



2019 Annual Compliance Report

Drinking Water System General Information

This report has been prepared in accordance with the reporting requirements of the Safe Drinking Water Act 2002 O.Reg 170/03, s 11(1), (3), (6), (7), (8), (9.1) and 10 as well as Schedule 22-1 and 22-2.

This annual report has been included in the Water Summary Report presented to Council and a notice has been placed in the local newspaper notifying the public and any interested authority that the Blue Mountains Drinking Water System's 2019 Annual Compliance Report can be viewed on the Town's website at www.thebluemountains.ca, or viewed in the Public Information Binder located at Town Hall. Additionally, a request can be made to receive a copy free of charge.

Drinking Water System Information

Drinking Water System Number	220001762
Drinking Water System Name	The Blue Mountains Drinking Water System
Drinking Water System Owner	Town of The Blue Mountains
Drinking Water System Category	Large Municipal Residential
Period being reported	January 1, 2019 to December 31, 2019
Does your Drinking Water System serve more than 10,000 people?	Yes

Drinking Water System Description

The Thornbury Water Treatment Plant is located at 230 Peel Street. The water source is Georgian Bay, part of the Great Lakes Water System.

A 569m long, 600mm diameter raw water intake pipe extends approximately 569m into Georgian Bay. A 38mm diameter chlorine feed line and a chlorine solution diffuser provides pre-chlorination and zebra mussel control. Raw water sampling is accomplished by utilizing a 25mm diameter sampling line which extends out from the intake bell.

After entering the intake, three (3) low lift vertical turbine pumps (2 duty, 1 standby) deliver the raw water to two (2) 0.30mm strainers before it is directed to the microfiltration units.

The microfiltration system consists of three (3) racks. Each rack has 240 modules complete with valve racks and controllers. The microfiltration units filter the raw water by forcing it through 0.1 micron sized membranes.

After being filtered, the treated water is discharged into a common header where it is chlorinated (post-chlorination) prior to being drawn by three (3) high lift vertical turbine pumps (2 duty, 1 standby) and pumped through the ultraviolet disinfection system. The ultraviolet system consists of three (3) Trojan UV Reactors (2 duty, 1 standby) which provide 100% treatment capacity prior to delivery to the Town's distribution system. Ultraviolet is the method of disinfection in which ultraviolet irradiation is used to inactivate target organisms in the water source and is the primary disinfection used at the Thornbury WTP.

Two (2) reverse filtration pumps (1 duty, 1 standby) are used to backwash the microfiltration units into Modified Reverse Filtration Filter (MRFF). The MRFF (modified original mixed media filter) is isolated from the potable water system and is used to filter the reverse filtration water from the microfiltration units and the backflush discharge from the strainers. This waste filtrate water is monitored for chlorine residual and chemically de-chlorinated before being discharged into the Little Beaver River.

Control of the high lift pumps is via level in the 747 cubic meter elevated storage tank located on Victoria Street in Thornbury.

The distribution system consists of approximately 120 kilometers of watermain ranging in size from 50mm to 400mm. Distribution facilities consist of an elevated tank, seven (7) booster stations, four (4) grade level reservoirs and one (1) standpipe.

Water is supplied to the Town of Collingwood through a connection at Long Point Road. Additionally, the Town can supply the Town of Collingwood by reversing flow at Mountain Road and/or opening the valve at Grand Cypress which will supply water to the western part of Collingwood. The supply of water is metered to ensure cost recovery from the Town of Collingwood.

Thornbury Water Tower

An elevated storage tank is located on Victoria Street in Thornbury and is referred to as the Thornbury Water Tower. This Tower has a capacity of 747 cubic meters. The Tower level supplies water pressure to the 10th Line Booster Station, Thornbury Reservoir, Camperdown Court, and Arrowhead Road Booster Station.

10th Line Booster Station

A booster station and re-chlorination facility is located at the 10th Concession and Highway No. 26 and is referred to as the 10th Line Booster Station. The water pressure at this station is boosted for higher distribution pressures and volume to provide fire flows throughout the Lora Bay Service Area. 100% standby power is available at this station. The firm capacity at this station is 66.67 l/s.

