



**2017 ANNUAL COMPLIANCE AND SUMMARY
REPORT ON BRIGHTON'S DRINKING WATER
SYSTEM**

Municipal Drinking Water License # 135-101 Issue #4
Drinking Water Works Permit # 135-201 Issue #3
Waterworks Identification No. 220000807

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1.0 ONTARIO DRINKING WATER LEGISLATION

The Municipality of Brighton is pleased to present the 2017 Annual Compliance and Summary Report for Brighton's Drinking Water System covering the period from January 1st, 2017 to December 31st, 2017. There are several laws that govern municipal drinking water systems. Some of the Acts include: the Clean Water Act, the Safe Drinking Water Act, and the Ontario Water Resources Act. This report is prepared in compliance with Section 11 and Schedule 22 of Ontario Regulation 170/03 of the Safe Drinking Water Act. "The purpose of the Safe Drinking Water Act is to protect human health through the control and regulation of drinking water systems and drinking water testing (Ministry of the Environment 2010)." Under the Act, all drinking water systems in Ontario must receive approval from the Ministry of the Environment and Climate Change (MOECC) in order to operate, drinking water operators must achieve proper certification and receive appropriate training, there are specific standards for the testing of drinking water and all testing must be performed in a licensed, MOECC accredited laboratory. There are eleven regulations under the Act, which are listed below:

- O. Reg. 128/04 - Certification Of Drinking Water System Operators And Water Quality Analysts
- O. Reg. 242/05 - Compliance And Enforcement
- O. Reg. 172/03 - Definitions Of "Deficiency" and "Municipal Drinking Water System"
- O. Reg. 171/03 - Definitions Of Words And Expressions Used In The Act
- O. Reg. 170/03 - Drinking Water Systems
- O. Reg. 248/03 - Drinking Water Testing Services
- O. Reg. 453/07 - Financial Plans
- O. Reg. 188/07 - Licensing Of Municipal Drinking Water Systems
- O. Reg. 169/03 - Ontario Drinking Water Quality Standards
- O. Reg. 243/07 - Schools, Private Schools And Day Nurseries
- O. Reg. 229/07 - Service Of Documents

Brighton's drinking water system had zero (1), non-compliances during the period covered by this report

Brighton's drinking water system operates under the following permits and license:

1. Permit to Take Water No. 3210-9P3LCQ,
2. Municipal Drinking Water License # 135-101 issue number 4.
3. Drinking Water Works Permit # 135-201 issue number 3.

2.0 BRIGHTON'S DRINKING WATER SYSTEM

The Water Department is responsible for delivering clean and safe drinking water to the approximate 7,000 residents of Brighton who are connected to the municipal distribution system. The source of drinking water is three ground water wells located at 406 County Road 26. The wells are approximately forty metres (130 ft) deep and supply water to Brighton's water treatment plant (WTP) on a rotational basis. Water from the wells is pumped to a Supervisory Control And Data Acquisition (SCADA) monitored distribution plant, where chlorine is added to the water before it is distributed to customers. The distribution system consists of 2 booster pumps, hydrants, valves, 4 pressure reducing valves, service connections and approximately 60 kilometres of piping.

Water quality in the distribution system is maintained by the flushing of fire hydrants to clean the water mains. During the flushing program, fire hydrants are also inspected. To confirm water quality, microbiological sampling and testing in the distribution system is conducted on a weekly basis at seven strategically chosen sites. In addition, operators test chlorine residuals on a daily basis, as per O. Reg. 170/03.

3.0 WATER CONSUMPTION

Over the year of 2017, a total of 857,094 cubic metres of water entered the distribution system from the WTP (Table I, Appendix I). Based on a service population of 7,000 residents, the per capita consumption was 122 cubic metres per person for the year, or 0.334 cubic metres (334 litres) per person, per day (365 days). This equates to an average daily demand of 2,348 cubic metres per day. Peak day demand represents the highest volume of treated water supplied to the distribution system over a 24-hour period, usually the hottest day of the year, or on a day with very high usage due to fire suppression. In 2017, the peak day demand occurred on August 16th, with a recorded flow of 3,790.5 cubic metres.

