

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		September 18 2017	October 25 2018	October 3 2019	October 21 2020	October 21 2021	October 13 2022	October 12 2023	October 2 2024
Miscellaneous Inorganics											
Fluoride	mg/L	1.5	MAC	0.04	0.036	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO)	mg/L			89.8	92.5	87	99	110	110	83	110
Anions											
Dissolved Sulphate	mg/L	500	AO	<1.0	<1.0	<1.0	2.3	1.8	1.4	2.5	<1
Dissolved Chloride	mg/L	250	AO	66	57	53	52	55	53	59	65
Nitrite	mg/L	1	MAC	0.0094	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Miscellaneous											
Apparent Colour	Colour Unit			300	100	200	200	200	150		84
Nutrients											
Total Ammonia	mg/L			0.23	0.24	0.31	0.3	0.29	0.3	0.2	0.29
Physical Properties											
Conductivity	µS/cm			388	371	340	350	370	400	370	450
pH	pH	7.0-10.5	OG	7.61	7.81	7.6	7.1	7.05	7.38	7.3	6.88
TDS	mg/L	500	AO	236	250	220	230	270	270	270	300
Turbidity	NTU			47	28	16	32	35	13	34	20
Microbiological Parameters											
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0
Calculated Parameters											
Total Hardness (CaCO)	mg/L			142	135	130	131	135	145	130	154
Nitrate	mg/L	10	MAC	0.023	<0.020	0.043	0.045	0.037	0.042	0.157	0.052
Elements											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	0.0000023	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Total Metals											
Total Aluminum	mg/L	0.1	OG	0.0037	0.0044	<0.003	<0.003	<0.003	<0.003	<0.003	0.0033
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	0.00046	0.00032	0.00034	0.00039	0.00034	0.00039	0.0033	0.00039
Total Barium	mg/L	1	MAC	0.0329	0.0293	0.0281	0.0293	0.0289	0.034	0.0277	0.0364
Total Beryllium	mg/L			<0.0001	<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	<0.001
Total Boron	mg/L	5	MAC	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050
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	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001
Total Cobalt	mg/L			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00783	0.00126	0.00314	0.00134	0.0124	0.00123	0.0174	0.00118
Total Iron	mg/L	0.3	AO	16.3	8.59	9.25	9.84	9.24	9.61	9.8	10.7
Total Lead	mg/L	0.01	MAC	0.00033	0.00021	<0.0002	0.00026	0.00022	<0.0002	0.00159	<0.0002
Total Manganese	mg/L	0.02 0.12	AO MAC	0.271	0.259	0.254	0.246	0.242	0.263	0.207	0.291
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	<0.001
Total Selenium	mg/L	0.05	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			15.7	14.8	15.2	16.1	15.7	16.7	13.7	16.5
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.0705	0.0675	0.0644	0.0657	0.0696	0.0772	0.0617	0.0763
Total Thallium	mg/L			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Tin	mg/L			<0.005	<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	<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	0.0752	0.0272	0.0139	0.006	0.0243	0.0076	0.0508	0.0073
Total Zirconium	mg/L			0.00015	0.00012	0.00014	0.00017	0.00017	0.00015	0.0001	0.0002
Total Calcium	mg/L			35.8	34.9	33.9	34.1	35.4	37.6	32.8	39.8
Total Magnesium	mg/L			12.8	11.5	10.9	11.2	11.3	12.5	11.8	13.3
Total Potassium	mg/L			0.454	0.418	0.433	0.442	0.466	0.471	0.488	0.524
Total Sodium	mg/L	200	AO	17.2	17.4	17.9	17.5	17.5	18.4	18.9	23.5
Total Sulphur	mg/L			<3.0	<3.0	<3.0	<3	<3	<3	<3	<3.0

Notes below about Iron and Manganese from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#2>

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.
I = Inorganic chemical parameter	Iron (2024)	None	AO: ≤0.1	Naturally occurring (erosion and weathering of rocks and minerals due to geological processes); Released from iron-based drinking water materials or as iron corrosion by-products and in water treatment processes. Human activities such as mine drainage water, acid mine effluents and agricultural runoff.	A guideline value is not necessary as health effects are not of concern at levels found in drinking water and at the level at which the AO is set.	AO is for total iron and is based on minimizing the occurrence of discoloured water and to improve consumer confidence in drinking water quality. Removal of iron also improves the removal of manganese, reducing the health risk associated with this metal.