

## Underground Data

| Analyte                             | UG-1       |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
|-------------------------------------|------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|----------|-----------|------------|-----------|----------|
|                                     | 11/15/2011 | 1/16/2012 | 6/24/2012 | 9/18/2012 | 12/6/2012 | 2/6/2013 | 6/20/2013 | 7/18/2013 | 7/25/2013 | 8/1/2013 | 8/8/2013 | 9/26/2013 | 12/26/2013 | 2/12/2014 | 4/2/2014 |
| Aluminum, dissolved                 | 0.03       | 0.03      | 0.03      | 0.05      | 0.04      |          | 0.09      | 0.03      | 0.03      | 0.03     | 0.03     | 0.03      | 0.03       | 0.03      | 0.03     |
| Aluminum, total                     | 0.3        | 0.03      | 0.03      | 0.43      | 4.98      | 0.19     | 2.19      | 0.62      | 0.07      | 1.82     | 18       | 1.26      | 0.05       | 0.03      | 5.05     |
| Antimony, dissolved                 | 0.0004     | 0.0004    | 0.0004    | 0.0004    | 0.001     |          | 0.0036    | 0.0056    | 0.0045    | 0.0051   | 0.0055   | 0.0033    | 0.0007     | 0.0007    | 0.0009   |
| Antimony, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.0011     |           |          |
| Arsenic, dissolved                  | 0.003      | 0.0031    | 0.0017    | 0.0037    | 0.0013    | 0.002    | 0.0019    | 0.0036    | 0.0025    | 0.0024   | 0.0015   | 0.0028    | 0.003      | 0.0024    | 0.0006   |
| Arsenic, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 0.0036     |           |          |
| Arsenic, total recoverable          |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Barium, dissolved                   | 0.019      | 0.022     | 0.024     | 0.146     | 0.033     | 0.031    | 0.037     | 0.032     | 0.031     | 0.028    | 0.054    | 0.033     | 0.025      | 0.029     | 0.039    |
| Barium, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 0.032      |           |          |
| Beryllium, dissolved                | 0.0001     | 0.0001    | 0.0001    | 0.0001    | 0.00005   |          | 0.00005   | 0.00005   | 0.00005   | 0.00005  | 0.00005  | 0.00005   | 0.00005    | 0.00008   | 0.00005  |
| Beryllium, total                    |            |           |           |           |           |          |           |           |           |          |          |           | 0.00005    |           |          |
| Bicarbonate as CaCO3                | 59         | 69        | 63        | 58        | 60        | 61       | 54        | 54        | 52        | 53       | 56       | 55        | 59         | 60        | 46       |
| Biochemical Oxygen Demand (5 day)   |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Boron, dissolved                    | 0.01       | 0.01      | 0.02      | 0.01      | 0.01      | 0.01     | 0.01      | 0.01      | 0.01      | 0.01     | 0.01     | 0.01      | 0.01       | 0.01      | 0.02     |
| Boron, total                        |            |           |           |           |           |          |           |           |           |          |          |           | 0.03       |           |          |
| Cadmium, dissolved                  | 0.0001     | 0.0001    | 0.0001    | 0.0001    | 0.0001    |          | 0.001     | 0.001     | 0.001     | 0.001    | 0.001    | 0.001     | 0.001      | 0.001     | 0.001    |
| Cadmium, potentially dissolved      |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Cadmium, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 0.001      |           |          |
| Calcium, dissolved                  | 34.9       | 35.5      | 36        | 33.8      | 47.3      | 48.8     | 41.4      | 46        | 48.1      | 45.3     | 50.6     | 43.5      | 45.9       | 66.5      | 89.3     |
| Calcium, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 51.7       |           |          |
| Carbon, dissolved organic (DOC)     |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Carbonate as CaCO3                  | 2          | 2         | 2         | 2         | 2         |          | 2         | 2         | 2         | 2        | 2        | 2         | 2          | 2         | 2        |
| Cation-Anion Balance                | 0          | -6.4      | 0         | -2.3      | -1.7      | 0        | 0         | 1.1       | 3.1       | 0.9      | 4.4      | 4         | -3.6       | -1.3      | 4.1      |
| Chemical Oxygen Demand              |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Chloride                            | 1          | 1         | 1         | 1         | 1         |          | 1         | 1         | 2         | 1        | 1        | 1         | 1          | 1         | 1        |
| Chromium, dissolved                 | 0.0005     | 0.0005    | 0.0005    | 0.0005    | 0.0005    |          | 0.0005    | 0.0005    | 0.0013    | 0.0005   | 0.0005   | 0.0005    | 0.0005     | 0.0005    | 0.0005   |
| Chromium, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.0005     |           |          |
| Chromium, total recoverable         |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Chromium, Trivalent Dissolved       |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Conductivity @25C                   | 216        | 228       | 230       | 217       | 321       | 294      | 264       | 290       | 310       | 289      | 343      | 276       | 310        | 400       | 532      |
| Copper, dissolved                   | 0.0029     | 0.0005    | 0.0005    | 0.0009    | 0.0055    |          | 0.0019    | 0.0007    | 0.0006    | 0.0005   | 0.0005   | 0.0005    | 0.001      | 0.0023    | 0.0005   |
| Copper, potentially dissolved       |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Copper, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 0.0005     |           |          |
| Cyanide, total                      | 0.003      | 0.003     | 0.003     | 0.003     | 0.003     |          | 0.008     | 0.003     | 0.003     | 0.003    | 0.004    | 0.003     | 0.003      | 0.003     | 0.003    |
| Cyanide, WAD                        | 0.003      | 0.003     | 0.003     | 0.003     | 0.003     |          | 0.004     | 0.003     | 0.003     | 0.003    | 0.003    | 0.003     | 0.003      | 0.003     | 0.003    |
| Dissolved Chromium, Hexavalent      |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Fluoride                            | 0.3        | 0.1       | 0.3       | 0.2       | 0.2       | 0.3      | 0.2       | 0.2       | 0.2       | 0.2      | 0.2      | 0.2       | 0.3        | 0.2       | 0.22     |
| Hardness as CaCO3 (dissolved)       | 93         | 96        | 98        | 92        | 127       | 131      | 112       | 126       | 131       | 123      | 136      | 118       | 121        | 175       | 235      |
| Hydroxide as CaCO3                  | 2          | 2         | 2         | 2         | 2         |          | 2         | 2         | 2         | 2        | 2        | 2         | 2          | 2         | 2        |
| Iron, dissolved                     | 0.02       | 0.02      | 0.02      | 0.44      | 0.02      |          | 0.2       | 0.06      | 0.03      | 0.02     | 0.02     | 0.02      | 0.02       | 0.02      | 0.02     |
| Iron, total                         | 0.4        | 0.05      | 0.07      | 0.55      | 5.49      | 0.27     | 2.76      | 1.39      | 0.18      | 1.28     | 16.3     | 2.42      | 0.06       | 0.06      | 19.3     |
| Iron, total recoverable             |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Lead, dissolved                     | 0.0004     | 0.0001    | 0.0001    | 0.0012    | 0.0003    |          | 0.0049    | 0.0084    | 0.0018    | 0.0087   | 0.0372   | 0.0248    | 0.0022     | 0.0007    | 0.0032   |
| Lead, potentially dissolved         |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Lead, total                         |            |           |           |           |           |          |           |           |           |          |          |           | 0.0083     |           |          |
| Magnesium, dissolved                | 1.5        | 1.7       | 1.9       | 1.7       | 2.2       | 2.3      | 2.1       | 2.6       | 2.6       | 2.3      | 2.4      | 2.2       | 1.5        | 2.1       | 2.9      |
| Magnesium, total                    |            |           |           |           |           |          |           |           |           |          |          |           | 1.8        |           |          |
| Manganese, dissolved                | 0.051      | 0.032     | 0.101     | 0.054     | 0.44      | 0.033    | 0.651     | 0.035     | 1.06      | 0.035    | 0.203    | 0.02      | 0.025      | 0.014     | 0.374    |
| Manganese, potentially dissolved    |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Manganese, total                    |            |           |           |           |           |          |           |           |           |          |          |           | 0.039      |           |          |
| Mercury, dissolved                  | 0.0002     | 0.0002    | 0.0002    | 0.0002    | 0.0002    |          | 0.0002    | 0.0002    | 0.0002    | 0.0002   | 0.0002   | 0.0002    | 0.0002     | 0.0002    | 0.0002   |
| Mercury, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 0.0002     |           |          |
| Molybdenum, dissolved               | 0.0049     | 0.0044    | 0.0047    | 0.0045    | 0.0061    | 0.0045   | 0.0056    | 0.005     | 0.0042    | 0.005    | 0.0085   | 0.0057    | 0.0049     | 0.0047    | 0.0052   |
| Molybdenum, total                   |            |           |           |           |           |          |           |           |           |          |          |           | 0.0055     |           |          |
| Nickel, dissolved                   | 0.01       | 0.01      | 0.01      | 0.01      | 0.01      |          | 0.01      | 0.01      | 0.01      | 0.01     | 0.01     | 0.01      | 0.01       | 0.008     | 0.008    |
| Nickel, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 0.01       |           |          |
| Nitrate/Nitrite as N                | 0.05       | 0.04      | 0.43      | 0.47      | 0.79      | 0.2      | 2.77      | 1.43      | 1.56      | 1.34     | 6.08     | 1.56      | 1.41       | 1.04      | 7.45     |
| Oil and Grease                      |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| pH                                  | 8.2        | 8         | 8         | 8.2       | 8.2       | 8.2      | 8.1       | 8.2       | 8.1       | 8.2      | 8.1      | 8.2       | 8.1        | 8.2       | 7.8      |
| pH measured at                      | 20         | 19        | 20        | 22        | 21        | 23       | 19        | 20        | 21        | 20       | 21       | 21        | 22         | 21        | 18       |
| Phosphorus, ortho dissolved         | 0.01       | 0.01      | 0.01      | 0.01      | 0.02      | 0.01     | 0.02      | 0.01      | 0.01      | 0.03     | 0.01     | 0.01      | 0.01       | 0.01      | 0.02     |
| Phosphorus, total                   |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Potassium, dissolved                | 0.3        | 0.4       | 0.6       | 0.5       | 0.9       | 0.6      | 0.8       | 0.6       | 0.5       | 0.8      | 1        | 0.5       | 0.5        | 0.4       | 0.6      |
| Potassium, total                    |            |           |           |           |           |          |           |           |           |          |          |           | 0.5        |           |          |
| Residue, Filterable (TDS) @180C     | 120        | 130       | 140       | 140       | 200       | 190      | 160       | 180       | 200       | 172      | 220      | 174       | 210        | 260       | 370      |
| Residue, Non-Filterable (TSS) @105C | 5          | 5         | 5         | 7         | 182       |          | 123       | 22        | 5         | 21       | 940      | 185       | 5          | 5         | 396      |
| Selenium, dissolved                 | 0.0005     | 0.0005    | 0.0005    | 0.0007    | 0.0004    | 0.0006   | 0.0006    | 0.0006    | 0.0005    | 0.0006   | 0.0012   | 0.0005    | 0.0006     | 0.0008    | 0.0006   |
| Selenium, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.0006     |           |          |
| Silica, dissolved                   | 8.6        | 8.7       | 8.3       | 8.4       | 8.4       | 8.2      | 6.8       | 6.3       | 6.4       | 6.2      | 6.4      | 6.7       | 8.5        | 8.3       | 8        |
| Silica, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 8.7        |           |          |
| Silver, dissolved                   | 0.00005    | 0.00005   | 0.00005   | 0.00005   | 0.00017   |          | 0.00007   | 0.00005   | 0.00013   | 0.00005  | 0.00005  | 0.00005   | 0.00005    | 0.00005   | 0.00005  |
| Silver, potentially dissolved       |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Silver, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 0.00011    |           |          |
| Sodium, dissolved                   | 5.7        | 5.9       | 5.6       | 5.3       | 6.5       | 6        | 4.7       | 5.3       | 6.7       | 5.9      | 6.7      | 5         | 5.9        | 6.5       | 7.2      |
| Sodium, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 6.4        |           |          |
| Sulfate                             | 42         | 53        | 43        | 49        | 86        | 79       | 69        | 75.6      | 82.1      | 75.9     | 78.3     | 62        | 80.3       | 129       | 181      |
| Sum of Anions                       | 2.1        | 2.5       | 2.2       | 2.2       | 3         | 2.9      | 2.5       | 2.71      | 2.83      | 2.69     | 2.8      | 2.4       | 2.9        | 3.9       | 4.7      |
| Sum of Cations                      | 2.1        | 2.2       | 2.2       | 2.1       | 2.9       | 2.9      | 2.5       | 2.77      | 3.01      | 2.74     | 3.06     | 2.6       | 2.7        | 3.8       | 5.1      |
| TDS (calculated)                    | 128        | 147       | 134       | 134       | 188       | 182      | 158       | 170       | 181       | 170      | 180      | 153       | 178        | 249       | 317      |
| TDS (ratio - measured/calculated)   | 0.94       | 0.88      | 1.04      | 1.04      | 1.06      | 1.04     | 1.01      | 1.06      | 1.1       | 1.01     | 1.22     | 1.14      | 1.18       | 1.04      | 1.17     |
| Thallium, dissolved                 | 0.0001     | 0.0001    | 0.0001    | 0.0001    | 0.0001    |          | 0.0001    | 0.0001    | 0.0001    | 0.0001   | 0.0001   | 0.0001    | 0.0001     | 0.0001    | 0.0001   |
| Thallium, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.0001     |           |          |
| Total Alkalinity                    | 59         | 69        | 63        | 58        | 60        | 61       | 54        | 54        | 52        | 53       | 56       | 55        | 59         | 60        | 46       |
| Uranium, dissolved                  | 0.0001     | 0.0001    | 0.0002    | 0.0002    | 0.0002    | 0.0002   | 0.0002    | 0.0003    | 0.0003    | 0.0003   | 0.0003   | 0.0003    | 0.0002     | 0.0002    | 0.0001   |
| Uranium, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 0.0002     |           |          |
| Vanadium, dissolved                 | 0.005      | 0.005     | 0.005     | 0.005     | 0.005     | 0.005    | 0.005     | 0.005     | 0.005     | 0.005    | 0.005    | 0.005     | 0.005      | 0.005     | 0.005    |
| Vanadium, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.005      |           |          |
| Zinc, dissolved                     | 0.01       | 0.01      | 0.01      | 0.01      | 0.02      |          | 0.12      | 0.01      | 0.3       | 0.03     | 0.02     | 0.01      | 0.01       | 0.01      | 0.01     |
| Zinc, potentially dissolved         |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Zinc, total                         |            |           |           |           |           |          |           |           |           |          |          |           | 0.01       |           |          |

### Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.

