Ontario **Drinking-Water Systems Regulation O. Reg. 170/03**
Clinton Drinking Water System Annual Report 2024

Drinking-Water System Number:	220001539
Drinking-Water System Name:	Clinton Drinking Water System
Drinking-Water System Owner:	Municipality of Central Huron
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 to December 31, 2024

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.

Municipal Office
23 Albert St. Clinton Ontario

Utilities Work Centre
17 Park Lane Clinton Ontario

Complete for all other Categories.

Number of Designated Facilities served:

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

Number of Interested Authorities you report to:

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

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
Vanastra Waterworks	**210001585**

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 [X] No [ ]

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 Clinton Drinking Water System consists of 3 deep drilled bedrock wells, all greater than 300 feet in depth. The wells are all located in the vicinity of Park Lane and Princess Street, one of which is located in the 17 Park Lane Utilities workshop. The wells pump to a 2 celled, 2475 m3 in ground reservoir. Disinfection is achieved by gas chlorine addition to the reservoir inlet line and contact time is provided by the reservoir. System pressure is maintained by 4 pressure tanks and 4 highlift pumps with a total capacity of 135 L/s. A 135L/s fire pump acts as a backup to this pumping system and is piped independently to the distribution. Well and highlift pump operations are controlled by a SCADA system. Backup power is provided by a 450 kW diesel generator with automatic power transfer.

List all water treatment chemicals used over this reporting period

Chlorine Gas

Were any significant expenses incurred to?

[ ] Install required equipment
[ ] Repair required equipment
[X] Replace required equipment

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

Well #3: Pull existing well pump, video survey of well & casing, replaced 48 m of well riser piping, tested/inspected pump & motor. Replaced the well contactor with a new soft start.
Reservoir: Hired a 3rd party to complete video inspection of reservoir to determine condition.

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 to report for 2024					

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 #)
Well #1	52	**0 - 0**	**0 –1**	**0**	
Well #2	52	**0 - 0**	**0 –0**	**0**	
Well #3	46	**0 - 0**	**0 - 30**	**0**	
Treated	52	**0 - 0**	**0 - 0**	**52**	**0-20**
Distribution	208	**0 - 0**	**0 – 0**	**52**	**0-120**

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 #)
Turbidity		
Raw Well #1	12	**0.46-1.96 NTU**
Raw Well #2	12	**0.10-0.65 NTU**
Raw Well#3	10	**0.07-0.44 NTU**
Treated	52	**0.06-0.35 NTU**
Distribution	208	**0.06-0.88 NTU**
Chlorine		
Treated	8760	**0.73-1.21mg/L**
Distribution	365	**0.38-1.18mg/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 28, 2022	ND	**µg/L**	no
Arsenic	Mar 28, 2022	ND	**µg/L**	no
Barium	Mar 28, 2022	267	**µg/L**	no
Boron	Mar 28, 2022	16	**µg/L**	no
Cadmium	Mar 28, 2022	0.005	**µg/L**	no
Chromium	Mar 28, 2022	ND	**µg/L**	no
***Lead**	See below			no
Mercury	Mar 28, 2022	ND	**µg/L**	no
Selenium	Mar 28, 2022	0.36	**µg/L**	no
Sodium	Mar 28, 2022	23.6	**mg/L**	yes
Uranium	Mar 28, 2022	1.22	**µg/L**	no
Fluoride	Mar 5, 2024	1.06	**mg/L**	no
Nitrite	Oct 25, 2024	ND	**mg/L**	no
Nitrate	Oct 25, 2024	2.01	**mg/L**	no

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential 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	**2**	**0.12** µg/L **-0.33** 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	**Mar 28,2022**	**ND**	**µg/L**	no
Atrazine	**Mar 28,2022**	**ND**	**µg/L**	no
Atrazine + N-dealkylated metobolites	**Mar 28,2022**	**ND**	**µg/L**	no
Azinphos-methyl	**Mar 28,2022**	**ND**	**µg/L**	no
Benzene	**Mar 28,2022**	**ND**	**µg/L**	no

Benzo(a)pyrene	**Mar 28,2022**	**ND**	**µg/L**	no
Bromoxynil	**Mar 28,2022**	**ND**	**µg/L**	no
Carbaryl	**Mar 28,2022**	**ND**	**µg/L**	no
Carbofuran	**Mar 28,2022**	**ND**	**µg/L**	no
Carbon Tetrachloride	**Mar 28,2022**	**ND**	**µg/L**	no
Chlorpyrifos	**Mar 28,2022**	**ND**	**µg/L**	no
Desethyl atrazine	**Mar 28,2022**	**ND**	**µg/L**	no
Diazinon	**Mar 28,2022**	**ND**	**µg/L**	no
Dicamba	**Mar 28,2022**	**ND**	**µg/L**	no
1,2-Dichlorobenzene	**Mar 28,2022**	**ND**	**µg/L**	no
1,4-Dichlorobenzene	**Mar 28,2022**	**ND**	**µg/L**	no
1,2-Dichloroethane	**Mar 28,2022**	**ND**	**µg/L**	no
1,1-Dichloroethylene (vinylidene chloride)	**Mar 28,2022**	**ND**	**µg/L**	no
Dichloromethane	**Mar 28,2022**	**ND**	**µg/L**	no
2,4 Dichlorophenol	**Mar 28,2022**	**ND**	**µg/L**	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	**Mar 28,2022**	**ND**	**µg/L**	no
Diclofop-methyl	**Mar 28,2022**	**ND**	**µg/L**	no
Dimethoate	**Mar 28,2022**	**ND**	**µg/L**	no
Diquat	**Mar 28,2022**	**ND**	**µg/L**	no
Diuron	**Mar 28,2022**	**ND**	**µg/L**	no
Glyphosate	**Mar 28,2022**	**ND**	**µg/L**	no
Malathion	**Mar 28,2022**	**ND**	**µg/L**	no
MCPA	**Mar 28,2022**	**ND**	**mg/L**	no
Metolachlor	**Mar 28,2022**	**ND**	**µg/L**	no
Metribuzin	**Mar 28,2022**	**ND**	**µg/L**	no
Monochlorobenzene	**Mar 28,2022**	**ND**	**µg/L**	no
Paraquat	**Mar 28,2022**	**ND**	**µg/L**	no
Pentachlorophenol	**Mar 28,2022**	**ND**	**µg/L**	no
Phorate	**Mar 28,2022**	**ND**	**µg/L**	no
Picloram	**Mar 28,2022**	**ND**	**µg/L**	no
Polychlorinated Biphenyls(PCB)	**Mar 28,2022**	**ND**	**µg/L**	no
Prometryne	**Mar 28,2022**	**ND**	**µg/L**	no
Simazine	**Mar 28,2022**	**ND**	**µg/L**	no
THM (annual average)	**2024**	**10.7**	**µg/L**	no
Terbufos	**Mar 28,2022**	**ND**	**µg/L**	no
Tetrachloroethylene	**Mar 28,2022**	**ND**	**µg/L**	no
2,3,4,6-Tetrachlorophenol	**Mar 28,2022**	**ND**	**µg/L**	no
Triallate	**Mar 28,2022**	**ND**	**µg/L**	no
Trichloroethylene	**Mar 28,2022**	**ND**	**µg/L**	no
2,4,6-Trichlorophenol	**Mar 28,2022**	**ND**	**µg/L**	no
Trifluralin	**Mar 28,2022**	**ND**	**µg/L**	no
Vinyl Chloride	**Mar 28,2022**	**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
Fluoride	1.06	mg/L	Mar 5, 2024