WG3609076-2</b>    | <b>LCS</b>      |           |          |           |       |     |        |           |
| Cobalt (Co)-Total     |                 |           | 99.0     |           | %     |     | 80-120 | 01-SEP-21 |
| Copper (Cu)-Total     |                 |           | 98.4     |           | %     |     | 80-120 | 01-SEP-21 |
| Iron (Fe)-Total       |                 |           | 94.4     |           | %     |     | 80-120 | 01-SEP-21 |
| Lead (Pb)-Total       |                 |           | 98.4     |           | %     |     | 80-120 | 01-SEP-21 |
| Lithium (Li)-Total    |                 |           | 99.0     |           | %     |     | 80-120 | 01-SEP-21 |
| Magnesium (Mg)-Total  |                 |           | 111.0    |           | %     |     | 80-120 | 01-SEP-21 |
| Manganese (Mn)-Total  |                 |           | 102.3    |           | %     |     | 80-120 | 01-SEP-21 |
| Molybdenum (Mo)-Total |                 |           | 103.8    |           | %     |     | 80-120 | 01-SEP-21 |
| Nickel (Ni)-Total     |                 |           | 97.5     |           | %     |     | 80-120 | 01-SEP-21 |
| Potassium (K)-Total   |                 |           | 106.4    |           | %     |     | 80-120 | 01-SEP-21 |
| Phosphorus (P)-Total  |                 |           | 108.4    |           | %     |     | 80-120 | 01-SEP-21 |
| Rubidium (Rb)-Total   |                 |           | 99.7     |           | %     |     | 80-120 | 01-SEP-21 |
| Selenium (Se)-Total   |                 |           | 101.5    |           | %     |     | 80-120 | 01-SEP-21 |
| Silicon (Si)-Total    |                 |           | 106.8    |           | %     |     | 80-120 | 01-SEP-21 |
| Silver (Ag)-Total     |                 |           | 101.6    |           | %     |     | 80-120 | 01-SEP-21 |
| Sodium (Na)-Total     |                 |           | 104.6    |           | %     |     | 80-120 | 01-SEP-21 |
| Strontium (Sr)-Total  |                 |           | 97.4     |           | %     |     | 80-120 | 01-SEP-21 |
| Sulfur (S)-Total      |                 |           | 106.4    |           | %     |     | 80-120 | 01-SEP-21 |
| Tellurium (Te)-Total  |                 |           | 95.3     |           | %     |     | 80-120 | 01-SEP-21 |
| Thallium (Tl)-Total   |                 |           | 97.0     |           | %     |     | 80-120 | 01-SEP-21 |
| Thorium (Th)-Total    |                 |           | 92.9     |           | %     |     | 80-120 | 01-SEP-21 |
| Tin (Sn)-Total        |                 |           | 99.3     |           | %     |     | 80-120 | 01-SEP-21 |
| Titanium (Ti)-Total   |                 |           | 97.7     |           | %     |     | 80-120 | 01-SEP-21 |
| Tungsten (W)-Total    |                 |           | 97.3     |           | %     |     | 80-120 | 01-SEP-21 |
| Uranium (U)-Total     |                 |           | 92.6     |           | %     |     | 80-120 | 01-SEP-21 |
| Vanadium (V)-Total    |                 |           | 101.2    |           | %     |     | 80-120 | 01-SEP-21 |
| Zinc (Zn)-Total       |                 |           | 98.0     |           | %     |     | 80-120 | 01-SEP-21 |
| Zirconium (Zr)-Total  |                 |           | 92.6     |           | %     |     | 80-120 | 01-SEP-21 |
| <b>WG3609076-1</b>    | <b>MB</b>       |           |          |           |       |     |        |           |
| Aluminum (Al)-Total   |                 |           | <0.0030  |           | mg/L  |     | 0.003  | 01-SEP-21 |
| Antimony (Sb)-Total   |                 |           | <0.00010 |           | mg/L  |     | 0.0001 | 01-SEP-21 |
| Arsenic (As)-Total    |                 |           | <0.00010 |           | mg/L  |     | 0.0001 | 01-SEP-21 |
| Barium (Ba)-Total     |                 |           | <0.00010 |           | mg/L  |     | 0.0001 | 01-SEP-21 |
| Beryllium (Be)-Total  |                 |           | <0.00010 |           | mg/L  |     | 0.0001 | 01-SEP-21 |



# Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                  | Matrix          | Reference | Result     | Qualifier | Units | RPD | Limit    | Analyzed  |
|-----------------------|-----------------|-----------|------------|-----------|-------|-----|----------|-----------|
| MET-T-CCMS-WP         | Water           |           |            |           |       |     |          |           |
| <b>Batch</b>          | <b>R5575700</b> |           |            |           |       |     |          |           |
| <b>WG3609076-1 MB</b> |                 |           |            |           |       |     |          |           |
| Bismuth (Bi)-Total    |                 |           | <0.000050  |           | mg/L  |     | 0.00005  | 01-SEP-21 |
| Boron (B)-Total       |                 |           | <0.010     |           | mg/L  |     | 0.01     | 01-SEP-21 |
| Cadmium (Cd)-Total    |                 |           | <0.0000050 |           | mg/L  |     | 0.000005 | 01-SEP-21 |
| Calcium (Ca)-Total    |                 |           | <0.050     |           | mg/L  |     | 0.05     | 01-SEP-21 |
| Cesium (Cs)-Total     |                 |           | <0.000010  |           | mg/L  |     | 0.00001  | 01-SEP-21 |
| Chromium (Cr)-Total   |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 01-SEP-21 |
| Cobalt (Co)-Total     |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 01-SEP-21 |
| Copper (Cu)-Total     |                 |           | <0.00050   |           | mg/L  |     | 0.0005   | 01-SEP-21 |
| Iron (Fe)-Total       |                 |           | <0.010     |           | mg/L  |     | 0.01     | 01-SEP-21 |
| Lead (Pb)-Total       |                 |           | <0.000050  |           | mg/L  |     | 0.00005  | 01-SEP-21 |
| Lithium (Li)-Total    |                 |           | <0.0010    |           | mg/L  |     | 0.001    | 01-SEP-21 |
| Magnesium (Mg)-Total  |                 |           | <0.0050    |           | mg/L  |     | 0.005    | 01-SEP-21 |
| Manganese (Mn)-Total  |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 01-SEP-21 |
| Molybdenum (Mo)-Total |                 |           | <0.000050  |           | mg/L  |     | 0.00005  | 01-SEP-21 |
| Nickel (Ni)-Total     |                 |           | <0.00050   |           | mg/L  |     | 0.0005   | 01-SEP-21 |
| Potassium (K)-Total   |                 |           | <0.050     |           | mg/L  |     | 0.05     | 01-SEP-21 |
| Phosphorus (P)-Total  |                 |           | <0.030     |           | mg/L  |     | 0.03     | 01-SEP-21 |
| Rubidium (Rb)-Total   |                 |           | <0.00020   |           | mg/L  |     | 0.0002   | 01-SEP-21 |
| Selenium (Se)-Total   |                 |           | <0.000050  |           | mg/L  |     | 0.00005  | 01-SEP-21 |
| Silicon (Si)-Total    |                 |           | <0.10      |           | mg/L  |     | 0.1      | 01-SEP-21 |
| Silver (Ag)-Total     |                 |           | <0.000010  |           | mg/L  |     | 0.00001  | 01-SEP-21 |
| Sodium (Na)-Total     |                 |           | <0.050     |           | mg/L  |     | 0.05     | 01-SEP-21 |
| Strontium (Sr)-Total  |                 |           | <0.00020   |           | mg/L  |     | 0.0002   | 01-SEP-21 |
| Sulfur (S)-Total      |                 |           | <0.50      |           | mg/L  |     | 0.5      | 01-SEP-21 |
| Tellurium (Te)-Total  |                 |           | <0.00020   |           | mg/L  |     | 0.0002   | 01-SEP-21 |
| Thallium (Tl)-Total   |                 |           | <0.000010  |           | mg/L  |     | 0.00001  | 01-SEP-21 |
| Thorium (Th)-Total    |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 01-SEP-21 |
| Tin (Sn)-Total        |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 01-SEP-21 |
| Titanium (Ti)-Total   |                 |           | <0.00030   |           | mg/L  |     | 0.0003   | 01-SEP-21 |
| Tungsten (W)-Total    |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 01-SEP-21 |
| Uranium (U)-Total     |                 |           | <0.000010  |           | mg/L  |     | 0.00001  | 01-SEP-21 |
| Vanadium (V)-Total    |                 |           | <0.00050   |           | mg/L  |     | 0.0005   | 01-SEP-21 |
| Zinc (Zn)-Total       |                 |           | <0.0030    |           | mg/L  |     | 0.003    | 01-SEP-21 |



## Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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**Client:** Manitoba Metis Federation  
 300 - 150 Henry Avenue  
 Winnipeg MB R3B 0J7

**Contact:** BRYANNA SHERBO

| Test                  | Matrix          | Reference          | Result   | Qualifier | Units | RPD | Limit  | Analyzed  |
|-----------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WP         | Water           |                    |          |           |       |     |        |           |
| <b>Batch</b>          | <b>R5575700</b> |                    |          |           |       |     |        |           |
| <b>WG3609076-1 MB</b> |                 |                    |          |           |       |     |        |           |
| Zirconium (Zr)-Total  |                 |                    | <0.00020 |           | mg/L  |     | 0.0002 | 01-SEP-21 |
| <b>WG3609076-5 MS</b> |                 | <b>WG3609076-3</b> |          |           |       |     |        |           |
| Aluminum (Al)-Total   |                 |                    | 104.4    |           | %     |     | 70-130 | 01-SEP-21 |
| Antimony (Sb)-Total   |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Arsenic (As)-Total    |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Barium (Ba)-Total     |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Beryllium (Be)-Total  |                 |                    | 103.5    |           | %     |     | 70-130 | 01-SEP-21 |
| Bismuth (Bi)-Total    |                 |                    | 97.1     |           | %     |     | 70-130 | 01-SEP-21 |
| Boron (B)-Total       |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Cadmium (Cd)-Total    |                 |                    | 101.4    |           | %     |     | 70-130 | 01-SEP-21 |
| Calcium (Ca)-Total    |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Cesium (Cs)-Total     |                 |                    | 104.1    |           | %     |     | 70-130 | 01-SEP-21 |
| Chromium (Cr)-Total   |                 |                    | 104.5    |           | %     |     | 70-130 | 01-SEP-21 |
| Cobalt (Co)-Total     |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Copper (Cu)-Total     |                 |                    | 95.9     |           | %     |     | 70-130 | 01-SEP-21 |
| Iron (Fe)-Total       |                 |                    | 103.8    |           | %     |     | 70-130 | 01-SEP-21 |
| Lead (Pb)-Total       |                 |                    | 101.3    |           | %     |     | 70-130 | 01-SEP-21 |
| Lithium (Li)-Total    |                 |                    | 115.4    |           | %     |     | 70-130 | 01-SEP-21 |
| Magnesium (Mg)-Total  |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Manganese (Mn)-Total  |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Molybdenum (Mo)-Total |                 |                    | 116.8    |           | %     |     | 70-130 | 01-SEP-21 |
| Nickel (Ni)-Total     |                 |                    | 97.9     |           | %     |     | 70-130 | 01-SEP-21 |
| Potassium (K)-Total   |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Phosphorus (P)-Total  |                 |                    | 114.9    |           | %     |     | 70-130 | 01-SEP-21 |
| Rubidium (Rb)-Total   |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Selenium (Se)-Total   |                 |                    | 113.5    |           | %     |     | 70-130 | 01-SEP-21 |
| Silicon (Si)-Total    |                 |                    | 109.9    |           | %     |     | 70-130 | 01-SEP-21 |
| Silver (Ag)-Total     |                 |                    | 102.4    |           | %     |     | 70-130 | 01-SEP-21 |
| Sodium (Na)-Total     |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Strontium (Sr)-Total  |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Sulfur (S)-Total      |                 |                    | N/A      | MS-B      | %     |     | -      | 01-SEP-21 |
| Tellurium (Te)-Total  |                 |                    | 105.1    |           | %     |     | 70-130 | 01-SEP-21 |
| Thallium (Tl)-Total   |                 |                    | 98.0     |           | %     |     | 70-130 | 01-SEP-21 |
| Thorium (Th)-Total    |                 |                    | 105.7    |           | %     |     | 70-130 | 01-SEP-21 |



# Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                   | Matrix | Reference          | Result    | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|--------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WP          |        | Water              |           |           |       |     |        |           |
| <b>Batch R5575700</b>  |        |                    |           |           |       |     |        |           |
| <b>WG3609076-5 MS</b>  |        | <b>WG3609076-3</b> |           |           |       |     |        |           |
| Tin (Sn)-Total         |        |                    | 105.8     |           | %     |     | 70-130 | 01-SEP-21 |
| Titanium (Ti)-Total    |        |                    | 109.0     |           | %     |     | 70-130 | 01-SEP-21 |
| Tungsten (W)-Total     |        |                    | 109.9     |           | %     |     | 70-130 | 01-SEP-21 |
| Uranium (U)-Total      |        |                    | 101.2     |           | %     |     | 70-130 | 01-SEP-21 |
| Vanadium (V)-Total     |        |                    | 109.8     |           | %     |     | 70-130 | 01-SEP-21 |
| Zinc (Zn)-Total        |        |                    | 96.5      |           | %     |     | 70-130 | 01-SEP-21 |
| Zirconium (Zr)-Total   |        |                    | 104.8     |           | %     |     | 70-130 | 01-SEP-21 |
| <b>Batch R5578301</b>  |        |                    |           |           |       |     |        |           |
| <b>WG3610117-4 DUP</b> |        | <b>WG3610117-3</b> |           |           |       |     |        |           |
| Aluminum (Al)-Total    |        | 0.0415             | 0.0391    |           | mg/L  | 6.1 | 20     | 02-SEP-21 |
| Antimony (Sb)-Total    |        | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Arsenic (As)-Total     |        | 0.00023            | 0.00023   |           | mg/L  | 0.3 | 20     | 02-SEP-21 |
| Barium (Ba)-Total      |        | 0.00235            | 0.00236   |           | mg/L  | 0.5 | 20     | 02-SEP-21 |
| Beryllium (Be)-Total   |        | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Bismuth (Bi)-Total     |        | <0.000050          | <0.000050 | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Boron (B)-Total        |        | <0.010             | <0.010    | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Cadmium (Cd)-Total     |        | 0.0000075          | 0.0000070 |           | mg/L  | 6.9 | 20     | 02-SEP-21 |
| Calcium (Ca)-Total     |        | 13.6               | 13.6      |           | mg/L  | 0.1 | 20     | 02-SEP-21 |
| Cesium (Cs)-Total      |        | 0.000130           | 0.000136  |           | mg/L  | 4.5 | 20     | 02-SEP-21 |
| Chromium (Cr)-Total    |        | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Cobalt (Co)-Total      |        | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Copper (Cu)-Total      |        | 0.307              | 0.309     |           | mg/L  | 0.8 | 20     | 02-SEP-21 |
| Iron (Fe)-Total        |        | 0.011              | 0.011     |           | mg/L  | 3.0 | 20     | 02-SEP-21 |
| Lead (Pb)-Total        |        | 0.00639            | 0.00660   |           | mg/L  | 3.2 | 20     | 02-SEP-21 |
| Lithium (Li)-Total     |        | 0.0016             | 0.0015    |           | mg/L  | 2.1 | 20     | 02-SEP-21 |
| Magnesium (Mg)-Total   |        | 4.22               | 4.21      |           | mg/L  | 0.4 | 20     | 02-SEP-21 |
| Manganese (Mn)-Total   |        | 0.00123            | 0.00125   |           | mg/L  | 1.3 | 20     | 02-SEP-21 |
| Molybdenum (Mo)-Total  |        | <0.000050          | <0.000050 | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Nickel (Ni)-Total      |        | 0.00064            | 0.00067   |           | mg/L  | 4.9 | 20     | 02-SEP-21 |
| Potassium (K)-Total    |        | 0.782              | 0.800     |           | mg/L  | 2.2 | 20     | 02-SEP-21 |
| Phosphorus (P)-Total   |        | <0.030             | <0.030    | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Rubidium (Rb)-Total    |        | 0.00130            | 0.00140   |           | mg/L  | 7.3 | 20     | 02-SEP-21 |
| Selenium (Se)-Total    |        | 0.000079           | 0.000082  |           | mg/L  | 3.0 | 20     | 02-SEP-21 |





## Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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**Client:** Manitoba Metis Federation  
 300 - 150 Henry Avenue  
 Winnipeg MB R3B 0J7

**Contact:** BRYANNA SHERBO

| Test                   | Matrix | Reference          | Result    | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|--------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WP          |        | Water              |           |           |       |     |        |           |
| <b>Batch R5578301</b>  |        |                    |           |           |       |     |        |           |
| <b>WG3610117-4 DUP</b> |        | <b>WG3610117-3</b> |           |           |       |     |        |           |
| Silicon (Si)-Total     |        | 1.17               | 1.17      |           | mg/L  | 0.1 | 20     | 02-SEP-21 |
| Silver (Ag)-Total      |        | 0.000010           | <0.000010 | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Sodium (Na)-Total      |        | 9.43               | 9.73      |           | mg/L  | 3.1 | 20     | 02-SEP-21 |
| Strontium (Sr)-Total   |        | 0.0234             | 0.0236    |           | mg/L  | 0.9 | 20     | 02-SEP-21 |
| Sulfur (S)-Total       |        | <0.50              | <0.50     | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Tellurium (Te)-Total   |        | <0.00020           | <0.00020  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Thallium (Tl)-Total    |        | <0.000010          | <0.000010 | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Thorium (Th)-Total     |        | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Tin (Sn)-Total         |        | 0.00015            | 0.00016   |           | mg/L  | 7.7 | 20     | 02-SEP-21 |
| Titanium (Ti)-Total    |        | 0.00044            | 0.00040   |           | mg/L  | 9.7 | 20     | 02-SEP-21 |
| Tungsten (W)-Total     |        | <0.00010           | <0.00010  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Uranium (U)-Total      |        | <0.000010          | <0.000010 | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Vanadium (V)-Total     |        | <0.00050           | <0.00050  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| Zinc (Zn)-Total        |        | 0.0446             | 0.0448    |           | mg/L  | 0.5 | 20     | 02-SEP-21 |
| Zirconium (Zr)-Total   |        | <0.00020           | <0.00020  | RPD-NA    | mg/L  | N/A | 20     | 02-SEP-21 |
| <b>WG3610117-2 LCS</b> |        |                    |           |           |       |     |        |           |
| Aluminum (Al)-Total    |        |                    | 101.0     |           | %     |     | 80-120 | 02-SEP-21 |
| Antimony (Sb)-Total    |        |                    | 102.0     |           | %     |     | 80-120 | 02-SEP-21 |
| Arsenic (As)-Total     |        |                    | 99.9      |           | %     |     | 80-120 | 02-SEP-21 |
| Barium (Ba)-Total      |        |                    | 102.6     |           | %     |     | 80-120 | 02-SEP-21 |
| Beryllium (Be)-Total   |        |                    | 103.4     |           | %     |     | 80-120 | 02-SEP-21 |
| Bismuth (Bi)-Total     |        |                    | 99.6      |           | %     |     | 80-120 | 02-SEP-21 |
| Boron (B)-Total        |        |                    | 97.0      |           | %     |     | 80-120 | 02-SEP-21 |
| Cadmium (Cd)-Total     |        |                    | 104.0     |           | %     |     | 80-120 | 02-SEP-21 |
| Calcium (Ca)-Total     |        |                    | 103.1     |           | %     |     | 80-120 | 02-SEP-21 |
| Cesium (Cs)-Total      |        |                    | 100.0     |           | %     |     | 80-120 | 02-SEP-21 |
| Chromium (Cr)-Total    |        |                    | 100.6     |           | %     |     | 80-120 | 02-SEP-21 |
| Cobalt (Co)-Total      |        |                    | 100.4     |           | %     |     | 80-120 | 02-SEP-21 |
| Copper (Cu)-Total      |        |                    | 102.2     |           | %     |     | 80-120 | 02-SEP-21 |
| Iron (Fe)-Total        |        |                    | 101.1     |           | %     |     | 80-120 | 02-SEP-21 |
| Lead (Pb)-Total        |        |                    | 98.7      |           | %     |     | 80-120 | 02-SEP-21 |
| Lithium (Li)-Total     |        |                    | 101.6     |           | %     |     | 80-120 | 02-SEP-21 |
| Magnesium (Mg)-Total   |        |                    | 106.6     |           | %     |     | 80-120 | 02-SEP-21 |



# Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                  | Matrix          | Reference | Result     | Qualifier | Units | RPD | Limit    | Analyzed  |
|-----------------------|-----------------|-----------|------------|-----------|-------|-----|----------|-----------|
| MET-T-CCMS-WP         | Water           |           |            |           |       |     |          |           |
| <b>Batch</b>          | <b>R5578301</b> |           |            |           |       |     |          |           |
| <b>WG3610117-2</b>    | <b>LCS</b>      |           |            |           |       |     |          |           |
| Manganese (Mn)-Total  |                 |           | 100.8      |           | %     |     | 80-120   | 02-SEP-21 |
| Molybdenum (Mo)-Total |                 |           | 101.3      |           | %     |     | 80-120   | 02-SEP-21 |
| Nickel (Ni)-Total     |                 |           | 100.2      |           | %     |     | 80-120   | 02-SEP-21 |
| Potassium (K)-Total   |                 |           | 104.4      |           | %     |     | 80-120   | 02-SEP-21 |
| Phosphorus (P)-Total  |                 |           | 103.2      |           | %     |     | 80-120   | 02-SEP-21 |
| Rubidium (Rb)-Total   |                 |           | 99.3       |           | %     |     | 80-120   | 02-SEP-21 |
| Selenium (Se)-Total   |                 |           | 99.6       |           | %     |     | 80-120   | 02-SEP-21 |
| Silicon (Si)-Total    |                 |           | 101.3      |           | %     |     | 80-120   | 02-SEP-21 |
| Silver (Ag)-Total     |                 |           | 100.5      |           | %     |     | 80-120   | 02-SEP-21 |
| Sodium (Na)-Total     |                 |           | 104.6      |           | %     |     | 80-120   | 02-SEP-21 |
| Strontium (Sr)-Total  |                 |           | 101.9      |           | %     |     | 80-120   | 02-SEP-21 |
| Sulfur (S)-Total      |                 |           | 94.0       |           | %     |     | 80-120   | 02-SEP-21 |
| Tellurium (Te)-Total  |                 |           | 94.9       |           | %     |     | 80-120   | 02-SEP-21 |
| Thallium (Tl)-Total   |                 |           | 98.5       |           | %     |     | 80-120   | 02-SEP-21 |
| Thorium (Th)-Total    |                 |           | 97.5       |           | %     |     | 80-120   | 02-SEP-21 |
| Tin (Sn)-Total        |                 |           | 99.8       |           | %     |     | 80-120   | 02-SEP-21 |
| Titanium (Ti)-Total   |                 |           | 96.8       |           | %     |     | 80-120   | 02-SEP-21 |
| Tungsten (W)-Total    |                 |           | 97.3       |           | %     |     | 80-120   | 02-SEP-21 |
| Uranium (U)-Total     |                 |           | 96.3       |           | %     |     | 80-120   | 02-SEP-21 |
| Vanadium (V)-Total    |                 |           | 102.2      |           | %     |     | 80-120   | 02-SEP-21 |
| Zinc (Zn)-Total       |                 |           | 99.3       |           | %     |     | 80-120   | 02-SEP-21 |
| Zirconium (Zr)-Total  |                 |           | 95.1       |           | %     |     | 80-120   | 02-SEP-21 |
| <b>WG3610117-1</b>    | <b>MB</b>       |           |            |           |       |     |          |           |
| Aluminum (Al)-Total   |                 |           | <0.0030    |           | mg/L  |     | 0.003    | 02-SEP-21 |
| Antimony (Sb)-Total   |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 02-SEP-21 |
| Arsenic (As)-Total    |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 02-SEP-21 |
| Barium (Ba)-Total     |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 02-SEP-21 |
| Beryllium (Be)-Total  |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 02-SEP-21 |
| Bismuth (Bi)-Total    |                 |           | <0.000050  |           | mg/L  |     | 0.00005  | 02-SEP-21 |
| Boron (B)-Total       |                 |           | <0.010     |           | mg/L  |     | 0.01     | 02-SEP-21 |
| Cadmium (Cd)-Total    |                 |           | <0.0000050 |           | mg/L  |     | 0.000005 | 02-SEP-21 |
| Calcium (Ca)-Total    |                 |           | <0.050     |           | mg/L  |     | 0.05     | 02-SEP-21 |
| Cesium (Cs)-Total     |                 |           | <0.000010  |           | mg/L  |     | 0.00001  | 02-SEP-21 |
| Chromium (Cr)-Total   |                 |           | <0.00010   |           | mg/L  |     | 0.0001   | 02-SEP-21 |



## Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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**Client:** Manitoba Metis Federation  
 300 - 150 Henry Avenue  
 Winnipeg MB R3B 0J7

**Contact:** BRYANNA SHERBO

| Test                  | Matrix          | Reference          | Result    | Qualifier | Units | RPD | Limit   | Analyzed  |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| MET-T-CCMS-WP         | Water           |                    |           |           |       |     |         |           |
| <b>Batch</b>          | <b>R5578301</b> |                    |           |           |       |     |         |           |
| <b>WG3610117-1 MB</b> |                 |                    |           |           |       |     |         |           |
| Cobalt (Co)-Total     |                 |                    | <0.00010  |           | mg/L  |     | 0.0001  | 02-SEP-21 |
| Copper (Cu)-Total     |                 |                    | <0.00050  |           | mg/L  |     | 0.0005  | 02-SEP-21 |
| Iron (Fe)-Total       |                 |                    | <0.010    |           | mg/L  |     | 0.01    | 02-SEP-21 |
| Lead (Pb)-Total       |                 |                    | <0.000050 |           | mg/L  |     | 0.00005 | 02-SEP-21 |
| Lithium (Li)-Total    |                 |                    | <0.0010   |           | mg/L  |     | 0.001   | 02-SEP-21 |
| Magnesium (Mg)-Total  |                 |                    | <0.0050   |           | mg/L  |     | 0.005   | 02-SEP-21 |
| Manganese (Mn)-Total  |                 |                    | <0.00010  |           | mg/L  |     | 0.0001  | 02-SEP-21 |
| Molybdenum (Mo)-Total |                 |                    | <0.000050 |           | mg/L  |     | 0.00005 | 02-SEP-21 |
| Nickel (Ni)-Total     |                 |                    | <0.00050  |           | mg/L  |     | 0.0005  | 02-SEP-21 |
| Potassium (K)-Total   |                 |                    | <0.050    |           | mg/L  |     | 0.05    | 02-SEP-21 |
| Phosphorus (P)-Total  |                 |                    | <0.030    |           | mg/L  |     | 0.03    | 02-SEP-21 |
| Rubidium (Rb)-Total   |                 |                    | <0.00020  |           | mg/L  |     | 0.0002  | 02-SEP-21 |
| Selenium (Se)-Total   |                 |                    | 0.000108  | B         | mg/L  |     | 0.00005 | 02-SEP-21 |
| Silicon (Si)-Total    |                 |                    | <0.10     |           | mg/L  |     | 0.1     | 02-SEP-21 |
| Silver (Ag)-Total     |                 |                    | <0.000010 |           | mg/L  |     | 0.00001 | 02-SEP-21 |
| Sodium (Na)-Total     |                 |                    | <0.050    |           | mg/L  |     | 0.05    | 02-SEP-21 |
| Strontium (Sr)-Total  |                 |                    | <0.00020  |           | mg/L  |     | 0.0002  | 02-SEP-21 |
| Sulfur (S)-Total      |                 |                    | <0.50     |           | mg/L  |     | 0.5     | 02-SEP-21 |
| Tellurium (Te)-Total  |                 |                    | <0.00020  |           | mg/L  |     | 0.0002  | 02-SEP-21 |
| Thallium (Tl)-Total   |                 |                    | <0.000010 |           | mg/L  |     | 0.00001 | 02-SEP-21 |
| Thorium (Th)-Total    |                 |                    | <0.00010  |           | mg/L  |     | 0.0001  | 02-SEP-21 |
| Tin (Sn)-Total        |                 |                    | <0.00010  |           | mg/L  |     | 0.0001  | 02-SEP-21 |
| Titanium (Ti)-Total   |                 |                    | <0.00030  |           | mg/L  |     | 0.0003  | 02-SEP-21 |
| Tungsten (W)-Total    |                 |                    | <0.00010  |           | mg/L  |     | 0.0001  | 02-SEP-21 |
| Uranium (U)-Total     |                 |                    | <0.000010 |           | mg/L  |     | 0.00001 | 02-SEP-21 |
| Vanadium (V)-Total    |                 |                    | <0.00050  |           | mg/L  |     | 0.0005  | 02-SEP-21 |
| Zinc (Zn)-Total       |                 |                    | <0.0030   |           | mg/L  |     | 0.003   | 02-SEP-21 |
| Zirconium (Zr)-Total  |                 |                    | <0.00020  |           | mg/L  |     | 0.0002  | 02-SEP-21 |
| <b>WG3610117-5 MS</b> |                 | <b>WG3610117-3</b> |           |           |       |     |         |           |
| Aluminum (Al)-Total   |                 |                    | 91.4      |           | %     |     | 70-130  | 02-SEP-21 |
| Antimony (Sb)-Total   |                 |                    | 99.1      |           | %     |     | 70-130  | 02-SEP-21 |
| Arsenic (As)-Total    |                 |                    | 91.6      |           | %     |     | 70-130  | 02-SEP-21 |
| Barium (Ba)-Total     |                 |                    | 91.8      |           | %     |     | 70-130  | 02-SEP-21 |
| Beryllium (Be)-Total  |                 |                    | 95.7      |           | %     |     | 70-130  | 02-SEP-21 |



# Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                  | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WP         | Water           |                    |        |           |       |     |        |           |
| <b>Batch</b>          | <b>R5578301</b> |                    |        |           |       |     |        |           |
| <b>WG3610117-5 MS</b> |                 | <b>WG3610117-3</b> |        |           |       |     |        |           |
| Bismuth (Bi)-Total    |                 |                    | 91.7   |           | %     |     | 70-130 | 02-SEP-21 |
| Boron (B)-Total       |                 |                    | 97.3   |           | %     |     | 70-130 | 02-SEP-21 |
| Cadmium (Cd)-Total    |                 |                    | 93.4   |           | %     |     | 70-130 | 02-SEP-21 |
| Calcium (Ca)-Total    |                 |                    | N/A    | MS-B      | %     |     | -      | 02-SEP-21 |
| Cesium (Cs)-Total     |                 |                    | 93.0   |           | %     |     | 70-130 | 02-SEP-21 |
| Chromium (Cr)-Total   |                 |                    | 93.9   |           | %     |     | 70-130 | 02-SEP-21 |
| Cobalt (Co)-Total     |                 |                    | 93.6   |           | %     |     | 70-130 | 02-SEP-21 |
| Copper (Cu)-Total     |                 |                    | N/A    | MS-B      | %     |     | -      | 02-SEP-21 |
| Iron (Fe)-Total       |                 |                    | 92.5   |           | %     |     | 70-130 | 02-SEP-21 |
| Lead (Pb)-Total       |                 |                    | 89.8   |           | %     |     | 70-130 | 02-SEP-21 |
| Lithium (Li)-Total    |                 |                    | 92.6   |           | %     |     | 70-130 | 02-SEP-21 |
| Magnesium (Mg)-Total  |                 |                    | N/A    | MS-B      | %     |     | -      | 02-SEP-21 |
| Manganese (Mn)-Total  |                 |                    | 91.4   |           | %     |     | 70-130 | 02-SEP-21 |
| Molybdenum (Mo)-Total |                 |                    | 98.8   |           | %     |     | 70-130 | 02-SEP-21 |
| Nickel (Ni)-Total     |                 |                    | 93.6   |           | %     |     | 70-130 | 02-SEP-21 |
| Potassium (K)-Total   |                 |                    | 95.7   |           | %     |     | 70-130 | 02-SEP-21 |
| Phosphorus (P)-Total  |                 |                    | 91.6   |           | %     |     | 70-130 | 02-SEP-21 |
| Rubidium (Rb)-Total   |                 |                    | 91.1   |           | %     |     | 70-130 | 02-SEP-21 |
| Selenium (Se)-Total   |                 |                    | 91.8   |           | %     |     | 70-130 | 02-SEP-21 |
| Silicon (Si)-Total    |                 |                    | 96.5   |           | %     |     | 70-130 | 02-SEP-21 |
| Silver (Ag)-Total     |                 |                    | 92.8   |           | %     |     | 70-130 | 02-SEP-21 |
| Sodium (Na)-Total     |                 |                    | N/A    | MS-B      | %     |     | -      | 02-SEP-21 |
| Strontium (Sr)-Total  |                 |                    | N/A    | MS-B      | %     |     | -      | 02-SEP-21 |
| Sulfur (S)-Total      |                 |                    | 95.3   |           | %     |     | 70-130 | 02-SEP-21 |
| Tellurium (Te)-Total  |                 |                    | 93.3   |           | %     |     | 70-130 | 02-SEP-21 |
| Thallium (Tl)-Total   |                 |                    | 89.5   |           | %     |     | 70-130 | 02-SEP-21 |
| Thorium (Th)-Total    |                 |                    | 92.4   |           | %     |     | 70-130 | 02-SEP-21 |
| Tin (Sn)-Total        |                 |                    | 97.9   |           | %     |     | 70-130 | 02-SEP-21 |
| Titanium (Ti)-Total   |                 |                    | 97.5   |           | %     |     | 70-130 | 02-SEP-21 |
| Tungsten (W)-Total    |                 |                    | 96.2   |           | %     |     | 70-130 | 02-SEP-21 |
| Uranium (U)-Total     |                 |                    | 90.3   |           | %     |     | 70-130 | 02-SEP-21 |
| Vanadium (V)-Total    |                 |                    | 94.3   |           | %     |     | 70-130 | 02-SEP-21 |
| Zinc (Zn)-Total       |                 |                    | 89.2   |           | %     |     | 70-130 | 02-SEP-21 |



### Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                    | Matrix          | Reference          | Result  | Qualifier | Units | RPD | Limit  | Analyzed  |
|-------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WP           | Water           |                    |         |           |       |     |        |           |
| <b>Batch</b>            | <b>R5578301</b> |                    |         |           |       |     |        |           |
| <b>WG3610117-5 MS</b>   |                 | <b>WG3610117-3</b> |         |           |       |     |        |           |
| Zirconium (Zr)-Total    |                 |                    | 99.0    |           | %     |     | 70-130 | 02-SEP-21 |
| NO2-L-IC-N-WP           | Water           |                    |         |           |       |     |        |           |
| <b>Batch</b>            | <b>R5575365</b> |                    |         |           |       |     |        |           |
| <b>WG3609315-15 DUP</b> |                 | <b>L2634011-1</b>  |         |           |       |     |        |           |
| Nitrite (as N)          |                 | <0.0010            | <0.0010 | RPD-NA    | mg/L  | N/A | 20     | 01-SEP-21 |
| <b>WG3609315-7 DUP</b>  |                 | <b>L2633977-1</b>  |         |           |       |     |        |           |
| Nitrite (as N)          |                 | 0.0014             | 0.0012  |           | mg/L  | 16  | 20     | 01-SEP-21 |
| <b>WG3609315-14 LCS</b> |                 |                    |         |           |       |     |        |           |
| Nitrite (as N)          |                 |                    | 102.6   |           | %     |     | 90-110 | 01-SEP-21 |
| <b>WG3609315-6 LCS</b>  |                 |                    |         |           |       |     |        |           |
| Nitrite (as N)          |                 |                    | 103.4   |           | %     |     | 90-110 | 01-SEP-21 |
| <b>WG3609315-13 MB</b>  |                 |                    |         |           |       |     |        |           |
| Nitrite (as N)          |                 |                    | <0.0010 |           | mg/L  |     | 0.001  | 01-SEP-21 |
| <b>WG3609315-5 MB</b>   |                 |                    |         |           |       |     |        |           |
| Nitrite (as N)          |                 |                    | <0.0010 |           | mg/L  |     | 0.001  | 01-SEP-21 |
| <b>WG3609315-16 MS</b>  |                 | <b>L2634011-1</b>  |         |           |       |     |        |           |
| Nitrite (as N)          |                 |                    | 105.9   |           | %     |     | 75-125 | 01-SEP-21 |
| <b>WG3609315-8 MS</b>   |                 | <b>L2633977-1</b>  |         |           |       |     |        |           |
| Nitrite (as N)          |                 |                    | 105.5   |           | %     |     | 75-125 | 01-SEP-21 |
| NO3-L-IC-N-WP           | Water           |                    |         |           |       |     |        |           |
| <b>Batch</b>            | <b>R5575365</b> |                    |         |           |       |     |        |           |
| <b>WG3609315-15 DUP</b> |                 | <b>L2634011-1</b>  |         |           |       |     |        |           |
| Nitrate (as N)          |                 | 0.0243             | 0.0235  |           | mg/L  | 3.5 | 20     | 01-SEP-21 |
| <b>WG3609315-7 DUP</b>  |                 | <b>L2633977-1</b>  |         |           |       |     |        |           |
| Nitrate (as N)          |                 | 0.0163             | 0.0152  |           | mg/L  | 7.2 | 20     | 01-SEP-21 |
| <b>WG3609315-14 LCS</b> |                 |                    |         |           |       |     |        |           |
| Nitrate (as N)          |                 |                    | 101.9   |           | %     |     | 90-110 | 01-SEP-21 |
| <b>WG3609315-6 LCS</b>  |                 |                    |         |           |       |     |        |           |
| Nitrate (as N)          |                 |                    | 102.4   |           | %     |     | 90-110 | 01-SEP-21 |
| <b>WG3609315-13 MB</b>  |                 |                    |         |           |       |     |        |           |
| Nitrate (as N)          |                 |                    | <0.0050 |           | mg/L  |     | 0.005  | 01-SEP-21 |
| <b>WG3609315-5 MB</b>   |                 |                    |         |           |       |     |        |           |
| Nitrate (as N)          |                 |                    | <0.0050 |           | mg/L  |     | 0.005  | 01-SEP-21 |
| <b>WG3609315-16 MS</b>  |                 | <b>L2634011-1</b>  |         |           |       |     |        |           |
| Nitrate (as N)          |                 |                    | 105.0   |           | %     |     | 75-125 | 01-SEP-21 |
| <b>WG3609315-8 MS</b>   |                 | <b>L2633977-1</b>  |         |           |       |     |        |           |



### Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

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Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                    | Matrix | Reference         | Result | Qualifier | Units    | RPD  | Limit   | Analyzed  |
|-------------------------|--------|-------------------|--------|-----------|----------|------|---------|-----------|
| NO3-L-IC-N-WP           | Water  |                   |        |           |          |      |         |           |
| <b>Batch</b> R5575365   |        |                   |        |           |          |      |         |           |
| <b>WG3609315-8 MS</b>   |        | <b>L2633977-1</b> |        |           |          |      |         |           |
| Nitrate (as N)          |        |                   | 105.4  |           | %        |      | 75-125  | 01-SEP-21 |
| PH-WP                   | Water  |                   |        |           |          |      |         |           |
| <b>Batch</b> R5574658   |        |                   |        |           |          |      |         |           |
| <b>WG3610008-20 DUP</b> |        | <b>L2634012-1</b> |        |           |          |      |         |           |
| pH                      |        | 8.08              | 7.99   | J         | pH units | 0.09 | 0.2     | 01-SEP-21 |
| <b>WG3610008-17 LCS</b> |        |                   | 6.97   |           | pH units |      | 6.9-7.1 | 01-SEP-21 |
| SO4-IC-N-WP             | Water  |                   |        |           |          |      |         |           |
| <b>Batch</b> R5575365   |        |                   |        |           |          |      |         |           |
| <b>WG3609315-15 DUP</b> |        | <b>L2634011-1</b> |        |           |          |      |         |           |
| Sulfate (SO4)           |        | 22.0              | 22.0   |           | mg/L     | 0.0  | 20      | 01-SEP-21 |
| <b>WG3609315-7 DUP</b>  |        | <b>L2633977-1</b> |        |           |          |      |         |           |
| Sulfate (SO4)           |        | 6.61              | 6.57   |           | mg/L     | 0.7  | 20      | 01-SEP-21 |
| <b>WG3609315-14 LCS</b> |        |                   | 103.3  |           | %        |      | 90-110  | 01-SEP-21 |
| Sulfate (SO4)           |        |                   | 103.6  |           | %        |      | 90-110  | 01-SEP-21 |
| <b>WG3609315-6 LCS</b>  |        |                   |        |           |          |      |         |           |
| Sulfate (SO4)           |        |                   |        |           |          |      |         |           |
| <b>WG3609315-13 MB</b>  |        |                   | <0.30  |           | mg/L     |      | 0.3     | 01-SEP-21 |
| Sulfate (SO4)           |        |                   | <0.30  |           | mg/L     |      | 0.3     | 01-SEP-21 |
| <b>WG3609315-5 MB</b>   |        |                   |        |           |          |      |         |           |
| Sulfate (SO4)           |        |                   |        |           |          |      |         |           |
| <b>WG3609315-16 MS</b>  |        | <b>L2634011-1</b> |        |           |          |      |         |           |
| Sulfate (SO4)           |        |                   | 104.9  |           | %        |      | 75-125  | 01-SEP-21 |
| <b>WG3609315-8 MS</b>   |        | <b>L2633977-1</b> |        |           |          |      |         |           |
| Sulfate (SO4)           |        |                   | 105.3  |           | %        |      | 75-125  | 01-SEP-21 |
| TURBIDITY-WP            | Water  |                   |        |           |          |      |         |           |
| <b>Batch</b> R5575278   |        |                   |        |           |          |      |         |           |
| <b>WG3609532-3 DUP</b>  |        | <b>L2633977-1</b> |        |           |          |      |         |           |
| Turbidity               |        | 24.4              | 24.6   |           | NTU      | 0.8  | 15      | 01-SEP-21 |
| <b>WG3609532-2 LCS</b>  |        |                   | 99.96  |           | %        |      | 85-115  | 01-SEP-21 |
| Turbidity               |        |                   | <0.10  |           | NTU      |      | 0.1     | 01-SEP-21 |

# Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7

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Contact: BRYANNA SHERBO

## Legend:

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Limit ALS Control Limit (Data Quality Objectives)  
DUP Duplicate  
RPD Relative Percent Difference  
N/A Not Available  
LCS Laboratory Control Sample  
SRM Standard Reference Material  
MS Matrix Spike  
MSD Matrix Spike Duplicate  
ADE Average Desorption Efficiency  
MB Method Blank  
IRM Internal Reference Material  
CRM Certified Reference Material  
CCV Continuing Calibration Verification  
CVS Calibration Verification Standard  
LCSD Laboratory Control Sample Duplicate

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description  |
|-----------|--|
| B         | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |
| J         | Duplicate results and limits are expressed in terms of absolute difference.  |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.                                       |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.  |

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# Quality Control Report

Workorder: L2634011

Report Date: 08-SEP-21

Client: Manitoba Metis Federation  
300 - 150 Henry Avenue  
Winnipeg MB R3B 0J7  
Contact: BRYANNA SHERBO

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## Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date   | Date Processed  | Rec. HT | Actual HT | Units | Qualifier |
|-------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| <b>Physical Tests</b>   |           |                 |                 |         |           |       |           |
| pH                      |           |                 |                 |         |           |       |           |
|                         | 1         | 30-AUG-21 14:00 | 01-SEP-21 12:00 | 0.25    | 46        | hours | EHTR-FM   |
|                         | 2         | 30-AUG-21 14:00 | 01-SEP-21 12:00 | 0.25    | 46        | hours | EHTR-FM   |
|                         | 3         | 30-AUG-21 14:00 | 01-SEP-21 12:00 | 0.25    | 46        | hours | EHTR-FM   |
|                         | 4         | 30-AUG-21 14:00 | 01-SEP-21 12:00 | 0.25    | 46        | hours | EHTR-FM   |
|                         | 5         | 30-AUG-21 14:00 | 01-SEP-21 12:00 | 0.25    | 46        | hours | EHTR-FM   |
|                         | 6         | 30-AUG-21 14:00 | 01-SEP-21 12:00 | 0.25    | 46        | hours | EHTR-FM   |
|                         | 7         | 30-AUG-21 14:00 | 01-SEP-21 12:00 | 0.25    | 46        | hours | EHTR-FM   |
|                         | 8         | 30-AUG-21 14:00 | 01-SEP-21 12:00 | 0.25    | 46        | hours | EHTR-FM   |

## Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.  
EHTR: Exceeded ALS recommended hold time prior to sample receipt.  
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.  
EHT: Exceeded ALS recommended hold time prior to analysis.  
Rec. HT: ALS recommended hold time (see units).

Notes\*:  
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.  
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2634011 were received on 31-AUG-21 16:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.