## Underground Data

| Analyte                             | UG-1 (continued) |           |           |           |           |           |           |            |
|-------------------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
|                                     | 6/11/2014        | 12/4/2014 | 3/31/2015 | 6/16/2015 | 9/16/2015 | 7/26/2017 | 12/4/2018 | 12/19/2019 |
| Aluminum, dissolved                 | 0.03             | 0.03      | 1.82      | 0.03      | 0.03      | 0.08      | 0.03      | 0.05       |
| Aluminum, total                     | 6.14             | 15.2      | 47.7      | 0.95      | 0.03      |           |           |            |
| Antimony, dissolved                 | 0.0047           | 0.0031    | 0.04      | 0.0024    | 0.0018    | 0.0026    | 0.0024    | 0.0027     |
| Antimony, total                     |                  |           |           |           |           |           |           |            |
| Arsenic, dissolved                  | 0.0025           | 0.0016    | 0.091     | 0.0019    | 0.0023    | 0.003     | 0.002     | 0.0012     |
| Arsenic, total                      |                  |           |           |           |           |           |           |            |
| Arsenic, total recoverable          | 0.24             | 0.049     | 0.673     | 0.0178    | 0.0034    |           |           |            |
| Barium, dissolved                   | 0.093            | 0.043     | 0.171     | 0.037     | 0.021     | 0.073     | 0.024     | 0.026      |
| Barium, total                       |                  |           |           |           |           |           |           |            |
| Beryllium, dissolved                | 0.00005          | 0.00005   | 0.00354   | 0.00005   | 0.00005   | 0.00008   | 0.00005   | 0.00008    |
| Beryllium, total                    |                  |           |           |           |           |           |           |            |
| Bicarbonate as CaCO3                | 52               | 61.3      | 60.7      | 63.9      | 62.6      | 62.3      | 61.5      | 56.6       |
| Biochemical Oxygen Demand (5 day)   |                  |           |           |           |           |           |           |            |
| Boron, dissolved                    | 0.01             | 0.01      | 0.03      | 0.01      | 0.01      | 0.01      | 0.01      | 0.03       |
| Boron, total                        |                  |           |           |           |           |           |           |            |
| Cadmium, dissolved                  | 0.001            | 0.0004    | 0.0121    | 0.0002    | 0.003     | 0.0004    | 0.00035   | 0.00033    |
| Cadmium, potentially dissolved      |                  |           |           |           |           |           |           |            |
| Cadmium, total                      | 0.023            | 0.0068    | 0.1186    | 0.0007    | 0.0032    |           |           |            |
| Calcium, dissolved                  | 42.1             | 48.7      | 86.7      | 38.2      | 56.7      | 45.6      | 47.1      | 55.5       |
| Calcium, total                      |                  |           |           |           |           |           |           |            |
| Carbon, dissolved organic (DOC)     |                  |           |           |           |           |           |           |            |
| Carbonate as CaCO3                  | 2                | 2         | 2         | 2         | 2         | 2         | 2         | 2          |
| Cation-Anion Balance                | 7.6              | 1.8       | 23.4      | 0         | 2.8       | 0         | -1.8      | -3         |
| Chemical Oxygen Demand              |                  |           |           |           |           |           |           |            |
| Chloride                            | 0.5              | 0.9       | 0.9       | 0.5       | 0.9       | 1.1       | 0.5       | 0.5        |
| Chromium, dissolved                 | 0.0005           | 0.0005    | 0.0032    | 0.0005    | 0.0005    | 0.0005    | 0.0005    | 0.0005     |
| Chromium, total                     |                  |           |           |           |           |           |           |            |
| Chromium, total recoverable         | 0.01             |           |           |           |           |           |           |            |
| Chromium, Trivalent Dissolved       |                  | 0.005     | 0.005     | 0.005     | 0.005     |           |           |            |
| Conductivity @25C                   | 283              | 326       | 466       | 238       | 340       | 265       | 286       | 334        |
| Copper, dissolved                   | 0.0029           | 0.0005    | 0.4784    | 0.0034    | 0.0012    | 0.0084    | 0.005     | 0.0029     |
| Copper, potentially dissolved       |                  |           |           |           |           |           |           |            |
| Copper, total                       | 0.63             | 0.13      | 2.25      | 0.04      | 0.01      |           |           |            |
| Cyanide, total                      | 0.006            | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     | 0.003      |
| Cyanide, WAD                        | 0.004            | 0.003     | 0.003     | 0.003     | 0.003     |           |           |            |
| Dissolved Chromium, Hexavalent      |                  | 0.005     | 0.006     | 0.005     | 0.005     |           |           |            |
| Fluoride                            | 0.23             | 0.32      | 0.24      | 0.18      | 0.3       | 0.3       | 0.34      | 0.4        |
| Hardness as CaCO3 (dissolved)       | 113              | 129       | 234       | 103       | 155       | 122       | 125       | 146        |
| Hydroxide as CaCO3                  | 2                | 2         | 2         | 2         | 2         | 2         | 2         | 2          |
| Iron, dissolved                     | 0.02             | 0.02      | 7.95      | 0.02      | 0.05      | 0.15      | 0.02      | 0.03       |
| Iron, total                         | 21               | 6.8       | 75.1      | 1.5       | 0.15      |           |           |            |
| Iron, total recoverable             | 21.4             | 5.73      | 75.9      | 1.4       | 0.15      |           |           |            |
| Lead, dissolved                     | 0.0577           | 0.1401    | 23.8      | 0.365     | 0.0043    | 0.101     | 0.0017    | 0.0008     |
| Lead, potentially dissolved         |                  |           |           |           |           |           |           |            |
| Lead, total                         | 3.93             | 3.18      | 42.3      | 1.37      | 0.0112    |           |           |            |
| Magnesium, dissolved                | 1.9              | 1.9       | 4.2       | 1.9       | 3.2       | 1.9       | 1.7       | 1.8        |
| Magnesium, total                    |                  |           |           |           |           |           |           |            |
| Manganese, dissolved                | 0.101            | 0.111     | 9.03      | 0.065     | 3.8       | 0.177     | 0.014     | 0.07       |
| Manganese, potentially dissolved    |                  |           |           |           |           |           |           |            |
| Manganese, total                    |                  |           |           |           |           |           |           |            |
| Mercury, dissolved                  | 0.0002           | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002     |
| Mercury, total                      | 0.0005           | 0.0002    | 0.0027    | 0.0002    | 0.0002    |           |           |            |
| Molybdenum, dissolved               | 0.0052           | 0.0053    | 0.033     | 0.0045    | 0.0037    | 0.0047    | 0.0043    | 0.0044     |
| Molybdenum, total                   |                  |           |           |           |           |           |           |            |
| Nickel, dissolved                   | 0.008            | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008      |
| Nickel, total                       |                  |           |           |           |           |           |           |            |
| Nitrate/Nitrite as N                | 4.3              | 5         | 5.44      | 0.61      | 0.41      | 0.23      | 0.2       | 0.13       |
| Oil and Grease                      |                  | 2         | 16.4      |           |           |           |           |            |
| pH                                  | 8.1              | 8         | 8         | 8.3       | 8.1       | 7.7       | 8.2       | 8          |
| pH measured at                      | 21               | 19.4      | 20.9      | 20.4      | 19.2      | 21.5      | 21.6      | 21.6       |
| Phosphorus, ortho dissolved         | 0.05             | 0.06      | 0.04      | 0.02      | 0.01      | 0.02      | 0.09      | 0.01       |
| Phosphorus, total                   |                  |           |           |           |           |           |           |            |
| Potassium, dissolved                | 0.9              | 0.8       | 2.2       | 0.6       | 0.8       | 0.3       | 0.3       | 0.4        |
| Potassium, total                    |                  |           |           |           |           |           |           |            |
| Residue, Filterable (TDS) @180C     | 130              | 204       | 280       | 146       | 222       | 188       | 188       | 238        |
| Residue, Non-Filterable (TSS) @105C | 670              | 362       | 1840      | 16        | 7         | 9         | 5         | 5          |
| Selenium, dissolved                 | 0.0008           | 0.001     | 0.0017    | 0.0008    | 0.0004    | 0.0006    | 0.0008    | 0.0006     |
| Selenium, total                     |                  |           |           |           |           |           |           |            |
| Silica, dissolved                   | 7.6              | 8.2       | 14        | 7.2       | 8.2       | 8.5       | 8.7       | 8.5        |
| Silica, total                       |                  |           |           |           |           |           |           |            |
| Silver, dissolved                   | 0.0002           | 0.00005   | 0.00269   | 0.00005   | 0.00005   | 0.00037   | 0.0001    | 0.0001     |
| Silver, potentially dissolved       |                  |           |           |           |           |           |           |            |
| Silver, total                       |                  |           |           |           |           |           |           |            |
| Sodium, dissolved                   | 5.6              | 7.1       | 9.2       | 4.3       | 6.6       | 5.6       | 6.3       | 6.3        |
| Sodium, total                       |                  |           |           |           |           |           |           |            |
| Sulfate                             | 53.6             | 75        | 134       | 48.4      | 105       | 66.5      | 78.1      | 108        |
| Sum of Anions                       | 2.18             | 2.8       | 4.1       | 2.3       | 3.5       | 2.7       | 2.9       | 3.4        |
| Sum of Cations                      | 2.54             | 2.9       | 6.6       | 2.3       | 3.7       | 2.7       | 2.8       | 3.2        |
| TDS (calculated)                    | 146              | 183       | 318       | 142       | 227       | 171       | 183       | 218        |
| TDS (ratio - measured/calculated)   | 0.89             | 1.11      | 0.88      | 1.03      | 0.98      | 1.1       | 1.03      | 1.09       |
| Thallium, dissolved                 | 0.0001           | 0.0001    | 0.0007    | 0.0001    | 0.0001    | 0.0001    | 0.0001    | 0.0001     |
| Thallium, total                     |                  |           |           |           |           |           |           |            |
| Total Alkalinity                    | 52               | 61.3      | 60.7      | 63.9      | 62.6      | 62.3      | 61.5      | 56.6       |
| Uranium, dissolved                  | 0.0002           | 0.0002    | 0.0012    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002     |
| Uranium, total                      |                  |           |           |           |           |           |           |            |
| Vanadium, dissolved                 | 0.005            | 0.005     | 0.041     | 0.005     | 0.005     | 0.005     | 0.005     | 0.005      |
| Vanadium, total                     |                  |           |           |           |           |           |           |            |
| Zinc, dissolved                     | 0.02             | 0.03      | 6.32      | 0.02      | 1.07      | 0.08      | 0.09      | 0.09       |
| Zinc, potentially dissolved         |                  |           |           |           |           |           |           |            |
| Zinc, total                         | 4.93             | 1.54      | 27.4      | 0.47      | 1.06      |           |           |            |

Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.

## Underground Data

| Analyte                             | UG-2       |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
|-------------------------------------|------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|----------|-----------|------------|-----------|----------|
|                                     | 11/15/2011 | 1/16/2012 | 6/24/2012 | 9/18/2012 | 12/6/2012 | 2/6/2013 | 6/20/2013 | 7/18/2013 | 7/25/2013 | 8/1/2013 | 8/8/2013 | 9/26/2013 | 12/26/2013 | 2/12/2014 | 4/2/2014 |
| Aluminum, dissolved                 | 0.03       | 0.03      | 0.03      | 0.03      | 0.03      |          | 0.14      | 0.03      | 0.03      | 0.03     | 0.03     | 0.03      | 0.03       | 0.03      | 0.03     |
| Aluminum, total                     | 0.16       | 0.08      | 0.18      | 0.13      | 0.11      | 0.04     | 2.28      | 1.68      | 0.03      | 2.88     | 30.3     | 0.95      | 0.04       | 0.06      | 0.12     |
| Antimony, dissolved                 | 0.0017     | 0.0011    | 0.0038    | 0.0041    | 0.0026    | 0.0025   | 0.0009    | 0.0008    | 0.0055    | 0.0007   | 0.0015   | 0.0008    | 0.0019     | 0.001     | 0.0007   |
| Antimony, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.0022     |           |          |
| Arsenic, dissolved                  | 0.003      | 0.0029    | 0.001     | 0.0027    | 0.002     | 0.0025   | 0.0017    | 0.0022    | 0.0023    | 0.0021   | 0.0022   | 0.0017    | 0.0047     | 0.0026    | 0.002    |
| Arsenic, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 0.0056     |           |          |
| Arsenic, total recoverable          |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Barium, dissolved                   | 0.022      | 0.022     | 0.024     | 0.027     | 0.029     | 0.03     | 0.047     | 0.042     | 0.031     | 0.034    | 0.063    | 0.036     | 0.029      | 0.026     | 0.025    |
| Barium, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 0.038      |           |          |
| Beryllium, dissolved                | 0.0001     | 0.0001    | 0.0001    | 0.0001    | 0.00005   |          | 0.00005   | 0.00005   | 0.00005   | 0.00005  | 0.00005  | 0.00005   | 0.00005    | 0.00005   | 0.00005  |
| Beryllium, total                    |            |           |           |           |           |          |           |           |           |          |          |           | 0.00009    |           |          |
| Bicarbonate as CaCO3                | 50         | 57        | 49        | 68        | 51        | 52       | 62        | 59        | 52        | 60       | 62       | 62        | 58         | 55        | 44       |
| Biochemical Oxygen Demand (5 day)   |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Boron, dissolved                    | 0.02       | 0.01      | 0.02      | 0.01      | 0.01      | 0.03     | 0.01      | 0.01      | 0.01      | 0.01     | 0.01     | 0.01      | 0.01       | 0.02      | 0.03     |
| Boron, total                        |            |           |           |           |           |          |           |           |           |          |          |           | 0.03       |           |          |
| Cadmium, dissolved                  | 0.0007     | 0.0005    | 0.0009    | 0.0009    | 0.0018    | 0.0014   | 0.001     | 0.001     | 0.0013    | 0.001    | 0.001    | 0.001     | 0.001      | 0.0017    | 0.0017   |
| Cadmium, potentially dissolved      |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Cadmium, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 0.001      |           |          |
| Calcium, dissolved                  | 57.2       | 63.1      | 43.6      | 48.7      | 63.2      | 65.7     | 52.3      | 54.1      | 45.2      | 50.3     | 58.2     | 44.5      | 44.8       | 54.5      | 54.6     |
| Calcium, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 53.7       |           |          |
| Carbon, dissolved organic (DOC)     |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Carbonate as CaCO3                  | 2          | 2         | 2         | 2         | 2         |          | 2         | 2         | 2         | 2        | 2        | 2         | 2          | 2         | 2        |
| Cation-Anion Balance                | 0          | -9.3      | 0         | -6.3      | -1.3      | 1.2      | 6.7       | 10.9      | 0.7       | 6.6      | 11.7     | 8         | -8.5       | -2.9      | 0        |
| Chemical Oxygen Demand              |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Chloride                            | 1          | 1         | 1         | 1         | 1         |          | 1         | 1         | 1         | 1        | 1        | 1         | 1          | 1         | 1        |
| Chromium, dissolved                 | 0.0005     | 0.0005    | 0.0005    | 0.0005    | 0.0005    |          | 0.0007    | 0.0005    | 0.0005    | 0.0005   | 0.0005   | 0.0005    | 0.0005     | 0.0005    | 0.0005   |
| Chromium, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.0005     |           |          |
| Chromium, total recoverable         |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Chromium, Trivalent Dissolved       |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Conductivity @25C                   | 344        | 390       | 271       | 305       | 416       | 406      | 370       | 361       | 289       | 327      | 441      | 308       | 323        | 366       | 358      |
| Copper, dissolved                   | 0.0043     | 0.0005    | 0.0005    | 0.0005    | 0.0008    |          | 0.0034    | 0.001     | 0.0005    | 0.0008   | 0.0006   | 0.0015    | 0.0005     | 0.0008    | 0.0005   |
| Copper, potentially dissolved       |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Copper, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 0.0008     |           |          |
| Cyanide, total                      | 0.003      | 0.003     | 0.003     | 0.003     | 0.003     |          | 0.028     | 0.014     | 0.004     | 0.004    | 0.007    | 0.01      | 0.003      | 0.003     | 0.003    |
| Cyanide, WAD                        | 0.003      | 0.003     | 0.003     | 0.003     | 0.003     |          | 0.012     | 0.004     | 0.003     | 0.004    | 0.003    | 0.007     | 0.003      | 0.003     | 0.003    |
| Dissolved Chromium, Hexavalent      |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Fluoride                            | 0.2        | 0.1       | 0.2       | 0.2       | 0.2       | 0.3      | 0.3       | 0.3       | 0.2       | 0.3      | 0.3      | 0.2       | 0.2        | 0.2       | 0.29     |
| Hardness as CaCO3 (dissolved)       | 153        | 168       | 119       | 132       | 169       | 176      | 140       | 144       | 124       | 133      | 153      | 119       | 120        | 147       | 147      |
| Hydroxide as CaCO3                  | 2          | 2         | 2         | 2         | 2         |          | 2         | 2         | 2         | 2        | 2        | 2         | 2          | 2         | 2        |
| Iron, dissolved                     | 0.02       | 0.02      | 0.03      | 0.02      | 0.02      |          | 0.13      | 0.06      | 0.02      | 0.03     | 0.02     | 0.02      | 0.02       | 0.02      | 0.02     |
| Iron, total                         | 0.7        | 0.39      | 0.63      | 0.47      | 0.24      | 0.09     | 4         | 2.34      | 0.13      | 2.38     | 30       | 2.21      | 0.15       | 0.15      | 0.55     |
| Iron, total recoverable             |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Lead, dissolved                     | 0.0003     | 0.0001    | 0.0008    | 0.0011    | 0.0026    | 0.0011   | 0.0032    | 0.0087    | 0.0008    | 0.0042   | 0.0169   | 0.0233    | 0.0006     | 0.0006    | 0.0007   |
| Lead, potentially dissolved         |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Lead, total                         |            |           |           |           |           |          |           |           |           |          |          |           | 0.0072     |           |          |
| Magnesium, dissolved                | 2.4        | 2.6       | 2.5       | 2.6       | 2.7       | 2.8      | 2.3       | 2.2       | 2.7       | 1.7      | 1.9      | 1.8       | 1.9        | 2.5       | 2.6      |
| Magnesium, total                    |            |           |           |           |           |          |           |           |           |          |          |           | 2.3        |           |          |
| Manganese, dissolved                | 1.17       | 1.5       | 1.3       | 0.923     | 2.08      | 2.38     | 0.168     | 0.126     | 1.37      | 0.124    | 0.213    | 0.077     | 0.005      | 1.75      | 1.65     |
| Manganese, potentially dissolved    |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Manganese, total                    |            |           |           |           |           |          |           |           |           |          |          |           | 0.094      |           |          |
| Mercury, dissolved                  | 0.0002     | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002   | 0.0002    | 0.0002    | 0.0002    | 0.0002   | 0.0002   | 0.0002    | 0.0002     | 0.0002    | 0.0002   |
| Mercury, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 0.0002     |           |          |
| Molybdenum, dissolved               | 0.0024     | 0.0025    | 0.0035    | 0.0033    | 0.0023    | 0.0037   | 0.0041    | 0.0051    | 0.0031    | 0.0052   | 0.0103   | 0.0044    | 0.0038     | 0.0021    | 0.002    |
| Molybdenum, total                   |            |           |           |           |           |          |           |           |           |          |          |           | 0.0042     |           |          |
| Nickel, dissolved                   | 0.01       | 0.01      | 0.01      | 0.01      | 0.01      |          | 0.01      | 0.01      | 0.01      | 0.01     | 0.01     | 0.01      | 0.01       | 0.008     | 0.008    |
| Nickel, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 0.01       |           |          |
| Nitrate/Nitrite as N                | 0.13       | 0.09      | 0.19      | 0.2       | 0.15      | 0.14     | 13.6      | 9.8       | 0.26      | 6.35     | 17.5     | 6.52      | 0.17       | 0.2       | 0.2      |
| Oil and Grease                      |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| pH                                  | 8.1        | 8         | 7.9       | 8.1       | 8.1       | 8.1      | 8.1       | 8.1       | 8.1       | 8.1      | 8        | 8.2       | 8.1        | 8.1       | 7.9      |
| pH measured at                      | 20         | 20        | 20        | 22        | 21        | 23       | 19        | 21        | 22        | 21       | 21       | 21        | 22         | 21        | 22       |
| Phosphorus, ortho dissolved         | 0.03       | 0.01      | 0.01      | 0.02      | 0.01      | 0.01     | 0.02      | 0.01      | 0.01      | 0.03     | 0.02     | 0.01      | 0.01       | 0.01      | 0.01     |
| Phosphorus, total                   |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Potassium, dissolved                | 0.3        | 0.5       | 0.6       | 0.6       | 0.5       | 0.6      | 1.5       | 1.2       | 0.5       | 0.8      | 1.4      | 0.9       | 0.5        | 0.5       | 0.4      |
| Potassium, total                    |            |           |           |           |           |          |           |           |           |          |          |           | 0.6        |           |          |
| Residue, Filterable (TDS) @180C     | 220        | 260       | 170       | 210       | 220       | 280      | 240       | 230       | 186       | 212      | 306      | 192       | 210        | 230       | 260      |
| Residue, Non-Filterable (TSS) @105C | 5          | 5         | 6         | 5         | 5         |          | 55        | 45        | 5         | 38       | 1300     | 69        | 5          | 11        | 5        |
| Selenium, dissolved                 | 0.0004     | 0.0003    | 0.0004    | 0.0005    | 0.0002    | 0.0004   | 0.001     | 0.0009    | 0.0004    | 0.0007   | 0.0009   | 0.0006    | 0.0004     | 0.0004    | 0.0003   |
| Selenium, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.0004     |           |          |
| Silica, dissolved                   | 7.3        | 7.9       | 6.1       | 6.5       | 7.7       | 7.9      | 8.4       | 8.3       | 5.9       | 8.2      | 8.2      | 7.7       | 7.1        | 7         | 7.3      |
| Silica, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 7.3        |           |          |
| Silver, dissolved                   | 0.00005    | 0.00005   | 0.00005   | 0.00005   | 0.00005   |          | 0.00005   | 0.00005   | 0.00005   | 0.00005  | 0.00005  | 0.00005   | 0.00005    | 0.00005   | 0.00005  |
| Silver, potentially dissolved       |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Silver, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 0.00018    |           |          |
| Sodium, dissolved                   | 6.7        | 8.6       | 4.7       | 5.7       | 8.1       | 8.9      | 6.9       | 7.5       | 5         | 7.2      | 7.5      | 6         | 6.2        | 8.1       | 8.6      |
| Sodium, total                       |            |           |           |           |           |          |           |           |           |          |          |           | 7.3        |           |          |
| Sulfate                             | 116        | 167       | 79        | 97        | 140       | 138      | 73        | 67.6      | 82.7      | 67.4     | 70.4     | 49.2      | 94.2       | 116       | 122      |
| Sum of Anions                       | 3.5        | 4.7       | 2.7       | 3.4       | 4         | 4        | 2.8       | 2.62      | 2.79      | 2.63     | 2.73     | 2.3       | 3.2        | 3.6       | 3.5      |
| Sum of Cations                      | 3.5        | 3.9       | 2.7       | 3         | 3.9       | 4.1      | 3.2       | 3.26      | 2.83      | 3        | 3.45     | 2.7       | 2.7        | 3.4       | 3.5      |
| TDS (calculated)                    | 222        | 286       | 168       | 204       | 256       | 258      | 182       | 177       | 175       | 172      | 185      | 148       | 190        | 224       | 224      |
| TDS (ratio - measured/calculated)   | 0.99       | 0.91      | 1.01      | 1.03      | 0.86      | 1.09     | 1.32      | 1.3       | 1.06      | 1.23     | 1.65     | 1.3       | 1.11       | 1.03      | 1.16     |
| Thallium, dissolved                 | 0.0001     | 0.0001    | 0.0001    | 0.0001    | 0.0001    |          | 0.0001    | 0.0001    | 0.0001    | 0.0001   | 0.0001   | 0.0001    | 0.0001     | 0.0001    | 0.0001   |
| Thallium, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.0001     |           |          |
| Total Alkalinity                    | 50         | 57        | 49        | 68        | 51        | 52       | 62        | 59        | 52        | 60       | 62       | 62        | 58         | 55        | 44       |
| Uranium, dissolved                  | 0.0003     | 0.0003    | 0.0002    | 0.0002    | 0.0004    | 0.0004   | 0.0002    | 0.0002    | 0.0002    | 0.0002   | 0.0002   | 0.0001    | 0.0004     | 0.0003    | 0.0002   |
| Uranium, total                      |            |           |           |           |           |          |           |           |           |          |          |           | 0.0006     |           |          |
| Vanadium, dissolved                 | 0.005      | 0.005     | 0.005     | 0.005     | 0.005     | 0.009    | 0.005     | 0.005     | 0.005     | 0.005    | 0.005    | 0.005     | 0.005      | 0.005     | 0.005    |
| Vanadium, total                     |            |           |           |           |           |          |           |           |           |          |          |           | 0.005      |           |          |
| Zinc, dissolved                     | 0.37       | 0.41      | 0.31      | 0.29      | 0.54      | 0.54     | 0.01      | 0.01      | 0.39      | 0.01     | 0.01     | 0.01      | 0.01       | 0.54      | 0.57     |
| Zinc, potentially dissolved         |            |           |           |           |           |          |           |           |           |          |          |           |            |           |          |
| Zinc, total                         |            |           |           |           |           |          |           |           |           |          |          |           | 0.03       |           |          |

Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.

## Underground Data

| Analyte                                   | UG-2 (continued) |           |           |           |           |           |            |
|-------------------------------------------|------------------|-----------|-----------|-----------|-----------|-----------|------------|
|                                           | 6/11/2014        | 12/4/2014 | 3/31/2015 | 6/16/2015 | 9/16/2015 | 6/10/2020 | 12/17/2020 |
| Aluminum, dissolved                       | 0.03             | 0.03      | 0.06      | 0.03      | 0.03      | 0.05      | 0.05       |
| Aluminum, total                           | 0.2              | 7.78      | 0.23      | 4.25      | 0.03      |           |            |
| Antimony, dissolved                       | 0.0021           | 0.0008    | 0.001     | 0.0042    | 0.0015    | 0.0007    | 0.00126    |
| Antimony, total                           |                  |           |           |           |           |           |            |
| Arsenic, dissolved                        | 0.0028           | 0.0024    | 0.0031    | 0.0015    | 0.0044    | 0.0022    | 0.00259    |
| Arsenic, total                            |                  |           |           |           |           |           |            |
| Arsenic, total recoverable                | 0.04             | 0.0142    | 0.0035    | 0.0206    | 0.0051    |           |            |
| Barium, dissolved                         | 0.026            | 0.033     | 0.034     | 0.029     | 0.029     | 0.027     | 0.0294     |
| Barium, total                             |                  |           |           |           |           |           |            |
| Beryllium, dissolved                      | 0.00005          | 0.00005   | 0.00005   | 0.00005   | 0.00005   | 0.00008   | 0.00008    |
| Beryllium, total                          |                  |           |           |           |           |           |            |
| Bicarbonate as CaCO <sub>3</sub>          | 39               | 66.5      | 56        | 49.6      | 54.3      | 52.9      | 50.4       |
| Biochemical Oxygen Demand (5 day)         |                  |           |           |           |           |           |            |
| Boron, dissolved                          | 0.01             | 0.01      | 0.02      | 0.01      | 0.01      | 0.02      | 0.021      |
| Boron, total                              |                  |           |           |           |           |           |            |
| Cadmium, dissolved                        | 0.001            | 0.0023    | 0.0031    | 0.0001    | 0.0001    | 0.00023   | 0.00103    |
| Cadmium, potentially dissolved            |                  |           |           |           |           |           |            |
| Cadmium, total                            | 0.005            | 0.0031    | 0.0033    | 0.0031    | 0.0001    |           |            |
| Calcium, dissolved                        | 32.1             | 58.9      | 57.7      | 33.3      | 49.7      | 32.4      | 62.5       |
| Calcium, total                            |                  |           |           |           |           |           |            |
| Carbon, dissolved organic (DOC)           |                  |           |           |           |           |           |            |
| Carbonate as CaCO <sub>3</sub>            | 2                | 2         | 2         | 2         | 2         | 2         | 2          |
| Cation-Anion Balance                      | 5.2              | -3.9      | 1.3       | 2.6       | 0         | -2.6      | 1.3        |
| Chemical Oxygen Demand                    |                  |           |           |           |           |           |            |
| Chloride                                  | 0.5              | 0.5       | 0.5       | 0.5       | 0.9       | 0.5       | 0.74       |
| Chromium, dissolved                       | 0.0005           | 0.0005    | 0.0005    | 0.0005    | 0.0005    | 0.0005    | 0.0005     |
| Chromium, total                           |                  |           |           |           |           |           |            |
| Chromium, total recoverable               | 0.01             |           |           |           |           |           |            |
| Chromium, Trivalent Dissolved             |                  | 0.005     | 0.005     | 0.005     | 0.005     |           |            |
| Conductivity @25C                         | 203              | 366       | 376       | 209       | 288       | 201       | 392        |
| Copper, dissolved                         | 0.0005           | 0.0008    | 0.0012    | 0.001     | 0.0005    | 0.0008    | 0.0008     |
| Copper, potentially dissolved             |                  |           |           |           |           |           |            |
| Copper, total                             | 0.01             | 0.01      | 0.01      | 0.02      | 0.01      |           |            |
| Cyanide, total                            | 0.003            | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     |            |
| Cyanide, WAD                              | 0.003            | 0.003     | 0.003     | 0.003     | 0.003     |           |            |
| Dissolved Chromium, Hexavalent            |                  | 0.005     | 0.006     | 0.005     | 0.005     |           |            |
| Fluoride                                  | 0.13             | 0.25      | 0.24      | 0.1       | 0.18      | 0.1       | 0.29       |
| Hardness as CaCO <sub>3</sub> (dissolved) | 87               | 158       | 156       | 91        | 133       | 86        | 166        |
| Hydroxide as CaCO <sub>3</sub>            | 2                | 2         | 2         | 2         | 2         | 2         | 2          |
| Iron, dissolved                           | 0.02             | 0.02      | 0.09      | 0.11      | 0.02      | 0.06      | 0.06       |
| Iron, total                               | 0.38             | 5.49      | 0.21      | 8.71      | 0.11      |           |            |
| Iron, total recoverable                   | 0.38             | 5.17      | 0.19      | 8.44      | 0.12      |           |            |
| Lead, dissolved                           | 0.0009           | 0.002     | 0.0124    | 0.0039    | 0.0018    | 0.001     | 0.00024    |
| Lead, potentially dissolved               |                  |           |           |           |           |           |            |
| Lead, total                               | 0.03             | 0.0843    | 0.0141    | 0.3425    | 0.0061    |           |            |
| Magnesium, dissolved                      | 1.6              | 2.7       | 2.8       | 1.9       | 2.2       | 1.3       | 2.36       |
| Magnesium, total                          |                  |           |           |           |           |           |            |
| Manganese, dissolved                      | 0.312            | 3.11      | 3.47      | 0.024     | 0.037     | 0.25      | 1.41       |
| Manganese, potentially dissolved          |                  |           |           |           |           |           |            |
| Manganese, total                          |                  |           |           |           |           |           |            |
| Mercury, dissolved                        | 0.0002           | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002     |
| Mercury, total                            | 0.0002           | 0.0002    | 0.0002    | 0.0002    | 0.0002    |           |            |
| Molybdenum, dissolved                     | 0.0022           | 0.0027    | 0.003     | 0.0041    | 0.0026    | 0.0025    | 0.00302    |
| Molybdenum, total                         |                  |           |           |           |           |           |            |
| Nickel, dissolved                         | 0.008            | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008      |
| Nickel, total                             |                  |           |           |           |           |           |            |
| Nitrate/Nitrite as N                      | 0.37             | 0.18      | 0.3       | 0.57      | 0.23      | 0.18      | 0.64       |
| Oil and Grease                            |                  |           | 2         | 2         |           |           |            |
| pH                                        | 8.1              | 7.9       | 7.9       | 8.2       | 8.1       | 8.1       | 8          |
| pH measured at                            | 21               | 19.4      | 21.5      | 20.2      | 19.8      | 20.1      | 21.1       |
| Phosphorus, ortho dissolved               | 0.02             | 0.05      | 0.01      | 0.04      | 0.01      |           |            |
| Phosphorus, total                         |                  |           |           |           |           | 0.01      | 0.01       |
| Potassium, dissolved                      | 0.4              | 0.6       | 0.7       | 0.6       | 0.6       | 0.3       | 0.43       |
| Potassium, total                          |                  |           |           |           |           |           |            |
| Residue, Filterable (TDS) @180C           | 100              | 236       | 234       | 130       | 182       | 128       | 256        |
| Residue, Non-Filterable (TSS) @105C       | 8                | 97        | 5         | 81        | 5         | 5         | 5          |
| Selenium, dissolved                       | 0.0003           | 0.0003    | 0.0003    | 0.0003    | 0.0003    | 0.0003    | 0.00036    |
| Selenium, total                           |                  |           |           |           |           |           |            |
| Silica, dissolved                         | 5.6              | 7.4       | 7.5       | 5.4       | 6.6       | 6.2       | 7.7        |
| Silica, total                             |                  |           |           |           |           |           |            |
| Silver, dissolved                         | 0.00005          | 0.00005   | 0.0001    | 0.00005   | 0.00005   | 0.0001    | 0.0001     |
| Silver, potentially dissolved             |                  |           |           |           |           |           |            |
| Silver, total                             |                  |           |           |           |           |           |            |
| Sodium, dissolved                         | 3.4              | 6.9       | 8.3       | 3.4       | 5.6       | 3.6       | 7.98       |
| Sodium, total                             |                  |           |           |           |           |           |            |
| Sulfate                                   | 44.8             | 125       | 121       | 44.7      | 84.8      | 42.3      | 126        |
| Sum of Anions                             | 1.73             | 4         | 3.7       | 1.9       | 2.9       | 2         | 3.7        |
| Sum of Cations                            | 1.92             | 3.7       | 3.8       | 2         | 2.9       | 1.9       | 3.8        |
| TDS (calculated)                          | 114              | 248       | 239       | 121       | 186       | 120       | 243        |
| TDS (ratio - measured/calculated)         | 0.88             | 0.95      | 0.98      | 1.07      | 0.98      | 1.07      | 1.05       |
| Thallium, dissolved                       | 0.0001           | 0.0001    | 0.0001    | 0.0001    | 0.0001    | 0.0001    | 0.0001     |
| Thallium, total                           |                  |           |           |           |           |           |            |
| Total Alkalinity                          | 39               | 66.5      | 56        | 49.6      | 54.3      | 52.9      | 50.4       |
| Uranium, dissolved                        | 0.0002           | 0.0003    | 0.0003    | 0.0002    | 0.0003    | 0.0002    | 0.00023    |
| Uranium, total                            |                  |           |           |           |           |           |            |
| Vanadium, dissolved                       | 0.005            | 0.005     | 0.005     | 0.005     | 0.005     | 0.01      | 0.01       |
| Vanadium, total                           |                  |           |           |           |           |           |            |
| Zinc, dissolved                           | 0.1              | 0.47      | 0.83      | 0.01      | 0.04      | 0.09      | 0.404      |
| Zinc, potentially dissolved               |                  |           |           |           |           |           |            |
| Zinc, total                               | 0.16             | 0.9       | 0.85      | 0.89      | 0.05      |           |            |

Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.