Table I –Water consumption by month, for the years 2013-2017, measured at the WTP as water enters the distribution system

Month	2017	2016	2015	2014	2013
	Flows (m3)	Flows (m ³)	Flows (m ³)	Flows (m ³)	Flows (m ³)
January	58,432.10	56,581.70	65,741	53,040	57,846
February	51,788.70	51,010.20	56,272	49,874	49,220
March	57,770.40	55,288.60	66,404	57,233	52,586
April	60,754.70	61,771.20	73,004	57,829	53,881
May	67,046.90	91,635.10	87,248	69,415	71,361
June	72,477.20	110,773.60	78,428	77,019	71,555
July	85,999.80	115,956.80	107,970	87,549	98,590
August	100,453.40	96,367.30	82,191	84,798	84,758
September	90,460.70	77,516.10	78,161	75,489	66,678
October	80,014.80	68,466.70	63,666	69,528	61,549
November	71,348.30	60,190.40	56,755	61,083	53,358
December	60,576.60	60,899.40	56,898	65,293	54,703
Total Flow	857,094	906,457	872,738	808,150	776,085
Monthly Avg.	71,424	75,538	72,728	67,346	64,674
Monthly Max.	100,453	115,957	107,970	87,549	98,590
Monthly Min.	51,789	51,010	56,272	49,874	49,220
Annual avg. Daily Flow m³/day	2,348.2	2,476	2,391.1	2214.1	2126.3
Max Daily	3,790.4	4,566	5787	3649	4132
Rated Capacity	6445	6445	6445	6445	6445
% Max Day	59%	71%	90%	57%	64%
rated capacity % annual avg daily flow m³/day	36%	38%	37%	34%	33%

Brighton's drinking water system is permitted to take 6,454m³ of water per day under the Permit to take Water No. 3210-9P3LCQ. The rate of taking from each well cannot exceed 24.9L/s, 1,494 L/per minute, or 2,151.4m³ per day. The maximum daily taking

during the reporting period was 2,029m³ from Well 1, 2,031m³ from Well 2, and 2,030m³ from Well 3. The average daily water taking during the reporting period was 799.6m³ from Well 1, 825.9m³ from Well 2, and 798.1m³ from Well 3. The average daily demand was 2,348m³ of water, which represents approximately thirty-six percent (36%) of permitted water taking. The total peak day demand was 3,790m³ of water, which represents fifty-nine percent (59%) of permitted water taking. Maximum total water taking during the reporting period remained less than the amount of water taking permitted by the permit.

There was 1 raw water takings that exceeded 24.9L/s, due to the automatic flow control valve sticking in a full open position (Table II). The Municipality has a Standard Operating Procedure for incidents when water taking exceeds the allowable rate per second for greater than five minutes, which includes notification to the MOECC, if necessary.

Table II- Well Flow Exceedances

Well 1	Flow (L/s)	Duration (min)	Well 2	Flow (L/s)	Duration (min)	Well 3	Flow (L/s)	Duration (min)
N/A	N/A	N/A	N/A	N/A	N/A	July 8 th /2017	25.28	35

3.1 Water Use

The actual use of the water in Brighton is broken down into categories in Table III. Over the reporting period, there were Ten (10) water leaks in the distribution system

consisting of One (1) main line break and Seven (7) municipal services leaks and Two (2) Fire Hydrant Leaks. The 1 main break was due to aging infrastructure. Most of the water service leaks were caused by worn flared connection fittings, and worn copper services. For 2017, the estimated water loss is 8.5 %.

Table III- Water Use Summary for 2017

	Cubic Meters
Water produced at the Water Treatment Plant	857,094.00
Customer Consumption including Bulk Water Station	586,215.00
Amount of water used for Hydrant flushing	4,608.00
Amount of water sold at Public Dispensing	7.40
Estimated amount of water used for flushing and swabbing of new watermains	309.00
Estimated amount of water used by Fire Department for practices and fires	15.00
Estimated watermain and/or service connection leak/and analyzers	192,339.00
Water Accounted For	783,493.40
Water Unaccounted For	73,600.60
Loss per day	194.86
Loss per hour	8.12
Loss per minute	0.1353
Loss per second	0.0023
Percentage Loss	8.5

