



## Water Quality 2016

### 2.1.2 SUMMARY OF MAJOR CHEMICALS, MICROBIOLOGICAL, AND PHYSICAL PARAMETERS OF EDMONTON DRINKING WATER

March 2016

| Parameter                      | Unit                    | Monthly Count | Monthly Average | YTD Median | YTD Min | YTD Max | YTD Count |
|--------------------------------|-------------------------|---------------|-----------------|------------|---------|---------|-----------|
| Alkalinity, total              | mg CaCO <sub>3</sub> /L | 62            | 113             | 117        | 104     | 127     | 182       |
| Aluminum                       | mg/L                    | 2             | 0.068           | 0.073      | 0.053   | 0.080   | 6         |
| Arsenic                        | mg/L                    | 2             | <0.0002         | <0.0002    | <0.0002 | 0.0004  | 6         |
| Bromate, dissolved             | mg/L                    | 18            | <0.005          | <0.005     | <0.005  | <0.005  | 48        |
| Bromodichloromethane           | ug/L                    | 61            | 0.5             | <0.5       | <0.5    | 0.9     | 181       |
| Cadmium                        | mg/L                    | 2             | <0.0001         | <0.0001    | <0.0001 | <0.0001 | 6         |
| Chlorate, dissolved            | mg/L                    | 18            | 0.13            | 0.12       | 0.08    | 0.19    | 48        |
| Chloride, dissolved            | mg/L                    | 18            | 5.22            | 4.91       | 3.94    | 9.25    | 48        |
| Chlorine, total                | mg/L                    | 62            | 2.02            | 2.02       | 1.90    | 2.30    | 182       |
| Chlorite, dissolved            | mg/L                    | 18            | <0.005          | <0.005     | <0.005  | <0.005  | 48        |
| Chromium                       | mg/L                    | 2             | <0.0002         | <0.0002    | <0.0002 | <0.0002 | 6         |
| Colour                         | TCU                     | 62            | 1               | <1         | <1      | 2       | 182       |
| Conductivity                   | uS/cm                   | 10            | 369             | 359        | 333     | 381     | 26        |
| Copper                         | mg/L                    | 2             | <0.002          | <0.002     | <0.002  | <0.002  | 6         |
| Cryptosporidium                | oocysts/100L            | 2             | <0.1            | <0.1       | <0.1    | <0.1    | 6         |
| Fluoride, dissolved            | mg/L                    | 62            | 0.67            | 0.67       | 0.61    | 0.80    | 182       |
| Giardia                        | cysts/100L              | 2             | <0.1            | <0.1       | <0.1    | <0.1    | 6         |
| Haloacetic Acids, total (HAA5) | ug/L                    | 2             | 11.3            | 12.3       | 11.1    | 14.7    | 6         |
| Hardness, Calcium              | mg CaCO <sub>3</sub> /L | 62            | 115             | 116        | 106     | 131     | 182       |
| Hardness, total                | mg CaCO <sub>3</sub> /L | 62            | 171             | 170        | 148     | 191     | 182       |
| Iron                           | mg/L                    | 2             | <0.002          | <0.002     | <0.002  | 0.002   | 6         |
| Lead                           | mg/L                    | 2             | <0.0001         | <0.0001    | <0.0001 | <0.0001 | 6         |
| Manganese                      | mg/L                    | 2             | <0.002          | <0.002     | <0.002  | <0.002  | 6         |
| Mercury                        | mg/L                    | 2             | <0.0001         | <0.0001    | <0.0001 | <0.0001 | 6         |
| NDMA                           | ng/L                    | 2             | 0.8             | 0.9        | 0.8     | 5.2     | 6         |
| Nitrate (as N), dissolved      | mg/L                    | 18            | 0.07            | 0.08       | 0.05    | 0.10    | 48        |
| Nitrite (as N), dissolved      | mg/L                    | 18            | <0.01           | <0.01      | <0.01   | <0.01   | 48        |
| pH                             | N/A                     | 62            | 7.8             | 7.9        | 7.1     | 8.1     | 182       |
| Potassium                      | mg/L                    | 2             | 0.55            | 0.56       | 0.54    | 0.58    | 6         |
| Sodium                         | mg/L                    | 2             | 6.21            | 6.12       | 5.74    | 6.30    | 6         |
| Sulphate, dissolved            | mg/L                    | 18            | 66.3            | 56.5       | 54.0    | 75.7    | 48        |
| Total Dissolved Solids         | mg/L                    | 2             | 224             | 218        | 205     | 232     | 6         |
| Total Organic Carbon           | mg/L C                  | 10            | 1.1             | 1.1        | 0.6     | 1.5     | 26        |
| Trihalomethanes                | mg/L                    | 61            | 0.005           | 0.006      | 0.003   | 0.009   | 181       |
| Turbidity                      | NTU                     | 62            | 0.07            | 0.07       | 0.05    | 0.12    | 182       |
| Uranium                        | mg/L                    | 2             | <0.0005         | <0.0005    | <0.0005 | <0.0005 | 6         |
| Zinc                           | mg/L                    | 2             | <0.002          | <0.002     | <0.002  | 0.005   | 6         |

#### Bacteriological Data

|                  |           |    |        |        |        |     |
|------------------|-----------|----|--------|--------|--------|-----|
| Coliforms, total | PA/100 mL | 62 | Absent | Absent | Absent | 184 |
| E. coli          | PA/100 mL | 62 | Absent | Absent | Absent | 184 |