Thornbury Reservoir

A treated water reservoir, booster station and re-chlorination facility is located at 1 Grey Street South, Unit 1 in Thornbury and is referred to as the Thornbury Reservoir. The Thornbury Reservoir is equipped with three centrifugal pumps, re-chlorination equipment and 100% standby power. The firm capacity at this station is 150 l/s.

Camperdown Reservoir

A treated water reservoir, pumphouse and re-chlorination facility is located at 109 Camperdown Road and is referred to as the Camperdown Reservoir. This in-ground reservoir and booster station is equipped with two centrifugal operating pumps, one centrifugal fire pump, re-chlorination equipment and 100% standby power. The firm capacity to the upper zone is 12.3 l/s.

Camperdown Court Booster Station

A booster pumping station is located at 103 Camperdown Court and is referred to as the Camperdown Court Booster Station. This station is utilized to fill the Camperdown Reservoir and is equipped with two centrifugal pumps with standby power supplied by the Camperdown Reservoir. The firm capacity at this station is 85 l/s.

Wards Road Booster Station

A booster station is located at 153 Wards Road and is referred to as the Wards Road Booster Station. It services the upper portion of Hidden Lake Road. This booster station is equipped with two centrifugal pumps. This station is equipped with 100% standby power. The firm capacity at this station is 16 l/s.

Arrowhead Road Booster Station

A booster station is located at 122 Arrowhead Road and is referred to as the Arrowhead Road Booster Station. This station is equipped with three vertical turbine pumps, re-chlorination equipment and 40% standby power. This station provides water to the Craigleith Service Area and supplies water to the Happy Valley Road Reservoirs. Provisions were made through piping and valving to reverse the flow of water from the Craigleith Service Area to the Camperdown and Thornbury Service Areas. The firm capacity at this station is 40 l/s.

Happy Valley Reservoirs

Two reservoirs are located at 136 Happy Valley Road and are referred to as the Happy Valley Road Reservoirs. These reservoirs have a combined capacity of 5,000 cubic meters.

Happy Valley Road Booster Station

A booster pumping station is also located at 136 Happy Valley Road and is referred to as the Happy Valley Road Booster Station. This station is equipped with two pumps and re-

chlorination equipment. This station supplies water to the Swiss Meadows Standpipe and Service Area. The firm capacity of this station is 5.35 l/s.

Swiss Meadows Standpipe

A 536 cubic meters standpipe is located at 154 Scandia Lane above the Swiss Meadows Subdivision.

Mountain Road Booster Station

A booster pumping station is located at 795930 at the intersection of Grey Road 9 and Grey Road 21 and is referred to as the Mountain Road Booster Station. This station is equipped with two in-line water booster pumps and re-chlorination equipment. This station has a firm capacity of 46 l/s. The water supply for this station is received from the Town of Collingwood.

Summary of Water Treatment Chemicals Used Over this Reporting Period

Chlorine (liquefied gas)

Sodium Hypochlorite (12%)

Citric Acid

Sodium Hydroxide

Calcium Thiosulphate

Summary of Monetary Expenses Incurred in 2019

Water SCADA Improvement Program

To improve system reliability and redundancy by improving and expanding the existing SCADA system.

Expended this year: \$32,338.05

Vehicle Replacement

Replacement of existing vehicle that has reached the end of its useful life

Expended this year: \$40,190.71

Substandard Watermain Replacement Program

To ensure the water system provides safe and reliable delivery of potable water.

Expended this year: \$106,606.05

Water Vacuum Unit Replacement

To ensure equipment is reliable by replacing the vacuum excavation and valve turning unit which has reached the end of its useful life.

Expended this year: \$120,729.54

Watermain Leak Detection & Repair Program

To reduce the amount of water loss and defer system expansions through completing an annual correlation and acoustic listening survey from 2019 to 2024 and repairing leaks as warranted.