4.0 WATER SAMPLING REQUIREMENTS OF O. REG. 170/03

4.1 Microbiological Sampling and Testing

Ontario Regulation 170/03 specifies the frequency and type of sampling required to measure water quality, depending on the category of the drinking water system. Brighton's drinking water system is categorized as a large municipal drinking water system. Schedule 10 of the regulation requires that at least eight distribution samples, plus one additional distribution sample for every 1,000 people served by the system, are taken every month, with at least one of the samples being taken each week. Therefore, fifteen treated distribution samples would be required monthly. Brighton samples six (6) distribution samples weekly, or approximately twenty-six (26) samples monthly, and one (1) treated water sample weekly. These samples are tested for Escherichia coliform and total coliforms, and twenty-five (25) percent of the samples are additionally tested for general bacteria populations expressed as background colony on a heterotrophic plate. Raw water samples must be tested at least once every week. Raw water was sampled in Brighton weekly from each supply well in service (Table IV).

Table IV- Summary of 2017 Microbiological Samples and Results

Microbiological Results	Number of Samples	Range of E.Coli Results	Range of Total Coliform Results	Number of HPC Samples	Range of HPC Results
Raw	146	0	0	0	0
Treated Water - Treatment Plant	52	0	0	52	<10 -30
Distribution	346	0	0	103	<10 - 70

4.2 Lead Sampling and Testing

In 2012, the Municipality applied for relief from the frequency of lead sampling required in the regulation, based on satisfactory historical sample results. Supported by the Health Unit, Brighton was successful in this application and is therefore not required to conduct residential and non-residential lead sampling. Relief was again applied for in 2016. It is important to note however, that distribution sampling for lead is still required as per O. Reg. 170/03 (Table V and VI).

Table V- Lead Samples Results for Spring 2017

Sample Type	# of Samples	Pass	Fail	Resamples Pass/Fail
Plumbing – Residential	0	-	-	-
Plumbing – Non-Residential	0	-	-	-
Distribution	0	0	0	Not Required
Total Samples	0	0	0	Not Required

Table VI- 2016 Lead Sample Results for Fall 2017

Sample Type	# of Samples	Pass	Fail	Resamples Pass/Fail
Plumbing – Residential	0	-	-	-
Plumbing – Non-Residential	0	-	-	-
Distribution	0	0	0	Not Required
Total Samples	0	0	0	Not Required

*Note: Plumbing sampling was exempt from lead sampling due to MOECC approval for reduced sampling.

4.3 Chemical Sampling and Testing

Schedule 13 of the regulation requires Large Municipal Residential Systems to test the water supply for the following parameters:

- (i) Inorganics (Schedule 23) be tested at least every 12 months if the system obtains water from a raw water supply that is surface water. Note that once the water system switches to groundwater (wells) then sampling for organic/ inorganic parameters can be reduced to every 36 months.
- (ii) Lead - at least one sample in the distribution system is taken every 12 months from a point in the drinking-water system's distribution system or in plumbing that is connected to the drinking-water system that is likely to have an elevated concentration of lead. In 2007 new Regulations were added to test for Lead -Schedule 15.1-5. Sampling is to be conducted from December 15th to April 15th in the spring, and June 15th to October 15th in the fall in various locations. This constitutes 52 samples for each reporting period; unless the Operating Authority has applied for and received a reduction.
- (iii) Organics – (Schedule 24) if the system obtains water from a raw water supply that is surface water, at least one water sample is taken every 12 months. When the raw water source is groundwater (wells) then at least one water sample must be taken every 36 months.
- (iv) Trihalomethanes – at least one distribution sample is taken every three months from a point in the drinking-water system that is likely to have an elevated potential for the formation of Trihalomethanes.
- (v) Nitrate and Nitrite, one water sample taken every three months.
- (vi) Sodium, one water sample taken every 60 months.
- (vii) Fluoride, one water sample taken every 60 months.
- (viii) Halo Acidic Acids one water sample taken every three months

Sampling results for the above parameters are listed in Appendix 2. There were no exceedances of organic or inorganic parameters tested during the most recent sampling period.

