

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:	260034996
Drinking-Water System Name:	Molesworth Drinking Water System
Drinking-Water System Owner:	Municipality of North Perth
Drinking-Water System Category:	Municipal Small Residential
Period being reported:	Jan 1, 2018 to Dec 31, 2018

<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> <div style="border: 1px solid black; padding: 5px;"> 330 Wallace Ave. North, Listowel, Ontario, N4W 1L3 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; width: 100px; text-align: center; padding: 2px;">0</div> </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: <div style="border: 1px solid black; width: 100px; text-align: center; padding: 2px;">0</div> </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>
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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
N/A	

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 Molesworth Drinking Water System has 44 service connections and consists of a drilled well , a chlorination system using sodium hypochlorite, an iron sequestering system using sodium polyphosphate, a flow meter, 4 large pressure tanks, and chemical dosing pumps. When pressure drops in the distribution system to a predetermined level, the well pump automatically starts and recharges the pressure tanks. Two chemical feed pumps also start automatically adding predetermined quantities of Sodium Hypochlorite and Sodium Silicate to the water.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite, Sodium Silicate

Were any significant expenses incurred to?

Install equipment

Repair required equipment

Replace required equipment

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

No significant expenses were incurred in 2018

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

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 #)	Range of HPC Results (min #)-(max #)	Range of Background Results (min #)-(max #)
Raw	13	0 – 0	0 – 0		0 – 0
Treated	0				
Distribution	31	0 – 0	0 – 0	0 – 1	0 - 0

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	12	0.35 – 0.69 NTU
Chlorine	8760	0 – 3.33
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
N/A				

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	Aug 12/15	None Detected	ug/L	No
Arsenic	Aug 12/15	2.1	ug/L	No
Barium	Aug 12/15	49	ug/L	No
Boron	Aug 12/15	32	ug/L	No
Cadmium	Aug 12/15	None Detected	ug/L	No
Chromium	Aug 12/15	None Detected	ug/L	No
Mercury	Aug 12/15	None Detected	mg/L	No
Selenium	Aug 12/15	None Detected	ug/L	No
Sodium	Aug 12/15	11000	ug/L	No
Uranium	Aug 12/15	0.77	ug/L	No

Fluoride	Aug 12/15	0.96	mg/L	No
Nitrite	Feb 8/18	None Detected	mg/L	No
Nitrite	May 9/18	None Detected	mg/L	No
Nitrite	Aug 7/18	None Detected	mg/L	No
Nitrite	Nov 12/18	None Detected	mg/L	No
Nitrate	Feb 8/18	None Detected	mg/L	No
Nitrate	May 9/18	None Detected	mg/L	No
Nitrate	Aug 7/18	None Detected	mg/L	No
Nitrate	Nov 12/18	None Detected	mg/L	No

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	N/A	N/A	N/A
Distribution	N/A	N/A	N/A

- Molesworth qualified for reduced lead sampling in 2018

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	Aug 12/15	None detected	mg/l	No
Atrazine + N-dealkylated metabolites	Aug 12/15	None detected	mg/l	No
Azinphos-methyl	Aug 12/15	None detected	mg/l	No
Benzene	Aug 12/15	None detected	mg/l	No
Benzo(a)pyrene	Aug 12/15	None detected	mg/l	No
Bromoxynil	Aug 12/15	None detected	mg/l	No
Carbaryl	Aug 12/15	None detected	mg/l	No
Carbofuran	Aug 12/15	None detected	mg/l	No
Carbon Tetrachloride	Aug 12/15	None detected	mg/l	No
Chlorpyrifos	Aug 12/15	None detected	mg/l	No
Diazinon	Aug 12/15	None detected	mg/l	No
Dicamba	Aug 12/15	None detected	mg/l	No
1,2-Dichlorobenzene	Aug 12/15	None detected	mg/l	No
1,4-Dichlorobenzene	Aug 12/15	None detected	mg/l	No
1,2-Dichloroethane	Aug 12/15	None detected	mg/l	No
1,1-Dichloroethylene (vinylidene chloride)	Aug 12/15	None detected	mg/l	No
Dichloromethane	Aug 12/15	None detected	mg/l	No
2-4 Dichlorophenol	Aug 12/15	None detected	mg/l	No

2,4-Dichlorophenoxy acetic acid (2,4-D)	Aug 12/15	None detected	mg/l	No
Diclofop-methyl	Aug 12/15	None detected	mg/l	No
Dimethoate	Aug 12/15	None detected	mg/l	No
Diquat	Aug 12/15	None detected	mg/l	No
Diuron	Aug 12/15	None detected	mg/l	No
Glyphosate	Aug 12/15	None detected	mg/l	No
HAA (running annual average)	2018	10.15	mg/l	No
Malathion	Aug 12/15	None detected	mg/l	No
Metolachlor	Aug 12/15	None detected	mg/l	No
Metribuzin	Aug 12/15	None detected	mg/l	No
Monochlorobenzene	Aug 12/15	None detected	mg/l	No
Paraquat	Aug 12/15	None detected	mg/l	No
Pentachlorophenol	Aug 12/15	None detected	mg/l	No
Phorate	Aug 12/15	None detected	mg/l	No
Picloram	Aug 12/15	None detected	mg/l	No
Polychlorinated Biphenyls(PCB)	Aug 12/15	None detected	mg/l	No
Prometryne	Aug 12/15	None detected	mg/l	No
Simazine	Aug 12/15	None detected	mg/l	No
THM (running annual average)	2018	14.05	ug/l	No
Terbufos	Aug 12/15	None detected	mg/l	No
Tetrachloroethylene	Aug 12/15	None detected	mg/l	No
2,3,4,6-Tetrachlorophenol	Aug 12/15	None detected	mg/l	No
Triallate	Aug 12/15	None detected	mg/l	No
Trichloroethylene	Aug 12/15	None detected	mg/l	No
2,4,6-Trichlorophenol	Aug 12/15	None detected	mg/l	No
Trifluralin	Aug 12/15	None detected	mg/l	No
Vinyl Chloride	Aug 12/15	None detected	mg/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	0.96	Mg/L	Aug 12/15

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)