Expended this year: \$18,876.68

Water Pressure & Flow Monitoring Device Installations

To monitor flows and pressures to designated Service Areas to ensure sufficient operation of the distribution system.

Expended this year: \$73,697.07

Peel Street North Watermain Service Replacement

To increase security of supply by switching existing services from a watermain subject to breaking to a more reliable watermain.

Expended this year: \$72,876.60

Water Pressure Zone 4C Distribution Improvements

To improve system reliability, pressures and fire protection by reconfiguring Pressure Zone 4C boundary.

Expended this year: \$41,429.46

Unit Boiler at Water Treatment Plant

Expended this year: \$44,163.26

Water Treatment Plant Equipment Replacement

To replace piping and valves on Clean in Place (CIP) system for Pall Membrane System at the WTP and to replace critical UV and microfiltration system valves and actuators that have reached the end of their useful lives.

Expended this year: \$48,436.52

Summary of Adverse Drinking Water Quality Results

This section describes all Adverse Water Quality Incidents (AWQI). This term refers to any treated water test result that does not meet a provincial water quality standard or a situation where disinfection of the Town's drinking water may be compromised. A single AWQI does not necessarily mean that the system's drinking water is unsafe – it indicates that, on at least one occasion, a water quality standard was not met.

The Town's drinking water system is operated in accordance with Ontario Regulation 170/03 and Operators follow the direction of this regulation when dealing with incidents of adverse drinking water. There was (1) one precautionary boil water advisory issued and one (1) incident of adverse water quality.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
August 27, 2019	Watermain break resulting in low pressure	<20	psi	Repaired watermain break, flushed watermains and collected (2) two sets of bacteriological samples	August 30, 2019 following receipt of (2) two consecutive sets of bacteriological results with 0 E.Coli and 0 Total Coliform
October 2, 2019	Free Chlorine Residual	0.02	mg/L	Flushing and residual restored	October 2, 2019

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

Parameter	Number of Samples	Range of E. Coli or Fecal Results Min # to Max #	Range of Total Coliform Results Min # to Max #	Number of HPC Samples	Results of HPC Results Min # to Max #
Raw	52	0 to 20	0 to 2,160	Not Required	
Treated	52	0	0	52	0 to 56
Distribution	542	0	0	423	0 to 66

Summary of Operational Testing completed under Schedule 7,8, or 9 of Ontario Regulation 170/03 during this reporting period

	Number of Grab Samples	Range of Results Min # to Max #	Unit of Measure
Turbidity			
Treated	8760	0.031 to 0.883	NTU
Rack 1	8760	0.015 to 0.886	NTU
Rack 2	8760	0.013 to 0.989	NTU
Rack 3	8760	0.016 to 0.989	NTU
Chlorine			
Treated	8760	1.383 to 2.248	mg/L
Discharge	8760	1.312 to 1.952	mg/L
Thornbury Reservoir	8760	1.288 to 1.999	mg/L
10 th Line Booster Station	8760	1.312 to 2.476	mg/L
Arrowhead Road Booster Station	8760	1.324 to 1.947	mg/L
Arrowhead Road Booster Station By-pass	8760	1.047 to 1.827	mg/L
Happy Valley Booster Station	8760	0.842 to 2.498	mg/L
Camperdown Reservoir Upper Zone	8760	1.114 to 2.363	mg/L
Camperdown Influent / Effluent	8760	1.272 to 2.488	mg/L
Mountain Road Booster Station	8760	1.088 to 2.327	mg/L
Distribution	5977	0.02 to 1.67	mg/L

Summary of Additional Testing and Sampling

Please see attached additional sampling results for Haloacetic Acids, Trihalomethanes, Process Wastewater Suspended Solids, Nitrate, Nitrite, pH and Alkalinity.