## Underground Data

| Analyte                             | UG-3      |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
|-------------------------------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|----------|-----------|------------|-----------|----------|-----------|
|                                     | 1/16/2012 | 6/24/2012 | 9/18/2012 | 12/6/2012 | 2/6/2013 | 6/20/2013 | 7/18/2013 | 7/25/2013 | 8/1/2013 | 8/8/2013 | 9/26/2013 | 12/26/2013 | 2/12/2014 | 4/2/2014 | 6/11/2014 |
| Aluminum, dissolved                 | 0.03      | 0.03      | 0.03      | 0.03      |          | 0.03      | 0.03      | 0.08      | 0.03     | 0.03     | 0.03      | 0.03       | 0.03      | 0.03     | 0.03      |
| Aluminum, total                     | 0.56      | 0.72      | 0.42      | 0.74      |          | 0.07      | 0.03      | 1.42      | 0.04     | 0.06     | 0.07      | 0.12       | 0.04      | 0.05     | 0.1       |
| Antimony, dissolved                 | 0.0004    | 0.0004    | 0.0004    | 0.0004    |          | 0.0044    | 0.0134    | 0.0006    | 0.0124   | 0.013    | 0.0076    | 0.0004     | 0.0004    | 0.0004   | 0.0004    |
| Antimony, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.0009     |           |          |           |
| Arsenic, dissolved                  | 0.0064    | 0.008     | 0.0084    | 0.0008    | 0.0072   | 0.0048    | 0.0068    | 0.0038    | 0.007    | 0.0072   | 0.0066    | 0.0056     | 0.0002    | 0.0026   | 0.0062    |
| Arsenic, total                      |           |           |           |           |          |           |           |           |          |          |           | 0.0296     |           |          |           |
| Arsenic, total recoverable          |           |           |           |           |          |           |           |           |          |          |           |            |           |          | 0.04      |
| Barium, dissolved                   | 0.04      | 0.018     | 0.188     | 0.04      | 0.06     | 0.017     | 0.052     | 0.082     | 0.052    | 0.052    | 0.056     | 0.054      | 0.044     | 0.064    | 0.048     |
| Barium, total                       |           |           |           |           |          |           |           |           |          |          |           | 0.078      |           |          |           |
| Beryllium, dissolved                | 0.0002    | 0.0002    | 0.0003    | 0.00025   |          | 0.00005   | 0.00005   | 0.00005   | 0.00005  | 0.00005  | 0.00005   | 0.00005    | 0.00013   | 0.00005  | 0.00015   |
| Beryllium, total                    |           |           |           |           |          |           |           |           |          |          |           | 0.00005    |           |          |           |
| Bicarbonate as CaCO3                | 90        | 76        | 82        | 82        | 158      | 92        | 108       | 118       | 104      | 104      | 106       | 136        | 120       | 130      | 100       |
| Biochemical Oxygen Demand (5 day)   |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Boron, dissolved                    | 0.03      | 0.04      | 0.02      | 0.02      | 0.04     | 0.01      | 0.01      | 0.01      | 0.01     | 0.01     | 0.01      | 0.02       | 0.02      | 0.02     | 0.02      |
| Boron, total                        |           |           |           |           |          |           |           |           |          |          |           | 0.03       |           |          |           |
| Cadmium, dissolved                  | 0.0366    | 0.0732    | 0.0664    | 0.076     |          | 0.001     | 0.001     | 0.001     | 0.001    | 0.001    | 0.001     | 0.001      | 0.0228    | 0.001    | 0.0338    |
| Cadmium, potentially dissolved      |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Cadmium, total                      |           |           |           |           |          |           |           |           |          |          |           | 0.0032     |           |          | 0.016     |
| Calcium, dissolved                  | 168.2     | 148.4     | 167       | 202       | 89.2     | 59.4      | 92.2      | 106       | 87       | 89.8     | 82.6      | 84.6       | 143.6     | 86.2     | 121.6     |
| Calcium, total                      |           |           |           |           |          |           |           |           |          |          |           | 93         |           |          |           |
| Carbon, dissolved organic (DOC)     |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Carbonate as CaCO3                  | 2         | 2         | 2         | 2         |          | 2         | 2         | 2         | 2        | 2        | 2         | 2          | 2         | 2        | 2         |
| Cation-Anion Balance                | 13.8      | 24.8      | 12        | 15.6      | -11.8    | -24.4     | 3         | 16        | -2       | 5.4      | 70.2      | -9.8       | 5.4       | -3.2     | 12.6      |
| Chemical Oxygen Demand              |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Chloride                            | 1         | 1         | 1         | 1         |          | 1         | 1         | 1         | 1        | 1        | 1         | 1          | 1         | 1        | 1         |
| Chromium, dissolved                 | 0.0005    | 0.0005    | 0.0005    | 0.0005    |          | 0.0005    | 0.0005    | 0.0005    | 0.0005   | 0.0005   | 0.0005    | 0.0005     | 0.0005    | 0.0005   | 0.0005    |
| Chromium, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.0005     |           |          |           |
| Chromium, total recoverable         |           |           |           |           |          |           |           |           |          |          |           |            |           |          | 0.01      |
| Chromium, Trivalent Dissolved       |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Conductivity @25C                   | 1420      | 1384      | 1362      | 1718      | 632      | 448       | 552       | 682       | 548      | 548      | 530       | 646        | 1068      | 636      | 922       |
| Copper, dissolved                   | 0.0005    | 0.001     | 0.0015    | 0.0011    |          | 0.0006    | 0.0005    | 0.002     | 0.0005   | 0.0007   | 0.0005    | 0.0005     | 0.0006    | 0.0005   | 0.0009    |
| Copper, potentially dissolved       |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Copper, total                       |           |           |           |           |          |           |           |           |          |          |           | 0.006      |           |          | 0.01      |
| Cyanide, total                      | 0.003     | 0.003     | 0.003     | 0.003     |          | 0.003     | 0.003     | 0.009     | 0.003    | 0.003    | 0.003     | 0.003      | 0.003     | 0.003    | 0.003     |
| Cyanide, WAD                        | 0.003     | 0.003     | 0.003     | 0.003     |          | 0.003     | 0.003     | 0.007     | 0.003    | 0.003    | 0.003     | 0.003      | 0.003     | 0.003    | 0.003     |
| Dissolved Chromium, Hexavalent      |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Fluoride                            | 1.2       | 1.6       | 1.4       | 1.4       | 0.6      | 0.2       | 0.2       | 0.3       | 0.4      | 0.2      | 0.1       | 0.2        | 0.3       | 0.26     | 1.14      |
| Hardness as CaCO3 (dissolved)       | 494       | 446       | 486       | 592       | 246      | 162       | 254       | 280       | 238      | 246      | 226       | 232        | 406       | 236      | 348       |
| Hydroxide as CaCO3                  | 2         | 2         | 2         | 2         |          | 2         | 2         | 2         | 2        | 2        | 2         | 2          | 2         | 2        | 2         |
| Iron, dissolved                     | 0.32      | 0.3       | 0.72      | 0.12      | 0.04     | 0.02      | 0.02      | 0.16      | 0.02     | 0.02     | 0.02      | 0.04       | 0.02      | 0.1      | 0.32      |
| Iron, total                         | 5.48      | 15.08     | 4.02      | 4.38      | 1.7      | 0.54      | 0.04      | 2.16      | 0.2      | 0.54     | 0.14      | 3.46       | 0.76      | 1.84     | 1.54      |
| Iron, total recoverable             |           |           |           |           |          |           |           |           |          |          |           |            |           |          | 1.5       |
| Lead, dissolved                     | 0.003     | 0.0004    | 0.0022    | 0.0014    |          | 0.0034    | 0.0012    | 0.0046    | 0.0016   | 0.0014   | 0.0012    | 0.0024     | 0.0001    | 0.0026   | 0.001     |
| Lead, potentially dissolved         |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Lead, total                         |           |           |           |           |          |           |           |           |          |          |           | 0.0434     |           |          | 0.03      |
| Magnesium, dissolved                | 17.8      | 18.4      | 16.6      | 21.2      | 5.6      | 3.2       | 5.8       | 3.8       | 5        | 5        | 4.6       | 5.2        | 11.2      | 5        | 10.8      |
| Magnesium, total                    |           |           |           |           |          |           |           |           |          |          |           | 5.6        |           |          |           |
| Manganese, dissolved                | 90.6      | 121       | 80.4      | 110.2     | 5.8      | 1.542     | 0.005     | 0.24      | 0.005    | 0.005    | 0.005     | 2.48       | 31        | 6.46     | 43.4      |
| Manganese, potentially dissolved    |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Manganese, total                    |           |           |           |           |          |           |           |           |          |          |           | 4.78       |           |          |           |
| Mercury, dissolved                  | 0.0002    | 0.0002    | 0.0002    | 0.0002    |          | 0.0002    | 0.0002    | 0.0002    | 0.0002   | 0.0002   | 0.0002    | 0.0002     | 0.0002    | 0.0002   | 0.0002    |
| Mercury, total                      |           |           |           |           |          |           |           |           |          |          |           | 0.0002     |           |          | 0.0002    |
| Molybdenum, dissolved               | 0.0014    | 0.0019    | 0.0016    | 0.0014    | 0.0076   | 0.0015    | 0.0074    | 0.0086    | 0.0068   | 0.0084   | 0.0066    | 0.008      | 0.0011    | 0.0086   | 0.0027    |
| Molybdenum, total                   |           |           |           |           |          |           |           |           |          |          |           | 0.012      |           |          |           |
| Nickel, dissolved                   | 0.01      | 0.01      | 0.01      | 0.01      |          | 0.01      | 0.01      | 0.01      | 0.01     | 0.01     | 0.01      | 0.01       | 0.008     | 0.008    | 0.008     |
| Nickel, total                       |           |           |           |           |          |           |           |           |          |          |           | 0.01       |           |          |           |
| Nitrate/Nitrite as N                | 0.03      | 0.07      | 0.05      | 0.06      |          | 0.44      | 0.52      | 15.24     | 0.54     | 0.6      | 0.68      | 0.02       | 0.22      | 0.02     | 0.02      |
| Oil and Grease                      |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| pH                                  | 7.6       | 7.2       | 7.6       | 7.7       | 16.2     | 8.1       | 8.1       | 8.1       | 8.1      | 8.1      | 8.2       | 8.1        | 7.9       | 7.8      | 7.7       |
| pH measured at                      | 19        | 20        | 22        | 21        | 23       | 19        | 21        | 21        | 21       | 20       | 21        | 22         | 44        | 21       | 20        |
| Phosphorus, ortho dissolved         | 0.01      | 0.01      | 0.02      | 0.01      |          | 0.01      | 0.01      | 0.02      | 0.01     | 0.01     | 0.01      | 0.01       | 0.01      | 0.01     | 0.02      |
| Phosphorus, total                   |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Potassium, dissolved                | 1.3       | 1.2       | 1.2       | 1.3       | 0.9      | 0.4       | 0.6       | 0.8       | 0.5      | 0.5      | 0.4       | 0.9        | 0.8       | 0.8      | 0.9       |
| Potassium, total                    |           |           |           |           |          |           |           |           |          |          |           | 0.9        |           |          |           |
| Residue, Filterable (TDS) @180C     | 1100      | 1100      | 1100      | 1260      | 190      | 280       | 340       | 464       | 328      | 344      | 164       | 380        | 360       | 440      | 520       |
| Residue, Non-Filterable (TSS) @105C | 15        | 44        | 7         | 6         |          | 5         | 5         | 18        | 5        | 8        | 8         | 5          | 5         | 6        | 5         |
| Selenium, dissolved                 | 0.0001    | 0.0002    | 0.0001    | 0.0001    |          | 0.0006    | 0.0008    | 0.0014    | 0.0008   | 0.001    | 0.0008    | 0.0001     | 0.0001    | 0.0001   | 0.0001    |
| Selenium, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.0001     |           |          |           |
| Silica, dissolved                   | 18.6      | 17.8      | 18        | 9.1       | 12.6     | 11.4      | 11.2      | 17        | 11.4     | 11.6     | 11.8      | 13         | 15.8      | 12.2     | 15.6      |
| Silica, total                       |           |           |           |           |          |           |           |           |          |          |           | 14         |           |          |           |
| Silver, dissolved                   | 0.00005   | 0.00005   | 0.00005   | 0.00005   |          | 0.00005   | 0.00005   | 0.00027   | 0.00006  | 0.00005  | 0.00005   | 0.00005    | 0.00005   | 0.00005  | 0.00005   |
| Silver, potentially dissolved       |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Silver, total                       |           |           |           |           |          |           |           |           |          |          |           | 0.00023    |           |          |           |
| Sodium, dissolved                   | 30.8      | 29.6      | 26.4      | 30.6      | 24.2     | 6.6       | 9.6       | 14.2      | 9.4      | 9.8      | 9         | 21.8       | 18.6      | 22.4     | 24.4      |
| Sodium, total                       |           |           |           |           |          |           |           |           |          |          |           | 23.4       |           |          |           |
| Sulfate                             | 680       | 660       | 660       | 820       | 188      | 126       | 152       | 142.2     | 151.6    | 142      | 11        | 172        | 398       | 183.2    | 386       |
| Sum of Anions                       | 16.2      | 15.6      | 15.6      | 19        | 7.2      | 4.6       | 5.38      | 5.38      | 5.3      | 5.08     | 2.4       | 6.4        | 10.8      | 6.4      | 10.22     |
| Sum of Cations                      | 18.6      | 20        | 17.6      | 22.2      | 6.4      | 3.6       | 5.54      | 6.32      | 5.2      | 5.36     | 5         | 5.8        | 11.4      | 6.2      | 11.6      |
| TDS (calculated)                    | 1084      | 1076      | 1046      | 1282      | 424      | 266       | 338       | 356       | 328      | 322      | 184       | 384        | 700       | 398      | 684       |
| TDS (ratio - measured/calculated)   | 2.02      | 2.04      | 2.1       | 1.96      | 1.8      | 2.1       | 2.02      | 2.6       | 2        | 2.14     | 3.56      | 1.98       | 2.06      | 2.22     | 1.52      |
| Thallium, dissolved                 | 0.0001    | 0.0001    | 0.0001    | 0.0001    |          | 0.0001    | 0.0001    | 0.0001    | 0.0001   | 0.0001   | 0.0001    | 0.0001     | 0.0001    | 0.0001   | 0.0001    |
| Thallium, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.0001     |           |          |           |
| Total Alkalinity                    | 90        | 76        | 82        | 82        | 158      | 92        | 108       | 118       | 104      | 104      | 106       | 136        | 120       | 130      | 100       |
| Uranium, dissolved                  | 0.0001    | 0.0001    | 0.0001    | 0.0001    | 0.0006   | 0.0002    | 0.0003    | 0.0002    | 0.0003   | 0.0003   | 0.0003    | 0.0003     | 0.0002    | 0.0002   | 0.0002    |
| Uranium, total                      |           |           |           |           |          |           |           |           |          |          |           | 0.001      |           |          |           |
| Vanadium, dissolved                 | 0.005     | 0.005     | 0.005     | 0.005     |          | 0.005     | 0.005     | 0.005     | 0.005    | 0.005    | 0.005     | 0.005      | 0.005     | 0.005    | 0.005     |
| Vanadium, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.005      |           |          |           |
| Zinc, dissolved                     | 18.8      | 29.4      | 21.2      | 25.8      | 0.86     | 0.46      | 0.02      | 0.02      | 0.02     | 0.02     | 0.02      | 0.3        | 7.66      | 1.34     | 10.92     |
| Zinc, potentially dissolved         |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Zinc, total                         |           |           |           |           |          |           |           |           |          |          |           | 0.88       |           |          | 12.22     |

Notes:  
Blank Indicates analyses not performed.  
All non-detects included at MDL value.

### Underground Data

| Analyte                                   | UG-3 (continued) |           |           |
|-------------------------------------------|------------------|-----------|-----------|
|                                           | 12/4/2014        | 3/31/2015 | 6/16/2015 |
| Aluminum, dissolved                       | 0.03             | 0.5       | 0.03      |
| Aluminum, total                           | 0.48             | 0.54      | 0.06      |
| Antimony, dissolved                       | 0.0004           | 0.0004    | 0.0004    |
| Antimony, total                           |                  |           |           |
| Arsenic, dissolved                        | 0.0028           | 0.0086    | 0.0006    |
| Arsenic, total                            |                  |           |           |
| Arsenic, total recoverable                | 0.0134           | 0.0088    | 0.012     |
| Barium, dissolved                         | 0.044            | 0.052     | 0.062     |
| Barium, total                             |                  |           |           |
| Beryllium, dissolved                      | 0.00066          | 0.00112   | 0.00005   |
| Beryllium, total                          |                  |           |           |
| Bicarbonate as CaCO <sub>3</sub>          | 103.6            | 94.2      | 128       |
| Biochemical Oxygen Demand (5 day)         |                  |           |           |
| Boron, dissolved                          | 0.02             | 0.02      | 0.01      |
| Boron, total                              |                  |           |           |
| Cadmium, dissolved                        | 0.0664           | 0.0646    | 0.0001    |
| Cadmium, potentially dissolved            |                  |           |           |
| Cadmium, total                            | 0.0668           | 0.0658    | 0.0017    |
| Calcium, dissolved                        | 182.2            | 171.4     | 87.6      |
| Calcium, total                            |                  |           |           |
| Carbon, dissolved organic (DOC)           |                  |           |           |
| Carbonate as CaCO <sub>3</sub>            | 2                | 2         | 2         |
| Cation-Anion Balance                      | 16.2             | 18.2      | 0         |
| Chemical Oxygen Demand                    |                  |           |           |
| Chloride                                  | 1.4              | 1         | 0.5       |
| Chromium, dissolved                       | 0.0005           | 0.0005    | 0.0005    |
| Chromium, total                           |                  |           |           |
| Chromium, total recoverable               |                  |           |           |
| Chromium, Trivalent Dissolved             | 0.005            | 0.005     | 0.005     |
| Conductivity @25C                         | 1436             | 1350      | 626       |
| Copper, dissolved                         | 0.0088           | 0.0244    | 0.0008    |
| Copper, potentially dissolved             |                  |           |           |
| Copper, total                             | 0.01             | 0.02      | 0.02      |
| Cyanide, total                            | 0.003            | 0.003     | 0.003     |
| Cyanide, WAD                              | 0.003            | 0.003     | 0.003     |
| Dissolved Chromium, Hexavalent            | 0.005            | 0.005     | 0.005     |
| Fluoride                                  | 1.16             | 0.98      | 0.2       |
| Hardness as CaCO <sub>3</sub> (dissolved) | 526              | 488       | 242       |
| Hydroxide as CaCO <sub>3</sub>            | 2                | 2         | 2         |
| Iron, dissolved                           | 0.02             | 1.38      | 0.38      |
| Iron, total                               | 1.44             | 1.4       | 1.42      |
| Iron, total recoverable                   | 1.52             | 1.4       | 1.36      |
| Lead, dissolved                           | 0.0014           | 0.016     | 0.0003    |
| Lead, potentially dissolved               |                  |           |           |
| Lead, total                               | 0.0194           | 0.0156    | 0.0068    |
| Magnesium, dissolved                      | 17.4             | 14.4      | 5.8       |
| Magnesium, total                          |                  |           |           |
| Manganese, dissolved                      | 86.4             | 69.8      | 6.3       |
| Manganese, potentially dissolved          |                  |           |           |
| Manganese, total                          |                  |           |           |
| Mercury, dissolved                        | 0.0002           | 0.0002    | 0.0002    |
| Mercury, total                            | 0.0002           | 0.0002    | 0.0002    |
| Molybdenum, dissolved                     | 0.0013           | 0.0022    | 0.0088    |
| Molybdenum, total                         |                  |           |           |
| Nickel, dissolved                         | 0.009            | 0.008     | 0.008     |
| Nickel, total                             |                  |           |           |
| Nitrate/Nitrite as N                      | 0.06             | 0.03      | 0.02      |
| Oil and Grease                            |                  | 2         | 2         |
| pH                                        | 7.3              | 7.3       | 7.9       |
| pH measured at                            | 19.4             | 21.4      | 19.7      |
| Phosphorus, ortho dissolved               | 0.01             | 0.01      | 0.01      |
| Phosphorus, total                         |                  |           |           |
| Potassium, dissolved                      | 1.1              | 1.1       | 1         |
| Potassium, total                          |                  |           |           |
| Residue, Filterable (TDS) @180C           | 1044             | 980       | 400       |
| Residue, Non-Filterable (TSS) @105C       | 6                | 5         | 5         |
| Selenium, dissolved                       | 0.0001           | 0.0002    | 0.0001    |
| Selenium, total                           |                  |           |           |
| Silica, dissolved                         | 18.2             | 15.8      | 12.6      |
| Silica, total                             |                  |           |           |
| Silver, dissolved                         | 0.00005          | 0.00005   | 0.00005   |
| Silver, potentially dissolved             |                  |           |           |
| Silver, total                             |                  |           |           |
| Sodium, dissolved                         | 24               | 26.2      | 21.6      |
| Sodium, total                             |                  |           |           |
| Sulfate                                   | 644              | 570       | 176.8     |
| Sum of Anions                             | 15.8             | 14        | 6.4       |
| Sum of Cations                            | 18.6             | 16.8      | 6.4       |
| TDS (calculated)                          | 1068             | 954       | 396       |
| TDS (ratio - measured/calculated)         | 1.96             | 2.06      | 2.02      |
| Thallium, dissolved                       | 0.0001           | 0.0001    | 0.0001    |
| Thallium, total                           |                  |           |           |
| Total Alkalinity                          | 103.6            | 94.2      | 128       |
| Uranium, dissolved                        | 0.0001           | 0.0003    | 0.0003    |
| Uranium, total                            |                  |           |           |
| Vanadium, dissolved                       | 0.005            | 0.005     | 0.005     |
| Vanadium, total                           |                  |           |           |
| Zinc, dissolved                           | 21               | 17.2      | 1.54      |
| Zinc, potentially dissolved               |                  |           |           |
| Zinc, total                               | 20.6             | 18.44     | 1.72      |

Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.

