

<b>Drinking-Water System Number:</b>	220008293
<b>Drinking-Water System Name:</b>	Vandewatering Drinking Water System
<b>Drinking-Water System Owner:</b>	Municipality of Central Huron
<b>Drinking-Water System Category:</b>	Small Municipal Residential
<b>Period being reported:</b>	January 1 to December 31, 2022

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></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>Municipal Office</p> <p>23 Albert St. Clinton Ontario</p> <p>Utilities Work Centre</p> <p>17 Park Lane Clinton Ontario</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input 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 type="text"/></p> <p>Did you <input type="text"/> provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p>
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**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 Vandewatering Drinking Water System is located at 33956 Lane of Pines. There is a single drilled groundwater well, approximately 150mm diameter by 42.06m deep, with a submersible well pump rated at 136 L/min.

Treatment consists of sodium hypochlorite disinfection in a 39m x 300mm contact water main. Sodium silicate is added for iron sequestering.

Storage is provided by three 454 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 30 service connections in total. It is made up of 50mm diameter plastic piping and 3 blowoffs.

**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**

PLC replacement

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
June 16, 2022	PLC failure, Chlorine residual	0	mg/L	Boil water, restore chlorination, two sets of samples.	July 7, 2022
December 24, 2022	Generator failure pressure	0	PSI	Boil water, restore power and chlorination, two sets of samples.	December 30, 2022

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	29	0 - 0	0 - 0	0	
Treated	29	0 - 0	0 - 0	29	0-10
Distribution	29	0 - 0	0 - 0	29	0-10

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	0.26-0.88 NTU
<u>Chlorine</u> Treated Distribution	8760 105	0.00-1.83mg/L 0.57-1.76mg/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	6.0	µg/L	no
Barium	Mar 5, 2019	17.4	µg/L	no
Boron	Mar 5, 2019	81	µg/L	no
Cadmium	Mar 5, 2019	0.009	µg/L	no
Chromium	Mar 5, 2019	0.15	µg/L	no
*Lead	See below			no
Mercury	Mar 5, 2019	0.01	µg/L	no
Selenium	Mar 5, 2019	ND	µg/L	no
Sodium	Mar 5, 2019	64.9	mg/L	yes
Uranium	Mar 5, 2019	1.1	µg/L	no
Fluoride	Mar 5, 2019	1.56	mg/L	yes
Nitrite	Oct 18, 2022	ND	mg/L	no
Nitrate	Oct 18, 2022	0.019	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	0	0	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	6.7	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	1.56,1.58	mg/L	Mar 5 & 12,2019
Arsenic	7.6	ug/L	Jan 18, 2022
Arsenic	7.4	ug/L	Apr 26, 2022
Arsenic	8.4	ug/L	Jul 19, 2022
Arsenic	6.0	ug/L	Oct 18, 2022