



HEMMERA ENVIROCHEM INC.  
ATTN: Natasha Sandys  
230 - 2237 2nd Avenue  
Whitehorse YK Y1A 0K7

Date Received: 26-JAN-16  
Report Date: 24-FEB-16 11:36 (MT)  
Version: FINAL REV. 2

Client Phone: 867-456-4865

## Certificate of Analysis

Lab Work Order #: L1727085  
Project P.O. #: NOT SUBMITTED  
Job Reference: 1343-005.15  
C of C Numbers: 1  
Legal Site Desc:

### Comments:

24-FEB-2016 This report replaces the previous version and contains additional analyses, as requested.

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Brent Mack, B.Sc.  
Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700  
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## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID                         | Description                     | Sampled Date           | Sampled Time           | Client ID              | L1727085-1             | L1727085-2 | L1727085-3 | L1727085-4 | L1727085-5 |
|-----------------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|------------|------------|------------|------------|
|                                   |                                 |                        |                        |                        | Water                  | Water      | Water      | Water      | Water      |
|                                   |                                 | 23-JAN-16              | 10:45                  | DUP 1                  | 23-JAN-16              | 23-JAN-16  | 23-JAN-16  | 24-JAN-16  | 23-JAN-16  |
|                                   |                                 |                        |                        |                        | 10:45                  | 10:48      | 14:50      | 14:35      | 13:15      |
|                                   |                                 |                        |                        |                        | DUP 1                  | E3         | E4         | GWCC-2     | E1(H)      |
| Grouping                          | Analyte                         |                        |                        |                        |                        |            |            |            |            |
| <b>WATER</b>                      |                                 |                        |                        |                        |                        |            |            |            |            |
| <b>Physical Tests</b>             | Conductivity (uS/cm)            | 1010                   | 1050                   | 1350                   | 1950                   | 616        |            |            |            |
|                                   | Hardness (as CaCO3) (mg/L)      | 722                    | 719                    | 898                    | 1400                   | 367        |            |            |            |
|                                   | pH (pH)                         | 8.05                   | 8.05                   | 7.37                   | 7.66                   | 7.70       |            |            |            |
|                                   | Total Suspended Solids (mg/L)   | <3.0                   | <3.0                   | <3.0                   | <3.0                   | <3.0       |            |            |            |
| <b>Anions and Nutrients</b>       | Ammonia, Total (as N) (mg/L)    | <0.0050                | <0.0050                | 0.0304                 | <0.0050                | 0.0054     |            |            |            |
|                                   | Nitrate (as N) (mg/L)           | 0.429                  | 0.439                  | 0.145                  | 0.425                  | 0.186      |            |            |            |
|                                   | Nitrite (as N) (mg/L)           | <0.0020 <sup>DLA</sup> | <0.0020 <sup>DLA</sup> | <0.0020 <sup>DLA</sup> | <0.0050 <sup>DLA</sup> | <0.0010    |            |            |            |
|                                   | Phosphorus (P)-Total (mg/L)     | 0.0051                 | 0.0070                 | <0.0020                | <0.0020                | 0.0100     |            |            |            |
|                                   | Sulfate (SO4) (mg/L)            | 390                    | 397                    | 627                    | 1180                   | 203        |            |            |            |
| <b>Organic / Inorganic Carbon</b> | Dissolved Organic Carbon (mg/L) | 6.56                   | 6.79                   | 8.02                   | 7.31                   | 15.7       |            |            |            |
| <b>Total Metals</b>               | Aluminum (Al)-Total (mg/L)      | 0.0054                 | 0.0062                 | 0.0045                 | 0.0230                 | 0.0307     |            |            |            |
|                                   | Antimony (Sb)-Total (mg/L)      | 0.00190                | 0.00173                | 0.00043                | 0.00093                | 0.00029    |            |            |            |
|                                   | Arsenic (As)-Total (mg/L)       | 0.00191                | 0.00178                | 0.00095                | 0.00145                | 0.00063    |            |            |            |