## Underground Data

| Analyte                             | UG-4      |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
|-------------------------------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|----------|-----------|------------|-----------|----------|-----------|
|                                     | 1/16/2012 | 6/24/2012 | 9/18/2012 | 12/6/2012 | 2/6/2013 | 6/20/2013 | 7/18/2013 | 7/25/2013 | 8/1/2013 | 8/8/2013 | 9/26/2013 | 12/26/2013 | 2/12/2014 | 4/2/2014 | 6/11/2014 |
| Aluminum, dissolved                 | 0.03      | 0.03      | 0.03      | 0.17      |          | 0.03      | 0.03      | 0.03      | 0.03     | 0.03     | 0.03      | 0.03       | 0.03      | 0.03     | 0.03      |
| Aluminum, total                     | 0.04      | 0.1       | 0.03      | 6.74      | 0.34     | 0.03      | 0.04      | 0.03      | 0.06     | 0.03     | 0.12      | 0.03       | 0.05      | 2.22     | 0.62      |
| Antimony, dissolved                 | 0.0114    | 0.0316    | 0.032     | 0.0248    | 0.0218   | 0.0004    | 0.0372    | 0.0378    | 0.0358   | 0.0342   | 0.027     | 0.0098     | 0.0076    | 0.0058   | 0.0368    |
| Antimony, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.0112     |           |          |           |
| Arsenic, dissolved                  | 0.019     | 0.0066    | 0.0102    | 0.0118    | 0.0134   | 0.0052    | 0.0074    | 0.0074    | 0.0074   | 0.009    | 0.0094    | 0.017      | 0.0168    | 0.0172   | 0.0078    |
| Arsenic, total                      |           |           |           |           |          |           |           |           |          |          |           | 0.0188     |           |          |           |
| Arsenic, total recoverable          |           |           |           |           |          |           |           |           |          |          |           |            |           |          | 0.04      |
| Barium, dissolved                   | 0.048     | 0.04      | 0.048     | 0.074     | 0.064    | 0.018     | 0.04      | 0.05      | 0.05     | 0.042    | 0.044     | 0.064      | 0.06      | 0.058    | 0.044     |
| Barium, total                       |           |           |           |           |          |           |           |           |          |          |           | 0.078      |           |          |           |
| Beryllium, dissolved                | 0.0001    | 0.0001    | 0.0001    | 0.00005   |          | 0.00005   | 0.00005   | 0.00005   | 0.00005  | 0.00005  | 0.00005   | 0.00005    | 0.00005   | 0.00005  | 0.00005   |
| Beryllium, total                    |           |           |           |           |          |           |           |           |          |          |           | 0.00005    |           |          |           |
| Bicarbonate as CaCO3                | 146       | 104       | 122       | 140       | 136      | 94        | 114       | 124       | 132      | 122      | 130       | 146        | 150       | 120      | 82        |
| Biochemical Oxygen Demand (5 day)   |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Boron, dissolved                    | 0.03      | 0.02      | 0.01      | 0.02      | 0.08     | 0.01      | 0.02      | 0.02      | 0.01     | 0.01     | 0.01      | 0.03       | 0.03      | 0.1      | 0.02      |
| Boron, total                        |           |           |           |           |          |           |           |           |          |          |           | 0.03       |           |          |           |
| Cadmium, dissolved                  | 0.0001    | 0.0004    | 0.0004    | 0.0005    | 0.0006   | 0.001     | 0.001     | 0.001     | 0.001    | 0.001    | 0.001     | 0.001      | 0.001     | 0.001    | 0.001     |
| Cadmium, potentially dissolved      |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Cadmium, total                      |           |           |           |           |          |           |           |           |          |          |           | 0.001      |           |          | 0.005     |
| Calcium, dissolved                  | 123.4     | 102.6     | 110       | 129.8     | 129.2    | 39.6      | 112.4     | 115       | 108.2    | 113      | 112       | 112.4      | 124.2     | 128.8    | 94        |
| Calcium, total                      |           |           |           |           |          |           |           |           |          |          |           | 132.4      |           |          |           |
| Carbon, dissolved organic (DOC)     |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Carbonate as CaCO3                  | 2         | 2         | 2         | 2         |          | 2         | 2         | 2         | 2        | 2        | 2         | 2          | 2         | 2        | 2         |
| Cation-Anion Balance                | -5        | -3        | 2.8       | -2.4      | 0        | -15.4     | 4.4       | 0.8       | -5.4     | 5.6      | -5.6      | -15.8      | -5        | 0        | 0.4       |
| Chemical Oxygen Demand              |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Chloride                            | 1         | 1         | 1         | 1         | 2        | 1         | 1         | 1         | 1        | 1        | 1         | 1          | 1         | 2        | 0.8       |
| Chromium, dissolved                 | 0.0005    | 0.0005    | 0.0005    | 0.0005    |          | 0.0005    | 0.0005    | 0.0005    | 0.0005   | 0.0005   | 0.0005    | 0.0005     | 0.0005    | 0.0005   | 0.0005    |
| Chromium, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.0005     |           |          |           |
| Chromium, total recoverable         |           |           |           |           |          |           |           |           |          |          |           |            |           |          | 0.01      |
| Chromium, Trivalent Dissolved       |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Conductivity @25C                   | 832       | 650       | 678       | 858       | 806      | 288       | 702       | 742       | 706      | 712      | 748       | 810        | 826       | 838      | 626       |
| Copper, dissolved                   | 0.0005    | 0.0006    | 0.0005    | 0.0134    | 0.0018   | 0.0006    | 0.0013    | 0.0009    | 0.0009   | 0.0009   | 0.0005    | 0.0005     | 0.0005    | 0.0005   | 0.0008    |
| Copper, potentially dissolved       |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Copper, total                       |           |           |           |           |          |           |           |           |          |          |           | 0.0018     |           |          | 0.01      |
| Cyanide, total                      | 0.003     | 0.004     | 0.003     | 0.003     |          | 0.003     | 0.003     | 0.003     | 0.003    | 0.003    | 0.003     | 0.003      | 0.003     | 0.003    | 0.003     |
| Cyanide, WAD                        | 0.003     | 0.003     | 0.003     | 0.003     |          | 0.003     | 0.003     | 0.003     | 0.003    | 0.003    | 0.003     | 0.003      | 0.003     | 0.003    | 0.003     |
| Dissolved Chromium, Hexavalent      |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Fluoride                            | 0.1       | 0.3       | 0.3       | 0.3       | 0.8      | 0.1       | 0.3       | 0.3       | 0.3      | 0.3      | 0.3       | 0.3        | 0.3       | 0.84     | 0.25      |
| Hardness as CaCO3 (dissolved)       | 338       | 296       | 312       | 354       | 350      | 108       | 324       | 328       | 310      | 322      | 318       | 306        | 336       | 346      | 268       |
| Hydroxide as CaCO3                  | 2         | 2         | 2         | 2         |          | 2         | 2         | 2         | 2        | 2        | 2         | 2          | 2         | 2        | 2         |
| Iron, dissolved                     | 0.02      | 0.02      | 0.02      | 0.32      |          | 0.02      | 0.02      | 0.02      | 0.02     | 0.02     | 0.02      | 0.02       | 0.02      | 0.02     | 0.02      |
| Iron, total                         | 0.14      | 0.38      | 0.02      | 5.46      | 0.3      | 0.02      | 0.03      | 0.02      | 0.26     | 0.04     | 0.32      | 0.16       | 0.14      | 3.58     | 1.14      |
| Iron, total recoverable             |           |           |           |           |          |           |           |           |          |          |           |            |           |          | 1.04      |
| Lead, dissolved                     | 0.0002    | 0.0094    | 0.0036    | 0.164     | 0.0172   | 0.0016    | 0.0124    | 0.006     | 0.0802   | 0.0114   | 0.0036    | 0.0064     | 0.0038    | 0.0044   | 0.0094    |
| Lead, potentially dissolved         |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Lead, total                         |           |           |           |           |          |           |           |           |          |          |           | 0.0484     |           |          | 0.03      |
| Magnesium, dissolved                | 7         | 9.4       | 9         | 7.4       | 6.8      | 2.2       | 10.4      | 10        | 9.4      | 9.6      | 9.2       | 6          | 6         | 5.8      | 8.2       |
| Magnesium, total                    |           |           |           |           |          |           |           |           |          |          |           | 7.4        |           |          |           |
| Manganese, dissolved                | 0.152     | 0.064     | 0.294     | 0.414     | 0.172    | 0.005     | 0.008     | 0.012     | 0.011    | 0.005    | 0.01      | 0.006      | 0.012     | 0.009    | 0.018     |
| Manganese, potentially dissolved    |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Manganese, total                    |           |           |           |           |          |           |           |           |          |          |           | 0.028      |           |          |           |
| Mercury, dissolved                  | 0.0002    | 0.0002    | 0.0002    | 0.0002    |          | 0.0002    | 0.0002    | 0.0002    | 0.0002   | 0.0002   | 0.0002    | 0.0002     | 0.0002    | 0.0002   | 0.0002    |
| Mercury, total                      |           |           |           |           |          |           |           |           |          |          |           | 0.0002     |           |          | 0.0002    |
| Molybdenum, dissolved               | 0.015     | 0.0148    | 0.0176    | 0.0204    | 0.0208   | 0.0012    | 0.0156    | 0.0168    | 0.0176   | 0.0168   | 0.0162    | 0.015      | 0.0142    | 0.0146   | 0.0198    |
| Molybdenum, total                   |           |           |           |           |          |           |           |           |          |          |           | 0.016      |           |          |           |
| Nickel, dissolved                   | 0.01      | 0.01      | 0.01      | 0.01      |          | 0.01      | 0.01      | 0.01      | 0.01     | 0.01     | 0.01      | 0.01       | 0.008     | 0.008    | 0.008     |
| Nickel, total                       |           |           |           |           |          |           |           |           |          |          |           | 0.01       |           |          |           |
| Nitrate/Nitrite as N                | 0.08      | 0.36      | 0.36      | 0.22      | 0.2      | 0.46      | 0.56      | 0.56      | 0.6      | 0.6      | 0.58      | 0.24       | 0.3       | 0.28     | 0.78      |
| Oil and Grease                      |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| pH                                  | 8         | 7.9       | 8.2       | 8.2       | 16.6     | 8.1       | 8.2       | 8.1       | 8.1      | 8.1      | 8.2       | 8.2        | 8.3       | 8.2      | 7.9       |
| pH measured at                      | 40        | 40        | 44        | 42        | 44       | 40        | 42        | 42        | 42       | 40       | 42        | 44         | 44        | 42       | 40        |
| Phosphorus, ortho dissolved         | 0.01      | 0.01      | 0.01      | 0.03      | 0.02     | 0.01      | 0.02      | 0.01      | 0.02     | 0.01     | 0.01      | 0.01       | 0.01      | 0.01     | 0.02      |
| Phosphorus, total                   |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Potassium, dissolved                | 0.6       | 0.9       | 0.8       | 0.7       | 1.6      | 0.4       | 1         | 0.8       | 0.9      | 0.8      | 0.7       | 0.6        | 0.5       | 0.5      | 0.9       |
| Potassium, total                    |           |           |           |           |          |           |           |           |          |          |           | 0.7        |           |          |           |
| Residue, Filterable (TDS) @180C     | 500       | 420       | 440       | 540       | 540      | 160       | 440       | 488       | 428      | 460      | 476       | 500        | 520       | 600      | 340       |
| Residue, Non-Filterable (TSS) @105C | 5         | 5         | 5         | 64        |          | 5         | 5         | 5         | 5        | 5        | 8         | 8          | 42        | 14       | 5         |
| Selenium, dissolved                 | 0.001     | 0.0016    | 0.0018    | 0.0008    | 0.0012   | 0.0006    | 0.0014    | 0.0016    | 0.0014   | 0.0014   | 0.0014    | 0.0014     | 0.0008    | 0.0008   | 0.0012    |
| Selenium, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.0012     |           |          |           |
| Silica, dissolved                   | 15.2      | 8.8       | 11.4      | 15.6      | 14.6     | 10.4      | 8.8       | 9.2       | 9.4      | 9.4      | 10.4      | 14.2       | 13.8      | 14.6     | 8         |
| Silica, total                       |           |           |           |           |          |           |           |           |          |          |           | 14.6       |           |          |           |
| Silver, dissolved                   | 0.00005   | 0.00005   | 0.00005   | 0.00013   |          | 0.00005   | 0.00005   | 0.00005   | 0.00005  | 0.00005  | 0.00005   | 0.00005    | 0.00005   | 0.00005  | 0.00005   |
| Silver, potentially dissolved       |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Silver, total                       |           |           |           |           |          |           |           |           |          |          |           | 0.0006     |           |          |           |
| Sodium, dissolved                   | 24        | 11.6      | 16.2      | 23        | 25       | 1.9       | 11.8      | 13        | 12.4     | 13.2     | 14.2      | 19.8       | 22.8      | 26.6     | 10.6      |
| Sodium, total                       |           |           |           |           |          |           |           |           |          |          |           | 22.4       |           |          |           |
| Sulfate                             | 248       | 214       | 210       | 260       | 252      | 46        | 212       | 220       | 214      | 200      | 228       | 246        | 242       | 268      | 198.4     |
| Sum of Anions                       | 8.2       | 6.6       | 6.8       | 8.4       | 8.2      | 2.8       | 6.76      | 7.14      | 7.16     | 6.68     | 7.4       | 8.2        | 8.2       | 8.2      | 5.88      |
| Sum of Cations                      | 7.8       | 6.4       | 7         | 8.2       | 8.2      | 2.4       | 7.06      | 7.2       | 6.78     | 7.06     | 7         | 7          | 7.8       | 8.2      | 5.9       |
| TDS (calculated)                    | 508       | 412       | 432       | 524       | 514      | 160       | 426       | 444       | 436      | 420      | 454       | 490        | 502       | 522      | 376       |
| TDS (ratio - measured/calculated)   | 1.96      | 2.04      | 2.04      | 2.06      | 2.1      | 2         | 2.06      | 2.2       | 1.96     | 2.2      | 2.1       | 2.04       | 2.08      | 2.3      | 1.8       |
| Thallium, dissolved                 | 0.0001    | 0.0001    | 0.0001    | 0.0001    |          | 0.0001    | 0.0001    | 0.0001    | 0.0001   | 0.0001   | 0.0001    | 0.0001     | 0.0001    | 0.0001   | 0.0001    |
| Thallium, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.0001     |           |          |           |
| Total Alkalinity                    | 146       | 104       | 122       | 140       | 136      | 94        | 114       | 124       | 132      | 122      | 130       | 146        | 150       | 120      | 82        |
| Uranium, dissolved                  | 0.0016    | 0.0004    | 0.0014    | 0.0018    | 0.0018   | 0.0001    | 0.001     | 0.001     | 0.001    | 0.001    | 0.0012    | 0.0018     | 0.0016    | 0.0014   | 0.0003    |
| Uranium, total                      |           |           |           |           |          |           |           |           |          |          |           | 0.002      |           |          |           |
| Vanadium, dissolved                 | 0.005     | 0.005     | 0.005     | 0.005     | 0.016    | 0.005     | 0.005     | 0.005     | 0.005    | 0.005    | 0.005     | 0.005      | 0.005     | 0.005    | 0.005     |
| Vanadium, total                     |           |           |           |           |          |           |           |           |          |          |           | 0.005      |           |          |           |
| Zinc, dissolved                     | 0.04      | 0.22      | 0.22      | 0.16      | 0.08     | 0.01      | 0.18      | 0.2       | 0.18     | 0.16     | 0.14      | 0.02       | 0.03      | 0.03     | 0.04      |
| Zinc, potentially dissolved         |           |           |           |           |          |           |           |           |          |          |           |            |           |          |           |
| Zinc, total                         |           |           |           |           |          |           |           |           |          |          |           | 0.1        |           |          | 0.12      |

Notes:  
Blank indicates analyses not performed.  
All non-detects included at MDL value.