5.0 REPORTS TO MINISTRY OF THE ENVIRONMENT

There was 1 report to the Ministry of Environment and Climate Change (MOECC) in reference to 1 Halo Acidic Acid (one sample) missed being taken in the third quarter sampling in the water distribution system.

There were no adverse test results for Brighton's Drinking Water System during the reporting period.

6.0 MAJOR EXPENSES

Major expenses to the drinking water system in 2017 to install, repair or replace required equipment:

Description	Cost (CAD)
Orchard Cres. Rehabilitation	139,740.54
Dundas St. Booster Pump Hydro Upgrade	14,819.95
Georgina St. Watermain Extension	46,702.90
Chlorine Pumps Water Treatment Plant	2,033.53
Fire Hydrant Replacement	5,685.13

Appendix 1 - 2017 Monthly Summary

Brighton Reservoir Outlet Monthly Data													
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
FLOWES													
TOTAL DISCHARGE FLOWS (m ³)	58,432.10	51,788.70	57,770.40	60,754.70	67,046.90	72,447.20	85,999.8	100,453.4	90,460.70	80,014.80	71,348.30	60,576.60	857,094
DAILY AVG. FLOW (m ³)	1,884.90	1,849.60	1,863.60	2,025.20	2,162.80	2,414.90	2,774.20	3,240.40	3,015.40	2,581.10	2,378.30	1,954.10	2,345
MAXIMUM DAILY DISCHARGE FLOW (m ³)	2,031.80	1,990.90	2,011.20	2,281.60	2,496.20	3,037.70	3,480.10	3,790.50	3,576.30	3,507.60	2,544.90	2,230.30	3,791
MINIMUM DAILY DISCHARGE FLOW (m ³)	1,775.00	1,761.40	1,772.10	1,814.80	1,946.70	2,060.30	2,312.30	2,684.70	2,561.00	2,264.40	1,780.90	1,797.50	1,761
CHLORINE CONSUMPTION													
TOTAL USED (kg)	72.60	62.00	70.00	74.80	82.20	88.30	104.00	111.00	101.90	103.30	105.30	82.10	1,057.50
DAILY AVERAGE (kg)	2.3	2.2	2.3	2.5	2.7	2.9	3.4	3.6	3.40	3.30	3.50	2.60	2.89
AVERAGE PRE-DAILY DOSAGE (mg/L)	1.09	1.10	1.09	1.12	1.09	1.08	1.09	1.09	1.17	1.17	1.25	1.24	1.13
LOWEST RESIDUAL (mg/l) (POST)	0.96	0.95	0.97	1.00	0.94	0.92	0.91	0.91	0.97	0.97	1.12	1.08	0.91
TURBIDITY (NTU) post													
MONTHLY AVERAGE (POST)	0.04	0.04	0.04	0.04	0.040	0.040	0.04	0.04	0.04	0.04	0.04	0.04	0.040
RANGE (POST)	0.04-0.15	0.04-0.04	0.04-0.28	0.04-0.05	0.04-0.09	0.04-2.00	0.04-0.88	0.04-2.00	0.04-2.00	0.04-0.99	0.04-0.27	0.04-1.10	
PH OUTLET													
MONTHLY AVERAGE	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.30	7.40	7.40	7.40	7.40	7.44
HIGHEST PH	7.50	7.50	7.60	7.50	7.60	7.50	7.40	7.40	7.40	7.40	7.40	7.40	7.60
TEMPERATURE (°C) OUTLET													
MONTHLY AVERAGE	8.90	8.90	9.00	9.20	9.20	9.40	9.60	9.50	9.60	9.40	9.30	9.30	9.28
MONTHLY LOWEST	8.70	8.90	8.80	9	9.1	9.2	9.4	9.4	9.3	9.3	9.1	9	8.70



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220000807
Drinking-Water System Name:	Brighton Springs Drinking Water System
Drinking-Water System Owner:	Corporation of the Municipality of Brighton
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2017 – December 31, 2017

<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;"> <p>Municipal Offices: 35 Alice St., Brighton 67 Sharp Rd., Brighton</p> </div>	<p><u>Complete for all other Categories.</u></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
Presqu'ile Provincial Park – Parks Ontario	

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 [x] 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 (Newsletter)

Describe your Drinking-Water System

Raw Water Source

The water supply for the Municipality of Brighton is from three drilled wells located at 406 County Road 26. The wells are approximately forty metres (130 ft) deep and supply water to Brighton's water treatment plant (WTP) on a rotational basis. Upon initiation of a well pump that has been static for any period of time, the water is pumped to a waste detention pond for a pre-determined time to purge the transmission line from initial pump start up. Then, the water is permitted to pass through the treatment plant system.