|                                   | Barium (Ba)-Total (mg/L)        | 0.0874                 | 0.0797                 | 0.0630                 | 0.0225                 | 0.0605     |            |            |            |
|                                   | Beryllium (Be)-Total (mg/L)     | <0.000020              | <0.000020              | <0.000020              | <0.000020              | <0.000020  |            |            |            |
|                                   | Bismuth (Bi)-Total (mg/L)       | <0.000050              | <0.000050              | <0.000050              | <0.000050              | <0.000050  |            |            |            |
|                                   | Boron (B)-Total (mg/L)          | 0.341                  | 0.310                  | 0.127                  | 0.092                  | 0.011      |            |            |            |
|                                   | Cadmium (Cd)-Total (mg/L)       | 0.0000145              | 0.0000125              | 0.0000678              | 0.000159               | 0.0000386  |            |            |            |
|                                   | Calcium (Ca)-Total (mg/L)       | 95.4                   | 91.7                   | 139                    | 194                    | 77.4       |            |            |            |
|                                   | Chromium (Cr)-Total (mg/L)      | 0.00127                | 0.00119                | 0.00067                | 0.00428                | 0.00047    |            |            |            |
|                                   | Cobalt (Co)-Total (mg/L)        | <0.00010               | <0.00010               | 0.00210                | 0.00019                | 0.00040    |            |            |            |
|                                   | Copper (Cu)-Total (mg/L)        | 0.00098                | 0.00090                | 0.00091                | 0.00122                | 0.00234    |            |            |            |
|                                   | Iron (Fe)-Total (mg/L)          | 0.010                  | 0.010                  | 0.357                  | 0.082                  | 0.187      |            |            |            |
|                                   | Lead (Pb)-Total (mg/L)          | <0.000050              | <0.000050              | <0.000050              | <0.000050              | <0.000050  |            |            |            |
|                                   | Lithium (Li)-Total (mg/L)       | 0.0140                 | 0.0124                 | 0.0310                 | 0.0136                 | 0.0034     |            |            |            |
|                                   | Magnesium (Mg)-Total (mg/L)     | 116                    | 111                    | 137                    | 231                    | 40.9       |            |            |            |
|                                   | Manganese (Mn)-Total (mg/L)     | 0.00774                | 0.00717                | 0.404                  | 0.00160                | 0.277      |            |            |            |
|                                   | Mercury (Hg)-Total (mg/L)       | <0.0000050             | <0.0000050             | <0.0000050             | <0.0000050             | <0.0000050 |            |            |            |
|                                   | Molybdenum (Mo)-Total (mg/L)    | 0.00194                | 0.00182                | 0.00186                | 0.00283                | 0.00131    |            |            |            |
|                                   | Nickel (Ni)-Total (mg/L)        | 0.0258                 | 0.0240                 | 0.0345                 | 0.0476                 | 0.00465    |            |            |            |
|                                   | Phosphorus (P)-Total (mg/L)     | <0.050                 | <0.050                 | <0.050                 | <0.050                 | <0.050     |            |            |            |
|                                   | Potassium (K)-Total (mg/L)      | 1.63                   | 1.57                   | 2.02                   | 2.17                   | 0.89       |            |            |            |
|                                   | Selenium (Se)-Total (mg/L)      | 0.00105                | 0.000946               | 0.00100                | 0.00379                | 0.00165    |            |            |            |
|                                   | Silicon (Si)-Total (mg/L)       | 6.32                   | 6.02                   | 5.77                   | 5.06                   | 5.23       |            |            |            |
| Silver (Ag)-Total (mg/L)          | <0.000010                       | <0.000010              | 0.000024               | <0.000010              | <0.000010              |            |            |            |            |
| Sodium (Na)-Total (mg/L)          | 7.56                            | 7.03                   | 10.8                   | 8.06                   | 3.39                   |            |            |            |            |