Haloacetic Acid

Quarter	HAA Sample Result # 1 ug/L	Sampling Location	HAA Sample Result # 2 ug/L	Sampling Location	HAA Sample Result # 3 ug/L	Sampling Location	HAA Sample Result # 4 ug/L	Sampling Location	HAA Sample Result # 5 ug/L	Sampling Location	HAA Sample Result # 6 ug/L	Sampling Location	HAA Sample Result # 7 ug/L	Sampling Location	HAA Sample Result # 8	Sampling Location	HAA Sample Result # 9	Sampling Location	Quarterly Average ug/L
Jan 1 - March 31, 2019	13.7	Thornbury WTP	18.4	Mountain Road SS (021)	13.7	Wards Road BS													11
Apr 1 – Jun 30, 2019	14.6	Thornbury WTP	16.6	Mountain Road SS (021)	20.9	Wards Road Booster Station													13
Jul 1 – Sep 30, 2019	11.5	Thornbury WTP	18.1	Far Hills Club – Alfred Street SS (024)	24.8	Monterra / Grand Cypress SS (019)	34	Swiss Meadows Scandia SS (023)	20.9	Thornbury WTP	26.1	Cameron Street SS (004)	31.7	Far Hills Club – Alfred Street SS (024)	40.8	Monterra / Grand Cypress SS (019)	38.4	Swiss Meadows Scandia SS (022)	31
Oct 1 – Dec 31, 2019	13.5	Thornbury WTP	23.8	Blueski George Crescent SS (026)	24.9	Swiss Meadows Standpipe	12.1	Thornbury WTP	28.2	Camperdown Reservoir	43.3	Swiss Meadows Standpipe							16
RAA # 3 Calculated Average	18																		

This document can be made available in other accessible formats as soon as practicable and upon request

Trihalomethanes

Quarter	THM Sample Result # 1 ug/L	THM Sample Result # 2 ug/L	THM Sample Result # 3 ug/L	THM Sample Result # 4 ug/L	Quarterly Average ug/L
Oct 1 – Dec 31, 2018	52	48	34	34	42
Jan 1 – Mar 31, 2019	31	39	26	28	31
Apr 1 – Jun 30, 2019	37	39			19
Jul 1 – Sep 30, 2019	43	49	77	60	57.25
RAA # 4 Calculated Average					37.31
Oct 1 – Dec 31, 2019	32	39			17.75

Process Wastewater Suspended Solids

Sample Date	Result Value	Unit of Measure
January 2, 2019	33	mg/L
February 4, 2019	3	mg/L
March 3, 2019	7	mg/L
April 1, 2019	9	mg/L
May 6, 2019	6	mg/L
June 3, 2019	8	mg/L
July 2, 2019	3	mg/L
August 6, 2019	5	mg/L
September 3, 2019	3	mg/L
October 11, 2019	4	mg/L
November 4, 2019	83	mg/L
December 2, 2019	64	mg/L
Annual Average	19	mg/L

Nitrate Results

Sample Date	Location	Results (mg/L)
January 2, 2019	Thornbury WTP – Raw	0.275
January 2, 2019	Thornbury WTP – Treated	0.275
January 2, 2019	Little Beaver River – Source Protection	1.880
January 2, 2019	Big Head River – Source Protection	1.770
January 2, 2019	Beaver River – Source Protection	0.975
January 2, 2019	Indian Brook	2.600

Sample Date	Location	Results (mg/L)
February 4, 2019	Thornbury WTP – Raw	0.295
February 4, 2019	Thornbury WTP – Treated	0.284
March 4, 2019	Thornbury WTP – Raw	0.270
March 4, 2019	Thornbury WTP – Treated	0.403
March 4, 2019	Little Beaver River – Source Protection	1.390
March 4, 2019	Beaver River – Source Protection	1.230
March 4, 2019	Indian Brook	1.960
April 1, 2019	Thornbury WTP – Raw	0.255
April 1, 2019	Thornbury WTP – Treated	0.259
May 6, 2019	Thornbury WTP – Raw	0.266
May 6, 2019	Thornbury WTP – Treated	0.352
May 6, 2019	Little Beaver River – Source Protection	1.010
May 6, 2019	Big Head River – Source Protection	0.934
May 6, 2019	Beaver River – Source Protection	0.534
May 6, 2019	Indian Brook	1.370
June 3, 2019	Thornbury WTP – Raw	0.263
June 3, 2019	Thornbury WTP – Treated	0.267
July 2, 2019	Thornbury WTP – Raw	0.243
July 2, 2019	Thornbury WTP – Treated	0.252
July 2, 2019	Little Beaver River – Source Protection	0.451
July 2, 2019	Big Head River – Source Protection	0.749
July 2, 2019	Beaver River – Source Protection	0.214
July 2, 2019	Indian Brook	0.413