**Manitoba Metis Federation**  
**300 - 150 Henry Avenue**  
**Winnipeg MB R3B 0J7**  
**ATTN: BRYANNA SHERBO**

**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** K1 - 0M - BACT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-1  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| Iron Bacteria  | 2200   | IRB:BC    | CFU/mL           |           |                     | 02-SEP-21     |
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



Manitoba Metis Federation  
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 Winnipeg MB R3B 0J7  
 ATTN: BRYANNA SHERBO

Date: 13-SEP-21  
 PO No.:  
 WO No.: L2634033  
 Project Ref: SHERRIDON,MB  
 Sample ID: K1 - SEDIMENT  
 Sampled By: BS  
 Date Collected: 30-AUG-21  
 Lab Sample ID: L2634033-2  
 Matrix: LAKE/RIVER

| Test Description                   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|------------------------------------|--------|-----------|------------------|-----------|---------------------|---------------|
| <b>Metals in Soil by CRC ICPMS</b> |        |           |                  |           |                     |               |
| Aluminum (Al)                      | 9570   |           | mg/kg            |           |                     | 10-SEP-21     |
| Antimony (Sb)                      | 0.32   |           | mg/kg            |           |                     | 10-SEP-21     |
| Arsenic (As)                       | 8.95   |           | mg/kg            |           |                     | 10-SEP-21     |
| Barium (Ba)                        | 64.7   |           | mg/kg            |           |                     | 10-SEP-21     |
| Beryllium (Be)                     | 0.39   |           | mg/kg            |           |                     | 10-SEP-21     |
| Bismuth (Bi)                       | <0.20  |           | mg/kg            |           |                     | 10-SEP-21     |
| Boron (B)                          | <5.0   |           | mg/kg            |           |                     | 10-SEP-21     |
| Cadmium (Cd)                       | 12.7   |           | mg/kg            |           |                     | 10-SEP-21     |
| Calcium (Ca)                       | 11700  |           | mg/kg            |           |                     | 10-SEP-21     |
| Chromium (Cr)                      | 14.2   |           | mg/kg            |           |                     | 10-SEP-21     |
| Cobalt (Co)                        | 37.4   |           | mg/kg            |           |                     | 10-SEP-21     |
| Copper (Cu)                        | 715    |           | mg/kg            |           |                     | 10-SEP-21     |
| Iron (Fe)                          | 145000 |           | mg/kg            |           |                     | 10-SEP-21     |
| Lead (Pb)                          | 10.8   |           | mg/kg            |           |                     | 10-SEP-21     |
| Lithium (Li)                       | 6.8    |           | mg/kg            |           |                     | 10-SEP-21     |
| Magnesium (Mg)                     | 3110   |           | mg/kg            |           |                     | 10-SEP-21     |
| Manganese (Mn)                     | 1040   |           | mg/kg            |           |                     | 10-SEP-21     |
| Molybdenum (Mo)                    | 1.62   |           | mg/kg            |           |                     | 10-SEP-21     |
| Nickel (Ni)                        | 19.0   |           | mg/kg            |           |                     | 10-SEP-21     |
| Phosphorus (P)                     | 1430   |           | mg/kg            |           |                     | 10-SEP-21     |
| Potassium (K)                      | 970    |           | mg/kg            |           |                     | 10-SEP-21     |
| Selenium (Se)                      | 2.39   |           | mg/kg            |           |                     | 10-SEP-21     |
| Silver (Ag)                        | 0.29   |           | mg/kg            |           |                     | 10-SEP-21     |
| Sodium (Na)                        | 158    |           | mg/kg            |           |                     | 10-SEP-21     |
| Strontium (Sr)                     | 19.0   |           | mg/kg            |           |                     | 10-SEP-21     |
| Sulfur (S)                         | 4600   |           | mg/kg            |           |                     | 10-SEP-21     |
| Thallium (Tl)                      | 0.122  |           | mg/kg            |           |                     | 10-SEP-21     |
| Tin (Sn)                           | <2.0   |           | mg/kg            |           |                     | 10-SEP-21     |
| Titanium (Ti)                      | 329    |           | mg/kg            |           |                     | 10-SEP-21     |
| Tungsten (W)                       | <0.50  |           | mg/kg            |           |                     | 10-SEP-21     |
| Uranium (U)                        | 2.94   |           | mg/kg            |           |                     | 10-SEP-21     |
| Vanadium (V)                       | 29.8   |           | mg/kg            |           |                     | 10-SEP-21     |
| Zinc (Zn)                          | 2990   |           | mg/kg            |           |                     | 10-SEP-21     |
| Zirconium (Zr)                     | 2.3    |           | mg/kg            |           |                     | 10-SEP-21     |

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**Manitoba Metis Federation**  
**300 - 150 Henry Avenue**  
**Winnipeg MB R3B 0J7**  
**ATTN: BRYANNA SHERBO**

**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** K1 - SEDIMENT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-2  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u><i>Hua Wo</i></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



**Manitoba Metis Federation**  
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**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** K1 - 2.5M - BACT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-3  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| Iron Bacteria  | 2200   | IRB:BC    | CFU/mL           |           |                     | 02-SEP-21     |
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u>Hua Wo</u><br/>           Hua Wo<br/>           Account Manager</p>  |        |           |                  |           |                     |               |



**Manitoba Metis Federation**  
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**ATTN: BRYANNA SHERBO**

**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** K2 - 0M - BACT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-4  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| Iron Bacteria  | 2200   | IRB:BC    | CFU/mL           |           |                     | 02-SEP-21     |
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



Manitoba Metis Federation  
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 ATTN: BRYANNA SHERBO

Date: 13-SEP-21  
 PO No.:  
 WO No.: L2634033  
 Project Ref: SHERRIDON,MB  
 Sample ID: C3 - 0M - BACT  
 Sampled By: BS  
 Date Collected: 30-AUG-21  
 Lab Sample ID: L2634033-5  
 Matrix: LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| Iron Bacteria  | 2200   | IRB:BR    | CFU/mL           |           |                     | 02-SEP-21     |
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u><i>Hua Wo</i></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



Manitoba Metis Federation  
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 Winnipeg MB R3B 0J7  
 ATTN: BRYANNA SHERBO

Date: 13-SEP-21  
 PO No.:  
 WO No.: L2634033  
 Project Ref: SHERRIDON,MB  
 Sample ID: C3 - SEDIMENT  
 Sampled By: BS  
 Date Collected: 30-AUG-21  
 Lab Sample ID: L2634033-6  
 Matrix: LAKE/RIVER

| Test Description                   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|------------------------------------|--------|-----------|------------------|-----------|---------------------|---------------|
| <b>Metals in Soil by CRC ICPMS</b> |        |           |                  |           |                     |               |
| Aluminum (Al)                      | 21900  |           | mg/kg            |           |                     | 10-SEP-21     |
| Antimony (Sb)                      | 0.11   |           | mg/kg            |           |                     | 10-SEP-21     |
| Arsenic (As)                       | 2.62   |           | mg/kg            |           |                     | 10-SEP-21     |
| Barium (Ba)                        | 131    |           | mg/kg            |           |                     | 10-SEP-21     |
| Beryllium (Be)                     | 0.34   |           | mg/kg            |           |                     | 10-SEP-21     |
| Bismuth (Bi)                       | 0.20   |           | mg/kg            |           |                     | 10-SEP-21     |
| Boron (B)                          | 10.9   |           | mg/kg            |           |                     | 10-SEP-21     |
| Cadmium (Cd)                       | 0.501  |           | mg/kg            |           |                     | 10-SEP-21     |
| Calcium (Ca)                       | 5880   |           | mg/kg            |           |                     | 10-SEP-21     |
| Chromium (Cr)                      | 69.2   |           | mg/kg            |           |                     | 10-SEP-21     |
| Cobalt (Co)                        | 7.57   |           | mg/kg            |           |                     | 10-SEP-21     |
| Copper (Cu)                        | 113    |           | mg/kg            |           |                     | 10-SEP-21     |
| Iron (Fe)                          | 89700  |           | mg/kg            |           |                     | 10-SEP-21     |
| Lead (Pb)                          | 11.3   |           | mg/kg            |           |                     | 10-SEP-21     |
| Lithium (Li)                       | 23.9   |           | mg/kg            |           |                     | 10-SEP-21     |
| Magnesium (Mg)                     | 10800  |           | mg/kg            |           |                     | 10-SEP-21     |
| Manganese (Mn)                     | 264    |           | mg/kg            |           |                     | 10-SEP-21     |
| Molybdenum (Mo)                    | 1.37   |           | mg/kg            |           |                     | 10-SEP-21     |
| Nickel (Ni)                        | 19.1   |           | mg/kg            |           |                     | 10-SEP-21     |
| Phosphorus (P)                     | 672    |           | mg/kg            |           |                     | 10-SEP-21     |
| Potassium (K)                      | 6340   |           | mg/kg            |           |                     | 10-SEP-21     |
| Selenium (Se)                      | 0.77   |           | mg/kg            |           |                     | 10-SEP-21     |
| Silver (Ag)                        | 0.12   |           | mg/kg            |           |                     | 10-SEP-21     |
| Sodium (Na)                        | 410    |           | mg/kg            |           |                     | 10-SEP-21     |
| Strontium (Sr)                     | 18.8   |           | mg/kg            |           |                     | 10-SEP-21     |
| Sulfur (S)                         | <1000  |           | mg/kg            |           |                     | 10-SEP-21     |
| Thallium (Tl)                      | 0.307  |           | mg/kg            |           |                     | 10-SEP-21     |
| Tin (Sn)                           | <2.0   |           | mg/kg            |           |                     | 10-SEP-21     |
| Titanium (Ti)                      | 1840   |           | mg/kg            |           |                     | 10-SEP-21     |
| Tungsten (W)                       | <0.50  |           | mg/kg            |           |                     | 10-SEP-21     |
| Uranium (U)                        | 0.959  |           | mg/kg            |           |                     | 10-SEP-21     |
| Vanadium (V)                       | 86.7   |           | mg/kg            |           |                     | 10-SEP-21     |
| Zinc (Zn)                          | 311    |           | mg/kg            |           |                     | 10-SEP-21     |
| Zirconium (Zr)                     | 12.5   |           | mg/kg            |           |                     | 10-SEP-21     |


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**300 - 150 Henry Avenue**  
**Winnipeg MB R3B 0J7**  
**ATTN: BRYANNA SHERBO**


**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** C3 - SEDIMENT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-6  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



**Manitoba Metis Federation**  
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**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** C4 - 0M - BACT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-7  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| Iron Bacteria  | 2200   | IRB:BR    | CFU/mL           |           |                     | 02-SEP-21     |
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



**Manitoba Metis Federation**  
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**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** C4 - 3M - BACT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-8  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| Iron Bacteria  | 2200   | IRB:BC    | CFU/mL           |           |                     | 02-SEP-21     |
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



Manitoba Metis Federation  
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 ATTN: BRYANNA SHERBO

Date: 13-SEP-21  
 PO No.:  
 WO No.: L2634033  
 Project Ref: SHERRIDON,MB  
 Sample ID: C4 - SEDIMENT  
 Sampled By: BS  
 Date Collected: 30-AUG-21  
 Lab Sample ID: L2634033-9  
 Matrix: LAKE/RIVER