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

|                                   | Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID | L1727085-6<br>Water<br>23-JAN-16<br>11:45<br>E2 | L1727085-7<br>Water<br>24-JAN-16<br>13:35<br>GWCC-1 | L1727085-8<br>Water<br>24-JAN-16<br>15:10<br>GWCC-4 |  |
|-----------------------------------|---|---|---|---|--|
| Grouping                          | Analyte   |   |   |   |  |
| <b>WATER</b>                      |   |   |   |   |  |
| <b>Physical Tests</b>             | Conductivity (uS/cm)  | 1450  | 2410  | 1060  |  |
|                                   | Hardness (as CaCO3) (mg/L)  | 961   | 1880  | 683   |  |
|                                   | pH (pH)   | 7.65  | 7.56  | 7.64  |  |
|                                   | Total Suspended Solids (mg/L)   | <3.0  | <3.0  | <3.0  |  |
| <b>Anions and Nutrients</b>       | Ammonia, Total (as N) (mg/L)  | 0.0470  | <0.0050   | <0.0050   |  |
|                                   | Nitrate (as N) (mg/L)   | 0.180   | 0.523 <sup>HTD</sup>                                | 0.187   |  |
|                                   | Nitrite (as N) (mg/L)   | <0.0050 <sup>DLA</sup>                          | <0.010 <sup>DLA</sup>                               | <0.0020 <sup>DLA</sup>                              |  |
|                                   | Phosphorus (P)-Total (mg/L)   | 0.0034  | <0.0020   | <0.0020   |  |
|                                   | Sulfate (SO4) (mg/L)  | 763   | 1660  | 470   |  |
| <b>Organic / Inorganic Carbon</b> | Dissolved Organic Carbon (mg/L)                                       | 7.77  | 5.09  | 8.75  |  |
| <b>Total Metals</b>               | Aluminum (Al)-Total (mg/L)  | 0.0035  | <0.0060 <sup>DLA</sup>                              | <0.0030   |  |
|                                   | Antimony (Sb)-Total (mg/L)  | 0.00064   | 0.00109   | 0.00061   |  |
|                                   | Arsenic (As)-Total (mg/L)   | 0.00254   | 0.00199   | 0.00120   |  |
|                                   | Barium (Ba)-Total (mg/L)  | 0.0544  | 0.0196  | 0.0389  |  |
|                                   | Beryllium (Be)-Total (mg/L)   | <0.000020                                       | <0.000040 <sup>DLA</sup>                            | <0.000020   |  |
|                                   | Bismuth (Bi)-Total (mg/L)   | <0.000050                                       | <0.00010 <sup>DLA</sup>                             | <0.000050   |  |
|                                   | Boron (B)-Total (mg/L)  | 0.145   | 0.313   | 0.036   |  |
|                                   | Cadmium (Cd)-Total (mg/L)   | 0.0000727                                       | 0.000202  | 0.0000556   |  |
|                                   | Calcium (Ca)-Total (mg/L)   | 144   | 214   | 120   |  |
|                                   | Chromium (Cr)-Total (mg/L)  | 0.00088   | 0.00257   | 0.00060   |  |
|                                   | Cobalt (Co)-Total (mg/L)  | 0.00323   | <0.00020 <sup>DLA</sup>                             | <0.00010  |  |
|                                   | Copper (Cu)-Total (mg/L)  | 0.00069   | <0.0010 <sup>DLA</sup>                              | 0.00090   |  |
|                                   | Iron (Fe)-Total (mg/L)  | 0.991   | <0.010  | 0.010   |  |
|                                   | Lead (Pb)-Total (mg/L)  | <0.000050                                       | <0.00010 <sup>DLA</sup>                             | <0.000050   |  |
|                                   | Lithium (Li)-Total (mg/L)   | 0.0286  | 0.101   | 0.0063  |  |
|                                   | Magnesium (Mg)-Total (mg/L)   | 152   | 336   | 94.3  |  |
|                                   | Manganese (Mn)-Total (mg/L)   | 0.314   | 0.00021   | 0.00023   |  |
|                                   | Mercury (Hg)-Total (mg/L)   | <0.0000050                                      | <0.0000050  | <0.0000050  |  |
|                                   | Molybdenum (Mo)-Total (mg/L)  | 0.00258   | 0.00284   | 0.00207   |  |
|                                   | Nickel (Ni)-Total (mg/L)  | 0.0464  | 0.0762  | 0.0328  |  |
|                                   | Phosphorus (P)-Total (mg/L)   | <0.050  | <0.050  | <0.050  |  |
|                                   | Potassium (K)-Total (mg/L)  | 2.17  | 3.97  | 1.23  |  |
|                                   | Selenium (Se)-Total (mg/L)  | 0.00179   | 0.00466   | 0.00227   |  |
|                                   | Silicon (Si)-Total (mg/L)   | 5.89  | 6.11  | 5.08  |  |
|                                   | Silver (Ag)-Total (mg/L)  | <0.000010                                       | <0.000020 <sup>DLA</sup>                            | <0.000010   |  |
| Sodium (Na)-Total (mg/L)          | 9.69  | 21.5  | 4.24  |   |  |