According to a report by HydroTerra (2002), the water in the wells is not considered Groundwater Under the Direct Influence of Surface Water (GUDI). A fail safe control system has been installed to ensure that an upward hydraulic gradient is maintained at all times in the supply aquifer. This system includes: water level sensors in each of three observation wells that surround each supply well, a water level sensor in each supply well, an alarm system equipped with pre-determined set-points for well water depth, and a supervisory control and data acquisition (SCADA) data-log system.

Treatment Process

Brighton's WTP provides chlorine disinfection to the water supply and it provides water storage in a two-celled reservoir. The WTP houses a primary and secondary disinfection system consisting of two gas chlorinators, weigh scales, vacuum regulators, injectors and appurtenances to facilitate the application of a chlorine solution at a pre-chlorination location, prior to entering the reservoir and a post-chlorination location, prior to entering the distribution system. Instrumentation and controls, including on-line chlorine residual analyzers and turbidity meters, measure free chlorine residuals and turbidity in the water supply prior to distribution. The concrete water storage reservoir is approximately 39 metres by 58 metres. Each cell is equipped with baffles and provides approximately 5,600 cubic metres of water storage. Emergency power for the WTP is provided by an 80 kilowatt, pad mounted standby generator, including an automatic transfer switch.



Distribution System

The Municipality of Brighton's distribution system provides drinking water to approximately 7,000 residents, and Presqu'ile Park, through a network of approximately sixty (60) kilometres of piping. There is a chlorine booster station, located at the entrance of Presqu'ile Park, where chlorine, turbidity, and pressure in the water supply are monitored and recorded. Additionally, there are four pressure reducing valves and two pressure booster pumps.

List all water treatment chemicals used over this reporting period

Chlorine Gas

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

Description	Cost (CAD)
Orchard Cres. Rehabilitation-----	\$139,740.54
Dundas St. Booster Pump Hydro Upgrade-----	\$14,819.95
Chlorine Pumps at Water Treatment Plant-----	\$2,033.53
Fire Hydrant Replacement-----	\$5,685.13
Georgina St. Watermain Extension-----	\$46,702.90

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.

	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	156	0	0-2	0	0
Treated	52	0	0	52	<10 - 20
Distribution	312	0	0	104	<10 - 40



Ontario Drinking-Water Systems Regulation O. Reg. 170/03

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	8760	0.04-2.00 ntu
Chlorine	8760	0.91-1.28 mg/L
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	Unit of Measure	Exceedance
Antimony	Aug 29/17	<0.0001	Mg/L	NO
Arsenic	Aug 29/17	0.0002	Mg/L	NO
Barium	Aug 29/17	0.083	Mg/L	NO
Boron	Aug 29/17	0.009	Mg/L	NO
Cadmium	Aug 29/17	<0.000014	Mg/L	NO
Chromium	Aug 29/17	<0.002	Mg/L	NO
*Lead	N/A			
Mercury	Aug 29/17	<0.00002	Mg/L	NO
Selenium	Aug 29/17	<0.001	Mg/L	NO
Sodium - mg/L	Feb 28/17	5.2	Mg/L	NO
Uranium	Aug 29/17	0.00068	Mg/L	NO
Fluoride - mg/L	Feb 28/17	<0.3	Mg/L	NO
Nitrite	Nov 7/17	<0.1	Mg/L	NO
Nitrate	Nov 7/17	2.7	Mg/L	NO

*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 ug/L (min#) – (max #)	Number of Exceedances / Adverses
Residential	0	-	0
Non-Residential	0	-	0
Distribution	0	-	0

