

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	260065260
Drinking-Water System Name:	Atwood Drinking Water System
Drinking-Water System Owner:	Municipality of North Perth
Drinking-Water System Category:	Municipal Large Residential
Period being reported:	Jan 1, 2020 to Dec 31, 2020

<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; min-height: 100px;"> 330 Wallace Ave. North, Listowel, Ontario, N4W 1L3 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 50px;" type="text" value="0"/></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: 50px;" type="text" value="0"/></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 Atwood Drinking Water System receives raw water from Well 1(Danbrook) located adjacent to the pumphouse and Well 2 (Smith) located at 102 Parkview Crescent. All treatment of raw water from both sources takes place at the Atwood pumphouse where Sodium Hypochlorite is added for disinfection and Sodium Silicate is added for iron sequestering. The treated water is discharged to a reservoir. Three high lift pumps deliver the treated water from the reservoir to the distribution system via five hydropneumatic pressure tanks. The hydropneumatic tanks reduce the cycling of the high lift pumps and maintain pressure within the distribution system.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite, Sodium Silicate

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

- Replaced High Lift Pump - \$10,000

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
N/A					

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

Well #1

	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	52	0 – 0	0 - 0		0 - 0

Well #2

	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	52	0 – 0	0 – 6		0 - 21

Reservoir

	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 #)
Treated	52	0 – 0	0 – 0	0 – 1	0 – 0

Atwood Distribution System

	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 #)
185 Ellen Street	52	0 – 0	0 – 0	0 – 14	0 - 0
Public Works Garage	52	0 – 0	0 – 0	0 – 3	0 – 1

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Well #1

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	12	0.15 – 0.31 NTU
Fluoride (If the DWS provides fluoridation)	N/A	

***NOTE:** Record the unit of measure if it is **not** milligrams per litre.*

Well #2

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	12	0.14 – 0.48 NTU
Fluoride (If the DWS provides fluoridation)	N/A	

***NOTE:** Record the unit of measure if it is **not** milligrams per litre.*

Reservoir – Treated Water

	Number of Grab Samples	Range of Results (min #)-(max #)
Chlorine	8760	0 – 2.18
Fluoride (If the DWS provides fluoridation)	N/A	

***NOTE:** For continuous monitors use 8760 as the number of samples.*

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

Summary of Inorganic parameters tested during this reporting period or the most recent sample results
Reservoir – Treated Water

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Aug 7/18	None Detected	ug/L	No
Arsenic	Aug 7/18	4.35	ug/L	No
Barium	Aug 7/18	83.3	ug/L	No
Boron	Aug 7/18	54	ug/L	No
Cadmium	Aug 7/18	None Detected	ug/L	No
Chromium	Aug 7/18	2.91	ug/L	No
Mercury	Aug 7/18	None Detected	mg/L	No
Selenium	Aug 7/18	None Detected	ug/L	No
Sodium	Aug 7/18	22.6	mg/L	Yes
Sodium (retest)	Aug 15/18	22.8	mg/L	Yes (No action required)
Uranium	Aug 7/18	0.63	ug/L	No
Fluoride	Aug 7/18	1.19	mg/L	No
Nitrite	Feb 13/20	None Detected	mg/L	No
Nitrite	May 11/20	None Detected	mg/L	No
Nitrite	Aug 12/20	None Detected	mg/L	No
Nitrite	Nov 10/20	None Detected	mg/L	No
Nitrate	Feb 13/20	0.074	mg/L	No
Nitrate	May 11/20	0.087	mg/L	No
Nitrate	Aug 12/20	0.062	mg/L	No
Nitrate	Nov 10/20	0.066	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	2	<0.1 - <0.1	None

- Atwood qualifies for reduced lead sampling in 2020

Summary of Organic parameters sampled during this reporting period or the most recent sample results
Reservoir – Treated Water

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Aug 7/18	None Detected	ug/L	No
Atrazine + N-dealkylated metabolites	Aug 7/18	None Detected	ug/L	No
Azinphos-methyl	Aug 7/18	None Detected	ug/L	No
Benzene	Aug 7/18	None Detected	ug/L	No
Benzo(a)pyrene	Aug 7/18	None Detected	ug/L	No
Bromoxynil	Aug 7/18	None Detected	ug/L	No
Carbaryl	Aug 7/18	None Detected	ug/L	No
Carbofuran	Aug 7/18	None Detected	ug/L	No
Carbon Tetrachloride	Aug 7/18	None Detected	ug/L	No
Chlorpyrifos	Aug 7/18	None Detected	ug/L	No
Diazinon	Aug 7/18	None Detected	ug/L	No
Dicamba	Aug 7/18	None Detected	ug/L	No
1,2-Dichlorobenzene	Aug 7/18	None Detected	ug/L	No
1,4-Dichlorobenzene	Aug 7/18	None Detected	ug/L	No
1,2-Dichloroethane	Aug 7/18	None Detected	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Aug 7/18	None Detected	ug/L	No
Dichloromethane	Aug 7/18	None Detected	ug/L	No
2-4 Dichlorophenol	Aug 7/18	None Detected	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Aug 7/18	None Detected	ug/L	No
Diclofop-methyl	Aug 7/18	None Detected	ug/L	No
Dimethoate	Aug 7/18	None Detected	ug/L	No
Diquat	Aug 7/18	None Detected	ug/L	No
Diuron	Aug 7/18	None Detected	ug/L	No
Glyphosate	Aug 7/18	None Detected	ug/L	No
HAA (running annual average)	2020	6.875	ug/L	No
Malathion	Aug 7/18	None Detected	ug/L	No
Metolachlor	Aug 7/18	None Detected	ug/L	No
Metribuzin	Aug 7/18	None Detected	ug/L	No
Monochlorobenzene	Aug 7/18	None Detected	ug/L	No
Paraquat	Aug 7/18	None Detected	ug/L	No
Pentachlorophenol	Aug 7/18	None Detected	ug/L	No
Phorate	Aug 7/18	None Detected	ug/L	No
Picloram	Aug 7/18	None Detected	ug/L	No
Polychlorinated Biphenyls(PCB)	Aug 7/18	None Detected	ug/L	No
Prometryne	Aug 7/18	None Detected	ug/L	No
Simazine	Aug 7/18	None Detected	ug/L	No

THM (running annual average)	2020	17.9	ug/L	No
Terbufos	Aug 7/18	None Detected	ug/L	No
Tetrachloroethylene	Aug 7/18	None Detected	ug/L	No
2,3,4,6-Tetrachlorophenol	Aug 7/18	None Detected	ug/L	No
Triallate	Aug 7/18	None Detected	ug/L	No
Trichloroethylene	Aug 7/18	None Detected	ug/L	No
2,4,6-Trichlorophenol	Aug 7/18	None Detected	ug/L	No
Trifluralin	Aug 7/18	None Detected	ug/L	No
Vinyl Chloride	Aug 7/18	None Detected	ug/L	No
2-Methyl-4-chlorophenoxyacetic Acid MCPA	Aug. 7/18	None Detected	ug/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	1.19	Mg/l	Aug 7/18

(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)