



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, 2021

<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 23 Albert St. Clinton Ontario</td> </tr> <tr> <td>Utilities Work Centre 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 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 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
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 []



**Ontario Drinking-Water Systems Regulation O. Reg. 170/03
Clinton Drinking Water System Annual Report 2021**

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 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
- Replace required equipment

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

At pumphouse chlorine gas system was replaced, high lift pump #1 was also replaced. Albert St water main and services replaced from Princess St W to main intersection, Princess St W main and services form Albert St to Orange St, Park Lane main and services from Albert St to Princess St E. Along with the Albert St construction project Well #3 raw water main was replaced under Park Lane as the old line was shallow prone to frost damage.

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
August 14, 2021	Class 2 Main repair	NA	NA	Boil water advisory, sample	August 20, 2021



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	51	0 - 0	0 - 0	0	
Well #2	51	0 - 0	0 - 0	0	
Well #3	51	0 - 0	0 - 0	0	
Treated	51	0 - 0	0 - 0	51	0-20
Distribution	204	0 - 0	0 - 0	51	0-190

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 #1	12	0.45-1.31 NTU
Raw Well #2	12	0.28-0.89 NTU
Raw Well#3	12	0.20-0.66 NTU
Treated	51	0.06-0.70 NTU
Distribution	210	0.11-1.01 NTU
<u>Chlorine</u>		
Treated	8760	0.71-1.39mg/L
Distribution	364	0.23-1.16mg/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



Ontario Drinking-Water Systems Regulation O. Reg. 170/03 Clinton Drinking Water System Annual Report 2021

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Mar 5, 2019	ND	µg/L	no
Arsenic	Mar 5, 2019	ND	µg/L	no
Barium	Mar 5, 2019	183	µg/L	no
Boron	Mar 5, 2019	16	µg/L	no
Cadmium	Mar 5, 2019	0.008	µg/L	no
Chromium	Mar 5, 2019	0.14	µg/L	no
*Lead	See below			no
Mercury	Mar 5, 2019	0.02	µg/L	no
Selenium	Mar 5, 2019	0.31	µg/L	no
Sodium	Jan 09, 2017	18.6	mg/L	no
Uranium	Mar 5, 2019	1.00	µg/L	no
Fluoride	Mar 5, 2019	0.98	mg/L	no
Nitrite	Oct1 26, 2021	ND	mg/L	no
Nitrate	Oct1 26, 2021	2.24	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	0.24-0.42ug/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



Ontario Drinking-Water Systems Regulation O. Reg. 170/03 Clinton Drinking Water System Annual Report 2021

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	8.0	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
Fluoride	0.98	mg/L	Mar 5, 2019



Ontario

**Drinking-Water Systems Regulation O. Reg. 170/03
Clinton Drinking Water System Annual Report 2021**