

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

**September 2024**

<b>Parameter</b>	<b>Unit</b>	<b>Monthly Count</b>	<b>Monthly Average</b>	<b>YTD Median</b>	<b>YTD Min</b>	<b>YTD Max</b>	<b>YTD Count</b>
Alkalinity Total	mg CaCO <sub>3</sub> /L	59	116	118	8	141	543
Aluminum	mg/L	2	0.121	0.047	0.023	0.122	18
Arsenic	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Bromate Dissolved	mg/L	8	<0.005	<0.005	<0.005	<0.005	78
Bromodichloromethane	µg/L	23	1.1	1.1	<0.5	2.6	508
Cadmium	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Calcium Hardness	mg/L CaCO <sub>3</sub>	57	117	116	96	141	533
Chlorate Dissolved	mg/L	8	0.170	0.183	<0.100	0.332	78
Chloride Dissolved	mg/L	8	6.44	6.35	4.78	12.10	78
Chlorite Dissolved	mg/L	8	<0.01	<0.20	<0.20	<0.20	78
Chromium	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Colour	TCU	59	1.0	0.9	<0.5	1.9	543
Conductivity	µS/cm	8	395	402	342	453	78
Copper	mg/L	2	<0.0020	<0.0050	<0.0050	<0.0050	18
Cryptosporidium	oocysts/100L	2	<0.1	<0.1	<0.1	<0.1	14
Fluoride	mg/L	59	0.69	0.68	0.61	0.79	543
Giardia	cysts/100L	2	<0.1	<0.1	<0.1	<0.1	14
Iron	mg/L	2	<0.0050	<0.0050	<0.0050	<0.0050	18
Lead	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Manganese	mg/L	2	<0.0020	<0.0020	<0.0020	<0.0020	18
Mercury	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Nitrate (as N) Dissolved	mg/L	8	0.013	0.040	<0.010	0.170	78
Nitrite (as N) Dissolved	mg/L	8	<0.01	<0.01	<0.01	0.02	78
pH	N/A	59	7.8	7.9	7.5	8.3	544
Potassium	mg/L	2	0.74	0.80	0.70	1.10	18
Sodium	mg/L	2	8.43	11.15	6.80	18.90	18
Sulphate Dissolved	mg/L	8	73.5	73.1	59.5	95.1	78
Total Chlorine	N/A	59	2.27	2.17	1.87	2.40	543
Total Dissolved Solids	mg/L	2	225	233	195	252	18
Total Hardness	mg/L CaCO <sub>3</sub>	57	177	177	145	218	533
Total Organic Carbon	mg/L C	8	1.6	1.4	0.9	2.8	78
Trihalomethanes	mg/L	23	0.025	0.018	0.005	0.040	508
Turbidity	NTU	59	0.05	<0.04	<0.04	0.21	543
Uranium	mg/L	2	<0.0005	<0.0005	<0.0005	0.0006	18
Zinc	mg/L	2	<0.0050	<0.0050	<0.0050	<0.0050	18
<b>Bacteriological Data</b>							
Coliforms, total	PA/100mL	59	Absent	Absent	Absent	Absent	543
E. coli	PA/100mL	59	Absent	Absent	Absent	Absent	543