

Drinking-Water Systems Regulation O. Reg. 170/03

ANNUAL REPORT

Drinking-Water System Number:
Drinking-Water System Name:
Drinking-Water System Owner:
Drinking-Water System Category:
Period being reported:

220004224
Beech Avenue (MacTier) Drinking Water System
District Municipality of Muskoka
Large Municipal Residential
January 01 to December 31, 2025

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]

Is your annual report available to the public at no charge on a web site on the Internet?
Yes [X] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

District Municipality of Muskoka
70 Pine Street
Bracebridge, Ontario
P1L 1N3
(705) 645-6764
www.muskoka.on.ca

Complete for all other Categories.

Number of Designated Facilities served:

N/A

Did you provide a copy of your annual report to all Designated Facilities you serve?
Yes [] No [x]

Number of Interested Authorities you report to: N/A

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?
Yes [] No [x]

Note: For the following tables below, additional rows or columns may be added, or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes ☐ No ☒

Indicate how you notified system users that your annual report is available, and is free of charge.

☒ **Public access/notice via the web**

☒ **Public access/notice via Government Office**

☐ **Public access/notice via a newspaper**

☒ **Public access/notice via Public Request**

☐ **Public access/notice via a Public Library**

☐ **Public access/notice via other method** _____

Describe your Drinking-Water System

The water treatment plant serving the community of MacTier was constructed in 1995.. The treatment process consists of chemically assisted coagulation-flocculation, sedimentation, filtration, disinfection by chlorination and then fluoridation and final pH adjustment. The system currently serves a population of approximately 800 persons. The capacity of the plant is 1,904 cubic meters per day. The raw water source is Stewart Lake and the intake is 220 meters from shore.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite, Polyaluminum Chloride, Sodium Hydroxide, Carbon Dioxide, Hydrated Lime, Hydrofluosilic Acid, Sodium Permanganate

Were any significant expenses incurred to?

☐ **Install required equipment**

☒ **Repair required equipment**

☒ **Replace required equipment**

Please provide a brief description and a breakdown of monetary expenses incurred:

Replaced lime batch tank mixer (\$2,200); Replaced soft start for one backwash pump (\$2,700); Installed new backup generator fuel supply system (\$35,000)

Please provide a brief description and a breakdown of monetary expenses incurred

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe

Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A					

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	52	0-5	0-30	N/A	N/A
Treated	52	0-0	0-0	52	0-1
Distribution	156	0-0	0-0	68	0-12

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)	Geometric Mean Average	<i>NOTE: For continuous monitors use 8760 as the number of samples.</i>
Turbidity	8760	0.05-1.36 NTU	0.14 NTU	
Chlorine	8760	1.17-2.14	1.67	
Fluoride (If the DWS provides fluoridation)	8760	0.48-0.72	0.59	
<i>NOTE: Record the unit of measure if it is not milligrams per litre. MDL = Method Detection Limit</i>				

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A	N/A	N/A	N/A	N/A

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2025/05/20	0.6<MDL	µg/L	

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Arsenic	2025/05/20	0.2<MDL	µg/L	
Barium	2025/05/20	11.3	µg/L	
Boron	2025/05/20	6	µg/L	
Cadmium	2025/05/20	0.005	µg/L	
Chromium	2025/05/20	0.13	µg/L	
*Lead	2025/05/20	Summary below	µg/L	
Mercury	2025/05/20	0.01<MDL	µg/L	
Selenium	2025/05/20	0.04<MDL	µg/L	
Sodium	2025/05/20	21.0	mg/L	Yes
Uranium	2025/05/20	0.002<MDL	µg/L	
Fluoride	2025/05/20	0.48	mg/L	
Nitrite	2025/02/10	0.003<MDL	mg/L	
Nitrate	2025/02/10	0.078	mg/L	
Nitrite	2025/05/20	0.003<MDL	mg/L	
Nitrate	2025/05/20	0.12	mg/L	
Nitrite	2025/08/12	0.003<MDL	mg/L	
Nitrate	2025/08/12	0.185	mg/L	
Nitrite	2025/11/11	0.003<MDL	mg/L	
Nitrate	2025/11/11	0.042	mg/L	

*only for drinking water systems testing under Schedule 15.2; this includes large municipal nonresidential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems.

