

Drinking-Water Systems Regulation O. Reg. 170/03 McClinchey Drinking Water System Annual Report 2024

Drinking-Water System Number:	260007837
Drinking-Water System Name:	McClinchey Drinking Water System
Drinking-Water System Owner:	Municipality of Central Huron
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1 to December 31, 2024

<u>Complete if your Category is Large Municipal</u> <u>Residential or Small Municipal Residential</u>	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]	Number of Designated Facilities served:
Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []	Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to:
Municipal Office	Did you provide a copy of
23 Albert St. Clinton Ontario	your annual report to all Interested Authorities you report to for each Designated Facility?
Utilities Work Centre	Yes [] No []
17 Park Lane Clinton Ontario	

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		

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 []



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

- [X] Public access/notice via the web
- [] Public access/notice via Government Office
- [] Public access/notice via a newspaper
- [X] 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 McClinchey DWS is located at 79256 Fuller Drive. The supply is a 43.3m deep, 130mm diameter drilled groundwater well with a pump rated at 68.2L/min.

Treatment consists of sodium hypochlorite disinfection in a 77m x 150mm contact water main. Sodium silicate is added for iron sequestering.

Storage is provided by three 307 L hydropneumatic pressure tanks. Standby power is provided by a natural gas powered generator with automatic power transfer.

The distribution serves a mixture of year around and seasonal residential customers, with 23 connections in total.

List all water treatment chemicals used over this reporting period

Sodium hypochlorite

Sodium silicate

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

None to report for 2024

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
March 11, 2024	Sodium	108	mg/L	Resample, letters to customers	March 20,2024

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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	27	0 - 0	0 - 0	0	
Treated	27	0 - 0	0 - 0	27	0-10
Distribution	27	0 - 0	0 - 0	27	0-380

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 #)	NOTE: For continuous
<u>Turbidity</u> Raw Well	20	0.25-0.87 NTU	monitors use 8760 as the number of samples.
<u>Chlorine</u> Treated Distribution	8760 102	0.79-2.23mg/L 0.79-1.55mg/L	
Fluoride (If the DWS provides fluoridation)	N/A		

NOTE: Record the unit of measure if it is not milligrams per litre.

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
None to Report				

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	Mar 5, 2024	ND	μg/L	no
Arsenic	Mar 5, 2024	2.2	μg/L	no
Barium	Mar 5, 2024	16.6	μg/L	no
Boron	Mar 5, 2024	101	μg/L	no
Cadmium	Mar 5, 2024	0.003	μg/L	no
Chromium	Mar 5, 2024	0.22	μg/L	no

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*Lead	See below			no
Mercury	Mar 5, 2024	ND	μg/L	no
Selenium	Mar 5, 2024	ND	μg/L	no
Sodium	Mar 12, 2024	100	mg/L	yes
Uranium	Mar 5, 2024	1.84	μg/L	no
Fluoride	Mar 5, 2024	1.16	mg/L	no
Nitrite	Oct 22, 2024	ND	mg/L	no
Nitrate	Oct 22, 2024	ND	mg/L	no

*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 #)	Number of Exceedances		
Plumbing	0-reduced sa				
Distribution	1 1.61µg/L		1 1.61µg/L		0

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

Parameter	Sample	Result	Unit of	Exceedance
	Date	Value	Measure	
Alachlor	Mar 5, 2024	ND	μg/L	no
Atrazine	Mar 5, 2024	ND	μg/L	no
Atrazine + N-dealkylated metobolites	Mar 5, 2024	ND	μg/L	no
Azinphos-methyl	Mar 5, 2024	ND	μg/L	no
Benzene	Mar 5, 2024	ND	μg/L	no
Benzo(a)pyrene	Mar 5, 2024	ND	μg/L	no
Bromoxynil	Mar 5, 2024	ND	μg/L	no
Carbaryl	Mar 5, 2024	ND	μg/L	no
Carbofuran	Mar 5, 2024	ND	μg/L	no
Carbon Tetrachloride	Mar 5, 2024	ND	μg/L	no
Chlorpyrifos	Mar 5, 2024	ND	μg/L	no
Desethyl atrazine	Mar 5, 2024	ND	μg/L	no
Diazinon	Mar 5, 2024	ND	μg/L	no
Dicamba	Mar 5, 2024	ND	µg/L	no