## Underground Data

| Analyte                                   | UG-4 (continued) |           |           |           |           |           |           |            |            |
|-------------------------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
|                                           | 12/4/2014        | 3/31/2015 | 6/16/2015 | 9/16/2015 | 3/30/2016 | 7/26/2017 | 12/4/2018 | 12/19/2019 | 12/17/2020 |
| Aluminum, dissolved                       | 0.03             | 0.15      | 0.09      | 0.03      | 0.03      | 0.03      | 0.05      | 0.05       | 0.05       |
| Aluminum, total                           | 224              | 3.34      | 7.42      | 0.7       | 0.76      |           |           |            |            |
| Antimony, dissolved                       | 0.0096           | 0.0068    | 0.0364    | 0.008     | 0.0014    | 0.0262    | 0.0015    | 0.0013     | 0.00431    |
| Antimony, total                           |                  |           |           |           |           |           |           |            |            |
| Arsenic, dissolved                        | 0.0134           | 0.0184    | 0.0066    | 0.0176    | 0.0242    | 0.014     | 0.0212    | 0.0106     | 0.00837    |
| Arsenic, total                            |                  |           |           |           |           |           |           |            |            |
| Arsenic, total recoverable                | 1.05             | 0.0194    | 0.0382    | 0.023     | 0.0254    |           |           |            |            |
| Barium, dissolved                         | 0.056            | 0.064     | 0.064     | 0.056     | 0.044     | 0.042     | 0.052     | 0.021      | 0.0294     |
| Barium, total                             |                  |           |           |           |           |           |           |            |            |
| Beryllium, dissolved                      | 0.00005          | 0.00005   | 0.00005   | 0.00005   | 0.00005   | 0.00005   | 0.00005   | 0.00008    | 0.00008    |
| Beryllium, total                          |                  |           |           |           |           |           |           |            |            |
| Bicarbonate as CaCO <sub>3</sub>          | 163.4            | 152.2     | 96.6      | 129.4     | 144.4     | 143.2     | 156.6     | 64.3       | 66.6       |
| Biochemical Oxygen Demand (5 day)         |                  |           |           |           |           |           |           |            |            |
| Boron, dissolved                          | 0.03             | 0.04      | 0.03      | 0.02      | 0.04      | 0.03      | 0.02      | 0.08       | 0.039      |
| Boron, total                              |                  |           |           |           |           |           |           |            |            |
| Cadmium, dissolved                        | 0.0001           | 0.0001    | 0.0003    | 0.0001    | 0.0001    | 0.0002    | 0.00008   | 0.00005    | 0.000125   |
| Cadmium, potentially dissolved            |                  |           |           |           | 0.0001    |           |           |            |            |
| Cadmium, total                            | 0.0164           | 0.0002    | 0.0008    | 0.0002    | 0.001     |           |           |            |            |
| Calcium, dissolved                        | 155.4            | 133       | 79.6      | 107       | 125.8     | 118.4     | 137.2     | 56.5       | 65.1       |
| Calcium, total                            |                  |           |           |           |           |           |           |            |            |
| Carbon, dissolved organic (DOC)           |                  |           |           |           |           |           |           |            |            |
| Carbonate as CaCO <sub>3</sub>            | 2                | 2         | 2         | 2         | 2         | 2         | 2         | 2          | 2          |
| Cation-Anion Balance                      | -2               | 0         | 4         | -3        | -7.2      | 5.6       | -2.2      | -1.3       | 3.7        |
| Chemical Oxygen Demand                    |                  |           |           |           |           |           |           |            |            |
| Chloride                                  | 4.8              | 1.8       | 1         | 1         | 1.9       | 1.3       | 1.8       | 2.7        | 2.4        |
| Chromium, dissolved                       | 0.0005           | 0.0005    | 0.0005    | 0.0005    | 0.0005    | 0.0005    | 0.0005    | 0.0005     | 0.0005     |
| Chromium, total                           |                  |           |           |           |           |           |           |            |            |
| Chromium, total recoverable               |                  |           |           |           |           |           |           |            |            |
| Chromium, Trivalent Dissolved             | 0.005            | 0.005     | 0.005     | 0.005     | 0.005     |           |           |            |            |
| Conductivity @ 25C                        | 966              | 852       | 540       | 648       | 852       | 698       | 850       | 372        | 426        |
| Copper, dissolved                         | 0.0017           | 0.0027    | 0.0029    | 0.0006    | 0.0006    | 0.0006    | 0.013     | 0.0012     | 0.0008     |
| Copper, potentially dissolved             |                  |           |           |           | 0.00068   |           |           |            |            |
| Copper, total                             | 0.76             | 0.01      | 0.03      | 0.01      | 0.01      |           |           |            |            |
| Cyanide, total                            | 0.003            | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     | 0.003      |            |
| Cyanide, WAD                              | 0.003            | 0.003     | 0.003     | 0.003     | 0.003     |           |           |            |            |
| Dissolved Chromium, Hexavalent            | 0.005            | 0.005     | 0.005     | 0.005     | 0.005     |           |           |            |            |
| Fluoride                                  | 0.8              | 0.76      | 0.15      | 0.24      | 0.86      | 0.86      | 0.9       | 0.5        | 0.43       |
| Hardness as CaCO <sub>3</sub> (dissolved) | 422              | 360       | 228       | 296       | 338       | 330       | 368       | 150        | 175        |
| Hydroxide as CaCO <sub>3</sub>            | 2                | 2         | 2         | 2         | 2         | 2         | 2         | 2          | 2          |
| Iron, dissolved                           | 0.02             | 0.44      | 0.46      | 0.02      | 0.02      | 0.02      | 0.02      | 0.03       | 0.06       |
| Iron, total                               | 322              | 1.62      | 8.54      | 0.54      | 0.9       |           |           |            |            |
| Iron, total recoverable                   | 298              | 1.6       | 7.92      | 0.54      | 0.96      |           |           |            |            |
| Lead, dissolved                           | 0.007            | 0.0848    | 0.0324    | 0.0164    | 0.0058    | 0.004     | 0.0088    | 0.0011     | 0.00109    |
| Lead, potentially dissolved               |                  |           |           |           | 0.0998    |           |           |            |            |
| Lead, total                               | 10.48            | 0.0884    | 0.6536    | 0.046     | 0.074     |           |           |            |            |
| Magnesium, dissolved                      | 8.4              | 6.6       | 7.2       | 6.8       | 5.6       | 8.2       | 6.2       | 2.2        | 3          |
| Magnesium, total                          |                  |           |           |           |           |           |           |            |            |
| Manganese, dissolved                      | 0.076            | 0.314     | 0.33      | 0.008     | 0.005     | 0.017     | 0.005     | 0.01       | 0.01       |
| Manganese, potentially dissolved          |                  |           |           |           | 0.1694    |           |           |            |            |
| Manganese, total                          |                  |           |           |           |           |           |           |            |            |
| Mercury, dissolved                        | 0.0002           | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002     | 0.0002     |
| Mercury, total                            | 0.0036           | 0.0002    | 0.0002    | 0.0002    | 0.0004    |           |           |            |            |
| Molybdenum, dissolved                     | 0.0258           | 0.018     | 0.0166    | 0.0136    | 0.0168    | 0.0162    | 0.0148    | 0.0083     | 0.00814    |
| Molybdenum, total                         |                  |           |           |           |           |           |           |            |            |
| Nickel, dissolved                         | 0.008            | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008      | 0.008      |
| Nickel, total                             |                  |           |           |           |           |           |           |            |            |
| Nitrate/Nitrite as N                      | 0.7              | 1.44      | 2.98      | 0.66      | 0.32      | 0.42      | 0.22      | 0.11       | 2.98       |
| Oil and Grease                            |                  | 2         | 2.5       | 2         | 2         |           |           |            |            |
| pH                                        | 8.1              | 8.1       | 8.1       | 8.2       | 8.3       | 8         | 8.3       | 8.1        | 8.2        |
| pH measured at                            | 38.8             | 42.6      | 40        | 38.4      | 44.6      | 43.4      | 42.4      | 21         | 21.1       |
| Phosphorus, ortho dissolved               | 0.12             | 0.02      | 0.04      | 0.01      | 0.02      | 0.02      | 0.02      | 0.01       |            |
| Phosphorus, total                         |                  |           |           |           |           |           |           |            | 0.01       |
| Potassium, dissolved                      | 3.2              | 0.9       | 2.2       | 0.7       | 0.5       | 0.7       | 0.5       | 0.5        | 0.62       |
| Potassium, total                          |                  |           |           |           |           |           |           |            |            |
| Residue, Filterable (TDS) @ 180C          | 660              | 552       | 324       | 408       | 560       | 488       | 584       | 266        | 282        |
| Residue, Non-Filterable (TSS) @ 105C      | 5640             | 5         | 82        | 5         | 15        | 5         | 5         | 7          | 5          |
| Selenium, dissolved                       | 0.0008           | 0.0008    | 0.0008    | 0.001     | 0.0008    | 0.0008    | 0.0006    | 0.0004     | 0.0005     |
| Selenium, total                           |                  |           |           |           |           |           |           |            |            |
| Silica, dissolved                         | 15.6             | 16        | 7.8       | 13.2      | 14.2      | 11.4      | 16.2      | 7.5        | 8.1        |
| Silica, total                             |                  |           |           |           |           |           |           |            |            |
| Silver, dissolved                         | 0.00005          | 0.00007   | 0.00008   | 0.00005   | 0.00005   | 0.00005   | 0.0001    | 0.0001     | 0.0001     |
| Silver, potentially dissolved             |                  |           |           |           | 0.00014   |           |           |            |            |
| Silver, total                             |                  |           |           |           |           |           |           |            |            |
| Sodium, dissolved                         | 26.8             | 27        | 9.6       | 16.6      | 26.8      | 18        | 28.6      | 14.4       | 14.4       |
| Sodium, total                             |                  |           |           |           |           |           |           |            |            |
| Sulfate                                   | 316              | 258       | 145.2     | 192.2     | 264       | 195.2     | 260       | 113        | 120        |
| Sum of Anions                             | 10               | 8.6       | 5         | 6.8       | 8.6       | 7         | 8.8       | 3.8        | 3.9        |
| Sum of Cations                            | 9.8              | 8.6       | 5.2       | 6.6       | 8         | 7.4       | 8.6       | 3.7        | 4.2        |
| TDS (calculated)                          | 636              | 546       | 316       | 422       | 534       | 446       | 554       | 239        | 257        |
| TDS (ratio - measured/calculated)         | 2.08             | 2.02      | 2.06      | 1.94      | 2.1       | 2.18      | 2.1       | 1.11       | 1.1        |
| Thallium, dissolved                       | 0.0001           | 0.0001    | 0.0001    | 0.0001    | 0.0001    | 0.0001    | 0.0001    | 0.0001     | 0.0001     |
| Thallium, total                           |                  |           |           |           |           |           |           |            |            |
| Total Alkalinity                          | 163.4            | 152.2     | 96.6      | 129.4     | 145.4     | 143.2     | 156.6     | 64.3       | 66.6       |
| Uranium, dissolved                        | 0.002            | 0.0016    | 0.0002    | 0.0014    | 0.0014    | 0.0012    | 0.0016    | 0.0006     | 0.00069    |
| Uranium, total                            |                  |           |           |           |           |           |           |            |            |
| Vanadium, dissolved                       | 0.005            | 0.005     | 0.005     | 0.005     | 0.005     | 0.005     | 0.005     | 0.005      | 0.01       |
| Vanadium, total                           |                  |           |           |           |           |           |           |            |            |
| Zinc, dissolved                           | 0.01             | 0.03      | 0.1       | 0.02      | 0.01      | 0.12      | 0.01      | 0.01       | 0.023      |
| Zinc, potentially dissolved               |                  |           |           |           | 0.048     |           |           |            |            |
| Zinc, total                               | 4.9              | 0.04      | 0.4       | 0.03      | 0.02      |           |           |            |            |

Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.



