

#### Prepared by the Town of Georgina pursuant to Section 11 of O.Reg. 170/03

Drinking Water System Number: 260062686 Drinking Water System Name: Keswick-Sutton Distribution Subsystem Drinking Water System Owner: The Town of Georgina DWS Category: Large Municipal Residential Drinking Water System Classification: Water Distribution II Reporting period: Jan 1, 2019 - Dec 31, 2019

#### The Keswick-Sutton Distribution Subsystem serves 39,527 people

This annual report is available to the public at no charge on the Town's website <u>https://www.georgina.ca/living-here/home-and-property/municipal-water-and-wastewater/drinking-water-reports</u> and upon request at the Civic Centre.

Summary report required under O.Reg. 170/03 Schedule 22 will be available for inspection at: The Town of Georgina Civic Centre Office of the Clerk 26557 Civic Centre Road, Keswick, Ontario, L4P 3G1 and online, https://www.georgina.ca/living-here/home-and-property/municipal-water-and-

wastewater/drinking-water-reports

List all Drinking Water Systems which receive their drinking water from the Keswick-Sutton Distribution Subsystem

None

#### **Description of the Keswick-Sutton Distribution Subsystem**

#### Introduction

Municipal drinking water is being supplied to the communities of Keswick and Sutton, located on the south shore of Lake Simcoe. Surface water from Lake Simcoe is treated by the Regional Municipality of York, while the Town of Georgina distributes treated water to end users. The Province governs the Region and Town of Georgina operations with Acts and Regulations, a Permit to Take Water, a Municipal Drinking Water License and an Operating Permit.

#### Raw water source

Lake Simcoe

List of water treatment chemicals used over this reporting period None

#### Brief description and breakdown of monetary expenses incurred

\$119,250 for capital expenditures – Church Street water service replacement. \$92,991 for Fleet vehicle replacement – Three (3) service trucks.



#### Notices submitted under Section 18(1) of the Safe Drinking Water Act or Section 16-4 of O.Reg. 170/03 and reported to MECP Spills Action Centre as Adverse Water Quality results

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
June 19, 2019	TC (Total Coliform)	Present	Presence/ Absence	Resample (at, upstream and downstream), flush, & test for chlorine residuals in accordance with O.Reg. 170/03	June 21, 2019 – 1 <sup>st</sup> resample + test & monitor June 22, 2019 – 2 <sup>nd</sup> resample + test & monitor

#### Microbiological testing completed under Schedule 10 of O.Reg. 170/03

	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	752	Range: (Absent)	Range: <1 - 1 (Present)	206	Range: 0 – 10 CFU

# Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
Chlorine	4724	0.07 – 2.04	mg/L



# Summary of testing pursuant to Schedule 13 of O. Reg. 170/03 and sampling carried out in accordance with the requirement of an approval, order or other legal instrument

	Date of Sample	Running Annual Average (µg/L)	ODWS Regulatory Limit	Exceedance		
Trihalomethanes (THM's)	January 7, 2019	58.38				
	February 6, 2019	58.88	100 µg/L	No		
	May 1, 2019	58.85				
	August 7, 2019	60.48				
	November 6, 2019	61.44				
Haloacetic Acid (HAA's)	February 6, 2019	31.13				
	May 1, 2019	35.25	100 µg/L	No		
	August 19, 2019	36.13				
	November 6, 2019	37.50				
Nitrate		*Refer to Regional Municipality of York Annual Report				
Nitrite						
Sodium		O.Reg 170/03 requires these parameters to be tested at the				
Fluoride		point where water enters the distribution system. The Town of Georgina relies on the Region of York to undertake this sampling and testing when the water leaves the treatment plant.				

#### Lead testing under Schedule 15.1 of O.Reg 170/03

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	ODWS Regulatory Limit	Number of Exceedances
Plumbing	N/A				
Distribution	8 (4 – Keswick) (4 – Sutton)	<0.0005 – 0.0009	mg/L	0.01mg/L	N/A



Summary of Inorganic (Schedule 23 of O.Reg 170/03) parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of	Exceedance				
			Measure					
Antimony	*Refer to Regional Municipality of York Annual Report							
Arsenic								
Barium		O.Reg 170/03 requires these parameters to be tested at the point where water enters						
Boron	the distribution system. The Town of Georgina relies on the Region of York to undertake this sampling and testing when the water leaves the treatment plant.							
Cadmium		- undertake this sampling and testing when the water leaves the treatment plant.						
Chromium								
Mercury								
Selenium								
Sodium								
Uranium								
Fluoride								
Nitrite								
Nitrate								
*Lead	*See above table; Sche	edule 15.1 results						

Summary of Organic (Schedule 23 of O.Reg 170/03) parameters sampled during this reporting period or the most recent sample results

Parameter	Sample	Result	Unit of	Exceedance
	Date	Value	Measure	
Alachlor	*Refer to Regional Municipality of York Annual Report			
Aldicarb	<b>—</b>			
Aldrin + Dieldrin			hese parameters	
Atrazine + N-dealkylated metobolites			on the Region o	tion system. The
Azinphos-methyl			and testing whe	
Bendiocarb		reatment pla		
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) +				
metabolites	_			
1,2-Dichloroethane	_			
1,1-Dichloroethylene				
(vinylidene chloride)	4			
Dichloromethane				

Prepared by Operations & Infrastructure Department, Environmental Services Division Town of Georgina



2-4 Dichlorophenol
2,4-Dichlorophenoxy acetic acid (2,4-D)
Diclofop-methyl
Dimethoate
Dinoseb
Diquat
Diuron
Glyphosate
Heptachlor + Heptachlor Epoxide
Lindane (Total)
Malathion
Methoxychlor
Metolachlor
Metribuzin
Monochlorobenzene
Paraquat
Parathion
Pentachlorophenol
Phorate
Picloram
Polychlorinated Biphenyls(PCB)
Prometryne
Simazine
THM
(NOTE: show latest annual average)
Temephos
Terbufos
Tetrachloroethylene
2,3,4,6-Tetrachlorophenol
Triallate
Trichloroethylene
2,4,6-Trichlorophenol
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)
Trifluralin
Vinyl Chloride

Organic and inorganic parameter(s) that exceeded half the standard prescribed in Schedule 2 of O.Reg. 169/03 Ontario Drinking Water Quality Standards

	Date of Sample	Running Annual Average (µg/L)	Value exceeded over half of regulatory standard (ODWS Standard 100 μg/L)
Trihalomethanes (THM's)	January 7, 2019	58.38	
	February 6, 2019	58.88	Yes
	May 1, 2019	58.85	
	August 7, 2019	60.48	
	November 6, 2019	61.44	

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