

ANNUAL REPORT

Drinking-Water System Number:	220003396
Drinking-Water System Name:	Stoney Point Water Treatment Plant/Water Service Area
Drinking-Water System Owner:	Municipality of Lakeshore
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 01, 2020 to December 31, 2020

Does this Drinking-Water System serve more than 10,000 people? Yes [] No [X]

**Is this annual report available to the public at no charge on a web site on the Internet?
Yes [X] No []**

Location where this system's Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Municipality of Lakeshore
Municipal Office
419 Notre Dame Street
Belle River, Ont
NOR 1A0

Drinking-Water Systems which receive all of their drinking water from this system:

Drinking Water System Name	Drinking Water System Number
None	

How system users are told that this 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.**

Description of the Drinking-Water System during this reporting period

The Stoney Point Water Service Area (SPWSA) serves the eastern portion of the Municipality of Lakeshore generally from Lake St.Clair south to County Rd.8 and Rochester Townline Road east to Big Creek. The SPWSA is supplied from the Stoney Point Water Treatment Plant. The plant processes include coagulation, flocculation, sedimentation, filtration, taste and odour control, zebra mussel control and chlorination systems. Approximately 6,320 Lakeshore residents are served in the SPWSA. The SPWSA includes 208km of water distribution piping ranging in size from 25 to 300 mm in diameter. The distribution system disinfection is by free chlorine residual. The SPWSA also includes the Haycroft reservoir/pumping station and the Comber reservoir/pumping station, both of which provide storage, re-disinfection and pumping in the SPWSA.

List of all water treatment chemicals used over this reporting period

Aluminum Sulphate, Activated Carbon, Chlorine Gas

Significant expenses incurred during this reporting period to:

- Install required equipment
- Repair required equipment
- Replace required equipment

A brief description and a breakdown of monetary expenses incurred

Solids Contact Clarifier rehabilitation	- \$850,956
Turbidity Meter Replacements	- \$40,000
PLC & SCADA Upgrades – Comber & Haycroft PS's	- \$53,000

Details of 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					

Microbiological testing done under the Schedule 10 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	52	0 – 280	0 - 2000	N/A	N/A
Treated	104	0 – 0	0 – 0	104	0 – 20
Distribution	260	0 – 0	0 – 0	104	0 – 10

Operational testing done under Schedule 7 of Regulation 170/03 during this reporting period.

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
Turbidity (filter avg)	8760	0.01 – 0.19	NTU
Chlorine	8760	1.35 – 2.24	Mg/L
All Distribution Free Chlorine Residuals	1070	0.10 – 2.06	Mg/L

NOTE: 8760 indicates that continuous monitors were used for sampling.

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
June 6, 2016 DWWL 031-101 (issue 02)	Suspended Solids	Running Annual Average	12.78	Mg/L

Summary of Inorganic parameters tested during this reporting period

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	December 7, 2020	ND	Mg/l	NO
Arsenic	December 7, 2020	ND	Mg/l	NO
Barium	December 7, 2020	0.018	Mg/l	NO
Boron	December 7, 2020	0.05	Mg/l	NO
Cadmium	December 7, 2020	ND	Mg/l	NO
Chromium	December 7, 2020	ND	Mg/l	NO
Mercury	December 7, 2020	ND	Mg/l	NO
Selenium	December 7, 2020	ND	Mg/l	NO
Sodium	December 1, 2020	8.98	Mg/l	NO
Uranium	December 7, 2020	ND	Mg/l	NO
Fluoride	December 1, 2020	ND	Mg/l	NO
Nitrite	Annual average	ND	Mg/l	NO
Nitrate	Annual average	0.782	Mg/l	NO

Summary of Alkalinity and pH testing done under Schedule 15.1 during this reporting period