Sample Date	Location	Results (mg/L)
August 6, 2019	Thornbury WTP – Raw	0.251
August 6, 2019	Thornbury WTP – Treated	0.260
September 3, 2019	Thornbury WTP – Raw	0.218
September 3, 2019	Thornbury WTP – Treated	0.220
September 3, 2019	Little Beaver River – Source Protection	0.163
September 3, 2019	Big Head River – Source Protection	0.341
September 3, 2019	Beaver River – Source Protection	0.184
September 3, 2019	Indian Brook	0.026
October 11, 2019	Thornbury WTP – Raw	0.236
October 11, 2019	Thornbury WTP – Treated	0.241
November 4, 2019	Thornbury WTP – Raw	0.244
November 4, 2019	Thornbury WTP – Treated	0.250
December 2, 2019	Thornbury WTP – Raw	0.270
December 2, 2019	Thornbury WTP – Treated	0.276
December 2, 2019	Little Beaver River – Source Protection	1.420
December 2, 2019	Big Head River – Source Protection	1.370
December 2, 2019	Beaver River – Source Protection	0.724
December 2, 2019	Indian Brook	2.740

Nitrite Results

Sample Date	Location	Results (mg/L)
January 2, 2019	Thornbury WTP – Raw	0.003
January 2, 2019	Thornbury WTP – Treated	0.003
January 2, 2019	Little Beaver River – Source Protection	0.003
January 2, 2019	Big Head River – Source Protection	0.003
January 2, 2019	Beaver River – Source Protection	0.003
February 4, 2019	Thornbury WTP – Raw	0.003
February 4, 2019	Thornbury WTP – Treated	0.003
March 4, 2019	Thornbury WTP – Raw	<0.003
March 4, 2019	Thornbury WTP – Treated	0.003
March 4, 2019	Little Beaver River – Source Protection	<0.003
March 4, 2019	Beaver River – Source Protection	0.010
March 4, 2019	Indian Brook	<0.003
April 1, 2019	Thornbury WTP – Raw	0.003
April 1, 2019	Thornbury WTP – Treated	0.003
May 6, 2019	Thornbury WTP – Raw	0.004
May 6, 2019	Thornbury WTP – Treated	0.003
May 6, 2019	Little Beaver River – Source Protection	0.003
May 6, 2019	Big Head River – Source Protection	0.003
May 6, 2019	Beaver River – Source Protection	0.004
May 6, 2019	Indian Brook	0.003
June 3, 2019	Thornbury WTP – Raw	0.003
June 3, 2019	Thornbury WTP - Treated	0.003

Sample Date	Location	Results (mg/L)
July 2, 2019	Thornbury WTP – Raw	0.003
July 2, 2019	Thornbury WTP – Treated	0.003
July 2, 2019	Little Beaver River – Source Protection	0.012
July 2, 2019	Big Head River – Source Protection	0.005
July 2, 2019	Beaver River – Source Protection	0.004
July 2, 2019	Indian Brook	0.005
August 6, 2019	Thornbury WTP – Raw	0.003
August 6, 2019	Thornbury WTP – Treated	0.003
September 3, 2019	Thornbury WTP – Raw	0.003
September 3, 2019	Thornbury WTP – Treated	0.003
September 3, 2019	Little Beaver River – Source Protection	0.022
September 3, 2019	Big Head River – Source Protection	0.003
September 3, 2019	Beaver River – Source Protection	0.003
September 3, 2019	Indian Brook	0.003
October 11, 2019	Thornbury WTP – Raw	<0.003
October 11, 2019	Thornbury WTP – Treated	0.003
November 4, 2019	Thornbury WTP – Raw	0.003
November 4, 2019	Thornbury WTP – Treated	0.003
December 2, 2019	Thornbury WTP – Raw	0.004
December 2, 2019	Thornbury WTP – Treated	0.003
December 2, 2019	Little Beaver River – Source Protection	0.003
December 2, 2019	Big Head River – Source Protection	0.003
December 2, 2019	Beaver River – Source Protection	0.003