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Geometric Mean Average	Unit of Measure	Number of Exceedances
Plumbing	N/A	N/A	N/A	N/A	N/A
Distribution	4	0.02-0.54	0.079	µg/L	0

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2025/05/20	0.02<MDL	µg/L	
Atrazine+N-dealkylated Metabolites	2025/05/20	0.01<MDL	µg/L	

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Azinphos-methyl	2025/05/20	0.05<MDL	µg/L	
Benzene	2025/05/20	0.32<MDL	µg/L	
Benzo(a)pyrene	2025/05/20	0.004<MDL	µg/L	
Bromoxynil	2025/05/20	0.33<MDL	µg/L	
Carbaryl	2025/05/20	0.05<MDL	µg/L	
Carbofuran	2025/05/20	0.01<MDL	µg/L	
Carbon Tetrachloride	2025/05/20	0.17<MDL	µg/L	
Chorpyrifos	2025/05/20	0.02<MDL	µg/L	
Diazinon	2025/05/20	0.02<MDL	µg/L	
Dicamba	2025/05/20	0.20<MDL	µg/L	
1,2 Dichlorobenzene	2025/05/20	0.41<MDL	µg/L	
1,4 Dichlorobenzene	2025/05/20	0.36<MDL	µg/L	
1,2 Dichloroethane	2025/05/20	0.35<MDL	µg/L	
1,1 Dichloroethylene	2025/05/20	0.33<MDL	µg/L	
Dichloromethane	2025/05/20	0.35<MDL	µg/L	
2,4 Dichlorophenol	2025/05/20	0.15<MDL	µg/L	
2,4-D	2025/05/20	0.19<MDL	µg/L	
Diclofop-Methyl	2025/05/20	0.40<MDL	µg/L	
Dimethoate	2025/05/20	0.06<MDL	µg/L	
Diquat	2025/05/20	1<MDL	µg/L	
Diuron	2025/05/20	0.03<MDL	µg/L	
Glyphosate	2025/05/20	1<MDL	µg/L	
Malathion	2025/05/20	0.02<MDL	µg/L	
MCPA	2025/05/20	0.00012<MDL	µg/L	
Metolachor	2025/05/20	0.01<MDL	µg/L	
Metribuzin	2025/05/20	0.02<MDL	µg/L	
Monochlorobenzene	2025/05/20	0.30<MDL	µg/L	
Paraquat	2025/05/20	1<MDL	µg/L	
Pentachlorophenol	2025/05/20	0.15<MDL	µg/L	
Phorate	2025/05/20	0.01<MDL	µg/L	
Picloram	2025/05/20	1<MDL	µg/L	
PCB	2025/05/20	0.04<MDL	µg/L	
Prometryne	2025/05/20	0.03<MDL	µg/L	
Simazine	2025/05/20	0.01<MDL	µg/L	
THM (NOTE: Annual average of 4 samples – <u>Distribution system</u>)	2025/02/10 2025/05/20 2025/08/12 2025/11/11	58.0	µg/L	

HAA (NOTE: Annual average of 4 samples – <u>Distribution system</u>)	2025/02/10 2025/05/20 2025/08/12 2025/11/11	47.23	ug/L	
Terbufos	2025/05/20	0.01<MDL	µg/L	
Tetrachloroethylene	2025/05/20	0.035<MDL	µg/L	
2,3,4,6 - Tetrachlorophenol	2025/05/20	0.20<MDL	µg/L	
Triallate	2025/05/20	0.01<MDL	µg/L	
Trichloroethylene	2025/05/20	0.44<MDL	µg/L	
2,4,6,- Trichlorophenol	2025/05/20	0.25<MDL	µg/L	
Trifluralin	2025/05/20	0.02<MDL	µg/L	
Vinyl Chloride	2025/05/20	0.17<MDL	µg/L	

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
Sodium	21	mg/L	2025/05/20
THM – Distribution	47, 68, 58, 57	ug/L	2025/02/10 2025/05/20 2025/08/12 2025/11/11
HAA – Distribution	32.2, 62.7, 41, 53.5	ug/L	2025/02/10 2025/05/20 2025/08/12 2025/11/11