

Drinking-Water System Number:	260008284
Drinking-Water System Name:	SAM 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, 2022

<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> <table border="1" style="width: 100%;"> <tr> <td>Municipal Office</td> </tr> <tr> <td>23 Albert St. Clinton Ontario</td> </tr> <tr> <td>Utilities Work Centre</td> </tr> <tr> <td>17 Park Lane Clinton Ontario</td> </tr> </table>	Municipal Office	23 Albert St. Clinton Ontario	Utilities Work Centre	17 Park Lane Clinton Ontario	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" type="text"/></p> <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: <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you <input style="width: 100px; height: 20px;" type="text"/> provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
Municipal Office					
23 Albert St. Clinton Ontario					
Utilities Work Centre					
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 []



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 SAM Drinking Water System is located at 77301 Forest Ridge Road. There is a single drilled groundwater well, approximately 159mm diameter by 59.44m deep, with a submersible well pump.

Treatment consists of sodium hypochlorite disinfection in a 33m of 300 mm contact water main. Sodium silicate is added for iron sequestering.

Storage is provided by 3 hydropneumatic pressure tanks. Standby power is provided by a natural gas powered generator with automatic power transfer.

The distribution system supplies approximately 14 year around residential connections.

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

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 27, 2022	Chlorine residual @ P.O.E.	0.11	mg/L	Restore chlorination and sample	March 31, 2022

December 24, 2022	Generator failure, pressure	0	PSI	Boil water, restore power and chlorination, two sets of samples.	December 30, 2022
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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	28	0 - 0	0 - 0	0	
Treated	28	0 - 0	0 - 0	28	0-30
Distribution	28	0 - 0	0 - 0	28	0-20

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 #)
<u>Turbidity</u> Raw Well	14	0.13-0.73 NTU
<u>Chlorine</u> Treated Distribution	8760 105	0.00-1.90mg/L 0.47-1.66mg/L
Fluoride (If the DWS provides fluoridation)	N/A	

NOTE: For continuous monitors use 8760 as the number of samples.

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, 2019	ND	µg/L	no
Arsenic	Oct 18, 2022	6.7	µg/L	no
Barium	Mar 5, 2019	47.3	µg/L	no
Boron	Mar 5, 2019	119	µg/L	no
Cadmium	Mar 5, 2019	0.007	µg/L	no
Chromium	Mar 5, 2019	0.12	µg/L	no
*Lead	See below			no
Mercury	Mar 5, 2019	ND	µg/L	no
Selenium	Mar 5, 2019	ND	µg/L	no
Sodium	Mar 5, 2019	23.1	mg/L	no
Uranium	Mar 5, 2019	0.591	µg/L	no
Fluoride	Mar 5, 2019	1.51	mg/L	no
Nitrite	Oct 18, 2022	ND	mg/L	no
Nitrate	Oct 18, 2022	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 sampling now in effect		
Distribution	1	0.14 ug/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	Mar 5, 2019	ND	µg/L	no
Atrazine	Mar 5, 2019	ND	µg/L	no
Atrazine + N-dealkylated metabolites	Mar 5, 2019	ND	µg/L	no
Azinphos-methyl	Mar 5, 2019	ND	µg/L	no
Benzene	Mar 5, 2019	ND	µg/L	no

Benzo(a)pyrene	Mar 5, 2019	ND	µg/L	no
Bromoxynil	Mar 5, 2019	ND	µg/L	no
Carbaryl	Mar 5, 2019	ND	µg/L	no
Carbofuran	Mar 5, 2019	ND	µg/L	no
Carbon Tetrachloride	Mar 5, 2019	ND	µg/L	no
Chlorpyrifos	Mar 5, 2019	ND	µg/L	no
Desethyl atrazine	Mar 5, 2019	ND	µg/L	no
Diazinon	Mar 5, 2019	ND	µg/L	no
Dicamba	Mar 5, 2019	ND	µg/L	no
1,2-Dichlorobenzene	Mar 5, 2019	ND	µg/L	no
1,4-Dichlorobenzene	Mar 5, 2019	ND	µg/L	no
1,2-Dichloroethane	Mar 5, 2019	ND	µg/L	no
1,1-Dichloroethylene (vinylidene chloride)	Mar 5, 2019	ND	µg/L	no
Dichloromethane	Mar 5, 2019	ND	µg/L	no
2,4 Dichlorophenol	Mar 5, 2019	ND	µg/L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	Mar 5, 2019	ND	µg/L	no
Diclofop-methyl	Mar 5, 2019	ND	µg/L	no
Dimethoate	Mar 5, 2019	ND	µg/L	no
Diquat	Mar 5, 2019	ND	µg/L	no
Diuron	Mar 5, 2019	ND	µg/L	no
Glyphosate	Mar 5, 2019	ND	µg/L	no
Malathion	Mar 5, 2019	ND	µg/L	no
Metolachlor	Mar 5, 2019	ND	µg/L	no
Metribuzin	Mar 5, 2019	ND	µg/L	no
Monochlorobenzene	Mar 5, 2019	ND	µg/L	no
Paraquat	Mar 5, 2019	ND	µg/L	no
Pentachlorophenol	Mar 5, 2019	ND	µg/L	no
Phorate	Mar 5, 2019	ND	µg/L	no
Picloram	Mar 5, 2019	ND	µg/L	no
Polychlorinated Biphenyls(PCB)	Mar 5, 2019	ND	µg/L	no
Prometryne	Mar 5, 2019	ND	µg/L	no
Simazine	Mar 5, 2019	ND	µg/L	no
THM (annual average)	2021	7.7	µg/L	no
Terbufos	Mar 5, 2019	ND	µg/L	no
Tetrachloroethylene	Mar 5, 2019	ND	µg/L	no
2,3,4,6-Tetrachlorophenol	Mar 5, 2019	ND	µg/L	no
Triallate	Mar 5, 2019	ND	µg/L	no
Trichloroethylene	Mar 5, 2019	ND	µg/L	no
2,4,6-Trichlorophenol	Mar 5, 2019	ND	µg/L	no

Trifluralin	Mar 5, 2019	ND	µg/L	no
Vinyl Chloride	Mar 5, 2019	ND	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
Flouride	1.08	mg/L	Mar 5, 2019
Arsenic	6.5	ug/L	Jan 18, 2022
Arsenic	8.5	ug/L	Apr 25, 2022
Arsenic	8.4	ug/L	July 19, 2022
Arsenic	6.7	ug/L	Oct 18, 2022