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PhorateMar 5, 2024NDμg/LnoPicloramMar 5, 2024NDμg/LnoPolychlorinated Biphenyls(PCB)Mar 5, 2024NDμg/LnoPrometryneMar 5, 2024NDμg/LnoSimazineMar 5, 2024NDμg/LnoTHM (annual average)202410.4μg/LnoTerbufosMar 5, 2024NDμg/LnoTertachloroethyleneMar 5, 2024NDμg/Lno2,3,4,6-TetrachlorophenolMar 5, 2024NDμg/LnoTriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/Lno2,4,6-TrichlorophenolMar 5, 2024NDμg/LnoTrifluralinMar 5, 2024NDμg/Lno	Paraquat	Mar 5, 2024	ND	μg/L	no
PictoramMar 5, 2024NDμg/LnoPolychlorinated Biphenyls(PCB)Mar 5, 2024NDμg/LnoPrometryneMar 5, 2024NDμg/LnoSimazineMar 5, 2024NDμg/LnoTHM (annual average)202410.4μg/LnoTerbufosMar 5, 2024NDμg/LnoTetrachloroethyleneMar 5, 2024NDμg/Lno2,3,4,6-TetrachlorophenolMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoTrigluralinMar 5, 2024NDμg/Lno	Pentachlorophenol		ND	μg/L	no
Polychlorinated Biphenyls(PCB)Mar 5, 2024NDμg/LnoPrometryneMar 5, 2024NDμg/LnoSimazineMar 5, 2024NDμg/LnoTHM (annual average)202410.4μg/LnoTerbufosMar 5, 2024NDμg/LnoTetrachloroethyleneMar 5, 2024NDμg/Lno2,3,4,6-TetrachlorophenolMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/Lno2,4,6-TrichlorophenolMar 5, 2024NDμg/LnoTrifluralinMar 5, 2024NDμg/Lno	Phorate	Mar 5, 2024	ND	μg/L	no
PrometryneMar 5, 2024NDμg/LnoSimazineMar 5, 2024NDμg/LnoTHM (annual average)202410.4μg/LnoTerbufosMar 5, 2024NDμg/LnoTetrachloroethyleneMar 5, 2024NDμg/Lno2,3,4,6-TetrachlorophenolMar 5, 2024NDμg/LnoTriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/LnoMar 5, 2024NDμg/LnoTrifluralinMar 5, 2024NDμg/Lno	Picloram	Mar 5, 2024	ND	μg/L	no
NomeNomeNomeNomeNomeSimazineMar 5, 2024NDµg/LnoTHM (annual average)202410.4µg/LnoTerbufosMar 5, 2024NDµg/LnoTetrachloroethyleneMar 5, 2024NDµg/Lno2,3,4,6-TetrachlorophenolMar 5, 2024NDµg/LnoTriallateMar 5, 2024NDµg/LnoTrichloroethyleneMar 5, 2024NDµg/LnoTrichloroethyleneMar 5, 2024NDµg/LnoTrichloroethyleneMar 5, 2024NDµg/LnoTrichlorophenolMar 5, 2024NDµg/LnoTrichlorophenolMar 5, 2024NDµg/Lno2,4,6-TrichlorophenolMar 5, 2024NDµg/LnoTrifluralinMar 5, 2024NDµg/Lno	Polychlorinated Biphenyls(PCB)		ND	μg/L	no
THM (annual average)202410.4μg/LnoTerbufosMar 5, 2024NDμg/LnoTetrachloroethyleneMar 5, 2024NDμg/Lno2,3,4,6-TetrachlorophenolMar 5, 2024NDμg/LnoTriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/LnoTrichlorophenolMar 5, 2024NDμg/Lno2,4,6-TrichlorophenolMar 5, 2024NDμg/LnoTrifluralinMar 5, 2024NDμg/Lno	Prometryne	Mar 5, 2024	ND	μg/L	no
(annual average)Mar 5, 2024NDμg/LnoTerbufosMar 5, 2024NDμg/LnoTetrachloroethyleneMar 5, 2024NDμg/Lno2,3,4,6-TetrachlorophenolMar 5, 2024NDμg/LnoTriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/Lno2,4,6-TrichlorophenolMar 5, 2024NDμg/LnoTrifluralinMar 5, 2024NDμg/Lno	Simazine	Mar 5, 2024	ND	μg/L	no
Terbufos Mar 5, 2024 ND μg/L no Tetrachloroethylene Mar 5, 2024 ND μg/L no 2,3,4,6-Tetrachlorophenol Mar 5, 2024 ND μg/L no Triallate Mar 5, 2024 ND μg/L no Trichloroethylene Mar 5, 2024 ND μg/L no Trichloroethylene Mar 5, 2024 ND μg/L no Trichloroethylene Mar 5, 2024 ND μg/L no Trichlorophenol Mar 5, 2024 ND μg/L no Trichlorophenol Mar 5, 2024 ND μg/L no Trifluralin Mar 5, 2024 ND μg/L no		2024	10.4	μg/L	no
TetrachloroethyleneMar 5, 2024NDμg/Lno2,3,4,6-TetrachlorophenolMar 5, 2024NDμg/LnoTriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/Lno2,4,6-TrichlorophenolMar 5, 2024NDμg/LnoTrifluralinMar 5, 2024NDμg/Lno					
1 Control of the field of			ND	μg/L	no
TriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/Lno2,4,6-TrichlorophenolMar 5, 2024NDμg/LnoTrifluralinMar 5, 2024NDμg/Lno					no
TriallateMar 5, 2024NDμg/LnoTrichloroethyleneMar 5, 2024NDμg/Lno2,4,6-TrichlorophenolMar 5, 2024NDμg/LnoTrifluralinMar 5, 2024NDμg/Lno	2,3,4,6-Tetrachlorophenol		ND	µg/L	no
2,4,6-Trichlorophenol Mar 5, 2024 ND μg/L no Trifluralin Mar 5, 2024 ND μg/L no			ND		no
TrifluralinMar 5, 2024ND $\mu g/L$ no		· · · · · ·	ND	μg/L	no
	2,4,6-Trichlorophenol		ND	μg/L	no
Vinyl ChlorideMar 5, 2024NDµg/Lno			ND	μg/L	no
	Vinyl Chloride	Mar 5, 2024	ND	μg/L	no



Drinking-Water Systems Regulation O. Reg. 170/03 McClinchey Drinking Water System Annual Report 2024

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
Fluoride	1.16	mg/L	Mar 5,2024