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID |                                       | L1727085-1<br>Water<br>23-JAN-16<br>10:45<br>DUP 1 | L1727085-2<br>Water<br>23-JAN-16<br>10:48<br>E3 | L1727085-3<br>Water<br>23-JAN-16<br>14:50<br>E4 | L1727085-4<br>Water<br>24-JAN-16<br>14:35<br>GWCC-2 | L1727085-5<br>Water<br>23-JAN-16<br>13:15<br>E1(H) |
|---|---------------------------------------|--|---|---|---|--|
| Grouping  | Analyte                               |  |   |   |   |  |
| <b>WATER</b>  |                                       |  |   |   |   |  |
| <b>Total Metals</b>   | Strontium (Sr)-Total (mg/L)           | 0.658  | 0.604   | 1.05  | 1.08  | 0.355  |
|   | Sulfur (S)-Total (mg/L)               | 127  | 122   | 201   | 377   | 65.9   |
|   | Thallium (Tl)-Total (mg/L)            | <0.000010  | <0.000010                                       | 0.000013  | 0.000054  | <0.000010  |
|   | Tin (Sn)-Total (mg/L)                 | <0.00010   | <0.00010  | <0.00010  | <0.00010  | <0.00010   |
|   | Titanium (Ti)-Total (mg/L)            | <0.00030   | <0.00030  | <0.00030  | <0.0012 <sup>DLM</sup>                              | 0.00058  |
|   | Uranium (U)-Total (mg/L)              | 0.00414  | 0.00376   | 0.00457   | 0.00456   | 0.00260  |
|   | Vanadium (V)-Total (mg/L)             | <0.00050   | <0.00050  | <0.00050  | <0.00050  | <0.00050   |
|   | Zinc (Zn)-Total (mg/L)                | <0.0030  | <0.0030   | <0.0030   | 0.0053  | <0.0030  |
|   | Zirconium (Zr)-Total (mg/L)           | <0.00030   | <0.00030  | 0.00173   | 0.00034   | 0.00073  |
| <b>Dissolved Metals</b>   | Dissolved Mercury Filtration Location | FIELD  | FIELD   | FIELD   | FIELD   | FIELD  |
|   | Dissolved Metals Filtration Location  | FIELD  | FIELD   | FIELD   | FIELD   | FIELD  |
|   | Aluminum (Al)-Dissolved (mg/L)        | 0.0022   | 0.0024  | 0.0022  | 0.0017  | 0.0222   |
|   | Antimony (Sb)-Dissolved (mg/L)        | 0.00188  | 0.00185   | 0.00041   | 0.00090   | 0.00031  |
|   | Arsenic (As)-Dissolved (mg/L)         | 0.00186  | 0.00182   | 0.00060   | 0.00130   | 0.00061  |
|   | Barium (Ba)-Dissolved (mg/L)          | 0.0825   | 0.0847  | 0.0619  | 0.0222  | 0.0573   |
|   | Beryllium (Be)-Dissolved (mg/L)       | <0.000020  | <0.000020                                       | <0.000020                                       | <0.000020   | <0.000020  |
|   | Bismuth (Bi)-Dissolved (mg/L)         | <0.000050  | <0.000050                                       | <0.000050                                       | <0.000050   | <0.000050  |
|   | Boron (B)-Dissolved (mg/L)            | 0.321  | 0.311   | 0.116   | 0.084   | 0.010  |
|   | Cadmium (Cd)-Dissolved (mg/L)         | 0.0000136  | 0.0000118                                       | 0.0000685                                       | 0.000133  | 0.0000396  |
|   | Calcium (Ca)-Dissolved (mg/L)         | 98.4   | 98.4  | 139   | 193   | 79.1   |
|   | Chromium (Cr)-Dissolved (mg/L)        | 0.00118  | 0.00116   | 0.00044   | 0.00140   | 0.00042  |
|   | Cobalt (Co)-Dissolved (mg/L)          | <0.00010   | <0.00010  | 0.00199   | <0.00010  | 0.00036  |
|   | Copper (Cu)-Dissolved (mg/L)          | 0.00088  | 0.00088   | 0.00079   | 0.00100   | 0.00224  |
|   | Iron (Fe)-Dissolved (mg/L)            | <0.010   | <0.010  | 0.123   | <0.010  | 0.169  |
|   | Lead (Pb)-Dissolved (mg/L)            | <0.000050  | <0.000050                                       | <0.000050                                       | <0.000050   | <0.000050  |
|   | Lithium (Li)-Dissolved (mg/L)         | 0.0132   | 0.0128  | 0.0301  | 0.0126  | 0.0038   |
|   | Magnesium (Mg)-Dissolved (mg/L)       | 116  | 115   | 134   | 222   | 41.2   |
|   | Manganese (Mn)-Dissolved (mg/L)       | 0.00715  | 0.00724   | 0.395   | 0.00019   | 0.256  |
|   | Mercury (Hg)-Dissolved (mg/L)         | <0.0000050   | <0.0000050                                      | <0.0000050                                      | <0.0000050  | <0.0000050   |
|   | Molybdenum (Mo)-Dissolved (mg/L)      | 0.00183  | 0.00183   | 0.00175   | 0.00273   | 0.00129  |
|   | Nickel (Ni)-Dissolved (mg/L)          | 0.0247   | 0.0247  | 0.0332  | 0.0427  | 0.00454  |
|   | Phosphorus (P)-Dissolved (mg/L)       | <0.050   | <0.050  | <0.050  | <0.050  | <0.050   |
|   | Potassium (K)-Dissolved (mg/L)        | 1.48   | 1.51  | 1.77  | 1.96  | 0.85   |
|   | Selenium (Se)-Dissolved (mg/L)        | 0.00107  | 0.00101   | 0.000988  | 0.00374   | 0.00134  |
|   | Silicon (Si)-Dissolved (mg/L)         | 6.35   | 6.34  | 5.62  | 4.88  | 5.23   |
|   | Silver (Ag)-Dissolved (mg/L)          | <0.000010  | <0.000010                                       | <0.000010                                       | <0.000010   | <0.000010  |
|   | Sodium (Na)-Dissolved (mg/L)          | 7.21   | 7.29  | 10.4  | 7.71  | 3.35   |

