



Aylmer Distribution System Annual Report - 2020

<b>Drinking-Water System Number:</b>	260002136
<b>Drinking-Water System Name:</b>	Aylmer Distribution System
<b>Drinking-Water System Owner:</b>	The Corporation of the Town of Aylmer
<b>Drinking-Water System Category:</b>	Large Municipal
<b>Period being reported:</b>	January 1, 2020 to December 31, 2020

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></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 Aylmer Distribution System Annual Report required under O. Reg. 170/03 Schedule 11 will be available for viewing inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Town of Aylmer 46 Talbot St W Aylmer, Ontario N5H 1J7</p> </div>	<p><b><u>Complete for all other Categories.</u></b></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>
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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
Malahide Distribution System -Dingle Street -Talbot Street East	#260004774



**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**

**Treated water is supplied to the Town of Aylmer from the Elgin Water Treatment Plant via the Elgin Area Primary Water Supply System, the Elgin- Middlesex Reservoir, and the Aylmer Secondary System. When required, two pumps, located at the Elgin-Middlesex Pumping Station in St. Thomas, pump water to Aylmer through a 450 mm dia. secondary transmission main (the Aylmer Secondary System). The main leaves the Pumping Station and proceeds along the north side of Hwy #3, through the Municipality of Central Elgin and Malahide Township until it connects to the Aylmer Distribution System at Bodkin Ave. Depending on system pressure and demand, the Secondary System may be used to directly feed the Distribution System or may be used to fill a 4,300 m3 standpipe located at 23 Myrtle Street. There is a continuous chlorine monitor, a tower level indicator and pressure sensor located at the standpipe.**

**The Aylmer Distribution System consists of approximately 42 kilometers of water main of varying sizes (50 mm to 450mm) and types (cast iron, ductile iron, DR-18 plastic, transite). There are nine meter chambers, 215 fire hydrants and approximately 370 street valves within the system.**

**List all water treatment chemicals used over this reporting period**

**No Treatment chemicals were used as the Aylmer Distribution System receives treated water from the Aylmer Secondary System. Re-chlorination occurs at the Elgin Middlesex Pumping station before water is pumped to Aylmer. Sodium hypochlorite is used for disinfecting parts during repairs as per AWWA C651 Standard.**



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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

Chlorine analyzer replacement.....	\$9,175
Meter replacement project.....	\$45,391
*No Capital projects in 2020	

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 #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	N/A				
Treated	N/A				
Distribution	220	0	0	105	<10 to 1880



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

	<b>Number of Grab Samples</b>	<b>Range of Results (min #)-(max #)</b>	<b>Unit of Measure</b>
<b>Turbidity</b>	N/A		
<b>Chlorine (Free)</b>	298 grab 8760 at Tower	0.51 to 1.28 0.00 to 1.60	mg/L mg/L
<b>Fluoride (If the DWS provides fluoridation)</b>	N/A		

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

**Note:** There were a few instances in 2020 when the water distribution free chlorine residual was recorded below 0.05 mg/L by the continuous online analyzer. Each of these events coincided with operational maintenance, loss of power or equipment failure and do not reflect the actual free chlorine residual maintained in the distribution system

**Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.**

<b>Date of legal instrument issued</b>	<b>Parameter</b>	<b>Date Sampled</b>	<b>Result</b>	<b>Unit of Measure</b>
N/A				

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

<b>Parameter</b>	<b>Sample Date</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Exceedance</b>
<b>Antimony</b>				
<b>Arsenic</b>				
<b>Barium</b>				
<b>Boron</b>				
<b>Cadmium</b>				
<b>Chromium</b>				
<b>*Lead</b>				
<b>Mercury</b>				
<b>Selenium</b>				
<b>Sodium</b>				
<b>Uranium</b>				
<b>Fluoride</b>				



Nitrite				
Nitrate				

\*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 #)	Unit of Measure	Number of Exceedances
Plumbing	0			
Distribution	16	0.10 to 0.53	ug/L	0
pH	16	6.90 to 7.54		0
Alkalinity	16	90 to 102	mg/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				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				



<b>Cyanazine</b>				
<b>Diazinon</b>				
<b>Dicamba</b>				
<b>1,2-Dichlorobenzene</b>				
<b>1,4-Dichlorobenzene</b>				
<b>Dichlorodiphenyltrichloroethane (DDT) + metabolites</b>				
<b>1,2-Dichloroethane</b>				
<b>1,1-Dichloroethylene (vinylidene chloride)</b>				
<b>Dichloromethane</b>				
<b>2,4 Dichlorophenol</b>				
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>				
<b>Diclofop-methyl</b>				
<b>Dimethoate</b>				
<b>Dinoseb</b>				
<b>Diquat</b>				
<b>Diuron</b>				
<b>Glyphosate</b>				
<b>HAA</b> (NOTE: show latest annual average)	2020	21.5	ug/L	No
<b>Heptachlor + Heptachlor Epoxide</b>				
<b>Lindane (Total)</b>				
<b>Malathion</b>				
<b>Methoxychlor</b>				
<b>Metolachlor</b>				
<b>Metribuzin</b>				
<b>Monochlorobenzene</b>				
<b>Paraquat</b>				
<b>Parathion</b>				
<b>Pentachlorophenol</b>				
<b>Phorate</b>				
<b>Picloram</b>				
<b>Polychlorinated Biphenyls(PCB)</b>				
<b>Prometryne</b>				
<b>Simazine</b>				
<b>THM</b> (NOTE: show latest annual average)	2020	24.0	ug/L	No
<b>Temephos</b>				
<b>Terbufos</b>				
<b>Tetrachloroethylene</b>				



2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

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