

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		Sept 18 2017	Oct 25 2018	Oct 3 2019	Oct 21 2020	Oct 21 2021	Oct 13 2022	Oct 12 2023	Oct 2 2024	Nov 11 2025
Miscellaneous Inorganics												
Fluoride	mg/L	1.5	MAC	0.04	0.036	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO ₃)	mg/L			89.8	92.5	87	99	110	110	83	110	90
Anions												
Dissolved Sulphate	mg/L	500	AO	<1.0	<1.0	<1.0	2.3	1.8	1.4	2.5	<1	1.2
Dissolved Chloride	mg/L	250	AO	66	57	53	52	55	53	59	65	72
Nitrite	mg/L	1	MAC	0.0094	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Miscellaneous												
Apparent Colour	Colour Unit			300	100	200	200	200	150		84	210
Nutrients												
Total Ammonia	mg/L			0.23	0.24	0.31	0.3	0.29	0.3	0.2	0.29	0.28
Physical Properties												
Conductivity	µS/cm			388	371	340	350	370	400	370	450	440
pH	pH	7.0-10.5	OG	7.61	7.81	7.6	7.1	7.05	7.38	7.3	6.88	7.31
TDS	mg/L	500	AO	236	250	220	230	270	270	270	300	300
Turbidity	NTU			47	28	16	32	35	13	34	20	41
Microbiological Parameters												
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0	0
Calculated Parameters												
Total Hardness (CaCO ₃)	mg/L			142	135	130	131	135	145	130	154	140
Nitrate	mg/L	10	MAC	0.023	<0.020	0.043	0.045	0.037	0.042	0.157	0.052	0.062
Elements												
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	0.0000023	<0.0000019	<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	<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	<0.0005
Total Arsenic	mg/L	0.01	MAC	0.00046	0.00032	0.00034	0.00039	0.00034	0.00039	0.00033	0.00039	0.00033
Total Barium	mg/L	1	MAC	0.0329	0.0293	0.0281	0.0293	0.0289	0.034	0.0277	0.0364	0.0327
Total Beryllium	mg/L			<0.0001	<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	<0.001
Total Boron	mg/L	5	MAC	<0.050	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<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	<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	<0.001
Total Cobalt	mg/L			<0.0002	<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	0.00244
Total Iron	mg/L	0.3	AO	16.3	8.59	9.25	9.84	9.24	9.61	9.8	10.7	9.17
Total Lead	mg/L	0.01	MAC	0.00033	0.00021	<0.0002	0.00026	0.00022	<0.0002	0.00159	<0.0002	<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	0.238
Total Molybdenum	mg/L			<0.001	<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	<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	<0.0001
Total Silicon	mg/L			15.7	14.8	15.2	16.1	15.7	16.7	13.7	16.5	14.8
Total Silver	mg/L			<0.00002	<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	0.0775
Total Thallium	mg/L			<0.00001	<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	<0.005
Total Titanium	mg/L			<0.005	<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	<0.0001
Total Vanadium	mg/L			<0.005	<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	0.0103
Total Zirconium	mg/L			0.00015	0.00012	0.00014	0.00017	0.00017	0.00015	0.0001	0.0002	0.00014
Total Calcium	mg/L			35.8	34.9	33.9	34.1	35.4	37.6	32.8	39.8	35.7
Total Magnesium	mg/L			12.8	11.5	10.9	11.2	11.3	12.5	11.8	13.3	12.4
Total Potassium	mg/L			0.454	0.418	0.433	0.442	0.466	0.471	0.488	0.524	0.516
Total Sodium	mg/L	200	AO	17.2	17.4	17.9	17.5	17.5	18.4	18.9	23.5	24.9
Total Sulphur	mg/L			<3.0	<3.0	<3.0	<3	<3	<3	<3	<3.0	<3

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.