Sample Date	Location	Results (mg/L)
December 2, 2019	Indian Brook	0.003

pH & Alkalinity Results

Date	Location	pH	Alkalinity
January 2, 2019	10 th Line Booster Station	8.10	73
January 2, 2019	Camperdown Reservoir	8.13	75
January 2, 2019	Arrowhead Road Booster Station	8.08	76
January 2, 2019	Swiss Meadows Standpipe	8.13	78
February 28, 2019	Private Residential Address	7.74	
February 28, 2019	Hydrant # 211	7.69	75
May 6, 2019	Hydrant # 544	7.61	82
July 2, 2019	Carmichael Crescent SS (035)	8.00	75
July 2, 2019	Blueski George Crescent SS (026)	7.55	77
July 2, 2019	Patricia Drive SS (020)	8.02	73
July 2, 2019	Louisa / Hester SS (007)	7.99	73
September 3, 2019	Sunset Blvd. DE SS (030)	8.10	69
September 3, 2019	Blueski George Crescent SS (026)	8.13	71
September 3, 2019	Patricia Drive SS (020)	8.15	70
September 3, 2019	Swiss Meadows Standpipe	8.21	70
September 3, 2019	Hydrant # 002	7.62	68
September 3, 2019	Hydrant # 015	7.47	68
September 3, 2019	Hydrant # 560	7.63	69
September 3, 2019	Hydrant # 290	7.66	69
December 17, 2019	Hydrant # 482	8.03	

Date	Location	pH	Alkalinity
December 17, 2019	Private Residential Address	7.88	

Summary of Inorganic Parameters

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	March 18, 2019	0.09	ug/L	No
Arsenic	March 18, 2019	0.4	ug/L	No
Barium	March 18, 2019	12.8	ug/L	No
Boron	March 18, 2019	14	ug/L	No
Cadmium	March 18, 2019	0.003	ug/L	No
Chromium	March 18, 2019	0.15	ug/L	No
Mercury	March 18, 2019	0.01	ug/L	No
Sodium	March 21, 2016	5.10	mg/L	No
Uranium	March 18, 2019	0.180	ug/L	No
Fluoride	March 23, 2015	0.11	mg/L	No
Nitrite	December 2, 2019	0.003	mg/L	No
Nitrate	December 2, 2019	0.276	mg/L	No

Summary of Lead Testing

Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results (min#) – (max#)	Unit of Measure	Number of Exceedances
Plumbing	2	0.20 to 3.53	ug/L	0

Location Type	Number of Samples	Range of Lead Results (min#) – (max#)	Unit of Measure	Number of Exceedances
Distribution	5	0.03 to 0.10	ug/L	0

Summary of Organic Parameters

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

Parameter	Sample Date	Result Value	Unit of Measure	Maximum Acceptable Concentration (MAC)	Interim Maximum Acceptable Concentration (IMAC)	Exceedance
Alachlor	March 18, 2019	0.02	ug/L		0.005 mg/L	No
Atrazine + N-dealkylated metabolites	March 18, 2019	0.01	ug/L		0.005 mg/L	No
Benzene	March 18, 2019	0.32	ug/L	0.005 mg/L		No
Benzo(a)pyrene	March 18, 2019	0.004	ug/L	0.00001 mg/L		No
Bromoxynil	March 18, 2019	0.33	ug/L		0.005 mg/L	No
Carbaryl	March 18, 2019	0.05	ug/L	0.09 mg/L	0.005 mg/L	No
Carbofuran	March 18, 2019	0.01	ug/L	0.09 mg/L		No
Carbon Tetrachloride	March 18, 2019	0.17	ug/L	0.005 mg/L		No
Chlorpyrifos	March 18, 2019	0.02	ug/L	0.09 mg/L		No