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         | Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID | L1727085-6<br>Water<br>23-JAN-16<br>11:45<br>E2 | L1727085-7<br>Water<br>24-JAN-16<br>13:35<br>GWCC-1 | L1727085-8<br>Water<br>24-JAN-16<br>15:10<br>GWCC-4 |  |
|-------------------------|---|---|---|---|--|
| Grouping                | Analyte   |   |   |   |  |
| <b>WATER</b>            |   |   |   |   |  |
| <b>Total Metals</b>     | Strontium (Sr)-Total (mg/L)   | 1.07  | 2.18  | 0.515   |  |
|                         | Sulfur (S)-Total (mg/L)   | 236   | 524   | 154   |  |
|                         | Thallium (Tl)-Total (mg/L)  | 0.000033  | 0.000078  | 0.000041  |  |
|                         | Tin (Sn)-Total (mg/L)   | <0.00010  | <0.00020 <sup>DLA</sup>                             | <0.00010  |  |
|                         | Titanium (Ti)-Total (mg/L)  | <0.00030  | <0.00060 <sup>DLA</sup>                             | <0.00030  |  |
|                         | Uranium (U)-Total (mg/L)  | 0.00410   | 0.00785   | 0.00193   |  |
|                         | Vanadium (V)-Total (mg/L)   | <0.00050  | <0.0010 <sup>DLA</sup>                              | <0.00050  |  |
|                         | Zinc (Zn)-Total (mg/L)  | <0.0030   | 0.0071 <sup>DLA</sup>                               | <0.0030   |  |
|                         | Zirconium (Zr)-Total (mg/L)   | 0.00041   | <0.00060 <sup>DLA</sup>                             | <0.00030  |  |
| <b>Dissolved Metals</b> | Dissolved Mercury Filtration Location                                 | FIELD   | FIELD   | FIELD   |  |
|                         | Dissolved Metals Filtration Location                                  | FIELD   | FIELD   | FIELD   |  |
|                         | Aluminum (Al)-Dissolved (mg/L)  | 0.0022  | <0.0020 <sup>DLA</sup>                              | 0.0012  |  |
|                         | Antimony (Sb)-Dissolved (mg/L)  | 0.00061   | 0.00105   | 0.00067   |  |
|                         | Arsenic (As)-Dissolved (mg/L)   | 0.00229   | 0.00203   | 0.00124   |  |
|                         | Barium (Ba)-Dissolved (mg/L)  | 0.0543  | 0.0200  | 0.0382  |  |
|                         | Beryllium (Be)-Dissolved (mg/L)                                       | <0.000020                                       | <0.000040 <sup>DLA</sup>                            | <0.000020   |  |
|                         | Bismuth (Bi)-Dissolved (mg/L)   | <0.000050                                       | <0.00010 <sup>DLA</sup>                             | <0.000050   |  |
|                         | Boron (B)-Dissolved (mg/L)  | 0.146   | 0.281   | 0.036   |  |
|                         | Cadmium (Cd)-Dissolved (mg/L)   | 0.0000609                                       | 0.000198  | 0.0000531   |  |
|                         | Calcium (Ca)-Dissolved (mg/L)   | 140   | 216   | 121   |  |
|                         | Chromium (Cr)-Dissolved (mg/L)  | 0.00053   | 0.00242 <sup>DLA</sup>                              | 0.00047   |  |
|                         | Cobalt (Co)-Dissolved (mg/L)  | 0.00320   | <0.00020 <sup>DLA</sup>                             | <0.00010  |  |
|                         | Copper (Cu)-Dissolved (mg/L)  | 0.00058   | 0.00077   | 0.00086   |  |
|                         | Iron (Fe)-Dissolved (mg/L)  | 0.735   | <0.010 <sup>DLA</sup>                               | <0.010  |  |
|                         | Lead (Pb)-Dissolved (mg/L)  | <0.000050                                       | <0.00010 <sup>DLA</sup>                             | <0.000050   |  |
|                         | Lithium (Li)-Dissolved (mg/L)   | 0.0263  | 0.0938  | 0.0069  |  |
|                         | Magnesium (Mg)-Dissolved (mg/L)                                       | 148   | 327 <sup>DLA</sup>                                  | 92.3  |  |
|                         | Manganese (Mn)-Dissolved (mg/L)                                       | 0.319   | <0.00020 <sup>DLA</sup>                             | <0.00010  |  |
|                         | Mercury (Hg)-Dissolved (mg/L)   | <0.0000050                                      | <0.0000050  | <0.0000050  |  |
|                         | Molybdenum (Mo)-Dissolved (mg/L)                                      | 0.00245   | 0.00269   | 0.00214   |  |
|                         | Nickel (Ni)-Dissolved (mg/L)  | 0.0446  | 0.0742  | 0.0320  |  |
|                         | Phosphorus (P)-Dissolved (mg/L)                                       | <0.050  | <0.050  | <0.050  |  |
|                         | Potassium (K)-Dissolved (mg/L)  | 1.93  | 3.47  | 1.17  |  |
|                         | Selenium (Se)-Dissolved (mg/L)  | 0.00163   | 0.00470   | 0.00238   |  |
|                         | Silicon (Si)-Dissolved (mg/L)   | 5.82  | 5.96  | 4.94  |  |
|                         | Silver (Ag)-Dissolved (mg/L)  | <0.000010                                       | <0.000020 <sup>DLA</sup>                            | <0.000010   |  |
|                         | Sodium (Na)-Dissolved (mg/L)  | 9.18  | 20.1  | 4.05  |  |

