

ANNUAL REPORT

FOR

MILLBROOK DRINKING WATER SYSTEM

PERIOD: January 1, 2024 – December 31, 2024

TOWNSHIP OF
CAVAN MONAGHAN



Have it all. Right here.


peterborough

MECP Waterworks # 220000781
February 17, 2025

| | |
|--|--|
| Drinking-Water System Number: | 220000781 |
| Drinking-Water System Name: | Millbrook Drinking Water System |
| Drinking-Water System Owner: | Township of Cavan Monaghan |
| Drinking-Water System Category: | Water Distribution and Supply Class II |
| Period being reported: | January 1, 2024 to December 31, 2024 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Township of Cavan Monaghan 988 County Road 10 Millbrook, ON L0A 1G0 www.cavanmonaghan.net</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">N/A</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">N/A</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p> |
|--|---|

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 of 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 [] N/A

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 - Social Media (Twitter Facebook or Instagram)

Describe your Drinking-Water System

The Millbrook Drinking Water System and distribution system is operated by The City of Peterborough, Environmental Services Division, under contract with the Township of Cavan Monaghan.

The Millbrook Drinking Water System municipal water system consists of the following:

- Three non-GUDI groundwater
- Sodium hypochlorite disinfection feed system with metering pumps
- 71 m of 900 mm oversized contact pipe
- Continuous on-line chlorine analyzers
- Continuous on-line flow meters
- Standpipe with 2,600 m³ of storage

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite (Chlorine)

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

Rehabilitation of Well 2.

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 |
|---------------|-----------|--------|-----------------|-------------------|------------------------|
| None | | | | | |

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 RW1 | 52 | 0 – 0 | 0 – 0 | 52 | 0 – 32 |
| Raw RW2 | 52 | 0 – 0 | 0 - 4 | 52 | 0 – 105 |
| Raw RW3 | 52 | 0 – 0 | 0 - 0 | 52 | 0 – 19 |
| Treated | 52 | 0 – 0 | 0 - 0 | 52 | 0 – 21 |
| Distribution | 210 | 0 – 0 | 0 - 3 | 209 | 0 – 7 |

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 #) | Unit of Measure |
|---|------------------------|----------------------------------|-----------------|
| Turbidity | | | |
| Well 1 | 52 | 0.24 – 0.88 | NTU |
| Well 2 | 51 | 0.22 – 0.88 | |
| Well 3 | 52 | 0.18 – 1.90 | |
| Chlorine - Free Treated Water | 8760 | 1.27 – 2.58 | mg/L |
| Chlorine – Free Distribution | 210 | 1.32 – 2.08 | mg/L |
| Fluoride (If the DWS provides fluoridation) | | | |

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 | | | | |

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

| Parameter | Sample Date | Result Value | nit of Measure | Exceedance |
|-----------|-------------|--------------|----------------|------------|
| Antimony | Jan 16 | 0.6<MDL | µg/L | No |
| Arsenic | Jan 16 | 0.6 | µg/L | No |
| Barium | Jan 16 | 130 | µg/L | No |
| Boron | Jan 16 | 10 | µg/L | No |
| Cadmium | Jan 16 | 0.003 | µg/L | No |
| Chromium | Jan 16 | 0.33 | µg/L | No |
| Mercury | Jan 16 | 0.01<MDL | µg/L | No |
| Selenium | Jan 16 | 0.15 | µg/L | No |
| Uranium | Jan 16 | 0.92 | µg/L | No |

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Fluoride | May 7 | 0.1<MDL | mg/L | No |
| Nitrite | Jan 9 | 0.05<MDL | mg/L | No |
| | April 9 | 0.05<MDL | | |
| | July 9 | 0.05<MDL | | |
| | October 8 | 0.05<MDL | | |
| Nitrate | Jan 9 | 1.29 | mg/L | No |
| | April 9 | 1.09 | | |
| | July 9 | 1.66 | | |
| | October 8 | 1.69 | | |

