



ANNUAL REPORT

Drinking-Water System Number:	260087048
Drinking-Water System Name:	Leamington (Wheatley) Drinking Water System
Drinking-Water System Owner:	Leamington
Drinking-Water System Category:	Large Municipal Year Round Residential
Period being reported:	January 1 – December 31, 2020

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

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

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

Chatham-Kent P.U.C.
325 Grand Ave. East
P.O. Box 1191
Chatham, ON
N7M 5L8



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
None	

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 Leamington (Wheatley) DWS forms part of a stand-alone water distribution system owned by the Municipality of Leamington. The other subsystem which forms part of it is the Leamington (Union) Distribution System. They are both connected to each other at several inter-connections valves which are closed at all times except in emergency situations. This distribution system does not contain storage, pumping or re-chlorination facilities. There are 181 residential and commercial service connections served by the Leamington (Wheatley) Distribution System. It therefore falls into the 'large municipal residential' category under O. Regulation 170/03. Treated drinking water is supplied by the Wheatley Drinking Water System which is owned and operated by the Chatham-Kent Public Utilities Commission which takes its source of raw water from Lake Erie. Pressure in the distribution system is maintained by the Wheatley tower which the Chatham-Kent PUC governs by controlling tower levels. A water supply agreement between Chatham-Kent PUC and Municipality of Leamington was renewed 2016 January 1. This agreement authorises Chatham-Kent PUC to conduct testing and monitoring services of the Leamington (Wheatley) DS in accordance with the provisions of O. Reg. 170/03 s. 5 (4) on Leamington's behalf. Leamington's Water Services is responsible for all other aspects of the operation, including maintenance and repairs of the water distribution infrastructure.



List all water treatment chemicals used over this reporting period

None

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

None

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
June 16	Total Coliform	1	cfu/100mL	Flush, resample and test	June 16

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					
Point of Entry (Treated)					
Distribution	154	0 - 0	0 - 1	151	<10 - 990

Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report. Chlorine residuals are from weekly distribution samples (4 & 3) and from microbiological distribution sample chlorine residuals under Section 7-2.(4)1.&2.



	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity		
Chlorine	210	0.57 – 1.60 mg/L
Fluoride	Not Provided	

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
None				

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

The following parameters are sampled by the donor system.	Sample Date	Result Value	MAC Limit	Unit of Measure	Exceedance
Antimony	Aug 17	<0.50	6	ug/L	No
Arsenic	Aug 17	<1.0	10	ug/L	No
Barium	Aug 17	17	1000	ug/L	No
Boron	Aug 17	15	5000	ug/L	No
Cadmium	Aug 17	<0.090	5	ug/L	No
Chromium	Aug 17	<5.0	50	ug/L	No
*Lead	See Schedule 15.1 Summary				
Mercury	Aug 17	<0.00010	0.001	mg/L	No
Selenium	Aug 17	<2.0	50	ug/L	No
Sodium	Nov 16	6.9	20	mg/L	No
Uranium	Aug 17	<0.10	20	ug/L	No
Fluoride	Nov 16	<0.10	1.5	mg/L	No
Nitrite	Nov 16	<0.010	1	mg/L	No
Nitrate	Nov 16	0.10	10	mg/L	No
Nitrite + Nitrate	Nov 16	0.10	-	mg/L	No

Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results ug/L (min#) – (max #)	MAC Limit ug/L	Number of Exceedances / Adverses
Residential	0			

Non-Residential	0			
Distribution	2	<0.50 – <0.50	10	0

Summary of Organic parameters sampled during this reporting period or the most recent sample results

