

Surfside Distribution (Tap Water) Analysis 1105 Surfside Drive

CDWG=Canadian Drinking Water Guidelines

MAC=Maximum Acceptable Concentration

OG= Operational Guidance Value

AO= Asthetic Objective.

Green font indicates a value flagged for operational consideration

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		May 8 2017	May 7 2018	May 13 2019	May 20 2020	May 6 2021	May 5 2022	May 25 2023	May 9 2024	May 27 2025
Miscellaneous Inorganics												
Fluoride	mg/L	1.5	MAC	0.029	0.026	0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO ₃)	mg/L			66.7	51.8	57.2	51	54	55	46	57	56
Anions												
Dissolved Sulphate	mg/L	500	AO	5.11	5.7	4.5	4.1	7.2	4.6	5.5	6.3	5.1
Dissolved Chloride	mg/L	250	AO	13	11	10	11	8.8	11	39	20	8.8
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Miscellaneous												
Apparent Colour	Colour Unit			10	5	<2	5	10	<5	<5	2.3	<2
Nutrients												
Total Ammonia	mg/L			0.091	<0.020	<0.015	0.021	<0.015	<0.015	<0.015	<0.015	<0.015
Physical Properties												
Conductivity	µS/cm			184	157	153	150	140	160	240	200	160
pH	pH	7.0-10.5	AO	7.85	7.72	7.32	7.09	7.3	6.99	6.91	7.5	7.42
TDS	mg/L	500	AO	108	98	100	90	88	94	150	120	86
Turbidity	NTU			0.17	0.27	0.2	<0.1	<0.1	<0.1	<0.1	0.12	0.17
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			85.3	61	59.2	58.9	52.2	61.7	86.6	66.5	55.3
Nitrate	mg/L	10	MAC	0.529	0.637	0.633	0.85	0.773	0.713	0.784	0.758	0.594
Elements												
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<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	<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	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Barium	mg/L	1	MAC	0.0035	0.0018	0.0018	0.0011	<0.001	0.0021	0.0015	0.0015	<0.001
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	<0.05	<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			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00451	0.00513	0.00789	0.00638	0.00692	0.00523	0.00419	0.00883	0.00982
Total Iron	mg/L	0.3	AO	0.0483	0.0137	0.0296	0.0223	0.0194	0.0427	0.0131	0.0319	0.024
Total Lead	mg/L	0.01	MAC	0.0003	0.00034	0.00048	0.00044	0.00042	0.00034	0.00032	0.00055	0.00064
Total Manganese	mg/L	0.02 0.12	AO MAC	<0.001	<0.001	<0.001	0.0011	<0.001	<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			10.4	7.87	7.66	7.69	7.19	7.66	7.9	8.01	8.48
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			0.0799	0.0549	0.0517	0.0466	0.0421	0.0542	0.069	0.0516	0.0438
Total Thallium	mg/L			<0.00001	<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	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
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	<0.005	<0.005	<0.0050
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010
Total Calcium	mg/L			29.7	20	19.5	18.5	15.9	20.7	26.9	21.3	17.0
Total Magnesium	mg/L			2.69	2.69	2.54	3.06	3.05	2.4	4.75	3.25	3.10
Total Potassium	mg/L			0.569	0.386	0.411	0.381	0.353	0.443	0.425	0.474	0.396
Total Sodium	mg/L	200	AO	8.58	6.48	6.71	6.53	6.11	7.03	9.79	11.1	9.28
Total Sulphur	mg/L			<3.0	<3.0	<3	<3	<3	<3	<3	<3	<3.0

Notes below about pH (2015) from https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#_ftn1

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.