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                      | Sample ID    | L1727085-1 | L1727085-2 | L1727085-3 | L1727085-4 | L1727085-5 |
|-------------------------|--------------------------------------|--------------|------------|------------|------------|------------|------------|
|                         |                                      | Description  | Water      | Water      | Water      | Water      | Water      |
|                         |                                      | Sampled Date | 23-JAN-16  | 23-JAN-16  | 23-JAN-16  | 24-JAN-16  | 23-JAN-16  |
|                         |                                      | Sampled Time | 10:45      | 10:48      | 14:50      | 14:35      | 13:15      |
|                         |                                      | Client ID    | DUP 1      | E3         | E4         | GWCC-2     | E1(H)      |
| Grouping                | Analyte                              |              |            |            |            |            |            |
| <b>WATER</b>            |                                      |              |            |            |            |            |            |
| <b>Dissolved Metals</b> | Strontium (Sr)-Dissolved (mg/L)      | 0.633        | 0.632      | 1.02       | 1.07       | 0.374      |            |
|                         | Sulfur (S)-Dissolved (mg/L)          | 127          | 126        | 195        | 358        | 65.6       |            |
|                         | Thallium (Tl)-Dissolved (mg/L)       | <0.00010     | <0.00010   | 0.00011    | 0.00049    | <0.00010   |            |
|                         | Tin (Sn)-Dissolved (mg/L)            | <0.00010     | <0.00010   | <0.00010   | <0.00010   | <0.00010   |            |
|                         | Titanium (Ti)-Dissolved (mg/L)       | <0.00030     | <0.00030   | <0.00030   | <0.00030   | 0.00039    |            |
|                         | Uranium (U)-Dissolved (mg/L)         | 0.00400      | 0.00391    | 0.00428    | 0.00443    | 0.00263    |            |
|                         | Vanadium (V)-Dissolved (mg/L)        | <0.00050     | <0.00050   | <0.00050   | <0.00050   | <0.00050   |            |
|                         | Zinc (Zn)-Dissolved (mg/L)           | <0.0010      | <0.0010    | 0.0019     | 0.0048     | 0.0021     |            |
|                         | Zirconium (Zr)-Dissolved (mg/L)      | <0.00030     | <0.00030   | 0.00160    | <0.00030   | 0.00078    |            |
| <b>Speciated Metals</b> | Chromium (III)-Dissolved (mg/L)      |              | <0.00042   |            | <0.00043   |            |            |
|                         | Chromium (III)-Total (mg/L)          |              | <0.00072   |            | 0.00258    |            |            |
|                         | Hexavalent Chromium (mg/L)           |              | 0.0014     |            | 0.0017     |            |            |
|                         | Hexavalent Chromium-Dissolved (mg/L) |              | 0.0012     |            | 0.0017     |            |            |

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         | Sample ID                            | L1727085-6 | L1727085-7              | L1727085-8 |
|-------------------------|--------------------------------------|------------|-------------------------|------------|
| Description             | Water                                | Water      | Water                   |            |
| Sampled Date            | 23-JAN-16                            | 24-JAN-16  | 24-JAN-16               |            |
| Sampled Time            | 11:45                                | 13:35      | 15:10                   |            |
| Client ID               | E2                                   | GWCC-1     | GWCC-4                  |            |
| Grouping                | Analyte                              |            |                         |            |
| <b>WATER</b>            |                                      |            |                         |            |
| <b>Dissolved Metals</b> | Strontium (Sr)-Dissolved (mg/L)      | 1.02       | 2.10                    | 0.578      |
|                         | Sulfur (S)-Dissolved (mg/L)          | 223        | 504                     | 149        |
|                         | Thallium (Tl)-Dissolved (mg/L)       | 0.000032   | 0.000076                | 0.000045   |
|                         | Tin (Sn)-Dissolved (mg/L)            | <0.00010   | <0.00020 <sup>DLA</sup> | <0.00010   |
|                         | Titanium (Ti)-Dissolved (mg/L)       | <0.00030   | <0.00060 <sup>DLA</sup> | <0.00030   |
|                         | Uranium (U)-Dissolved (mg/L)         | 0.00377    | 0.00744                 | 0.00212    |
|                         | Vanadium (V)-Dissolved (mg/L)        | <0.00050   | <0.0010 <sup>DLA</sup>  | <0.00050   |
|                         | Zinc (Zn)-Dissolved (mg/L)           | 0.0020     | 0.0065 <sup>DLA</sup>   | 0.0016     |
|                         | Zirconium (Zr)-Dissolved (mg/L)      | 0.00038    | <0.00060 <sup>DLA</sup> | <0.00030   |
| <b>Speciated Metals</b> | Chromium (III)-Dissolved (mg/L)      |            | <0.00047                |            |
|                         | Chromium (III)-Total (mg/L)          |            | <0.00078                |            |
|                         | Hexavalent Chromium (mg/L)           |            | 0.0026                  |            |
|                         | Hexavalent Chromium-Dissolved (mg/L) |            | 0.0025                  |            |

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

## Reference Information

### QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter                 | Qualifier | Applies to Sample Number(s)            |
|---------------------|---------------------------|-----------|--|
| Matrix Spike        | Dissolved Organic Carbon  | MS-B      | L1727085-1, -2, -3, -4, -6, -7, -8     |
| Matrix Spike        | Barium (Ba)-Dissolved     | MS-B      | L1727085-1, -2, -3, -4, -5, -6, -7, -8 |
| Matrix Spike        | Boron (B)-Dissolved       | MS-B      | L1727085-1, -2, -3, -4, -5, -6, -7, -8 |
| Matrix Spike        | Manganese (Mn)-Dissolved  | MS-B      | L1727085-1, -2, -3, -4, -5, -6, -7, -8 |
| Matrix Spike        | Molybdenum (Mo)-Dissolved | MS-B      | L1727085-1, -2, -3, -4, -5, -6, -7, -8 |
| Matrix Spike        | Sodium (Na)-Dissolved     | MS-B      | L1727085-1, -2, -3, -4, -5, -6, -7, -8 |
| Matrix Spike        | Strontium (Sr)-Dissolved  | MS-B      | L1727085-1, -2, -3, -4, -5, -6, -7, -8 |
| Matrix Spike        | Strontium (Sr)-Dissolved  | MS-B      | L1727085-1, -2, -3, -4, -5, -6, -7, -8 |