The following parameters are sampled by the donor system.	Sample Date	Result Value	MAC Limits	Unit of Measure	Exceedance
Alachlor	Aug 17	<0.50	5	ug/L	No
Atrazine + N-dealkylated metabolites	Aug 17	<1.0	5	ug/L	No
Azinphos-methyl	Aug 17	<2.0	20	ug/L	No
Benzene	Aug 17	<0.10	1	ug/L	No
Benzo(a)pyrene	Aug 17	<0.0050	0.01	ug/L	No
Bromoxynil	Aug 17	<0.50	5	ug/L	No
Carbaryl	Aug 17	<5.0	90	ug/L	No
Carbofuran	Aug 17	<5.0	90	ug/L	No
Carbon Tetrachloride	Aug 17	<0.10	2	ug/L	No
Chlorpyrifos (Dursban)	Aug 17	<1.0	90	ug/L	No
Diazinon	Aug 17	<1.0	20	ug/L	No
Dicamba	Aug 17	<1.0	120	ug/L	No
1,2-Dichlorobenzene	Aug 17	<0.20	200	ug/L	No
1,4-Dichlorobenzene	Aug 17	<0.20	5	ug/L	No
1,2-Dichloroethane	Aug 17	<0.20	5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Aug 17	<0.10	14	ug/L	No
Dichloromethane	Aug 17	<0.50	50	ug/L	No
2-4 Dichlorophenol	Aug 17	<0.25	900	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Aug 17	<1.0	100	ug/L	No
Diclofop-methyl	Aug 17	<0.90	9	ug/L	No
Dimethoate	Aug 17	<2.5	20	ug/L	No
Diquat	Aug 17	<7.0	70	ug/L	No
Diuron	Aug 17	<10	150	ug/L	No
Ethylbenzene	Aug 17	<0.10	140	ug/L	No
Glyphosate	Aug 17	<10	280	ug/L	No
Haloacetic Acids (HAA)	Feb 10 Feb 10 (lab dup) May 13 Aug 17 Aug 17(lab dup) Nov 16	18 20 22 26 30 24	80	ug/L	No
Running Annual Average: 23.3					
Malathion	Aug 17	<5.0	190	ug/L	No
2 Methyl-4-chlorophenoxyacetic acid (MCPA)	Aug 17	<10	100	ug/L	No
Metolachlor	Aug 17	<0.50	190	ug/L	No
Metribuzin (Sencor)	Aug 17	<5.0	80	ug/L	No
Monochlorobenzene	Aug 17	<0.10	80	ug/L	No
Paraquat	Aug 17	<1.0	10	ug/L	No
Pentachlorophenol	Aug 17	<0.50	60	ug/L	No
Phorate	Aug 17	<0.50	2	ug/L	No



Picloram	Aug 17	<5.0	190	ug/L	No
Polychlorinated Biphenyls(PCB)	Aug 17	<0.05	3	ug/L	No
Prometryne	Aug 17	<0.25	1	ug/L	No
Simazine	Aug 17	<1.0	10	ug/L	No
Terbufos	Aug 17	<0.50	1	ug/L	No
Tetrachloroethylene	Aug 17	<0.10	10	ug/L	No
2,3,4,6-Tetrachlorophenol	Aug 17	<0.50	100	ug/L	No
Trihalomethanes (THM)	Feb 10 May 4 Aug 17 Nov 16 Nov 16 (lab dup)	22.9 30.5 48.2 38.0 37.6	100	ug/L	No
Running Annual Average: 34.9					
Toluene	Aug 17	<0.20	60	ug/L	No
Triallate	Aug 17	<1.0	230	ug/L	No
Trichloroethylene	Aug 17	<0.10	5	ug/L	No
2,4,6-Trichlorophenol	Aug 17	<0.50	5	ug/L	No
Trifluralin	Aug 17	<1.0	45	ug/L	No
Vinyl Chloride	Aug 17	<0.20	1	ug/L	No
Xylenes	Aug 17	<0.10	90	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
None			

Summary of additional voluntary sampling and testing during this reporting period.

Parameter	Sample Date	Result: Raw – Before Treatment	Result: Point of Entry	Result: Distribution	Unit of Measure
None					