2016 ANNUAL REPORT - City of St. Catharines Distribution System

Drinking-Water System Nu	mber:
Drinking-Water System Na	me:
Drinking-Water System Ow	ner:
Drinking-Water System Ca	tegory:
Period being reported:	

260003279
City of St. Catharines Distribution System
Corporation of the City of St. Catharines
Large Municipal Residential (pop. 130,000)
January 1 – December 31, 2016

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [X] No [] Is your annual report available to the public at no charge on a web site on the	Number of Designated Facilities served: Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []
Internet? Yes [X] No []	Normalism of Intercepted Authorities was
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to: Did you provide a copy of your annual report to all Interested Authorities you
Lake Street Service Centre - 383 Lake Street, St. Catharines, ON L2N 4H5 -and- City Hall - 50 Church Street, St. Catharines, ON L2R 7C2	report to all interested reaches year report to for each Designated Facility? Yes [] No []

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
Not Applicable	

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 [] Not Applicable



ndicate now you notified system users that your annual report is available, and i
ree 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
[X] Public access/notice via other method: Reports are available at various Publ
Education Displays

Describe your Drinking-Water System

The City of St. Catharines owns and operates a Class II stand-alone residential water distribution system. The City receives its drinking water from the Regional Municipality of Niagara's Decew Water Treatment Plant. The source water is surface water from Lake Erie via an intake from the Welland Ship Canal. The distribution system consists of approximately 612 kilometres of watermain, approximately 3,500 hydrants and over 5,500 valves.

Were any	significant expenses incurred to?
[]	Install required equipment
[]	Repair required equipment
[X]	Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

The 2016 water improvement program budget was \$5,500,000. This budget allowed for the replacement or upgrade of 5,500 m of existing watermain.

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
March 1, 2016	Total Coliform	2	cfu/100mL	Flushed, resampled	March 4, 2016
March 22, 2016	Free Chlorine Residual	0.04	mg/L	Flushed, resampled	March 22, 2016
June 15, 2016	Free Chlorine Residual	0.00	mg/L	Flushed, resampled	June 15, 2016
Aug. 12, 2016	Free Chlorine Residual	0.01	mg/L	Flushed, resampled	Aug. 12, 2016
Aug. 14, 2016	Free Chlorine Residual	0.00	mg/L	Flushed, resampled	Aug. 14, 2016
Aug. 18, 2016	Free Chlorine Residual	0.00	mg/L	Flushed, resampled	Aug. 18, 2016
Sept. 10, 2016	Total Coliform	4	cfu/100mL	Flushed, resampled	Sept. 14, 2016
Sept. 21, 2016	Free Chlorine Residual	0.03	mg/L	Flushed, resampled	Sept. 21, 2016
Sept. 21, 2016	Total Coliform	1	cfu/100mL	Flushed, resampled	Sept. 26, 2016
Sept. 28, 2016	Free Chlorine Residual	0.04	mg/L	Flushed, resampled	Sept. 28, 2016
Oct. 17, 2016	Free Chlorine Residual	0.01	mg/L	Flushed, resampled	Oct. 17, 2016
Nov. 30, 2016	Total Coliform	15	cfu/100mL	Flushed, resampled	Dec. 5, 2016
Dec. 13, 2016	Free Chlorine Residual	0.04	mg/L	Flushed, resampled	Dec. 13, 2016

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 Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Distribution	2015	0	0-15	934	0->300

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 #)	Unit of Measure
Chlorine	3439	0.00-1.87	mg/L

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 (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	122	<0.001-0.056	mg/L	6
Distribution	20	<0.001	mg/L	0

Summary of Organic parameters sampled during this reporting period or the

most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Note: show latest annual average)	January – December, 2016	0.0388	mg/L	0