### Qualifiers for Individual Parameters Listed:

| Qualifier | Description   |
|-----------|---|
| DLA       | Detection Limit adjusted for required dilution  |
| DLM       | Detection Limit Adjusted due to sample matrix effects.  |
| HTD       | Hold time exceeded for re-analysis or dilution, but initial testing was conducted within hold time. |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.  |

### Test Method References:

| ALS Test Code   | Matrix | Test Description                         | Method Reference**                    |
|---|--------|--|---------------------------------------|
| <b>BE-D-L-CCMS-VA</b>   | Water  | Diss. Be (low) in Water by CRC ICPMS     | APHA 3030B/6020A (mod)                |
| Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.  |        |  |                                       |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.  |        |  |                                       |
| <b>BE-T-L-CCMS-VA</b>   | Water  | Total Be (Low) in Water by CRC ICPMS     | EPA 200.2/6020A (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>CARBONS-DOC-VA</b>   | Water  | Dissolved organic carbon by combustion   | APHA 5310B TOTAL ORGANIC CARBON (TOC) |
| This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.  |        |  |                                       |
| <b>CR-CR3-DIS-CALC-ED</b>   | Water  | Dissolved Trivalent Chromium in Water    | CALCULATION                           |
| Chromium (III)-Dissolved is calculated as the difference between the dissolved chromium and the dissolved hexavalent chromium (Cr(VI)) results.   |        |  |                                       |
| <b>CR-CR3-TOT-CALC-ED</b>   | Water  | Total Trivalent Chromium in Water        | CALCULATION                           |
| Chromium (III)-Total is calculated as the difference between the total chromium and the hexavalent chromium (Cr(VI)) results.   |        |  |                                       |
| <b>CR-CR6-ED</b>  | Water  | Chromium, Hexavalent (Cr +6)             | APHA 3500-Cr C (Ion Chromatography)   |
| This analysis is carried out using procedures adapted from method 3500-Cr C in "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from Method 1636 published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. |        |  |                                       |
| Results are based on an un-filtered, field-preserved sample.  |        |  |                                       |
| <b>CR6-D-IC-ED</b>  | Water  | Chromium, Dissolved Hexavalent (Cr +6)   | APHA 3500-Cr C (Ion Chromatography)   |
| This analysis is carried out using procedures adapted from method 3500-Cr C in "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from Method 1636 published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. |        |  |                                       |
| Results are based on a field-filtered, field-preserved sample.  |        |  |                                       |
| <b>EC-MAN-WR</b>  | Water  | Conductivity by Meter                    | APHA 2510 (B)                         |
| This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using an electrode.  |        |  |                                       |
| <b>HARDNESS-CALC-VA</b>   | Water  | Hardness                                 | APHA 2340B                            |
| Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.  |        |  |                                       |
| <b>HG-D-CVAA-VA</b>   | Water  | Diss. Mercury in Water by CVAAS or CVAFS | APHA 3030B/EPA 1631E (mod)            |



## Reference Information

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

**HG-T-CVAA-VA** Water Total Mercury in Water by CVAAS or CVAFS EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

**MET-D-CCMS-VA** Water Dissolved Metals in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

**MET-DIS-LOW-ICP-VA** Water Dissolved Metals in Water by ICPOES EPA 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

**MET-T-CCMS-VA** Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (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.

**MET-TOT-LOW-ICP-VA** Water Total Metals in Water by ICPOES EPA 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

**NH3-F-VA** Water Ammonia in Water by Fluorescence APHA 4500 NH3-NITROGEN (AMMONIA)

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

**NH3-F-VA** Water Ammonia in Water by Fluorescence J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

**NO2-L-IC-N-WR** 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.

**NO3-L-IC-N-WR** 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.

**P-T-PRES-COL-VA** Water Total P in Water by Colour APHA 4500-P Phosphorus

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically after persulphate digestion of the sample.

**PH-MAN-WR** Water pH by Meter APHA 4500-H+

pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 – 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.

**S-DIS-ICP-VA** Water Dissolved Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

**S-TOT-ICP-VA** Water Total Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or

## Reference Information

microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

**SO4-IC-N-WR**                      Water              Sulfate in Water by IC    EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**TSS-MAN-WR**                      Water              Total Suspended Solids by Gravimetric    APHA 2540 D

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.