Location Type Distribution	Number of Samples	Alkalinity Result (range 30 – 500)	Unit of Measure	Field pH	Number of Exceedances
Winter Session					
s/stn SP-019	1	87	Mg/l	7.7	N/A
s/stn SP-025	1	104	Mg/l	8.2	N/A

s/stn SP-008	1	87	Mg/l	8.2	N/A
s/stn SP-018	1	99	Mg/l	8.3	N/A
Summer Session					
s/stn SP-019	1	89	Mg/l	7.65	N/A
s/stn SP-025	1	80	Mg/l	7.78	N/A
s/stn SP-008	1	75	Mg/l	7.90	N/A
s/stn SP-018	1	72	Mg/l	7.86	N/A

Summary of Organic parameters sampled during this reporting period

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	December 1, 2020	ND	Mg/l	NO
Atrazine + N-dealkylated metabolites	December 1, 2020	ND	Mg/l	NO
Azinphos-methyl	December 1, 2020	ND	Mg/l	NO
Benzene	December 1, 2020	ND	Mg/l	NO
Benzo(a)pyrene	December 1, 2020	ND	Mg/l	NO
Bromoxynil	December 1, 2020	ND	Mg/l	NO
Carbaryl	December 1, 2020	ND	Mg/l	NO
Carbofuran	December 1, 2020	ND	Mg/l	NO
Carbon Tetrachloride	December 1, 2020	ND	Mg/l	NO
Chlorpyrifos	December 1, 2020	ND	Mg/l	NO
Diazinon	December 1, 2020	ND	Mg/l	NO
Dicamba	December 1, 2020	ND	Mg/l	NO
1,2-Dichlorobenzene	December 1, 2020	ND	Mg/l	NO
1,4-Dichlorobenzene	December 1, 2020	ND	Mg/l	NO
Dichlorodiphenyltrichloroethane (DDT) + metabolites	December 1, 2020	ND	Mg/l	NO
1,2-Dichloroethane	December 1, 2020	ND	Mg/l	NO
1,1-Dichloroethylene (vinylidene chloride)	December 1, 2020	ND	Mg/l	NO
Dichloromethane	December 1, 2020	ND	Mg/l	NO
2-4 Dichlorophenol	December 1, 2020	ND	Mg/l	NO
2,4-Dichlorophenoxy acetic acid (2,4-D)	December 1, 2020	ND	Mg/l	NO
Diclofop-methyl	December 1, 2020	ND	Mg/l	NO
Dimethoate	December 1, 2020	ND	Mg/l	NO
Diquat	December 1, 2020	ND	Mg/l	NO
Diuron	December 1, 2020	ND	Mg/l	NO
Glyphosate	December 1, 2020	ND	Mg/l	NO
HAA's – distribution only	Running Annual Average	0.038	Mg/L	NO

MCPA	December 1, 2020	ND	Mg/L	NO
Malathion	December 1, 2020	ND	Mg/l	NO
Metolachlor	December 1, 2020	ND	Mg/l	NO
Metribuzin	December 1, 2020	ND	Mg/l	NO
Monochlorobenzene	December 1, 2020	ND	Mg/l	NO
Paraquat	December 1, 2020	ND	Mg/l	NO
Pentachlorophenol	December 1, 2020	ND	Mg/l	NO
Phorate	December 1, 2020	ND	Mg/l	NO
Picloram	December 1, 2020	ND	Mg/l	NO
Polychlorinated Biphenyls(PCB)	December 1, 2020	ND	Mg/l	NO
Prometryne	December 1, 2020	ND	Mg/l	NO
Simazine	December 1, 2020	ND	Mg/l	NO
THM - treatment	Running Annual Average	0.027	Mg/l	NO
THM - distribution	Running Annual Average	0.041	Mg/l	NO
Terbufos	December 1, 2020	ND	Mg/l	NO
Tetrachloroethylene	December 1, 2020	ND	Mg/l	NO
2,3,4,6-Tetrachlorophenol	December 1, 2020	ND	Mg/l	NO
Triallate	December 1, 2020	ND	Mg/l	NO
Trichloroethylene	December 1, 2020	ND	Mg/l	NO
2,4,6-Trichlorophenol	December 1, 2020	ND	Mg/l	NO
Trifluralin	December 1, 2020	ND	Mg/l	NO
Vinyl Chloride	December 1, 2020	ND	Mg/l	NO

List of 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
None			