



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, 2024

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 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.

- [X] Public access/notice via the web
- [X] Public access/notice via Government Office
- [] Public access/notice via a newspaper
- [X] 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 always closed 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 authorizes 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

Expense	Cost (\$)
Temporary Water Treatment Plant	2,470,300

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 & AWQI No.	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
May 13 #164940	Distribution System Pressure Loss	<20	psi	Boil Water Advisory Watermain break repaired Flushing Sampling & Testing: (0 E Coli, 0 Coliforms)	May 13, 14 & 15
May 23 #165017	Distribution System Pressure Loss	N/A	N/A	Precautionary Sampling & Testing due to high demand: (0 E Coli, 0 Coliforms)	May 23

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	0				
Treated	0				
Distribution	151	0 - 0	0 - 0	147	< 10 - 60

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	0	
Chlorine (Distribution)	151	0.79 - 1.91 mg/L
Fluoride	Not Applicable	Not Applicable

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

Parameter The following parameters are sampled by the donor system.	Sample Date	Result Value	MAC Limit	Unit of Measure	Exceedance
Antimony	Aug 12	< 0.50	6	ug/L	No
Arsenic	Aug 12	< 1.0	10	ug/L	No
Barium	Aug 12	18	1000	ug/L	No
Boron	Aug 12	18	5000	ug/L	No
Cadmium	Aug 12	< 0.090	5	ug/L	No
Chromium	Aug 12	< 5.0	50	ug/L	No
*Lead	See Schedule 15.1 Summary				
Mercury	Aug 12	< 0.00010	0.001	mg/L	No
Selenium	Aug 12	< 2.0	50	ug/L	No
Sodium	Aug 12	11	20	mg/L	No
Uranium	Aug 12	0.30	20	ug/L	No
Fluoride	Aug 12	< 0.10	1.5	mg/L	No
Nitrite	Aug 12	< 0.010	1	mg/L	No
Nitrate	Aug 12	0.19	10	mg/L	No
Nitrite + Nitrate	Aug 12	0.19	-	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

Parameter The following parameters are sampled by the donor system.	Sample Date	Result Value	MAC Limits	Unit of Measure	Exceedance
Alachlor	Aug 12	< 0.50	5	ug/L	No
Atrazine + N-dealkylated metabolites	Aug 12	< 1.0	5	ug/L	No
Azinphos-methyl	Aug 12	< 2.0	20	ug/L	No
Benzene	Aug 12	< 0.10	1	ug/L	No
Benzo(a)pyrene	Aug 12	< 0.0050	0.01	ug/L	No
Bromoxynil	Aug 12	< 0.50	5	ug/L	No
Carbaryl	Aug 12	< 5.0	90	ug/L	No
Carbofuran	Aug 12	< 5.0	90	ug/L	No



Carbon Tetrachloride	Aug 12	< 0.10	2	ug/L	No
Chlorpyrifos (Dursban)	Aug 12	< 1.0	90	ug/L	No
Diazinon	Aug 12	< 1.0	20	ug/L	No
Dicamba	Aug 12	< 1.0	120	ug/L	No
1,2-Dichlorobenzene	Aug 12	< 0.20	200	ug/L	No
1,4-Dichlorobenzene	Aug 12	< 0.20	5	ug/L	No
1,2-Dichloroethane	Aug 12	< 0.20	5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Aug 12	< 0.10	14	ug/L	No
Dichloromethane	Aug 12	< 0.50	50	ug/L	No
2,4-Dichlorophenol	Aug 12	< 0.25	900	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Aug 12	< 1.0	100	ug/L	No
Diclofop-methyl	Aug 12	< 0.90	9	ug/L	No
Dimethoate	Aug 12	< 2.5	20	ug/L	No
Diquat	Aug 12	< 7.0	70	ug/L	No
Diuron	Aug 12	< 10	150	ug/L	No
Ethylbenzene	Aug 12	< 0.10	140	ug/L	No
Glyphosate	Aug 12	< 10	280	ug/L	No
Haloacetic Acids (HAA) (Distribution)	Feb 12 May 27 Aug 12 Dec 2	26 19 36 26	80	ug/L	No
Running Annual Average:		27			
Malathion	Aug 12	< 5.0	190	ug/L	No
2 Methyl-4-chlorophenoxyacetic acid (MCPA)	Aug 12	< 10	100	ug/L	No
Metolachlor	Aug 12	< 0.50	50	ug/L	No
Metribuzin (Sencor)	Aug 12	< 5.0	80	ug/L	No
Monochlorobenzene	Aug 12	< 0.10	80	ug/L	No
Paraquat	Aug 12	< 1.0	10	ug/L	No
Pentachlorophenol	Aug 12	< 0.50	60	ug/L	No
Phorate	Aug 12	< 0.50	2	ug/L	No
Picloram	Aug 12	< 5.0	190	ug/L	No
Polychlorinated Biphenyls (PCB)	Aug 12	< 0.05	3	ug/L	No
Prometryne	Aug 12	< 0.25	1	ug/L	No
Simazine	Aug 12	< 1.0	10	ug/L	No
Terbufos	Aug 12	< 0.50	1	ug/L	No
Tetrachloroethylene	Aug 12	< 0.10	10	ug/L	No
2,3,4,6-Tetrachlorophenol	Aug 12	< 0.50	100	ug/L	No
Trihalomethanes (THM) (Distribution) Sampled from the Mint Waterline DS	Feb 12 May 13 Aug 12 Dec 09	36 38 60 39	100	ug/L	No
Running Annual Average:		43			
Toluene	Aug 12	< 0.20	60	ug/L	No
Triallate	Aug 12	< 1.0	230	ug/L	No
Trichloroethylene	Aug 12	< 0.10	5	ug/L	No
2,4,6-Trichlorophenol	Aug 12	< 0.50	5	ug/L	No
Trifluralin	Aug 12	< 1.0	45	ug/L	No
Vinyl Chloride	Aug 12	< 0.20	1	ug/L	No
Xylenes	Aug 12	< 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: Distribution	Unit of Measure
None			