

**Halton Region
Distribution Water System
2025 Analytical Averages**



Schedule 1 - Microbiological Parameters

Analysis	Unit	MECP MAC Standard	MECP Aesthetic Objective	MECP Operational Guideline	Detection Limit	Action Distribution	Burlington Distribution	Campbellville Distribution	Georgetown Distribution Well Based	Georgetown Distribution Lake Based	Milton Distribution Well Based	Milton Distribution Lake Based	Oakville Distribution	Bridgeview Distribution	North Aldershot Distribution	Snake Road Distribution
Presence/Absence - <i>E. coli</i>	P/A/100 mL	Absent			NA	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Presence/Absence - Total Coliform	P/A/100 mL	Absent			NA	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Heterotrophic Plate Count	CFU/1 mL			500 ¹	0	0	0	1	1	1	0	0	0	0	37	1
Chlorine - Free	mg/L	0.05 - 4.0		0.2	0.01	1.18	1.07	1.27	1.29	1.23	1.26	1.06	1.07			
Chlorine - Total	mg/L				0.01	1.31	1.26	1.39	1.42	1.40	1.39	1.22	1.26	1.44	1.08	1.07
Chlorine - Combined	mg/L	0.25 - 3.0		1.0	0.01									1.37*	1.02*	1.00*

Table 4 - Chemical / Physical Parameters

Parameter	Unit	MECP MAC Standard	MECP Aesthetic Objective	MECP Operational Guideline	Detection Limit	Action Distribution	Burlington Distribution	Campbellville Distribution	Georgetown Distribution Well Based	Georgetown Distribution Lake Based	Milton Distribution Well Based	Milton Distribution Lake Based	Oakville Distribution	Bridgeview Distribution	North Aldershot Distribution	Snake Road Distribution
Alkalinity	mg/L			30 - 500	2.0	270	93.8	305	263	95.3	262	95.3	93.9	91.0	88.4	89.2
Ammonia Nitrogen	mg/L				0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.58	0.29	0.26
Calcium	mg/L				0.5	100	39.6	105	105	39.8	85.4	39.8	39.4	39.4	40.1	39.4
Chloride	mg/L	250			1.0	74.5	28.8	212	120	31.4	89.3	31.5	29.8	30.1	30.7	30.9
Colour	TCU	5			1	1	1	1	<1	1	1	1	1	<1	<1	<1
Conductivity	µS/cm				1.5	711	321	1240	933	328	779	327	324	330	330	330
Dissolved Organic Carbon	mg/L	5			0.40	1.4	1.5	0.81	0.78	1.5	0.90	1.5	1.5	1.5	1.5	1.7
pH			6.5 - 8.5		1.00	7.39	7.79	7.47	7.53	7.95	7.57	7.98	7.79	7.57	7.64	7.60
Sulphate	mg/L	500			5.0	24.6	23.9	26.6	41.0	24.1	38.8	23.3	23.4	22.6	24.7	23.7
TKN (Total Kjeldahl Nitrogen)	mg/L				0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.7	0.4	0.5
Total Dissolved Solids	mg/L	500			25	437	180	673	521	196	444	181	179	192	183	189
Total Hardness (for Dishwashers)	mg/L grains/gal		80 - 100		1.5	324	124	350	342	125	318	126	124	125	125	122
Aluminum	mg/L		0.1		0.003	<0.003	0.080	<0.003	0.005	0.050	0.003	0.035	0.082	0.090	0.042	0.051
Cobalt	mg/L				0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Copper	mg/L	1			0.001	0.041	0.002	0.006	0.002	0.002	0.003	0.003	0.002	0.001	0.004	0.001
Iron	mg/L	0.3			0.002	0.003	0.002	0.005	0.003	0.016	0.002	0.010	0.006	0.047	0.043	0.080
Manganese	mg/L	0.05			0.0005	<0.0005	0.0005	0.0006	<0.0005	0.0007	<0.0005	0.0007	0.0008	0.0010	0.0020	0.0030
Molybdenum	mg/L				0.0005	0.0008	0.0010	<0.0005	0.0006	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Nickel	mg/L				0.0005	0.0008	0.0006	0.0008	0.0005	0.0006	<0.0005	0.0006	0.0006	<0.0005	<0.0005	<0.0005
Zinc	mg/L	5			0.0005	0.0283	0.0017	0.0032	0.0011	0.0020	0.0010	0.0012	0.0011	0.0010	0.0010	0.0010

