

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration
AO= Aesthetic Objective.

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

	Units	CDWG		Feb. 25 2015	October 21 2015	May 11 2016	October 12 2016	April 12 2017	Nov 22 2018	Dec 4 2019	Feb 25 2021
Miscellaneous Inorganics											
Fluoride	mg/L	1.5	MAC	0.026	0.03	0.036	0.027	0.039	0.037	<0.05	<0.05
Alkalinity (total as CaCO ₃)	mg/L			76.5	81	83.2	77.1	<0.50	57.8	72	66
Anions											
Dissolved Sulphate	mg/L	500	AO	6.73	6.41	5.74	5.8	8.71	4.1	4.6	4.9
Dissolved Chloride	mg/L	250	AO	2.2	3.1	3.3	4	1.6	3.6	4.2	3.9
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	<0.005
Miscellaneous											
Apparent Colour	Colour Unit			5	5	10	5		15	5	10
Nutrients											
Total Ammonia	mg/L			0.0061	0.03	0.012	0.067	0.021	<0.020	0.05	<0.015
Physical Properties											
Conductivity	µS/cm			166	179	181	176	520	132	160	150
pH	pH	7.0:10.5	AO	7.57	7.77	7.58	7.8	3.27	7.6	7.13	6.26
TDS	mg/L	500	AO	92	112	100	104	90	66	92	68
Turbidity	NTU			2.82	0.89	1.84	2.58	0.68	1.23	4.3	2.6
Microbiological Parameters											
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	118.4	<1	<1.0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	1	40.6	>200.5	7.5	<1.0	0	0
Calculated Parameters											
Total Hardness (CaCO ₃)	mg/L			79.5	88.4	87.9	80	79.4	59.5	74	66.7
Nitrate	mg/L	10	MAC	0.146	0.089	0.106	0.099	0.263	0.054	0.089	0.092
Elements											
Total Mercury	mg/L	0.001	MAC	<0.000010	<0.00001	<0.00001	<0.00001	<0.00001	<0.000002	<0.000002	<0.0000019
Total Metals											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total Antimony	mg/L	0.006	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Arsenic	mg/L	0.01	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Barium	mg/L	1	MAC	0.019	0.0213	0.0212	0.0195	0.0198	0.015	0.0172	0.0169
Total Beryllium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001
Total Bismuth	mg/L			<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
Total Boron	mg/L	5	MAC	<0.050	<0.05	<0.050	<0.050	<0.050	<0.050	<0.05	<0.05
Total Cadmium	mg/L	0.005	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001
Total Cobalt	mg/L			<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00489	0.00752	0.00411	0.00222	0.00271	0.00764	0.00763	0.0151
Total Iron	mg/L	0.3	AO	0.0911	0.108	0.193	0.203	0.0929	1.33	1.03	0.195
Total Lead	mg/L	0.01	MAC	<0.0002	<0.0002	0.00125	<0.0002	<0.0002	0.00044	0.00086	0.00081
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0014	<0.001	0.0019	<0.001	0.0015	0.0053	0.004	0.0055
Total Molybdenum	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Nickel	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011
Total Selenium	mg/L	0.05	MAC	0.00017	0.00014	0.00019	0.00018	0.0002	0.00013	0.00014	0.00014
Total Silicon	mg/L			5.5	5.45	5.61	4.53		4.39	4.95	4.85
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			<0.0722	0.0876	0.0862	0.0801		0.0554	0.0661	0.0649
Total Thallium	mg/L			<0.00005	<0.00005	<0.00005	<0.00005		<0.00001	<0.00001	<0.00001
Total Tin	mg/L			<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Total Titanium	mg/L			<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Total Uranium	mg/L	0.02	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Vanadium	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zinc	mg/L	5	AO	<0.005	0.0067	<0.005	<0.005	<0.005	<0.005	0.0099	0.0186
Total Zirconium	mg/L			<0.0005	<0.0005	<0.0005	<0.0005		<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			25.1	28.3	28	24.8	25.2	18.8	23.6	20.7
Total Magnesium	mg/L			4.09	4.31	4.37	4.38	4	3.05	3.68	3.66
Total Potassium	mg/L			0.173	0.203	0.211	0.188	0.192	0.158	0.163	0.175
Total Sodium	mg/L	200	AO	2.72	3.8	3.14	3.47	2.6	2.33	2.34	2.29
Total Sulphur	mg/L					<3.0	<3.0	<3.0	<3.0	<3	<3.0

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
i = Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	Health Basis of MAC: Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. Other: Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.