

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
AO= Aesthetic Objective

Green font indicates a value flagged for operational considerations.

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

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

	Units	CDWG		October 12 2016	September 20 2017	October 29 2018	October 3 2019	October 20 2020	October 14 2021	October 13 2022	October 12 2023	October 3 2024
<b>Miscellaneous Inorganics</b>												
Fluoride	mg/L	1.5	MAC	0.015	0.023	0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO )	mg/L			25.5	23.8	24.6	22	26	28	23	24	26
<b>Anions</b>												
Dissolved Sulphate	mg/L	500	AO	2	1.7	1.6	1.7	2.6	2.5	2	2.2	2.5
Dissolved Chloride	mg/L	250	AO	15	13	16	15	8.3	6.8	16	18	29
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>												
Apparent Colour	Colour Unit			<5.0	5	5	5	10	<5	<5		<2
<b>Nutrients</b>												
Total Ammonia	mg/L			0.081	<0.020	<0.020	0.084	<0.015	<0.015	<0.015	<0.015	0.018
<b>Physical Properties</b>												
Conductivity	µS/cm			102	91.4	106	100	80	74	110	110	93
pH	pH	7.0:10.5	OG	7.31	7.59	7.42	6.93	7.38	7.13	6.87	6.61	6.52
TDS	mg/L	500	AO	64	54	72	66	58	68	52	62	78
Turbidity	NTU			0.16	0.14	0.13	<0.10	<0.10	<0.1	<.1	<0.1	0.13
<b>Microbiological Parameters</b>												
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	6.4	14	<1.0	4.2	0	0	0	0	0
<b>Calculated Parameters</b>												
Total Hardness (CaCO )	mg/L			32.2	29.9	35.1	30.8	26.2	24.3	35.8	37.1	35.1
Nitrate	mg/L	10	MAC	0.149	0.090	0.090	0.114	0.104	0.087	0.092	0.18	0.135
<b>Elements</b>												
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.00001	<0.000002	<0.000002	<0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
<b>Total Metals</b>												
Total Aluminum	mg/L	0.1	OG	0.0058	0.008	0.008	0.0043	0.0084	0.0078	0.0046	0.0031	0.0041
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	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Barium	mg/L	1	MAC	0.0055	0.005	0.0052	0.005	0.004	0.0036	0.0053	0.0057	0.0056
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	<0.05	<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	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Cobalt	mg/L			<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00634	0.00185	0.0106	0.00065	0.00083	0.00329	0.00094	0.00088	0.0008
Total Iron	mg/L	0.1	AO	0.0065	0.0104	0.0289	0.0083	0.0148	0.0082	0.0085	<0.005	<0.005
Total Lead	mg/L	0.01	MAC	0.00092	0.00065	0.00129	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Manganese	mg/L	0.02 0.12	AO MAC	<0.001	<0.001	0.0036	<0.001	0.0017	<0.001	<0.001	<0.001	<0.001
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			3.02	3.48	2.81	2.5	2.92	2.88	2.77	2.69	2.8
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			0.0489	0.042	0.0476	0.0418	0.0345	0.0341	0.0475	0.0494	0.0479
Total Thallium	mg/L			<0.00005	<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	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zirconium	mg/L			<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			10.4	9.75	11.5	10.1	8.44	7.94	11.7	12.1	11.5
Total Magnesium	mg/L			1.54	1.35	1.56	1.38	1.26	1.08	1.6	1.67	1.54
Total Potassium	mg/L			0.213	0.194	0.207	0.192	0.198	0.168	0.202	0.232	0.238
Total Sodium	mg/L	200	AO	5.82	4.64	4.99	5.1	4.55	3.94	5.46	6.19	5.76
Total Sulphur	mg/L			<3.0	<3.0	<3.0	<3	<3	<3	<3	<3	<3
UVT	%T/cm			97.0	>97.7	97.4	95.3	93.7	95.0	97.0	98.0	98.0

Notes below about pH (2015) from [https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt\\_formats/pdf/pubs/water-eau/sum\\_guide-res\\_recom/summary-table-EN-2020-02-11.pdf](https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/summary-table-EN-2020-02-11.pdf)

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
Treatment-related	pH (2015)	None	7.0-10.5	Not applicable	Not applicable	The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components.