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

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*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:*

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| Laboratory Definition Code | Laboratory Location |
|----------------------------|---------------------|
|----------------------------|---------------------|

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**Chain of Custody Numbers:**

1

### GLOSSARY OF REPORT TERMS

*Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.*

*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 of sample.*

*mg/L - milligrams per litre.*

*< - Less than.*

*D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).*

*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.*



L1727085-COFC

| <b>Report To</b>   |   | <b>Report Format / Distribution</b>   |            |  | Low (Rush Turnaround Time (TAT) is not available for all tests)   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
|--|---|---|------------|--|---|-----------------|---|--|--------------------------------------|--|-------------------|--------------------------------|-----------|-------------|------------------|----------|-------------------------------------|----------------------|--|
| Company: Hemmera Environchem Inc.  |   | Select Report Format: <input type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) |            |  | R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)                    |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Contact: Natasha Sandys  |   | Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                         |            |  | P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Address: 230 - 2237 2nd Avenue<br>Whitehorse, YT   |   | <input type="checkbox"/> Criteria on Report - provide details below if box checked  |            |  | E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Phone: 867-456-4865  |   | Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX           |            |  | E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge                |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
|  |   | Email 1 or Fax nsandys@hemmera.com  |            |  | Specify Date Required for E2,E or P:  |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
|  |   | Email 2 chris@elr.ca  |            |  | <b>Analysis Request</b>   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| <b>Invoice To</b> Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No              |   | <b>Invoice Distribution</b>   |            |  | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below  |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Copy of Invoice with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                      |   | Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX   |            |  |   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Company: Hemmera Environchem Inc.  |   | Email 1 or Fax nsandys@hemmera.com  |            |  |   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Contact: Natasha Sandys  |   | Email 2 chris@elr.ca  |            |  |   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| <b>Project Information</b>   |   | <b>Oil and Gas Required Fields (client use)</b>   |            |  |   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| ALS Quote #: Q51108  |   | Approver ID:  |            |  |   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Job #: 1343-005.15   |   | Cost Center:  |            |  |   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| PO / AFE:  |   | GL Account:   |            |  |   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| LSD:   |   | Routing Code:   |            |  |   |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| ALS Lab Work Order # (lab use only)  |   | ALS Contact:  |            |  | Sampler: AN/CH  |                 |   |  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| ALS Sample # (lab use only)  | Sample Identification and/or Coordinates (This description will appear on the report) |   |            | Date (dd-mmm-yy)   | Time (hh:mm)  | Sample Type     | Low Level Diss. Met (incl. Hg) and Hardness | Low Level Tot. Met (incl. Hg) and Hardness   | Chromium Speciation (III/VI) - Total | Chromium Speciation (III/VI) - Dissolved | Ammonia - N       | Dissolved Organic Carbon (DOC) | Nitrate-N | Nitrite - N | Total Phosphorus | Sulphate | pH, Conductivity, Total Susp Solids | Number of Containers |  |
|  | Dup 1   |   |            | 23 01 16   | 10:45   | Water           | R   | R  |                                      |  | R                 | R                              | R         | R           | R                | R        | R                                   | 9                    |  |
|  | E3  |   |            | 23 01 16   | 10:48   | Water           | R   | R  |                                      |  | R                 | R                              | R         | R           | R                | R        | R                                   |                      |  |
|  | E4  |   |            | 23 01 16   | 14:50   | Water           | R   | R  |                                      |  | R                 | R                              | R         | R           | R                | R        | R                                   |                      |  |
|  | GWCC-2  |   |            | 24 01 16   | 14:35   | Water           | R   | R  |                                      |  | R                 | R                              | R         | R           | R                | R        | R                                   |                      |  |
|  | E1(H)   |   |            | 23 01 16   | 13:15   | Water           | R   | R  |                                      |  | R                 | R                              | R         | R           | R                | R        | R                                   |                      |  |
|  | E2  |   |            | 23 01 16   | 11:45   | Water           | R   | R  |                                      |  | R                 | R                              | R         | R           | R                | R        | R                                   |                      |  |
|  | GWCC-1  |   |            | 24 01 16   | 13:55   | Water           | R   | R  |                                      |  | R                 | R                              | R         | R           | R                | R        | R                                   |                      |  |
|  | GWCC-4  |   |            | 24 01 16   | 15:10   | Water           | R   | R  |                                      |  | R                 | R                              | R         | R           | R                | R        | R                                   |                      |  |
| <b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>  |   |   |            | <b>Special Instructions / Specify Criteria to add on report (client use)</b>                         |   |                 |   | <b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>   |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Are samples taken from a Regulated DW System?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |   |   |            | Please hold samples for total and dissolved Chromium III/VI pending regular metals analysis results. |   |                 |   | Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>  |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Are samples for human drinking water use?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No     |   |   |            |  |   |                 |   | Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/> |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| INITIAL COOLER TEMPERATURES °C   |   |   |            |  |   |                 |   |  |                                      |  |                   | FINAL COOLER TEMPERATURES °C   |           |             |                  |          |                                     |                      |  |
| 3.1  |   |   |            |  |   |                 |   |  |                                      |  |                   | 36                             |           |             |                  |          |                                     |                      |  |
| <b>SHIPMENT RELEASE (client use)</b>   |   |   |            | <b>INITIAL SHIPMENT RECEPTION (lab use only)</b>   |   |                 |   | <b>FINAL SHIPMENT RECEPTION (lab use only)</b>   |                                      |  |                   |                                |           |             |                  |          |                                     |                      |  |
| Released by: <i>[Signature]</i>  |   | Date: Jan 26 2016   | Time: 9:45 | Received by: <i>[Signature]</i>  |   | Date: 26 Jan 16 | Time: 9:45                                  | Received by: Jean  |                                      |  | Date: JAN 27 2016 |                                |           | Time: 12:53 |                  |          |                                     |                      |  |