

**2.1.2 SUMMARY OF MAJOR CHEMICALS, MICROBIOLOGICAL, AND PHYSICAL
PARAMETERS OF EDMONTON DRINKING WATER PRODUCED
AT WATER TREATMENT PLANTS**

October 2023

| Parameter | Unit | Monthly Count | Monthly Average | YTD Median | YTD Min | YTD Max | YTD Count |
|-----------------------------|-------------------------|------------------|--------------------|---------------|------------|------------|--------------|
| Alkalinity Total | mg CaCO ₃ /L | 62 | 117 | 116 | 89 | 162 | 608 |
| Aluminum | mg/L | 2 | 0.069 | 0.073 | 0.026 | 0.204 | 20 |
| Arsenic | mg/L | 2 | 0.0003 | <0.0002 | <0.0002 | 0.0003 | 20 |
| Bromate Dissolved | mg/L | 10 | <0.005 | <0.005 | <0.005 | <0.005 | 88 |
| Bromodichloromethane | µg/L | 62 | <0.5 | <0.5 | <0.5 | <0.5 | 608 |
| Cadmium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 20 |
| Calcium Hardness | mg/L CaCO ₃ | 62 | 110 | 112 | 87 | 150 | 608 |
| Chlorate Dissolved | mg/L | 10 | 0.146 | 0.130 | 0.060 | 0.270 | 88 |
| Chloride Dissolved | mg/L | 10 | 6.31 | 5.92 | 4.44 | 11.80 | 88 |
| Chlorite Dissolved | mg/L | 10 | <0.01 | <0.01 | <0.01 | <0.01 | 88 |
| Chromium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 20 |
| Colour | TCU | 62 | 0.9 | 0.8 | <0.5 | 2.0 | 608 |
| Conductivity | µS/cm | 10 | 364 | 372 | 335 | 458 | 88 |
| Copper | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 20 |
| Cryptosporidium | oocysts/100L | 3 | <0.1 | <0.1 | <0.1 | <0.1 | 23 |
| Fluoride | mg/L | 62 | 0.67 | 0.69 | 0.58 | 0.78 | 608 |
| Giardia | cysts/100L | 3 | <0.1 | <0.1 | <0.1 | <0.1 | 23 |
| Iron | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 20 |
| Lead | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 20 |
| Manganese | mg/L | 2 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 20 |
| Mercury | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 20 |
| Nitrate (as N) Dissolved | mg/L | 10 | 0.016 | 0.040 | <0.010 | 0.149 | 88 |
| Nitrite (as N) Dissolved | mg/L | 10 | <0.01 | <0.01 | <0.01 | <0.01 | 88 |
| pH | N/A | 62 | 7.9 | 7.8 | 7.1 | 8.4 | 608 |
| Potassium | mg/L | 2 | 0.80 | 0.80 | 0.70 | 0.90 | 20 |
| Sodium | mg/L | 2 | 9.74 | 8.85 | 5.90 | 19.20 | 20 |
| Sulphate Dissolved | mg/L | 10 | 61.1 | 64.2 | 52.8 | 115.0 | 88 |
| Total Chlorine | N/A | 62 | 2.33 | 2.08 | 1.79 | 2.60 | 610 |
| Total Dissolved Solids | mg/L | 2 | 210 | 216 | 190 | 252 | 20 |
| Total Hardness | mg/L CaCO ₃ | 62 | 168 | 169 | 101 | 198 | 608 |
| Total Organic Carbon | mg/L C | 10 | 1.3 | 1.4 | <0.6 | 3.2 | 88 |
| Trihalomethanes | mg/L | 62 | 0.017 | 0.015 | 0.002 | 0.038 | 608 |
| Turbidity | NTU | 62 | 0.06 | 0.05 | <0.04 | 0.10 | 610 |
| Uranium | mg/L | 2 | <0.0005 | <0.0005 | <0.0005 | 0.0006 | 20 |
| Zinc | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 20 |
| Bacteriological Data | | | | | | | |
| Coliforms, total | PA/100mL | 62 | Absent | Absent | Absent | Absent | 610 |
| E. coli | PA/100mL | 62 | Absent | Absent | Absent | Absent | 610 |