Parameter	Sample Date	Result Value	Unit of Measure	Maximum Acceptable Concentration (MAC)	Interim Maximum Acceptable Concentration (IMAC)	Exceedance
Diazinon	March 18, 2019	0.02	ug/L	0.02 mg/L		No
Dicamba	March 18, 2019	0.20	ug/L	0.12 mg/L		No
1,2-Dichlorobenzene	March 18, 2019	0.41	ug/L	0.20 mg/L		No
1,4-Dichlorobenzene	March 18, 2019	0.36	ug/L	0.005 mg/L		No
1,2-Dichloroethane	March 18, 2019	0.35	ug/L	0.005 mg/L		No
1,1-Dichloroethylene (vinylidene chloride)	March 18, 2019	0.33	ug/L	0.014 mg/L		No
Dichloromethane	March 18, 2019	0.35	ug/L	0.05 mg/L		No
2-4 Dichlorophenol	March 18, 2019	0.15	ug/L	0.9 mg/L		No
2,4-Dichlorophenoxy acetic acid (2,4-D)	March 18, 2019	0.19	ug/L	0.1 mg/L		No
Diclofop-methyl	March 18, 2019	0.40	ug/L	0.009 mg/L		No
Dimethoate	March 18, 2019	0.06	ug/L	0.02 mg/L		No
Diquat	March 18, 2019	1	ug/L	0.07 mg/L		No
Diuron	March 18, 2019	0.03	ug/L	0.15 mg/L		No

Parameter	Sample Date	Result Value	Unit of Measure	Maximum Acceptable Concentration (MAC)	Interim Maximum Acceptable Concentration (IMAC)	Exceedance
Glyphosate	March 18, 2019	1	ug/L	0.28 mg/L		No
Malathion	March 18, 2019	0.02	ug/L	0.19 mg/L		No
Metolachlor	March 18, 2019	0.01	ug/L	0.05 mg/L		No
Metribuzin	March 18, 2019	0.02	ug/L	0.08 mg/L		No
Monochlorobenzene	March 18, 2019	0.30	ug/L	0.08 mg/L		No
Paraquat	March 18, 2019	1.0	ug/L	0.01 mg/L		No
Pentachlorophenol	March 18, 2019	0.15	ug/L	0.06 mg/L		No
Phorate	March 18, 2019	0.01	ug/L	0.002 mg/L		No
Picloram	March 18, 2019	1.0	ug/L	0.19 mg/L		No
Polychlorinated Biphenyls(PCBs) – Total	March 18, 2019	0.04	ug/L	0.003 mg/L		No
Prometryne	March 18, 2019	0.03	ug/L	0.001 mg/L		No
Simazine	March 18, 2019	0.01	ug/L	0.01 mg/L		No
THM (RAA # 4 Calculated Average)		37.31	ug/L	0.10 mg/L based on a four-quarter		No

Parameter	Sample Date	Result Value	Unit of Measure	Maximum Acceptable Concentration (MAC)	Interim Maximum Acceptable Concentration (IMAC)	Exceedance
				moving annual average		
Terbufos	March 18, 2019	0.01	ug/L		0.001 mg/L	No
Tetrachloroethylene (perchloroethylene)	March 18, 2019	0.35	ug/L	0.03 mg/L		No
2,3,4,6-Tetrachlorophenol	March 18, 2019	0.20	ug/L	0.1 mg/L		No
Triallate	March 18, 2019	0.01	ug/L	0.23 mg/L		No
Trichloroethylene	March 18, 2019	0.44	ug/L	0.005 mg/L		No
2,4,6-Trichlorophenol	March 18, 2019	0.25	ug/L	0.005 mg/L		No
Trifluralin	March 18, 2019	0.02	ug/L	0.045 mg/L		No
Vinyl Chloride	March 18, 2019	0.17	ug/L	0.002 mg/L		No

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
Not Applicable			