Summary of lead testing under Schedule 15.1 during this reporting period

| Location Type | Number of Samples | Range of Lead Results (min#) – (max #) | Unit of Measure | Number of Exceedances |
|---------------|-------------------|--|-----------------|-----------------------|
| Plumbing | 0 | 0 | µg/L | 0 |
| Distribution | 4 | 0.5<MDL | 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 | Jan16 | 0.02<MDL | µg/L | No |
| Atrazine + N-dealkylated metabolites | Jan16 | 0.01<MDL | µg/L | No |
| Atrazine | Jan16 | 0.01<MDL | µg/L | No |
| Azinphos-methyl | Jan16 | 0.05<MDL | µg/L | No |
| Benzene | Jan16 | 0.32<MDL | µg/L | No |
| Benzo(a)pyrene | Jan16 | 0.004<MDL | µg/L | No |
| Bromoxynil | Jan16 | 0.33<MDL | µg/L | No |
| Carbaryl | Jan16 | 0.05<MDL | µg/L | No |
| Carbofuran | Jan16 | 0.01<MDL | µg/L | No |
| Carbon Tetrachloride | Jan16 | 0.17<MDL | µg/L | No |
| Chlorpyrifos | Jan16 | 0.02<MDL | µg/L | No |
| Diazinon | Jan16 | 0.02<MDL | µg/L | No |
| Dicamba | Jan16 | 0.20<MDL | µg/L | No |
| 1,2-Dichlorobenzene | Jan16 | 0.41<MDL | µg/L | No |
| 1,4-Dichlorobenzene | Jan16 | 0.36<MDL | µg/L | No |
| 1,2-Dichloroethane | Jan16 | 0.35<MDL | µg/L | No |
| Dichloromethane | Jan16 | 0.35<MDL | µg/L | No |
| 2-4 Dichlorophenol | Jan16 | 0.15<MDL | µg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | Jan16 | 0.19<MDL | µg/L | No |
| Diclofop-methyl | Jan16 | 0.40<MDL | µg/L | No |
| Dimethoate | Jan16 | 0.06<MDL | µg/L | No |
| Diquat | Jan16 | 1<MDL | µg/L | No |
| Diuron | Jan16 | 0.03<MDL | µg/L | No |
| Glyphosate | Jan16 | 1<MDL | µg/L | No |

| Parameter | Sample Date | Results Value | Unit of Measure | Exceedance |
|--|-------------|---------------|-----------------|------------|
| HAA (NOTE: show latest annual average) | Average | 5.3<MDL | µg/L | No |
| Malathion | Jan16 | 0.02<MDL | µg/L | No |
| Metolachlor | Jan16 | 0.01<MDL | µg/L | No |
| Metribuzin | Jan16 | 0.02<MDL | µg/L | No |
| Monochlorobenzene | Jan16 | 0.30<MDL | µg/L | No |
| Paraquat | Jan16 | 1<MDL | µg/L | No |
| Pentachlorophenol | Jan16 | 0.15<MDL | µg/L | No |
| Phorate | Jan16 | 0.01<MDL | µg/L | No |
| Picloram | Jan16 | 1<MDL | µg/L | No |
| Polychlorinated Biphenyls(PCB) | Jan16 | 0.04<MDL | µg/L | No |
| Prometryne | Jan16 | 0.03<MDL | µg/L | No |
| Simazine | Jan16 | 0.01<MDL | µg/L | No |
| THM (NOTE: show latest annual average) | Average | 4.688 | µg/L | No |
| Terbufos | Jan16 | 0.01<MDL | µg/L | No |
| Tetrachloroethylene | Jan16 | 0.35<MDL | µg/L | No |
| 2,3,4,6-Tetrachlorophenol | Jan16 | 0.20<MDL | µg/L | No |
| Triallate | Jan16 | 0.01<MDL | µg/L | No |
| Trichloroethylene | Jan16 | 0.44<MDL | µg/L | No |
| 2,4,6-Trichlorophenol | Jan16 | 0.25<MDL | µg/L | No |
| Trifluralin | Jan16 | 0.02<MDL | µg/L | No |
| Vinyl Chloride | Jan16 | 0.17<MDL | µg/L | No |

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 |
|-----------|--------------|-----------------|----------------|
| None | | | |