## Underground Data

| Analyte                             | UG-5     |           |          |          |            |           |          |           |           |           |           |           |           |            |            |
|-------------------------------------|----------|-----------|----------|----------|------------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
|                                     | 2/6/2013 | 6/20/2013 | 8/1/2013 | 8/8/2013 | 12/26/2013 | 2/12/2014 | 4/2/2014 | 6/11/2014 | 7/22/2014 | 12/4/2014 | 3/31/2015 | 6/16/2015 | 9/16/2015 | 10/26/2015 | 12/10/2015 |
| Aluminum, dissolved                 |          | 0.03      | 0.03     |          | 0.03       | 0.03      | 0.03     | 0.03      | 0.03      | 0.03      | 0.51      | 0.03      | 0.03      |            |            |
| Aluminum, total                     | 0.08     | 0.03      | 1.82     | 18       | 0.12       | 0.03      | 0.87     | 1.76      | 0.93      | 8.45      | 13.8      | 3.7       | 0.04      |            |            |
| Antimony, dissolved                 | 0.0024   | 0.0056    | 0.0051   | 0.0055   | 0.0021     | 0.0016    | 0.0014   | 0.0034    | 0.0046    | 0.0013    | 0.014     | 0.004     | 0.0016    |            |            |
| Antimony, total                     |          |           |          |          | 0.0031     |           |          |           |           |           |           |           |           |            |            |
| Arsenic, dissolved                  | 0.0024   | 0.0031    | 0.0024   | 0.0015   | 0.0026     | 0.0025    | 0.0009   | 0.0029    | 0.0027    | 0.0019    | 0.0301    | 0.0015    | 0.0034    |            |            |
| Arsenic, total                      |          |           |          |          | 0.0065     |           |          |           |           |           |           |           |           |            |            |
| Arsenic, total recoverable          |          |           |          |          |            |           |          | 0.07      | 0.0092    | 0.0161    | 0.1878    | 0.0158    | 0.0048    |            |            |
| Barium, dissolved                   | 0.029    | 0.014     | 0.028    | 0.054    | 0.028      | 0.027     | 0.025    | 0.077     | 0.033     | 0.033     | 0.156     | 0.041     | 0.026     |            |            |
| Barium, total                       |          |           |          |          | 0.033      |           |          |           |           |           |           |           |           |            |            |
| Beryllium, dissolved                |          | 0.00005   |          |          | 0.00005    | 0.00005   | 0.00005  | 0.00005   | 0.00005   | 0.00005   | 0.00079   | 0.00005   | 0.00005   |            |            |
| Beryllium, total                    |          |           |          |          | 0.00005    |           |          |           |           |           |           |           |           |            |            |
| Bicarbonate as CaCO3                | 53       | 46        | 53       | 56       | 59         | 57        | 44       | 45        | 55.5      | 56.3      | 56        | 55.9      | 55.8      |            |            |
| Biochemical Oxygen Demand (5 day)   |          |           |          |          |            |           |          |           |           |           |           |           |           |            |            |
| Boron, dissolved                    | 0.02     | 0.01      |          |          | 0.02       | 0.02      | 0.01     | 0.01      | 0.02      | 0.01      | 0.02      | 0.01      | 0.01      |            |            |
| Boron, total                        |          |           |          |          | 0.02       |           |          |           |           |           |           |           |           |            |            |
| Cadmium, dissolved                  | 0.0012   | 0.0029    |          |          | 0.0014     | 0.0011    | 0.001    | 0.001     | 0.001     | 0.0015    | 0.0047    | 0.0003    | 0.0005    | 0.0011     | 0.0006     |
| Cadmium, potentially dissolved      |          |           |          |          |            |           |          |           |           |           | 0.002     | 0.0049    | 0.0011    |            | 0.0012     |
| Cadmium, total                      |          |           |          |          |            | 0.0016    |          |           | 0.005     | 0.0012    | 0.003     | 0.0291    | 0.0067    | 0.0006     |            |
| Calcium, dissolved                  | 65.3     | 34.8      | 45.3     | 50.6     | 53.3       | 61.8      | 65.5     | 40.5      | 44.7      | 56.8      | 66.7      | 40.2      | 49.4      |            |            |
| Calcium, total                      |          |           |          |          | 59.9       |           |          |           |           |           |           |           |           |            |            |
| Carbon, dissolved organic (DOC)     |          |           |          |          |            |           |          |           |           |           |           |           |           |            |            |
| Carbonate as CaCO3                  |          | 2         |          |          | 2          | 2         | 2        | 2         | 2         | 2         | 2         | 2         | 2         |            |            |
| Cation-Anion Balance                | 2.5      | 2         | 0.9      | 4.4      | -1.5       | -2.6      | 0        | 4.8       | 1.8       | 0         | 7.1       | 0         | -1.7      |            |            |
| Chemical Oxygen Demand              |          |           |          |          |            |           |          |           |           |           |           |           |           |            |            |
| Chloride                            |          | 1         | 1        | 1        | 1          | 1         | 1        | 0.5       | 0.5       | 1.1       | 0.5       | 0.5       | 0.8       |            |            |
| Chromium, dissolved                 |          | 0.0005    |          |          | 0.0005     | 0.0005    | 0.0005   | 0.0005    | 0.0005    | 0.0005    | 0.0009    | 0.0005    | 0.0005    |            |            |
| Chromium, total                     |          |           |          |          | 0.0005     |           |          |           |           |           |           |           |           |            |            |
| Chromium, total recoverable         |          |           |          |          |            |           |          | 0.01      |           |           |           |           |           |            |            |
| Chromium, Trivalent Dissolved       |          |           |          |          |            |           |          |           | 0.005     | 0.005     | 0.005     | 0.005     | 0.005     |            |            |
| Conductivity @25C                   | 395      |           | 289      | 343      | 362        | 393       | 405      | 258       | 276       | 358       | 407       | 254       | 295       |            |            |
| Copper, dissolved                   |          | 0.0009    | 0.0005   |          | 0.001      | 0.0005    | 0.0005   | 0.0024    | 0.0005    | 0.0005    | 0.0751    | 0.0016    | 0.0006    | 0.0005     | 0.0005     |
| Copper, potentially dissolved       |          |           |          |          |            |           |          |           |           | 0.0078    | 0.0676    | 0.0142    |           | 0.001      | 0.005      |
| Copper, total                       |          |           |          |          | 0.0024     |           |          | 0.13      | 0.01      | 0.02      | 0.51      | 0.05      | 0.01      |            |            |
| Cyanide, total                      |          | 0.003     |          | 0.004    | 0.003      | 0.003     | 0.003    | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     |            |            |
| Cyanide, WAD                        |          | 0.003     |          |          | 0.003      | 0.003     | 0.003    | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     | 0.003      | 0.003      |
| Dissolved Chromium, Hexavalent      |          |           |          |          |            |           |          |           | 0.005     | 0.005     | 0.005     | 0.005     | 0.005     |            |            |
| Fluoride                            | 0.3      | 0.2       | 0.2      | 0.2      | 0.2        | 0.2       | 0.29     | 0.19      | 0.25      | 0.28      | 0.23      | 0.13      | 0.21      |            |            |
| Hardness as CaCO3 (dissolved)       | 175      | 98        | 123      | 136      | 143        | 165       | 175      | 110       | 122       | 151       | 178       | 110       | 133       |            |            |
| Hydroxide as CaCO3                  |          | 2         |          |          | 2          | 2         | 2        | 2         | 2         | 2         | 2         | 2         | 2         |            |            |
| Iron, dissolved                     |          | 0.02      | 0.02     |          | 0.02       | 0.02      | 0.02     | 0.02      | 0.02      | 0.02      | 1.93      | 0.06      | 0.02      |            |            |
| Iron, total                         | 0.11     | 0.11      | 1.28     | 16.3     | 0.43       | 0.06      | 1.74     | 4.29      | 1.56      | 4.84      | 21.4      | 5.68      | 0.12      |            |            |
| Iron, total recoverable             |          |           |          |          |            |           |          | 4.3       | 1.52      | 4.58      | 21.3      | 5.46      | 0.13      | 0.12       | 0.07       |
| Lead, dissolved                     | 0.0009   | 0.0008    | 0.0087   | 0.0372   | 0.0009     | 0.0002    | 0.0011   | 0.0404    | 0.0054    | 0.0188    | 6.14      | 0.0233    | 0.0013    | 0.0011     | 0.0001     |
| Lead, potentially dissolved         |          |           |          |          |            |           |          |           |           |           | 5.92      | 0.4857    |           | 0.0069     | 0.0036     |
| Lead, total                         |          |           |          |          | 0.0217     |           |          | 0.78      | 0.1178    | 0.4421    | 10.9      | 1.25      | 0.0132    | 0.0075     | 0.0039     |
| Magnesium, dissolved                | 2.8      | 2.7       | 2.3      | 2.4      | 2.3        | 2.5       | 2.7      | 2.1       | 2.5       | 2.3       | 2.9       | 2.3       | 2.3       |            |            |
| Magnesium, total                    |          |           |          |          | 2.7        |           |          |           |           |           |           |           |           |            |            |
| Manganese, dissolved                | 2.04     | 3.36      | 0.035    | 0.203    | 1.6        | 1.06      | 1.1      | 0.232     | 0.874     | 1.74      | 4.16      | 0.119     | 0.187     | 1.47       | 0.2        |
| Manganese, potentially dissolved    |          |           |          |          |            |           |          |           |           | 2.4       | 3.8       | 0.915     |           | 1.52       | 1.05       |
| Manganese, total                    |          |           |          |          | 2.5        |           |          |           |           |           |           |           |           |            |            |
| Mercury, dissolved                  |          | 0.0002    |          |          | 0.0002     | 0.0002    | 0.0002   | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    |            |            |
| Mercury, total                      |          |           |          |          | 0.0002     |           |          | 0.0002    | 0.0002    | 0.0002    | 0.0007    | 0.0002    | 0.0002    | 0.0002     | 0.0002     |
| Molybdenum, dissolved               | 0.0052   | 0.0018    | 0.005    | 0.0085   | 0.0047     | 0.0041    | 0.0039   | 0.0097    | 0.008     | 0.0049    | 0.0305    | 0.0107    | 0.0033    |            |            |
| Molybdenum, total                   |          |           |          |          | 0.0059     |           |          |           |           |           |           |           |           |            |            |
| Nickel, dissolved                   |          | 0.01      |          |          | 0.01       | 0.008     | 0.008    | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     |            |            |
| Nickel, total                       |          |           |          |          | 0.01       |           |          |           |           |           |           |           |           |            |            |
| Nitrate/Nitrite as N                | 0.15     | 0.23      | 1.34     | 6.08     | 0.44       | 0.34      | 1.08     | 1.56      | 0.45      | 1.36      | 1.58      | 0.73      | 0.3       |            |            |
| Oil and Grease                      |          |           |          |          |            |           |          |           | 2.02      | 2         | 2         | 2         |           |            |            |
| pH                                  | 8.1      | 8.1       | 8.2      | 8.1      | 8.1        | 8.1       | 8        | 8.1       | 8         | 7.9       | 7.9       | 8.2       | 8.1       | 8          | 8.1        |
| pH measured at                      | 23       | 19        | 20       | 21       | 22         | 22        | 21       | 20        | 20        | 19.4      | 20.8      | 20.5      | 19.2      | 20.5       | 22.4       |
| Phosphorus, ortho dissolved         | 0.01     | 0.01      | 0.03     | 0.01     | 0.01       | 0.01      | 0.02     | 0.04      | 0.02      | 0.05      | 0.03      | 0.03      | 0.01      |            |            |
| Phosphorus, total                   |          |           |          |          |            |           |          |           |           |           |           |           |           |            |            |
| Potassium, dissolved                | 0.6      | 0.6       | 0.8      | 1        | 0.6        | 0.5       | 0.5      | 0.7       | 0.7       | 0.6       | 1         | 0.8       | 0.5       |            |            |
| Potassium, total                    |          |           |          |          | 0.6        |           |          |           |           |           |           |           |           |            |            |
| Residue, Filterable (TDS) @180C     | 280      | 150       | 172      | 220      | 230        | 250       | 300      | 150       | 170       | 232       | 266       | 156       | 180       |            |            |
| Residue, Non-Filterable (TSS) @105C |          | 5         | 21       | 940      | 8          | 5         | 23       | 92        | 22        | 119       | 528       | 56        | 5         | 5          | 5          |
| Selenium, dissolved                 | 0.0004   | 0.0003    | 0.0006   | 0.0012   | 0.0005     | 0.0003    | 0.0004   | 0.0006    | 0.0005    | 0.0005    | 0.0007    | 0.0006    | 0.0004    |            |            |
| Selenium, total                     |          |           |          |          | 0.0004     |           |          |           |           |           |           |           |           |            |            |
| Silica, dissolved                   | 7.9      | 5.7       | 6.2      | 6.4      | 7.7        | 7.6       | 7.9      | 6.5       | 6.2       | 7.6       | 8.9       | 6.2       | 7         |            |            |
| Silica, total                       |          |           |          |          | 8.7        |           |          |           |           |           |           |           |           |            |            |
| Silver, dissolved                   |          | 0.00005   |          |          | 0.00005    | 0.00005   | 0.00005  | 0.00005   | 0.00005   | 0.00005   | 0.00053   | 0.00005   | 0.00005   | 0.00005    | 0.00005    |
| Silver, potentially dissolved       |          |           |          |          |            |           |          |           |           | 0.00014   | 0.00039   | 0.00013   |           | 0.00005    | 0.00005    |
| Silver, total                       |          |           |          |          | 0.00037    |           |          |           |           |           |           |           |           |            |            |
| Sodium, dissolved                   | 8.7      | 5.7       | 5.9      | 6.7      | 6.7        | 7.5       | 8.1      | 4.3       | 5         | 6.8       | 8.2       | 4.1       | 5.6       |            |            |
| Sodium, total                       |          |           |          |          | 7.3        |           |          |           |           |           |           |           |           |            |            |
| Sulfate                             | 135      | 72        | 75.9     | 78.3     | 107        | 130       | 145      | 61.5      | 76.5      | 112       | 133       | 61.6      | 87.3      |            |            |
| Sum of Anions                       | 3.9      | 2.4       | 2.69     | 2.8      | 3.4        | 3.9       | 4        | 2.2       | 2.7       | 3.5       | 3.9       | 2.4       | 3         |            |            |
| Sum of Cations                      | 4.1      | 2.5       | 2.74     | 3.06     | 3.3        | 3.7       | 4        | 2.42      | 2.8       | 3.5       | 4.5       | 2.4       | 2.9       |            |            |
| TDS (calculated)                    | 255      | 154       | 170      | 180      | 215        | 246       | 259      | 145       | 172       | 226       | 266       | 151       | 189       |            |            |
| TDS (ratio - measured/calculated)   | 1.1      | 0.97      | 1.01     | 1.22     | 1.07       | 1.02      | 1.16     | 1.03      | 0.99      | 1.03      | 1         | 1.03      | 0.95      |            |            |
| Thallium, dissolved                 |          | 0.0001    |          | 0.0001   | 0.0001     | 0.0001    | 0.0001   | 0.0001    | 0.0001    | 0.0001    | 0.0002    | 0.0001    | 0.0001    |            |            |
| Thallium, total                     |          |           |          |          | 0.0001     |           |          |           |           |           |           |           |           |            |            |
| Total Alkalinity                    | 53       | 46        | 53       | 56       | 59         | 57        | 44       | 45        | 55.5      | 56.3      | 56        | 55.9      | 55.8      |            |            |
| Uranium, dissolved                  | 0.0004   | 0.0002    | 0.0003   | 0.0003   | 0.0003     | 0.0003    | 0.0002   | 0.0002    | 0.0002    | 0.0002    | 0.0005    | 0.0002    | 0.0003    |            |            |
| Uranium, total                      |          |           |          |          | 0.0004     |           |          |           |           |           |           |           |           |            |            |
| Vanadium, dissolved                 | 0.007    | 0.005     |          |          | 0.005      | 0.005     | 0.005    | 0.005     | 0.005     | 0.005     | 0.01      | 0.005     | 0.005     |            |            |
| Vanadium, total                     |          |           |          |          | 0.005      |           |          |           |           |           |           |           |           |            |            |
| Zinc, dissolved                     | 0.47     | 0.89      | 0.03     | 0.02     | 0.42       | 0.35      | 0.37     | 0.06      | 0.18      | 0.33      | 1.65      | 0.04      | 0.17      | 0.373      | 0.161      |
| Zinc, potentially dissolved         |          |           |          |          |            |           |          |           |           | 0.553     | 1.45      | 0.365     |           | 0.399      | 0.34       |
| Zinc, total                         |          |           |          |          | 0.59       |           |          | 1.05      | 0.37      | 0.8       | 6.28      | 0.82      | 0.2       |            |            |

Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.

## Underground Data

| Analyte                             | UG-5 (continued) |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
|-------------------------------------|------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
|                                     | 3/10/2016        | 3/7/2018 | 3/26/2018 | 4/23/2018 | 5/22/2018 | 6/26/2018 | 8/22/2018 | 12/4/2018 | 2/27/2019 | 5/13/2019 | 9/18/2019 | 11/20/2019 | 8/25/2020 | 6/10/2020 | 2/13/2020 |
| Aluminum, dissolved                 | 0.03             | 0.06     | 0.03      | 0.03      | 0.03      | 0.03      | 0.03      | 0.06      | 0.06      | 0.05      | 0.05      | 0.05       | 0.05      | 0.05      | 0.05      |
| Aluminum, total                     | 0.04             | 0.1      | 0.03      | 0.04      | 0.52      | 0.11      | 0.09      |           |           |           |           |            |           |           |           |
| Antimony, dissolved                 | 0.0014           | 0.0012   | 0.0014    | 0.0032    | 0.0013    | 0.0015    | 0.0008    | 0.0018    | 0.0014    | 0.0009    | 0.0008    | 0.0008     | 0.0007    | 0.0009    | 0.0007    |
| Antimony, total                     |                  | 0.0014   | 0.0014    | 0.0036    | 0.0025    | 0.0017    | 0.0009    |           |           |           |           |            |           |           |           |
| Arsenic, dissolved                  | 0.0037           | 0.0029   | 0.0034    | 0.002     | 0.003     | 0.0022    | 0.0019    | 0.004     | 0.004     | 0.0006    | 0.0022    | 0.0015     | 0.0023    | 0.0021    | 0.0021    |
| Arsenic, total                      |                  | 0.0043   | 0.0039    | 0.005     | 0.0068    | 0.0033    | 0.0034    |           |           |           |           |            |           |           |           |
| Arsenic, total recoverable          | 0.0042           |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Barium, dissolved                   | 0.028            | 0.03     | 0.034     | 0.041     | 0.027     | 0.03      | 0.027     | 0.052     | 0.058     | 0.032     | 0.03      | 0.027      | 0.031     | 0.027     | 0.024     |
| Barium, total                       |                  | 0.028    | 0.031     | 0.041     | 0.045     | 0.032     | 0.032     |           |           |           |           |            |           |           |           |
| Beryllium, dissolved                | 0.00005          | 0.00005  | 0.00005   | 0.00005   | 0.00005   | 0.00005   | 0.00005   | 0.0001    | 0.00016   | 0.00008   | 0.00008   | 0.00008    | 0.00008   | 0.00008   | 0.00008   |
| Beryllium, total                    |                  | 0.00005  | 0.00005   | 0.00014   | 0.00005   | 0.00005   | 0.00005   |           |           |           |           |            |           |           |           |
| Bicarbonate as CaCO3                | 57.2             | 57.7     | 59.3      | 68.6      | 52.1      | 57.4      | 53.9      | 107.2     |           | 51.5      | 54.6      | 53.5       | 55.6      | 55.6      | 49.7      |
| Biochemical Oxygen Demand (5 day)   |                  | 2        | 8         | 5         | 2         | 2         | 2         |           |           |           |           | 0.02       |           |           |           |
| Boron, dissolved                    | 0.01             | 0.03     | 0.02      | 0.02      | 0.01      | 0.01      | 0.01      | 0.02      | 0.02      | 0.02      | 0.02      |            | 0.02      | 0.02      | 0.02      |
| Boron, total                        |                  | 0.01     | 0.01      | 0.01      | 0.01      | 0.01      | 0.02      |           |           |           |           |            |           |           |           |
| Cadmium, dissolved                  | 0.0005           | 0.0017   | 0.0004    | 0.0022    | 0.0004    | 0.0006    | 0.0015    | 0.00268   | 0.00232   | 0.00185   | 0.00079   | 0.00111    | 0.00057   | 0.00024   | 0.00078   |
| Cadmium, potentially dissolved      | 0.001            | 0.0006   |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Cadmium, total                      |                  | 0.0006   | 0.0018    | 0.0005    | 0.0025    | 0.001     | 0.0006    | 0.0015    |           |           |           |            |           |           |           |
| Calcium, dissolved                  | 61               | 66.3     | 75.9      | 94.5      | 37.8      | 46        | 46.5      | 116       | 135.6     | 55        | 48.5      | 59.3       | 52.9      | 38.4      | 67.9      |
| Calcium, total                      |                  | 72.6     | 71.3      | 95.3      | 41        | 46        | 47.3      |           |           |           |           |            |           |           |           |
| Carbon, dissolved organic (DOC)     |                  | 12       | 8         | 1         | 3.3       | 3.8       | 1         |           |           |           |           |            |           |           |           |
| Carbonate as CaCO3                  | 2                | 2        | 2         | 2         | 2         | 2         | 2         | 4         |           | 10        | 2         | 2          | 2         | 2         | 2         |
| Cation-Anion Balance                | -8.9             | -1.2     | 2.2       | -7.3      | 0         | -1.8      | 0         | 0         |           | 1.5       | 1.8       | 0          | 6.7       | 2.2       | -2.4      |
| Chemical Oxygen Demand              |                  | 10       | 83        | 10        | 10        | 10        | 10        |           |           |           |           |            |           |           |           |
| Chloride                            | 0.5              | 1        | 1.4       | 1.4       | 0.7       | 0.7       | 0.5       | 1.4       | 1         | 0.5       | 0.5       | 0.7        | 0.7       | 0.5       | 0.8       |
| Chromium, dissolved                 | 0.0005           | 0.0005   | 0.0005    | 0.0005    | 0.0005    | 0.0005    | 0.0005    | 0.001     | 0.001     | 0.0005    | 0.0005    | 0.0005     | 0.0026    | 0.0005    | 0.0005    |
| Chromium, total                     |                  | 0.0005   | 0.0005    | 0.0005    | 0.0005    | 0.0009    | 0.0005    |           |           |           |           |            |           |           |           |
| Chromium, total recoverable         |                  |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Chromium, Trivalent Dissolved       | 0.005            |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Conductivity @25C                   | 357              | 428      | 427       | 534       | 235       | 288       | 292       | 708       |           | 335       | 304       | 359        | 291       | 227       | 403       |
| Copper, dissolved                   | 0.0005           | 0.0004   | 0.0039    | 0.0094    | 0.0021    | 0.0034    | 0.001     | 0.0028    | 0.0016    | 0.0034    | 0.0008    | 0.0008     | 0.002     | 0.0009    | 0.0008    |
| Copper, potentially dissolved       | 0.0006           |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Copper, total                       | 0.01             | 0.0011   | 0.0011    | 0.0264    | 0.0056    | 0.0028    | 0.0017    |           |           |           |           |            |           |           |           |
| Cyanide, total                      | 0.003            | 0.003    | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     | 0.006     | 0.006     | 0.003     | 0.003     | 0.003      | 0.003     | 0.003     | 0.003     |
| Cyanide, WAD                        | 0.003            | 0.003    | 0.003     | 0.003     | 0.003     | 0.003     | 0.003     |           |           |           |           |            |           |           |           |
| Dissolved Chromium, Hexavalent      | 0.005            |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Fluoride                            | 0.28             | 0.22     | 0.28      | 0.24      | 0.14      | 0.18      | 0.21      | 0.62      | 0.6       | 0.2       | 0.2       | 0.3        | 0.2       | 0.1       | 0.3       |
| Hardness as CaCO3 (dissolved)       | 162              | 175      | 202       | 254       | 101       | 123       | 124       | 308       | 360       | 146       | 128       | 157        | 140       | 103       | 179       |
| Hydroxide as CaCO3                  | 2                | 2        | 2         | 2         | 2         | 2         | 2         | 4         |           | 10        | 2         | 2          | 2         | 2         | 2         |
| Iron, dissolved                     | 0.02             | 0.02     | 0.08      | 0.03      | 0.08      | 0.02      | 0.02      | 0.04      | 0.04      | 0.03      | 0.03      | 0.03       | 0.06      | 0.06      | 0.03      |
| Iron, total                         | 0.07             | 0.18     | 0.03      | 0.32      | 0.73      | 0.49      | 0.16      |           |           |           |           |            |           |           |           |
| Iron, total recoverable             | 0.06             | 0.18     | 0.03      | 0.35      | 0.63      | 0.53      | 0.14      |           |           |           |           |            |           |           |           |
| Lead, dissolved                     | 0.0009           | 0.0026   | 0.0056    | 0.0048    | 0.0117    | 0.0271    | 0.0008    | 0.0006    | 0.0006    | 0.0008    | 0.0062    | 0.001      | 0.0009    | 0.0044    | 0.0001    |
| Lead, potentially dissolved         | 0.0041           |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Lead, total                         | 0.0043           | 0.0095   | 0.0059    | 0.0285    | 0.0626    | 0.0499    | 0.0077    |           |           |           |           |            |           |           |           |
| Magnesium, dissolved                | 2.3              | 2.4      | 3.1       | 4.5       | 1.6       | 2         | 1.9       | 4.6       | 5.2       | 2.1       | 1.7       | 2.1        | 1.9       | 1.7       | 2.4       |
| Magnesium, total                    |                  | 2.5      | 2.8       | 4.6       | 1.8       | 2.1       | 1.8       |           |           |           |           |            |           |           |           |
| Manganese, dissolved                | 0.384            | 2.04     | 0.536     | 1.58      | 0.264     | 0.385     | 0.83      | 1.77      | 1.96      | 0.49      | 0.96      | 0.43       | 0.73      | 0.18      | 1.1       |
| Manganese, potentially dissolved    | 0.485            |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Manganese, total                    |                  | 2.62     | 0.546     | 1.59      | 1.15      | 0.84      | 1.55      |           |           |           |           |            |           |           |           |
| Mercury, dissolved                  | 0.0002           | 0.0002   | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0004    | 0.0004    | 0.0002    | 0.0002    | 0.0002     | 0.0002    | 0.0002    | 0.0002    |
| Mercury, total                      | 0.0002           | 0.0002   | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    |           |           |           |           |            |           |           |           |
| Molybdenum, dissolved               | 0.0044           | 0.0027   | 0.0053    | 0.0075    | 0.0035    | 0.0018    | 0.001     | 0.003     | 0.0044    | 0.0016    | 0.0027    | 0.0006     | 0.0033    | 0.0075    | 0.0029    |
| Molybdenum, total                   |                  | 0.0051   | 0.0056    | 0.0084    | 0.0058    | 0.0049    | 0.0036    |           |           |           |           |            |           |           |           |
| Nickel, dissolved                   | 0.008            | 0.008    | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     | 0.016     | 0.016     | 0.008     | 0.008     | 0.008      | 0.008     | 0.008     | 0.008     |
| Nickel, total                       |                  | 0.008    | 0.008     | 0.008     | 0.008     | 0.008     | 0.008     |           |           |           |           |            |           |           |           |
| Nitrate/Nitrite as N                | 0.22             | 0.11     | 0.02      | 0.14      | 0.25      | 0.21      | 0.19      | 0.32      | 0.26      | 0.25      | 0.14      | 0.11       | 0.14      | 0.2       | 0.11      |
| Oil and Grease                      | 2.1              |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| pH                                  | 8.1              | 8.2      | 8         | 8.1       | 8.1       | 8.1       | 7.9       | 16.2      |           | 8.3       | 8.1       | 8.2        | 8.1       | 8.1       | 8         |
| pH measured at                      | 23.1             | 21.9     | 21.2      | 20        | 19.4      | 20.4      | 21.1      | 42.2      | 24.3      | 21.3      | 21.3      | 21.2       | 20.7      | 20.1      | 20        |
| Phosphorus, ortho dissolved         | 0.02             | 0.02     | 0.2       | 0.02      | 0.02      | 0.02      | 0.02      | 0.04      | 0.04      | 0.01      | 0.02      | 0.01       |           |           | 0.01      |
| Phosphorus, total                   |                  |          |           |           |           |           |           |           |           |           |           |            | 0.01      | 0.01      |           |
| Potassium, dissolved                | 0.4              | 0.5      | 3.2       | 1.7       | 0.4       | 0.6       | 0.2       | 0.8       | 0.8       | 0.4       | 0.4       | 0.3        | 0.3       | 0.3       | 0.3       |
| Potassium, total                    |                  | 0.6      | 1.9       | 1.7       | 0.5       | 0.7       | 0.2       |           |           |           |           |            |           |           |           |
| Residue, Filterable (TDS) @180C     | 246              | 292      | 292       | 364       | 160       | 184       | 188       | 480       |           | 240       | 190       | 236        | 186       | 152       | 270       |
| Residue, Non-Filterable (TSS) @105C | 5                | 5        | 5         | 5         | 8         | 5         | 5         | 10        |           | 5         | 5         | 5          | 5         | 12        | 5         |
| Selenium, dissolved                 | 0.0004           | 0.0003   | 0.0004    | 0.0003    | 0.0004    | 0.0003    | 0.0004    | 0.0008    | 0.0008    | 0.0005    | 0.0004    | 0.0004     | 0.0004    | 0.0003    | 0.0004    |
| Selenium, total                     |                  | 0.0003   | 0.0003    | 0.0003    | 0.0004    | 0.0003    | 0.0004    |           |           |           |           |            |           |           |           |
| Silica, dissolved                   | 7.4              | 7.4      | 7.9       | 8.9       | 6.3       | 7.1       | 7         | 15.6      | 15.6      | 7.7       | 7.3       | 8.1        | 6.7       | 6.5       | 8         |
| Silica, total                       |                  | 7.4      | 7.1       | 8.9       | 8.6       | 7.3       | 7.3       |           |           |           |           |            |           |           |           |
| Silver, dissolved                   | 0.00005          | 0.00005  | 0.00005   | 0.00005   | 0.00005   | 0.0001    | 0.00005   | 0.0002    | 0.0002    | 0.0001    | 0.0001    | 0.0001     | 0.0001    | 0.0001    | 0.0001    |
| Silver, potentially dissolved       | 0.00005          |          |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Silver, total                       |                  | 0.0002   | 0.00012   | 0.00015   | 0.00081   | 0.00041   | 0.00008   |           |           |           |           |            |           |           |           |
| Sodium, dissolved                   | 7.3              | 8.3      | 8.7       | 8.7       | 4.3       | 5.1       | 5.7       | 14.8      | 16.6      | 6.6       | 6         | 7.4        | 5.9       | 3.8       | 8.6       |
| Sodium, total                       |                  | 8.9      | 8.3       | 8.7       | 4.6       | 5         | 5.7       |           |           |           |           |            |           |           |           |
| Sulfate                             | 147              | 143      | 148       | 247       | 56        | 74.7      | 81.4      | 230       | 288       | 103       | 81.1      | 115        | 79.8      | 53.2      | 155       |
| Sum of Anions                       | 4.3              | 4.2      | 4.4       | 6.6       | 2.3       | 2.8       | 2.8       | 7         | 3         | 3.2       | 2.8       | 3.5        | 2.8       | 2.2       | 4.3       |
| Sum of Cations                      | 3.6              | 4.1      | 4.6       | 5.7       | 2.3       | 2.7       | 2.8       | 7         | 4.1       | 3.3       | 2.9       | 3.5        | 3.2       | 2.3       | 4.1       |
| TDS (calculated)                    | 263              | 269      | 288       | 413       | 141       | 174       | 179       | 456       | 235       | 210       | 182       | 229        | 186       | 140       | 277       |
| TDS (ratio - measured/calculated)   | 0.94             | 1.09     | 1.01      | 0.88      | 1.13      | 1.06      | 1.05      | 2.1       |           | 1.14      | 1.04      | 1.03       | 1         | 1.09      | 0.97      |
| Thallium, dissolved                 | 0.0001           | 0.0001   | 0.0001    | 0.0001    | 0.0001    | 0.0001    |           |           |           |           |           |            |           |           |           |

Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.

### Underground Data

| Analyte                                   | UG-5 (continued)<br>12/17/2020 |
|-------------------------------------------|--------------------------------|
| Aluminum, dissolved                       | 0.05                           |
| Aluminum, total                           |                                |
| Antimony, dissolved                       | 0.00122                        |
| Antimony, total                           |                                |
| Arsenic, dissolved                        | 0.00238                        |
| Arsenic, total                            |                                |
| Arsenic, total recoverable                |                                |
| Barium, dissolved                         | 0.0287                         |
| Barium, total                             |                                |
| Beryllium, dissolved                      | 0.00008                        |
| Beryllium, total                          |                                |
| Bicarbonate as CaCO <sub>3</sub>          | 50.4                           |
| Biochemical Oxygen Demand (5 day)         |                                |
| Boron, dissolved                          | 0.02                           |
| Boron, total                              |                                |
| Cadmium, dissolved                        | 0.00109                        |
| Cadmium, potentially dissolved            |                                |
| Cadmium, total                            |                                |
| Calcium, dissolved                        | 62.5                           |
| Calcium, total                            |                                |
| Carbon, dissolved organic (DOC)           |                                |
| Carbonate as CaCO <sub>3</sub>            | 2                              |
| Cation-Anion Balance                      | 1.3                            |
| Chemical Oxygen Demand                    |                                |
| Chloride                                  | 0.71                           |
| Chromium, dissolved                       | 0.0005                         |
| Chromium, total                           |                                |
| Chromium, total recoverable               |                                |
| Chromium, Trivalent Dissolved             |                                |
| Conductivity @25C                         | 394                            |
| Copper, dissolved                         | 0.0008                         |
| Copper, potentially dissolved             |                                |
| Copper, total                             |                                |
| Cyanide, total                            |                                |
| Cyanide, WAD                              |                                |
| Dissolved Chromium, Hexavalent            |                                |
| Fluoride                                  | 0.29                           |
| Hardness as CaCO <sub>3</sub> (dissolved) | 166                            |
| Hydroxide as CaCO <sub>3</sub>            | 2                              |
| Iron, dissolved                           | 0.06                           |
| Iron, total                               |                                |
| Iron, total recoverable                   |                                |
| Lead, dissolved                           | 0.00021                        |
| Lead, potentially dissolved               |                                |
| Lead, total                               |                                |
| Magnesium, dissolved                      | 2.4                            |
| Magnesium, total                          |                                |
| Manganese, dissolved                      | 1.34                           |
| Manganese, potentially dissolved          |                                |
| Manganese, total                          |                                |
| Mercury, dissolved                        | 0.0002                         |
| Mercury, total                            |                                |
| Molybdenum, dissolved                     | 0.00357                        |
| Molybdenum, total                         |                                |
| Nickel, dissolved                         | 0.008                          |
| Nickel, total                             |                                |
| Nitrate/Nitrite as N                      | 0.689                          |
| Oil and Grease                            |                                |
| pH                                        | 8                              |
| pH measured at                            | 21.2                           |
| Phosphorus, ortho dissolved               |                                |
| Phosphorus, total                         | 0.01                           |
| Potassium, dissolved                      | 0.43                           |
| Potassium, total                          |                                |
| Residue, Filterable (TDS) @180C           | 260                            |
| Residue, Non-Filterable (TSS) @105C       | 5                              |
| Selenium, dissolved                       | 0.00032                        |
| Selenium, total                           |                                |
| Silica, dissolved                         | 7.7                            |
| Silica, total                             |                                |
| Silver, dissolved                         | 0.0001                         |
| Silver, potentially dissolved             |                                |
| Silver, total                             |                                |
| Sodium, dissolved                         | 8.03                           |
| Sodium, total                             |                                |
| Sulfate                                   | 126                            |
| Sum of Anions                             | 3.7                            |
| Sum of Cations                            | 3.8                            |
| TDS (calculated)                          | 243                            |
| TDS (ratio - measured/calculated)         | 1.07                           |
| Thallium, dissolved                       | 0.0001                         |
| Thallium, total                           |                                |
| Total Alkalinity                          | 50.4                           |
| Uranium, dissolved                        | 0.00025                        |
| Uranium, total                            |                                |
| Vanadium, dissolved                       | 0.01                           |
| Vanadium, total                           |                                |
| Zinc, dissolved                           | 0.399                          |
| Zinc, potentially dissolved               |                                |
| Zinc, total                               |                                |

Notes:

Blank indicates analyses not performed.

All non-detects included at MDL value.

### Underground Data

| Analyte                                   | UG-8      |            | UG-10      |
|-------------------------------------------|-----------|------------|------------|
|                                           | 6/10/2020 | 12/17/2020 | 12/17/2020 |
| Aluminum, dissolved                       | 0.05      | 0.05       | 0.05       |
| Aluminum, total                           |           |            |            |
| Antimony, dissolved                       | 0.0013    | 0.00178    | 0.0122     |
| Antimony, total                           |           |            |            |
| Arsenic, dissolved                        | 0.0035    | 0.00395    | 0.00185    |
| Arsenic, total                            |           |            |            |
| Arsenic, total recoverable                |           |            |            |
| Barium, dissolved                         | 0.027     | 0.0285     | 0.0572     |
| Barium, total                             |           |            |            |
| Beryllium, dissolved                      | 0.00008   | 0.00008    | 0.00008    |
| Beryllium, total                          |           |            |            |
| Bicarbonate as CaCO <sub>3</sub>          | 62.8      | 58.2       | 47.2       |
| Biochemical Oxygen Demand (5 day)         |           |            |            |
| Boron, dissolved                          | 0.03      | 0.028      | 0.06       |
| Boron, total                              |           |            |            |
| Cadmium, dissolved                        | 0.00372   | 0.00586    | 0.000749   |
| Cadmium, potentially dissolved            |           |            |            |
| Cadmium, total                            |           |            |            |
| Calcium, dissolved                        | 56.6      | 65         | 77         |
| Calcium, total                            |           |            |            |
| Carbon, dissolved organic (DOC)           |           |            |            |
| Carbonate as CaCO <sub>3</sub>            | 2         | 2          | 2          |
| Cation-Anion Balance                      | 2.4       | 5.3        | 18.2       |
| Chemical Oxygen Demand                    |           |            |            |
| Chloride                                  | 1.4       | 1.69       | 3.92       |
| Chromium, dissolved                       | 0.0005    | 0.0005     | 0.0005     |
| Chromium, total                           |           |            |            |
| Chromium, total recoverable               |           |            |            |
| Chromium, Trivalent Dissolved             |           |            |            |
| Conductivity @25C                         | 395       | 466        | 565        |
| Copper, dissolved                         | 0.0008    | 0.0008     | 0.00219    |
| Copper, potentially dissolved             |           |            |            |
| Copper, total                             |           |            |            |
| Cyanide, total                            | 0.003     |            |            |
| Cyanide, WAD                              |           |            |            |
| Dissolved Chromium, Hexavalent            |           |            |            |
| Fluoride                                  | 0.3       | 0.46       | 0.24       |
| Hardness as CaCO <sub>3</sub> (dissolved) | 156       | 180        | 210        |
| Hydroxide as CaCO <sub>3</sub>            | 2         | 2          | 2          |
| Iron, dissolved                           | 0.06      | 0.06       | 0.06       |
| Iron, total                               |           |            |            |
| Iron, total recoverable                   |           |            |            |
| Lead, dissolved                           | 0.0002    | 0.00038    | 0.00533    |
| Lead, potentially dissolved               |           |            |            |
| Lead, total                               |           |            |            |
| Magnesium, dissolved                      | 3.6       | 4.39       | 4.21       |
| Magnesium, total                          |           |            |            |
| Manganese, dissolved                      | 7.31      | 9.92       | 0.035      |
| Manganese, potentially dissolved          |           |            |            |
| Manganese, total                          |           |            |            |
| Mercury, dissolved                        | 0.0002    | 0.0002     | 0.0002     |
| Mercury, total                            |           |            |            |
| Molybdenum, dissolved                     | 0.0042    | 0.00463    | 0.00791    |
| Molybdenum, total                         |           |            |            |
| Nickel, dissolved                         | 0.008     | 0.008      | 0.008      |
| Nickel, total                             |           |            |            |
| Nitrate/Nitrite as N                      | 0.09      | 1.2        | 21.9       |
| Oil and Grease                            |           |            |            |
| pH                                        | 8         | 8          | 8          |
| pH measured at                            | 20.2      | 21         | 21.1       |
| Phosphorus, ortho dissolved               |           |            |            |
| Phosphorus, total                         | 0.01      | 0.01       | 0.01       |
| Potassium, dissolved                      | 0.6       | 0.71       | 1.68       |
| Potassium, total                          |           |            |            |
| Residue, Filterable (TDS) @180C           | 260       | 308        | 392        |
| Residue, Non-Filterable (TSS) @105C       | 5         | 9          | 5          |
| Selenium, dissolved                       | 0.0002    | 0.00024    | 0.00069    |
| Selenium, total                           |           |            |            |
| Silica, dissolved                         | 7.9       | 8.5        | 8.5        |
| Silica, total                             |           |            |            |
| Silver, dissolved                         | 0.0001    | 0.0001     | 0.0001     |
| Silver, potentially dissolved             |           |            |            |
| Silver, total                             |           |            |            |
| Sodium, dissolved                         | 12.6      | 13.4       | 20.6       |
| Sodium, total                             |           |            |            |
| Sulfate                                   | 134       | 154        | 120        |
| Sum of Anions                             | 4.1       | 4.5        | 3.6        |
| Sum of Cations                            | 4.3       | 5          | 5.2        |
| TDS (calculated)                          | 266       | 298        | 267        |
| TDS (ratio - measured/calculated)         | 0.98      | 1.03       | 1.47       |
| Thallium, dissolved                       | 0.0001    | 0.0001     | 0.0001     |
| Thallium, total                           |           |            |            |
| Total Alkalinity                          | 62.8      | 58.2       | 47.2       |
| Uranium, dissolved                        | 0.0004    | 0.00045    | 0.00056    |
| Uranium, total                            |           |            |            |
| Vanadium, dissolved                       | 0.01      | 0.01       | 0.01       |
| Vanadium, total                           |           |            |            |
| Zinc, dissolved                           | 1.62      | 2.26       | 0.138      |
| Zinc, potentially dissolved               |           |            |            |
| Zinc, total                               |           |            |            |

Notes:

Blank indicates analyses not performed.  
All non-detects included at MDL value.