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AO= Aesthetic Objective

Green font indicates a value flagged for operational considerations.

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

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

	Units	CDWG		October 12 2016	September 20 2017	October 29 2018	October 17 2019	October 20 2020	October 14 2021	October 13 2022	October 12 2023	October 3 2024
<b>Miscellaneous Inorganics</b>												
Fluoride	mg/L	1.5	MAC	0.015	0.026	0.021	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO )	mg/L			22.1	24	22.4	21	26	27	23	27	25
<b>Anions</b>												
Dissolved Sulphate	mg/L	500	AO	1.8	1.7	1.4	1.5	2.3	3.7	2	2.1	1.5
Dissolved Chloride	mg/L	250	AO	16	12	14	14	7.8	8.4	14	18	15
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>												
Apparent Colour	Colour Unit			5	5	5	5	10	<5	<5	<5	<2
<b>Nutrients</b>												
Total Ammonia	mg/L			0.084	<0.020	<0.020	0.064	<0.015	<0.015	<0.015	<0.015	<0.015
<b>Physical Properties</b>												
Conductivity	µS/cm			100	91.3	96	96	77	79	100	110	110
pH	pH	7.0:10.5	OG	7.21	7.66	7.39	6.97	7.36	7.22	6.89	6.54	6.47
TDS	mg/L	500	AO	70	66	58	70	62	62	74	60	82
Turbidity	NTU			0.17	0.25	0.25	<0.1	<0.1	0.1	<0.1	<0.1	0.13
<b>Microbiological Parameters</b>												
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	5.3	<1.0	<1.0	0	0	0	0	0	0
<b>Calculated Parameters</b>												
Total Hardness (CaCO )	mg/L			31.1	30.3	31.9	29	25.5	25.8	33.5	36.5	35.1
Nitrate	mg/L	10	MAC	0.229	0.111	0.113	0.135	0.1	0.108	0.099	0.187	0.116
<b>Elements</b>												
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.00001	0.0000048	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
<b>Total Metals</b>												
Total Aluminum	mg/L	0.1	OG	0.0069	0.0067	0.0083	0.0045	0.008	0.0104	0.0057	0.0042	0.0043
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	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Barium	mg/L	1	MAC	0.0034	0.0028	0.0032	0.0031	0.004	0.0029	0.0032	0.0037	0.0034
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	<0.05	<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	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Cobalt	mg/L			<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00623	0.00153	0.0103	0.00085	0.00078	0.00353	0.00105	0.00098	0.00086
Total Iron	mg/L	0.1	AO	0.0218	0.026	0.0206	0.0151	0.0101	0.0221	0.015	0.0135	0.0216
Total Lead	mg/L	0.01	MAC	0.0007	0.00053	0.00071	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0077	0.0092	0.0022	0.0024	0.0013	0.0033	0.0045	0.0046	0.0054
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			3.37	4.05	3.31	2.96	2.87	3.56	3.55	3.48	3.57
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			0.047	0.0414	0.0436	0.0382	0.0346	0.0366	0.0438	0.0477	0.0474
Total Thallium	mg/L			<0.00005	<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	<0.005	<0.005	0.0097	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zirconium	mg/L			<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			9.83	9.73	10.5	9.37	8.24	8.31	10.7	11.7	11.4
Total Magnesium	mg/L			1.6	1.47	1.41	1.36	1.21	1.23	1.61	1.73	1.58
Total Potassium	mg/L			0.339	0.285	0.31	0.287	0.175	0.306	0.314	0.324	0.311
Total Sodium	mg/L	200	AO	5.54	4.7	4.55	4.91	4.55	4.18	4.58	5.63	5.44
Total Sulphur	mg/L			<3.0	<3.0	<3.0	<3.0	<3	<3	<3	<3	<3
UVT	%T/cm			97.2	97.5	97.4	95.1	93.4	95.0	97.0	98.0	97.0

Notes below about pH (2015) from [https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt\\_formats/pdf/pubs/water-eau/sum\\_guide-res\\_recom/summary-table-EN-2020-02-11.pdf](https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/summary-table-EN-2020-02-11.pdf)

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
Treatment-related	pH (2015)	None	7.0-10.5	Not applicable	Not applicable	The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components.