| Test Description                   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|------------------------------------|--------|-----------|------------------|-----------|---------------------|---------------|
| <b>Metals in Soil by CRC ICPMS</b> |        |           |                  |           |                     |               |
| Aluminum (Al)                      | 20000  |           | mg/kg            |           |                     | 10-SEP-21     |
| Antimony (Sb)                      | 1.25   |           | mg/kg            |           |                     | 10-SEP-21     |
| Arsenic (As)                       | 5.87   |           | mg/kg            |           |                     | 10-SEP-21     |
| Barium (Ba)                        | 117    |           | mg/kg            |           |                     | 10-SEP-21     |
| Beryllium (Be)                     | 0.58   |           | mg/kg            |           |                     | 10-SEP-21     |
| Bismuth (Bi)                       | 0.25   |           | mg/kg            |           |                     | 10-SEP-21     |
| Boron (B)                          | 9.5    |           | mg/kg            |           |                     | 10-SEP-21     |
| Cadmium (Cd)                       | 1.61   |           | mg/kg            |           |                     | 10-SEP-21     |
| Calcium (Ca)                       | 7980   |           | mg/kg            |           |                     | 10-SEP-21     |
| Chromium (Cr)                      | 43.5   |           | mg/kg            |           |                     | 10-SEP-21     |
| Cobalt (Co)                        | 10.4   |           | mg/kg            |           |                     | 10-SEP-21     |
| Copper (Cu)                        | 650    |           | mg/kg            |           |                     | 10-SEP-21     |
| Iron (Fe)                          | 35700  |           | mg/kg            |           |                     | 10-SEP-21     |
| Lead (Pb)                          | 25.2   |           | mg/kg            |           |                     | 10-SEP-21     |
| Lithium (Li)                       | 27.1   |           | mg/kg            |           |                     | 10-SEP-21     |
| Magnesium (Mg)                     | 7540   |           | mg/kg            |           |                     | 10-SEP-21     |
| Manganese (Mn)                     | 269    |           | mg/kg            |           |                     | 10-SEP-21     |
| Molybdenum (Mo)                    | 0.50   |           | mg/kg            |           |                     | 10-SEP-21     |
| Nickel (Ni)                        | 23.8   |           | mg/kg            |           |                     | 10-SEP-21     |
| Phosphorus (P)                     | 455    |           | mg/kg            |           |                     | 10-SEP-21     |
| Potassium (K)                      | 3900   |           | mg/kg            |           |                     | 10-SEP-21     |
| Selenium (Se)                      | 2.01   |           | mg/kg            |           |                     | 10-SEP-21     |
| Silver (Ag)                        | 0.61   |           | mg/kg            |           |                     | 10-SEP-21     |
| Sodium (Na)                        | 275    |           | mg/kg            |           |                     | 10-SEP-21     |
| Strontium (Sr)                     | 21.7   |           | mg/kg            |           |                     | 10-SEP-21     |
| Sulfur (S)                         | 1500   |           | mg/kg            |           |                     | 10-SEP-21     |
| Thallium (Tl)                      | 0.268  |           | mg/kg            |           |                     | 10-SEP-21     |
| Tin (Sn)                           | 2.0    |           | mg/kg            |           |                     | 10-SEP-21     |
| Titanium (Ti)                      | 1060   |           | mg/kg            |           |                     | 10-SEP-21     |
| Tungsten (W)                       | <0.50  |           | mg/kg            |           |                     | 10-SEP-21     |
| Uranium (U)                        | 1.84   |           | mg/kg            |           |                     | 10-SEP-21     |
| Vanadium (V)                       | 49.3   |           | mg/kg            |           |                     | 10-SEP-21     |
| Zinc (Zn)                          | 546    |           | mg/kg            |           |                     | 10-SEP-21     |
| Zirconium (Zr)                     | 14.2   |           | mg/kg            |           |                     | 10-SEP-21     |

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**Winnipeg MB R3B 0J7**  
**ATTN: BRYANNA SHERBO**


**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** C4 - SEDIMENT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-9  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



**Manitoba Metis Federation**  
**300 - 150 Henry Avenue**  
**Winnipeg MB R3B 0J7**  
**ATTN: BRYANNA SHERBO**

**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** P5 - BACT - SPAWNING CREEK  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-10  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| Iron Bacteria  | 2200   | IRB:BC    | CFU/mL           |           |                     | 02-SEP-21     |
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



Manitoba Metis Federation  
 300 - 150 Henry Avenue  
 Winnipeg MB R3B 0J7  
 ATTN: BRYANNA SHERBO

Date: 13-SEP-21  
 PO No.:  
 WO No.: L2634033  
 Project Ref: SHERRIDON,MB  
 Sample ID: S6 - SHERLETT - BACT  
 Sampled By: BS  
 Date Collected: 30-AUG-21  
 Lab Sample ID: L2634033-11  
 Matrix: LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| Iron Bacteria  | 2200   | IRB:BC    | CFU/mL           |           |                     | 02-SEP-21     |
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u><i>Hua Wo</i></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |



Manitoba Metis Federation  
 300 - 150 Henry Avenue  
 Winnipeg MB R3B 0J7  
 ATTN: BRYANNA SHERBO

Date: 13-SEP-21  
 PO No.:  
 WO No.: L2634033  
 Project Ref: SHERRIDON,MB  
 Sample ID: S6 - SED - SHERLETT  
 Sampled By: BS  
 Date Collected: 30-AUG-21  
 Lab Sample ID: L2634033-12  
 Matrix: LAKE/RIVER

| Test Description                   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|------------------------------------|--------|-----------|------------------|-----------|---------------------|---------------|
| <b>Metals in Soil by CRC ICPMS</b> |        |           |                  |           |                     |               |
| Aluminum (Al)                      | 33100  |           | mg/kg            |           |                     | 10-SEP-21     |
| Antimony (Sb)                      | 0.22   |           | mg/kg            |           |                     | 10-SEP-21     |
| Arsenic (As)                       | 5.93   |           | mg/kg            |           |                     | 10-SEP-21     |
| Barium (Ba)                        | 189    |           | mg/kg            |           |                     | 10-SEP-21     |
| Beryllium (Be)                     | 1.28   |           | mg/kg            |           |                     | 10-SEP-21     |
| Bismuth (Bi)                       | 0.31   |           | mg/kg            |           |                     | 10-SEP-21     |
| Boron (B)                          | 13.0   |           | mg/kg            |           |                     | 10-SEP-21     |
| Cadmium (Cd)                       | 1.38   |           | mg/kg            |           |                     | 10-SEP-21     |
| Calcium (Ca)                       | 5380   |           | mg/kg            |           |                     | 10-SEP-21     |
| Chromium (Cr)                      | 67.4   |           | mg/kg            |           |                     | 10-SEP-21     |
| Cobalt (Co)                        | 15.4   |           | mg/kg            |           |                     | 10-SEP-21     |
| Copper (Cu)                        | 3960   |           | mg/kg            |           |                     | 10-SEP-21     |
| Iron (Fe)                          | 37700  |           | mg/kg            |           |                     | 10-SEP-21     |
| Lead (Pb)                          | 17.6   |           | mg/kg            |           |                     | 10-SEP-21     |
| Lithium (Li)                       | 44.1   |           | mg/kg            |           |                     | 10-SEP-21     |
| Magnesium (Mg)                     | 12400  |           | mg/kg            |           |                     | 10-SEP-21     |
| Manganese (Mn)                     | 387    |           | mg/kg            |           |                     | 10-SEP-21     |
| Molybdenum (Mo)                    | 0.49   |           | mg/kg            |           |                     | 10-SEP-21     |
| Nickel (Ni)                        | 39.9   |           | mg/kg            |           |                     | 10-SEP-21     |
| Phosphorus (P)                     | 568    |           | mg/kg            |           |                     | 10-SEP-21     |
| Potassium (K)                      | 6490   |           | mg/kg            |           |                     | 10-SEP-21     |
| Selenium (Se)                      | 1.01   |           | mg/kg            |           |                     | 10-SEP-21     |
| Silver (Ag)                        | 0.25   |           | mg/kg            |           |                     | 10-SEP-21     |
| Sodium (Na)                        | 483    |           | mg/kg            |           |                     | 10-SEP-21     |
| Strontium (Sr)                     | 31.8   |           | mg/kg            |           |                     | 10-SEP-21     |
| Sulfur (S)                         | <1000  |           | mg/kg            |           |                     | 10-SEP-21     |
| Thallium (Tl)                      | 0.417  |           | mg/kg            |           |                     | 10-SEP-21     |
| Tin (Sn)                           | <2.0   |           | mg/kg            |           |                     | 10-SEP-21     |
| Titanium (Ti)                      | 1530   |           | mg/kg            |           |                     | 10-SEP-21     |
| Tungsten (W)                       | <0.50  |           | mg/kg            |           |                     | 10-SEP-21     |
| Uranium (U)                        | 2.23   |           | mg/kg            |           |                     | 10-SEP-21     |
| Vanadium (V)                       | 72.9   |           | mg/kg            |           |                     | 10-SEP-21     |
| Zinc (Zn)                          | 495    |           | mg/kg            |           |                     | 10-SEP-21     |
| Zirconium (Zr)                     | 25.1   |           | mg/kg            |           |                     | 10-SEP-21     |

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721  
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**Manitoba Metis Federation**  
**300 - 150 Henry Avenue**  
**Winnipeg MB R3B 0J7**  
**ATTN: BRYANNA SHERBO**

**Date:** 13-SEP-21  
**PO No.:**  
**WO No.:** L2634033  
**Project Ref:** SHERRIDON,MB  
**Sample ID:** S6 - SED - SHERLETT  
**Sampled By:** BS  
**Date Collected:** 30-AUG-21  
**Lab Sample ID:** L2634033-12  
**Matrix:** LAKE/RIVER

| Test Description   | Result | Qualifier | Units of Measure | CDWQG MAC | Aesthetic Objective | Date Analyzed |
|--|--------|-----------|------------------|-----------|---------------------|---------------|
| <p><b>CDWQG = Health Canada Guideline Limits updated</b></p> <p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L &lt; or N.D. = less than detection limit.<br/>           * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality<br/>           - A blank entry designates no known limit.<br/>           - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p> |        |           |                  |           |                     |               |
| <p>Approved by <u><i>Hua Wo</i></u><br/>           Hua Wo<br/>           Account Manager</p>   |        |           |                  |           |                     |               |

# Guidelines & Objectives

## Sample Parameter Qualifier key listed:

| Qualifier | Description                |
|-----------|----------------------------|
| IRB:BC    | Brown Cloudy: IRB dominant |
| IRB:BR    | Brown Ring: IRB dominant   |

## Health Canada MAC Health Related Criteria Limits

|                    |  |
|--------------------|--|
| Nitrate/Nitrite-N* | Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants. |
| Lead*              | A cumulative body poison, uncommon in naturally occurring hard waters.   |
| Fluoride*          | Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).       |
| Total Coliforms*   | Criteria is 0 CFU/100mL. Adverse health effects.   |
| E. Coli*           | Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening.  |
| Manganese*         | Criteria limit is 0.12 mg/L. Possible neurological effects in infants.   |

\*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

## Aesthetic Objective Concentration Levels

|                        |  |
|------------------------|--|
| Alkalinity             | Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.  |
| Balance                | Quality control parameter ratioing cations to anions   |
| Bicarbonate            | See Alkalinity. Report as the anion HCO <sub>3</sub> -1  |
| Carbonate              | See Alkalinity. Reported at the anion CO <sub>3</sub> -2   |
| Calcium                | See Hardness. Common major cation of water chemistry.  |
| Chloride               | Common major anion of water chemistry.   |
| Conductance            | Physical test measuring water salinity (dissolved ions or solids)  |
| Hardness               | Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.                            |
| Hydroxide              | See alkalinity   |
| Magnesium              | See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.  |
| pH                     | Measure of water acidity/alkalinity. Normal range is 7.0-8.5.  |
| Potassium              | Common major cation of water chemistry.  |
| Sodium                 | Common major cation of water chemistry. Measure of salinity (saltiness).The aesthetic objective (not related to health) for sodium in drinking water is 200 mg/L. However, where sodium concentration of the drinking water exceeds 20 mg/L, it is recommended that any person on a sodium restricted diet consult with his/her physician or Medical Officer of Health concerning the use of that water. |
| Sulphate               | Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.   |
| Total Dissolved Solids | A measure of water salinity.   |
| Iron                   | Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.   |
| Heterotrophic          |  |
| Plate Count            | Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.  |

## GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

## Quality Control Report

Workorder: L2634033

Report Date: 13-SEP-21

Page 1 of 6

Client: Manitoba Metis Federation  
 300 - 150 Henry Avenue  
 Winnipeg MB R3B 0J7

