



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, 2017

<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 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 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
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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

Replacement of water main on James St. and Victoria Terrace.
Inspection and maintenance of Well #1 and replacement of pump.
Replacement of high lift #1 flow control valve.

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 2017					



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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 #)
Well #1Raw	48	0 - 0	0 - 1	0	
Well #2 Raw	52	0 - 0	0 - 0	0	
Well #3Raw	52	0 - 0	0 - 1	0	
Treated	52	0 - 0	0 - 0	52	0 - 30
Distribution	208	0 - 0	0 - 0	64	0 - 30

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>		
Well#1 Raw	11	0.35 – 1.66 NTU
Well#2 Raw	12	0.06 – 0.31 NTU
Well#3 Raw	12	0.13 – 0.38 NTU
Treated	52	0.06 – 0.29 NTU
Distribution	208	0.05 – 0.69 NTU
<u>Chlorine</u>		
Treated	8760	0.75-1.99mg/L
Distribution	364	0.37-1.15mg/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	Feb 16,2016	0.05	µg/L	no
Arsenic	Feb 16,2016	ND	µg/L	no
Barium	Feb 16,2016	224	µg/L	no
Boron	Feb 16,2016	15	µg/L	no



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Cadmium	Feb 16,2016	0.010	µg/L	no
Chromium	Feb 16,2016	ND	µg/L	no
*Lead	See below			no
Mercury	Feb 16,2016	ND	µg/L	no
Selenium	Feb 16,2016	0.39	µg/L	no
Sodium	Jan 09,2017	18.6	mg/L	no
Uranium	Feb 16,2016	1.34	µg/L	no
Fluoride	Jan 20,2014	1.19	mg/L	no
Nitrite	Oct11, 2017	2.06	mg/L	no
Nitrate	Oct11, 2017	2.06	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		
Distribution	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	Feb 16,2016	ND	µg/L	no
Atrazine + N-dealkylated metabolites	Feb 16,2016	ND	µg/L	no
Atrazine	Feb 16,2016	ND	µg/L	no
Azinphos-methyl	Feb 16,2016	ND	µg/L	no
Benzene	Feb 16,2016	ND	µg/L	no
Benzo(a)pyrene	Feb 16,2016	ND	µg/L	no
Bromoxynil	Feb 16,2016	ND	µg/L	no
Carbaryl	Feb 16,2016	ND	µg/L	no
Carbofuran	Feb 16,2016	ND	µg/L	no
Carbon Tetrachloride	Feb 16,2016	ND	µg/L	no
Chlorpyrifos	Feb 16,2016	ND	µg/L	no
Desethyl atrazine	Feb 16,2016	ND	µg/L	no
Diazinon	Feb 16,2016	ND	µg/L	no
Dicamba	Feb 16,2016	ND	µg/L	no
1,2-Dichlorobenzene	Feb 16,2016	ND	µg/L	no
1,4-Dichlorobenzene	Feb 16,2016	ND	µg/L	no



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Dichlorodiphenyltrichloroethane (DDT) + metabolites	Feb 16,2016	ND	µg/L	no
1,2-Dichloroethane	Feb 16,2016	ND	µg/L	no
1,1-Dichloroethylene (vinylidene chloride)	Feb 16,2016	ND	µg/L	no
Dichloromethane	Feb 16,2016	ND	µg/L	no
2-4 Dichlorophenol	Feb 16,2016	ND	µg/L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb 16,2016	ND	µg/L	no
Diclofop-methyl	Feb 16,2016	ND	µg/L	no
Dimethoate	Feb 16,2016	ND	µg/L	no
Diquat	Feb 16,2016	ND	µg/L	no
Diuron	Feb 16,2016	ND	µg/L	no
Glyphosate	Feb 16,2016	ND	µg/L	no
Malathion	Feb 16,2016	ND	µg/L	no
MCPA (2-methyl-4-chlorophenoxyacetic acid)	Feb 16,2016	ND	mg/L	no
Metolachlor	Feb 16,2016	ND	µg/L	no
Metribuzin	Feb 16,2016	ND	µg/L	no
Monochlorobenzene	Feb 16,2016	ND	µg/L	no
Paraquat	Feb 16,2016	ND	µg/L	no
Pentachlorophenol	Feb 16,2016	ND	µg/L	no
Phorate	Feb 16,2016	ND	µg/L	no
Picloram	Feb 16,2016	ND	µg/L	no
Polychlorinated Biphenyls(PCB)	Feb 16,2016	ND	µg/L	no
Prometryne	Feb 16,2016	ND	µg/L	no
Simazine	Feb 16,2016	ND	µg/L	no
THM (annual average)	Feb 16,2016	7.55	µg/L	no
Terbufos	Feb 16,2016	ND	µg/L	no
Tetrachloroethylene(perchloroethylene)	Feb 16,2016	ND	µg/L	no
2,3,4,6-Tetrachlorophenol	Feb 16,2016	ND	µg/L	no
Triallate	Feb 16,2016	ND	µg/L	no
Trichloroethylene	Feb 16,2016	ND	µg/L	no
2,4,6-Trichlorophenol	Feb 16,2016	ND	µg/L	no
Trifluralin	Feb 16,2016	ND	µg/L	no
Vinyl Chloride	Feb 16,2016	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	1.19	mg/L	Jan 20,2014