Schedule 13 - Chemical Parameters

Parameter	Unit	MECP MAC Standard	MECP Aesthetic Objective	MECP Operational Guideline	Detection Limit	Action Distribution	Burlington Distribution	Campbellville Distribution	Georgetown Distribution Well Based	Georgetown Distribution Lake Based	Milton Distribution Well Based	Milton Distribution Lake Based	Oakville Distribution	Bridgeview Distribution	North Aldershot Distribution	Snake Road Distribution
Fluoride	mg/L	1.5		0.5 - 0.8 ²	0.02	0.71	0.67	0.17	0.70	0.66	0.10	0.66	0.58	0.70	0.72	0.72
Nitrate Nitrogen	mg/L	10			0.04	1.23	0.33	1.42	1.70	0.33	0.57	0.35	0.34	0.36	0.40	0.41
Nitrite Nitrogen	mg/L	1			0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	0.02
Sodium	mg/L	20 ³	200 ⁴		1.0	34.0	15.0	126	58.2	16.7	45.6	16.4	15.2	14.5	14.7	14.7
Turbidity	NTU	1 ⁵	5 ⁶		0.05	0.07	0.11	0.10	0.08	0.10	0.07	0.10	0.10	0.21	0.30	0.56
Bromodichloromethane ⁸	µg/L				0.10	8.4	7.4	5.3	5.5	7.3	5.9	8.3	5.9	7.7	7.8	8.0
Bromoform ⁸	µg/L				0.20	0.4	0.5	1.4	3.8	0.7	4.8	0.7	0.6	0.4	0.4	0.4
Chloroform ⁸	µg/L				0.10	15.2	15.0	5.5	2.9	11.3	2.4	15.6	9.9	9.4	9.5	9.8
Dibromochloromethane ⁸	µg/L				0.20	3.5	3.7	5.0	8.4	4.8	9.8	5.1	3.7	4.0	4.0	3.9
Total THMs (RAA)	µg/L	100 ⁷			0.20	29.3	29.9 ⁹	16.9	22.8	29.9 ⁹	23.4	29.9 ⁹	29.9 ⁹	20.1	20.5	20.7
Dibromoacetic Acid ⁸	µg/L				5.0		<5.0			<5.0		5.0	5.0	<5.0	<5.0	<5.0
Dichloroacetic Acid ⁸	µg/L				5.0		7.5			6.5		7.7	6.6	5.1	5.1	5.2
Monobromoacetic Acid ⁸	µg/L				5.0		<5.0			<5.0		<5.0	<5.0	<5.0	<5.0	<5.0
Monochloroacetic Acid ⁸	µg/L				5.0		<5.0			<5.0		<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroacetic Acid ⁸	µg/L				5.0		5.4			<5.0		5.5	5.2	<5.0	<5.0	<5.0
Total HAAs (RAA)	µg/L	80 ⁷			5.0		10.9 ⁹			10.9 ⁹		10.9 ⁹	10.9 ⁹	5.1	5.1	5.2

Schedule 23 - Inorganic Parameters

Parameter	Unit	MECP MAC Standard	MECP Aesthetic Objective	MECP Operational Guideline	Detection Limit	Action Distribution	Burlington Distribution	Campbellville Distribution	Georgetown Distribution Well Based	Georgetown Distribution Lake Based	Milton Distribution Well Based	Milton Distribution Lake Based	Oakville Distribution	Bridgeview Distribution	North Aldershot Distribution	Snake Road Distribution
Cadmium	mg/L	0.005			0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chromium	mg/L	0.05			0.0005	<0.0005	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

DEFINITIONS:

MECP = Ministry of the Environment, Conservation and Parks
 MAC = Maximum Acceptable Concentration
 THM = Trihalomethanes
 HAA = Haloacetic acids
 RAA = Running Annual Average

NOTES:

- ¹ This is an internal Halton Region guideline and is not reportable to the MECP if adverse. Increases in HPC concentrations above baseline levels are considered undesirable.
- ² This guideline applies only when Fluoride is added. Campbellville and Milton Well Based do not have Fluoride added to the water supply.
- ³ Defined as adverse under Reg. 170/03. At 20 mg/L, the Medical Officer of Health is to be notified, who in turn notifies local physicians so that patients on sodium restricted diets can be informed.
- ⁴ At 200 mg/L, MECP Aesthetic Objective.
- ⁵ This standard applies to treated water entering the distribution system.
- ⁶ This objective applies to water in the distribution system.
- ⁷ This standard applies to a Running Annual Average (RAA) for all distribution sites, as per MECP calculation.
- ⁸ This result is based on an Annual Average.
- ⁹ This is a Running Annual Average (RAA) for all distribution sites, as per MECP calculation within Oakville, Burlington, Milton Lake Based and Georgetown Lake Based.
- * This system operates under chloramination.

Schedule 23 and 24 from the Ontario Drinking Water Quality Standards Reg. 169/03 and 170/03 have been analyzed for all treated waters entering the distribution system, where required, and were found to be below the MAC health standard or aesthetic objective required.

To convert mg/L to grains/gallon: mg/L x 0.07016 = grains/imperial gallon