Contact: BRYANNA SHERBO

| Test                   | Matrix          | Reference       | Result | Qualifier | Units  | RPD | Limit       | Analyzed  |
|------------------------|-----------------|-----------------|--------|-----------|--------|-----|-------------|-----------|
| IB-BART-SQ-CL          | Water           |                 |        |           |        |     |             |           |
| <b>Batch</b>           | <b>R5583111</b> |                 |        |           |        |     |             |           |
| <b>WG3616009-1 MB</b>  |                 |                 |        |           |        |     |             |           |
| Iron Bacteria          |                 |                 | <1.0   |           | CFU/mL |     | 1           | 02-SEP-21 |
| MET-200.2-CCMS-VA      | Soil            |                 |        |           |        |     |             |           |
| <b>Batch</b>           | <b>R5582072</b> |                 |        |           |        |     |             |           |
| <b>WG3614415-4 CRM</b> |                 | <b>SCP SS-2</b> |        |           |        |     |             |           |
| Aluminum (Al)          |                 |                 | 113.0  |           | %      |     | 70-130      | 10-SEP-21 |
| Antimony (Sb)          |                 |                 | 100.8  |           | %      |     | 70-130      | 10-SEP-21 |
| Arsenic (As)           |                 |                 | 101.6  |           | %      |     | 70-130      | 10-SEP-21 |
| Barium (Ba)            |                 |                 | 99.5   |           | %      |     | 70-130      | 10-SEP-21 |
| Beryllium (Be)         |                 |                 | 106.2  |           | %      |     | 70-130      | 10-SEP-21 |
| Bismuth (Bi)           |                 |                 | 0.14   |           | mg/kg  |     | 0-0.34      | 10-SEP-21 |
| Boron (B)              |                 |                 | 10.4   |           | mg/kg  |     | 3.5-13.5    | 10-SEP-21 |
| Cadmium (Cd)           |                 |                 | 98.6   |           | %      |     | 70-130      | 10-SEP-21 |
| Calcium (Ca)           |                 |                 | 105.5  |           | %      |     | 70-130      | 10-SEP-21 |
| Chromium (Cr)          |                 |                 | 107.1  |           | %      |     | 70-130      | 10-SEP-21 |
| Cobalt (Co)            |                 |                 | 102.0  |           | %      |     | 70-130      | 10-SEP-21 |
| Copper (Cu)            |                 |                 | 100.6  |           | %      |     | 70-130      | 10-SEP-21 |
| Iron (Fe)              |                 |                 | 103.3  |           | %      |     | 70-130      | 10-SEP-21 |
| Lead (Pb)              |                 |                 | 103.8  |           | %      |     | 70-130      | 10-SEP-21 |
| Lithium (Li)           |                 |                 | 103.8  |           | %      |     | 70-130      | 10-SEP-21 |
| Magnesium (Mg)         |                 |                 | 108.7  |           | %      |     | 70-130      | 10-SEP-21 |
| Manganese (Mn)         |                 |                 | 106.2  |           | %      |     | 70-130      | 10-SEP-21 |
| Molybdenum (Mo)        |                 |                 | 115.4  |           | %      |     | 70-130      | 10-SEP-21 |
| Nickel (Ni)            |                 |                 | 101.4  |           | %      |     | 70-130      | 10-SEP-21 |
| Phosphorus (P)         |                 |                 | 100.5  |           | %      |     | 70-130      | 10-SEP-21 |
| Potassium (K)          |                 |                 | 109.6  |           | %      |     | 70-130      | 10-SEP-21 |
| Selenium (Se)          |                 |                 | 0.13   |           | mg/kg  |     | 0-0.34      | 10-SEP-21 |
| Sodium (Na)            |                 |                 | 106.2  |           | %      |     | 70-130      | 10-SEP-21 |
| Strontium (Sr)         |                 |                 | 100.5  |           | %      |     | 70-130      | 10-SEP-21 |
| Thallium (Tl)          |                 |                 | 0.081  |           | mg/kg  |     | 0.029-0.129 | 10-SEP-21 |
| Tin (Sn)               |                 |                 | 98.4   |           | %      |     | 70-130      | 10-SEP-21 |
| Titanium (Ti)          |                 |                 | 114.8  |           | %      |     | 70-130      | 10-SEP-21 |
| Uranium (U)            |                 |                 | 103.1  |           | %      |     | 70-130      | 10-SEP-21 |
| Vanadium (V)           |                 |                 | 105.6  |           | %      |     | 70-130      | 10-SEP-21 |



## Quality Control Report

Workorder: L2634033

Report Date: 13-SEP-21

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| Test               | Matrix          | Reference       | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|--------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-CCMS-VA  | Soil            |                 |        |           |       |     |        |           |
| <b>Batch</b>       | <b>R5582072</b> |                 |        |           |       |     |        |           |
| <b>WG3614415-4</b> | <b>CRM</b>      | <b>SCP SS-2</b> |        |           |       |     |        |           |
| Zinc (Zn)          |                 |                 | 102.0  |           | %     |     | 70-130 | 10-SEP-21 |
| Zirconium (Zr)     |                 |                 | 96.2   |           | %     |     | 70-130 | 10-SEP-21 |
| <b>WG3614415-3</b> | <b>LCS</b>      |                 |        |           |       |     |        |           |
| Aluminum (Al)      |                 |                 | 104.4  |           | %     |     | 80-120 | 10-SEP-21 |
| Antimony (Sb)      |                 |                 | 112.9  |           | %     |     | 80-120 | 10-SEP-21 |
| Arsenic (As)       |                 |                 | 105.3  |           | %     |     | 80-120 | 10-SEP-21 |
| Barium (Ba)        |                 |                 | 104.1  |           | %     |     | 80-120 | 10-SEP-21 |
| Beryllium (Be)     |                 |                 | 101.3  |           | %     |     | 80-120 | 10-SEP-21 |
| Bismuth (Bi)       |                 |                 | 105.5  |           | %     |     | 80-120 | 10-SEP-21 |
| Boron (B)          |                 |                 | 101.8  |           | %     |     | 80-120 | 10-SEP-21 |
| Cadmium (Cd)       |                 |                 | 104.9  |           | %     |     | 80-120 | 10-SEP-21 |
| Calcium (Ca)       |                 |                 | 104.7  |           | %     |     | 80-120 | 10-SEP-21 |
| Chromium (Cr)      |                 |                 | 102.5  |           | %     |     | 80-120 | 10-SEP-21 |
| Cobalt (Co)        |                 |                 | 103.6  |           | %     |     | 80-120 | 10-SEP-21 |
| Copper (Cu)        |                 |                 | 103.0  |           | %     |     | 80-120 | 10-SEP-21 |
| Iron (Fe)          |                 |                 | 104.5  |           | %     |     | 80-120 | 10-SEP-21 |
| Lead (Pb)          |                 |                 | 106.5  |           | %     |     | 80-120 | 10-SEP-21 |
| Lithium (Li)       |                 |                 | 98.3   |           | %     |     | 80-120 | 10-SEP-21 |
| Magnesium (Mg)     |                 |                 | 113.5  |           | %     |     | 80-120 | 10-SEP-21 |
| Manganese (Mn)     |                 |                 | 103.7  |           | %     |     | 80-120 | 10-SEP-21 |
| Molybdenum (Mo)    |                 |                 | 105.6  |           | %     |     | 80-120 | 10-SEP-21 |
| Nickel (Ni)        |                 |                 | 102.1  |           | %     |     | 80-120 | 10-SEP-21 |
| Phosphorus (P)     |                 |                 | 102.8  |           | %     |     | 80-120 | 10-SEP-21 |
| Potassium (K)      |                 |                 | 108.3  |           | %     |     | 80-120 | 10-SEP-21 |
| Selenium (Se)      |                 |                 | 106.6  |           | %     |     | 80-120 | 10-SEP-21 |
| Silver (Ag)        |                 |                 | 102.5  |           | %     |     | 80-120 | 10-SEP-21 |
| Sodium (Na)        |                 |                 | 111.0  |           | %     |     | 80-120 | 10-SEP-21 |
| Strontium (Sr)     |                 |                 | 101.9  |           | %     |     | 80-120 | 10-SEP-21 |
| Sulfur (S)         |                 |                 | 103.9  |           | %     |     | 80-120 | 10-SEP-21 |
| Thallium (Tl)      |                 |                 | 108.9  |           | %     |     | 80-120 | 10-SEP-21 |
| Tin (Sn)           |                 |                 | 105.4  |           | %     |     | 80-120 | 10-SEP-21 |
| Titanium (Ti)      |                 |                 | 104.1  |           | %     |     | 80-120 | 10-SEP-21 |
| Tungsten (W)       |                 |                 | 103.3  |           | %     |     | 80-120 | 10-SEP-21 |
| Uranium (U)        |                 |                 | 102.5  |           | %     |     | 80-120 | 10-SEP-21 |



## Quality Control Report

Workorder: L2634033

Report Date: 13-SEP-21

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| Test               | Matrix          | Reference | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|--------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-CCMS-VA  | Soil            |           |        |           |       |     |        |           |
| <b>Batch</b>       | <b>R5582072</b> |           |        |           |       |     |        |           |
| <b>WG3614415-3</b> | <b>LCS</b>      |           |        |           |       |     |        |           |
| Vanadium (V)       |                 |           | 106.8  |           | %     |     | 80-120 | 10-SEP-21 |
| Zinc (Zn)          |                 |           | 102.8  |           | %     |     | 80-120 | 10-SEP-21 |
| Zirconium (Zr)     |                 |           | 104.7  |           | %     |     | 70-130 | 10-SEP-21 |
| <b>WG3614415-1</b> | <b>MB</b>       |           |        |           |       |     |        |           |
| Aluminum (Al)      |                 |           | <50    |           | mg/kg |     | 50     | 10-SEP-21 |
| Antimony (Sb)      |                 |           | <0.10  |           | mg/kg |     | 0.1    | 10-SEP-21 |
| Arsenic (As)       |                 |           | <0.10  |           | mg/kg |     | 0.1    | 10-SEP-21 |
| Barium (Ba)        |                 |           | <0.50  |           | mg/kg |     | 0.5    | 10-SEP-21 |
| Beryllium (Be)     |                 |           | <0.10  |           | mg/kg |     | 0.1    | 10-SEP-21 |
| Bismuth (Bi)       |                 |           | <0.20  |           | mg/kg |     | 0.2    | 10-SEP-21 |
| Boron (B)          |                 |           | <5.0   |           | mg/kg |     | 5      | 10-SEP-21 |
| Cadmium (Cd)       |                 |           | <0.020 |           | mg/kg |     | 0.02   | 10-SEP-21 |
| Calcium (Ca)       |                 |           | <50    |           | mg/kg |     | 50     | 10-SEP-21 |
| Chromium (Cr)      |                 |           | <0.50  |           | mg/kg |     | 0.5    | 10-SEP-21 |
| Cobalt (Co)        |                 |           | <0.10  |           | mg/kg |     | 0.1    | 10-SEP-21 |
| Copper (Cu)        |                 |           | <0.50  |           | mg/kg |     | 0.5    | 10-SEP-21 |
| Iron (Fe)          |                 |           | <50    |           | mg/kg |     | 50     | 10-SEP-21 |
| Lead (Pb)          |                 |           | <0.50  |           | mg/kg |     | 0.5    | 10-SEP-21 |
| Lithium (Li)       |                 |           | <2.0   |           | mg/kg |     | 2      | 10-SEP-21 |
| Magnesium (Mg)     |                 |           | <20    |           | mg/kg |     | 20     | 10-SEP-21 |
| Manganese (Mn)     |                 |           | <1.0   |           | mg/kg |     | 1      | 10-SEP-21 |
| Molybdenum (Mo)    |                 |           | <0.10  |           | mg/kg |     | 0.1    | 10-SEP-21 |
| Nickel (Ni)        |                 |           | <0.50  |           | mg/kg |     | 0.5    | 10-SEP-21 |
| Phosphorus (P)     |                 |           | <50    |           | mg/kg |     | 50     | 10-SEP-21 |
| Potassium (K)      |                 |           | <100   |           | mg/kg |     | 100    | 10-SEP-21 |
| Selenium (Se)      |                 |           | <0.20  |           | mg/kg |     | 0.2    | 10-SEP-21 |
| Silver (Ag)        |                 |           | <0.10  |           | mg/kg |     | 0.1    | 10-SEP-21 |
| Sodium (Na)        |                 |           | <50    |           | mg/kg |     | 50     | 10-SEP-21 |
| Strontium (Sr)     |                 |           | <0.50  |           | mg/kg |     | 0.5    | 10-SEP-21 |
| Sulfur (S)         |                 |           | <1000  |           | mg/kg |     | 1000   | 10-SEP-21 |
| Thallium (Tl)      |                 |           | <0.050 |           | mg/kg |     | 0.05   | 10-SEP-21 |
| Tin (Sn)           |                 |           | <2.0   |           | mg/kg |     | 2      | 10-SEP-21 |
| Titanium (Ti)      |                 |           | <1.0   |           | mg/kg |     | 1      | 10-SEP-21 |
| Tungsten (W)       |                 |           | <0.50  |           | mg/kg |     | 0.5    | 10-SEP-21 |