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

Parameter	Sample Date	Result	Unit of Measure	Exceedance
Alachlor	Aug 29/17	<0.3	µg/L	NO
Aldicarb	Removed			
Aldrin + Dieldrin	Removed			
Atrazine + N-dealkylated metabolites	Aug 29/17	<0.5	µg/L	NO
Azinphos-methyl	Aug 29/17	<1	µg/L	NO
Bendiocarb	Removed			
Benzene	Aug 29/17	<0.5	µg/L	NO
Benzo(a)pyrene	Aug 29/17	<0.005	µg/L	NO
Bromoxynil	Aug 29/17	<0.3	µg/L	NO
Carbaryl	Aug 29/17	<3	µg/L	NO
Carbofuran	Aug 29/17	<1	µg/L	NO
Carbon Tetrachloride	Aug 29/17	<0.2	µg/L	NO
Chlordane (Total)	Removed			
Chlorpyrifos	Aug 29/17	<0.5	µg/L	NO
Cyanazine	Removed			
Diazinon	Aug 29/17	<1	µg/L	NO
Dicamba	Aug 29/17	<5	µg/L	NO
1,2-Dichlorobenzene	Aug 29/17	<0.1	µg/L	NO
1,4-Dichlorobenzene	Aug 29/17	<0.2	µg/L	NO
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Removed			
1,2-Dichloroethane	Aug 29/17	<0.1	µg/L	NO
1,1-Dichloroethylene (vinylidene chloride)	Aug 29/17	<0.1	µg/L	NO
Dichloromethane	Aug 29/17	<0.3	µg/L	NO
2-4 Dichlorophenol	Aug 29/17	<0.1	µg/L	NO



Ontario Drinking-Water Systems Regulation O. Reg. 170/03

2,4-Dichlorophenoxy acetic acid (2,4-D)	Aug 29/17	<5	µg/L	NO
Diclofop-methyl	Aug 29/17	<0.5	µg/L	NO
Dimethoate	Aug 29/17	<1	µg/L	NO
Dinoseb	Removed			
Diquat	Aug 29/17	<5	µg/L	NO
Diuron	Aug 29/17	<5	µg/L	NO
Glyphosate	Aug 29/17	<25	µg/L	NO
Heptachlor + Heptachlor Epoxide	Removed			
Lindane (Total)	Removed			
Malathion	Aug 29/17	<5	µg/L	NO
Methoxychlor	Removed			
2 - Methyl – 4 Chlorophenoxyacetic Acid (MCPA)	Aug 29/17	<0.000 12	µg/L	NO
Metolachlor	Aug 29/17	<3	µg/L	NO
Metribuzin	Aug 29/17	<3	µg/L	NO
Monochlorobenzene	Aug 29/17	<0.2	µg/L	NO
Paraquat	Aug 29/17	<1	µg/L	NO
Parathion	Removed			
Pentachlorophenol	Aug 29/17	<0.1	µg/L	NO
Phorate	Aug 29/17	<0.3	µg/L	NO
Picloram	Aug 29/17	<5	µg/L	NO
Polychlorinated Biphenyls(PCB)	Aug 29/17	<0.05	µg/L	NO
Prometryne	Aug 29/17	<0.1	µg/L	NO
Simazine	Aug 29/17	<0.5	µg/L	NO
THM – Jan., April, July, Oct. – ug/L THM Annual Average - ug/L	Feb 28/17 May 9/17 Aug 29/17 Nov 7/17	4.55	µg/L	NO
Temephos	Removed			
Terbufos	Aug 29/17	<0.3	µg/L	NO
Tetrachloroethylene	Aug 29/17	<0.2	µg/L	NO
2,3,4,6-Tetrachlorophenol	Aug 29/17	<0.1	µg/L	NO
Triallate	Aug 29/17	<10	µg/L	NO
Trichloroethylene	Aug 29/17	<0.1	µg/L	NO
2,4,6-Trichlorophenol	Aug 29/17	<0.1	µg/L	NO
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Removed			
Trifluralin	Aug 29/17	<0.5	µg/L	NO
Vinyl Chloride	Aug 29/17	<0.2	µg/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
N/A			

