

CDWG=Canadian Drinking Water Guidelines

AO= Aesthetic Objective

OG= Operational Guidance Value

MAC= Maximum Acceptable Concentration in the CDWG

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

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the CDWG

	Units	CDWG		May 10 2016	May 8 2017	May 7 2018	May 15 2019	May 21 2020	May 6 2021	May 5 2022	May 25 2023	May 16 2024
Miscellaneous Inorganics												
Fluoride	mg/L	1.5	MAC	0.087	0.096	0.09	0.087	0.095	0.075	<0.05	0.09	0.07
Alkalinity (total as CaCO)	mg/L			133	134	124	128	120	130	120	120	130
Anions												
Dissolved Sulphate	mg/L	500	AO	7.98	8.52	9.6	8.7	8.3	8.8	1.1	8.1	7.7
Dissolved Chloride	mg/L	250	AO	65	70	79	84	93	98	78	95	98
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005
Miscellaneous												
Apparent Colour	Colour Unit			10	10	10	<2.0	5	10	<5	<5	15
Nutrients												
Total Ammonia	mg/L			0.0097	0.085	<0.020	<0.015	0.016	<0.015	<0.015	<0.015	<0.015
Physical Properties												
Conductivity	µS/cm			483	480	503	539	540	560	470	580	620
pH	pH	7.0:10.5	AO	8.19	8.23	8.17	8.1	8.16	8.13	7.48	8	8.14
TDS	mg/L	500	AO	264	316	264	290	310	340	300	340	360
Turbidity	NTU			0.2	0.16	0.24	0.39	0.25	0.23	<0.1	0.44	0.28
Microbiological Parameters												
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	0	0	0	0	0	0
Calculated Parameters												
Total Hardness (CaCO)	mg/L			173	221	176	189	184	189	142	201	199
Nitrate	mg/L	10	MAC	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	0.031	<0.02	<0.02
Elements												
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.000003
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	<0.0030
Total Antimony	mg/L	0.006	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.00050
Total Arsenic	mg/L	0.01	MAC	0.00163	0.00192	0.00164	0.0015	0.00164	0.00162	<0.0001	<0.00155	0.00153
Total Barium	mg/L	1	MAC	0.03	0.0349	0.0305	0.0317	0.0324	0.0339	0.0272	0.0355	0.0344
Total Beryllium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Total Bismuth	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Total Boron	mg/L	5	MAC	0.052	0.064	0.064	0.064	0.069	0.074	<0.05	0.085	0.089
Total Cadmium	mg/L	0.005	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Total Cobalt	mg/L			<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020
Total Copper	mg/L	1	AO	0.00237	0.00616	0.00523	0.00437	0.00311	0.00286	0.00518	0.00337	0.00572
Total Iron	mg/L	0.3	AO	0.0148	0.0167	0.0117	0.0201	0.0159	0.0151	0.0383	0.0083	0.0198
Total Lead	mg/L	0.01	MAC	<0.0002	<0.0002	<0.0002	0.00052	0.00024	0.00021	0.00078	0.00022	0.00038
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0174	0.0084	0.0095	0.0168	0.0106	0.0141	0.0018	0.0284	0.0124
Total Molybdenum	mg/L			<0.001	0.0012	<0.001	<0.001	<0.001	0.0011	<0.001	0.001	<0.0010
Total Nickel	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Total Selenium	mg/L	0.05	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Total Silicon	mg/L			7.4	9.3	7.25	6.94	7.11	7	14.1	7.16	6.95
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000020
Total Strontium	mg/L			0.359	0.396	0.389	0.348	0.387	0.399	0.0737	0.427	0.399
Total Thallium	mg/L			<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000010
Total Tin	mg/L			<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050
Total Titanium	mg/L			<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050
Total Uranium	mg/L	0.02	MAC	0.00035	0.00039	0.00032	0.00032	0.00034	0.00035	<0.0001	0.00032	0.00033
Total Vanadium	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050
Total Zinc	mg/L	5	AO	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0073	<0.005	<0.0050
Total Zirconium	mg/L			<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Total Calcium	mg/L			43	56.5	44.7	48.4	47.5	47.8	36.7	50.9	51.5
Total Magnesium	mg/L			15.9	19.4	15.5	16.5	15.8	16.9	12.2	17.8	17.1
Total Potassium	mg/L			1.45	1.78	1.4	1.5	1.46	1.61	0.502	1.6	1.56
Total Sodium	mg/L	200	AO	23.6	29.6	25.1	27.2	28.7	30.7	32.7	32.4	33.5
Total Sulphur	mg/L			3.2	3.5	<3.0	<3.0	3.2	<3	<3	<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.