## Quality Control Report

Workorder: L2634033

Report Date: 13-SEP-21

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| Test               | Matrix          | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed  |
|--------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-CCMS-VA  | Soil            |           |        |           |       |     |       |           |
| <b>Batch</b>       | <b>R5582072</b> |           |        |           |       |     |       |           |
| <b>WG3614415-1</b> | <b>MB</b>       |           |        |           |       |     |       |           |
| Uranium (U)        |                 |           | <0.050 |           | mg/kg |     | 0.05  | 10-SEP-21 |
| Vanadium (V)       |                 |           | <0.20  |           | mg/kg |     | 0.2   | 10-SEP-21 |
| Zinc (Zn)          |                 |           | <2.0   |           | mg/kg |     | 2     | 10-SEP-21 |
| Zirconium (Zr)     |                 |           | <1.0   |           | mg/kg |     | 1     | 10-SEP-21 |

# Quality Control Report

Workorder: L2634033

Report Date: 13-SEP-21

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

# Quality Control Report

Workorder: L2634033

Report Date: 13-SEP-21

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## Hold Time Exceedances:

| ALS Product Description          | Sample ID | Sampling Date   | Date Processed  | Rec. HT | Actual HT | Units | Qualifier |
|----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| <b>Bacteriological Tests</b>     |           |                 |                 |         |           |       |           |
| Iron Bacteria, Semi-quantitative |           |                 |                 |         |           |       |           |
|                                  | 1         | 30-AUG-21 11:00 | 02-SEP-21 08:00 | 24      | 69        | hours | EHTR      |
|                                  | 3         | 30-AUG-21 11:00 | 02-SEP-21 08:00 | 24      | 69        | hours | EHTR      |
|                                  | 4         | 30-AUG-21 11:00 | 02-SEP-21 08:00 | 24      | 69        | hours | EHTR      |
|                                  | 5         | 30-AUG-21 11:00 | 02-SEP-21 08:00 | 24      | 69        | hours | EHTR      |
|                                  | 7         | 30-AUG-21 11:00 | 02-SEP-21 08:00 | 24      | 69        | hours | EHTR      |
|                                  | 8         | 30-AUG-21 11:00 | 02-SEP-21 08:00 | 24      | 69        | hours | EHTR      |
|                                  | 10        | 30-AUG-21 11:00 | 02-SEP-21 08:00 | 24      | 69        | hours | EHTR      |
|                                  | 11        | 30-AUG-21 11:00 | 02-SEP-21 08:00 | 24      | 69        | hours | EHTR      |

## Legend & Qualifier Definitions:

|          |   |
|----------|---|
| EHTR-FM: | Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.                    |
| EHTR:    | Exceeded ALS recommended hold time prior to sample receipt.   |
| EHTL:    | Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry. |
| EHT:     | Exceeded ALS recommended hold time prior to analysis.   |
| Rec. HT: | ALS recommended hold time (see units).  |

Notes\*:  
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.  
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2634033 were received on 31-AUG-21 16:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.





12 - 1329 Niakwa Rd. E.  
Winnipeg, Manitoba R2J 3T4  
Tel: (204) 255-9720  
Fax: (204) 255-9721  
Toll Free: 1 800 607 7555

Chain of Custody / Analytical Request Form

WORK ORDER NO: BR 327226

**FOR LABORATORY USE ONLY (S)**

Sample Condition Upon Receipt:  UNACCEPTABLE  
 Frozen  Cold  Ambient  Broken  Leakage  Incorrect Sample Container  
 COMMENT: \_\_\_\_\_

LAB NO.: \_\_\_\_\_  
 DATE RECEIVED: 31/8/21  
 TIME RECEIVED: 16:15  
 BY: FMA TEMP: 8.4°C

Date Sampled: Aug 30/21 Time: 11-14:00 A.M.  P.M.

Date Required: asap

Location: Shernidan, MB  
(Town, Community, City)

Submitter's Name Printed: Bryanna Sherbo

Sample Submitted By: Bryanna Sherbo

Community Code Number: n/a

Rural Municipality/LGC/UVD: n/a

**SAMPLE TYPE**

**DRINKING WATER**

- Untreated Well
- Treated Well
- Treated Municipal
- Non-Treated Municipal
- Water-Surface-Raw
- Water-Surface-Treated
- PURPOSE OF TEST**
- Private  Real Estate  Water Main

**PLEASE PRINT & PRESS FIRMLY**

**NON-DRINKING WATER**

- Sewage/Waste Water
- Lake/River
- Swimming Pool
- Whirl Pool
- Other: \_\_\_\_\_

**NOTES & CONDITIONS**

1. Quote number **MUST BE** provided to insure proper pricing.
2. Failure to properly complete all portions of this form may delay analysis.
3. ALS's liability limited to cost of analysis.

**SERVICE REQUESTED**

- REGULAR (50% SURCHARGE)
- PRIORITY
- EMERGENCY (100% SURCHARGE)
- SAME DAY (200% SURCHARGE)

| LAB NUMBER | SAMPLE IDENTIFICATION         | ALS CUSTOMER #  | QUOTE # |
|------------|-------------------------------|---|---------|
|            |                               | <u>W2055</u>  |         |
|            |                               | <b>REPORT TO BE SENT TO</b>   |         |
|            | <u>K1 - 0m - bact.</u>        | NAME: <u>Bryanna Sherbo</u>   |         |
|            | <u>K1 - sediment</u>          | COMPANY: <u>Manitoba Metis Federation</u>   |         |
|            | <u>K1 - 2.5m - bact.</u>      | ADDRESS: <u>150 Henry Ave</u>   |         |
|            | <u>K2 - 0m - bact.</u>        | CITY/TOWN: <u>WPG</u> / PROV.: <u>MB</u>  |         |
|            | <u>C3 - 0m - bact</u>         | POSTAL CODE: <u>R3B 0J7</u>   |         |
|            | <u>C3 - sed.</u>              | PHONE: <u>204-586-8474</u>  |         |
|            | <u>C4 - 0m - bact.</u>        | BY: MAIL <input type="checkbox"/> FAX <input type="checkbox"/>                          |         |
|            | <u>C4 - 3m - bact.</u>        | E-MAIL <input checked="" type="checkbox"/> <u>bryanna.sherbo@mmf.mb.ca</u> (FAX NUMBER) |         |
|            | <u>C4 - sed.</u>              | (EMAIL ADDRESS)   |         |
|            | <u>P5 - bact - spawning</u>   | CC  |         |
|            | <u>S6 - Sherlett to creek</u> | NAME: <u>Marci Riel</u>   |         |
|            | <u>S6 - sed - Sherlett</u>    | ADDRESS: <u>same</u>  |         |
|            |                               | CITY/TOWN: _____ / PROV.: _____   |         |
|            |                               | POSTAL CODE: _____  |         |
|            |                               | PHONE: _____  |         |
|            |                               | BY: MAIL <input type="checkbox"/> FAX <input type="checkbox"/>                          |         |
|            |                               | E-MAIL <input checked="" type="checkbox"/> <u>marci-riel@mmf.mb.ca</u> (FAX NUMBER)     |         |
|            |                               | (EMAIL ADDRESS)   |         |

**Analyses required**

- Sediment metals (Fe likely high)
- Iron reducing bacteria test

**BILLING ADDRESS**

SAME AS REPORT TO

NAME: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY/TOWN: \_\_\_\_\_ / PROV.: \_\_\_\_\_  
 POSTAL CODE: \_\_\_\_\_

**PAYMENT PARTICULARS (CASH NOT ACCEPTED)**

- INVOICE NEEDED / CLIENT'S P.O. NO. \_\_\_\_\_
- INTERAC
- CHEQUE Subtotal \$ \_\_\_\_\_
- VISA G.S.T. \$ \_\_\_\_\_
- MASTERCARD Total \$ \_\_\_\_\_

\* OUR POLICY IS NOT TO ACCEPT SAMPLES FROM THE PRIVATE CITIZEN WITHOUT PREPAYMENT

**SAMPLING INSTRUCTIONS ON REVERSE SIDE  
 ALS ENVIRONMENTAL**

12 - 1329 Niakwa Rd. E., Winnipeg, MB Canada R2J 3T4  
 Phone: +1 204 255 9720 Fax: +1 204 255 9721 www.alsglobal.com  
 A Campbell Brothers Limited Company

**SUBMITTER COPY**

ENTERED IN LIMS BY: \_\_\_\_\_

## **Eva Pip statements to Winnipeg Free Press on ALS analysis**

1. The iron is very high, and without knowing details about where the samples were collected, this looks like typical northern Manitoba mine tailings leachate. Iron in itself is not considered toxic for people, although there is an aesthetic threshold because the water will look an alarming orange-red-brown, and it will taste bad. It will stain.
2. Iron bacteria are present where there is high iron as well as at least some oxygen. They create slimes, bad tastes and odors, and plug up pipes and screens, but are not considered toxic, just very hard to eradicate from plumbing systems. The lab did not go further and identify which iron bacteria specifically these are. There is no federal guideline for iron bacteria.
3. We assume that this is not drinking water, and some of the samples are labelled as sediments, so the federal guidelines which we will apply are the Canadian Sediment Quality Guidelines for the Protection of Aquatic Life, and the Canadian Water Quality Guidelines for the Protection of Aquatic Life. In other words, protection primarily of fish.
4. Note that in Canada we only have environmental guidelines, not standards, and thus the threshold values are not enforceable. Also note that although the analysis list is quite comprehensive for the samples, only a few of these parameters are on the Guidelines lists, so those are the only ones we can definitively discuss. It is possible some of the other parameters might be of concern, but we have no guideline reference to compare them to.
5. For sediments, we assume that the lab results are in terms of dry sediment weight. We can only discuss arsenic, cadmium, copper, chromium, lead and zinc. The lab doesn't say which valency of chromium they analyzed (they vary tremendously in toxicity), so we assume total chromium.

### **Sediment sample K1- sediment**

Guideline levels are exceeded for arsenic, cadmium, and especially for copper (guideline 35.7, sample 715) and zinc (guideline 123, sample 2990). Iron is extremely high, but is not on the sediment guideline list.

### **Sediment sample C3 - sediment**

Guidelines exceeded for chromium, copper and zinc, but not as bad as the K1 sample. Iron is still very high.

### **Sediment sample C4 - sediment**

Guidelines exceeded for cadmium, chromium, zinc, and especially copper (guideline 35.7, sample 650). Arsenic is right on the borderline. Iron high.

### **Sediment sample S6 - SED – SHERLETT**

Guideline levels exceeded for cadmium, chromium, zinc and especially copper (guideline 35.7, sample 3960). Arsenic is once again borderline. Iron high.

The conductivity, hardness, pH, total dissolved solids and other macro parameters in the water samples are all OK. Turbidity is excessive in C4- 3M.

However, iron is exceeded in all 8 water samples.

**Summary:**

All 4 sediment samples exceeded guidelines for aquatic life protection for copper and zinc. Some samples also exceeded for arsenic, chromium and cadmium.

Iron was very high in all sediment and water samples.

Mercury was not tested.

Typically sediments are much higher than the overlying water for metal contaminants because the sediments form the primary reservoir in aquatic ecosystems where metals are adsorbed.

These are contaminated sites and these habitats would not be suitable for fish because of elevated concentrations of toxic metals.