

CITY OF HAMILTON
FIFTY ROAD DRINKING WATER SUBSYSTEM (DWSS)
WATER QUALITY ANNUAL REPORT

2018

Ontario Regulation 170/03 Section 11

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Drinking Water System Number	Drinking Water System Name	Drinking Water System Owner	Drinking Water System Category	Period Being Reported
260069173	Fifty Road Subsystem of Hamilton Drinking Water System	City of Hamilton	Small Municipal Residential	January 1, 2018 to December 31, 2018

Complete if your Category is "Large Municipal Residential" or "Small Municipal Residential"

Does your Drinking Water System serve more than 10,000 people? YES ☒ NO

Is your annual report available to the public at no charge on a website on the Internet? www.hamilton.ca/waterquality ☒ YES NO

Location where Summary Report required under Ontario Regulation 170/03 Schedule 22 will be available for inspection: 700 Woodward Administration Building, Compliance Support Group

Complete for all other Categories

Number of Designated Facilities served: N/A

Did you provide a copy of your annual report to all Designated Facilities you serve? N/A

Number of Interested Authorities you report to: N/A

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? N/A





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
None other than Fifty Road Subsystem	260069173



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**



Indicate how you notified system users that your annual report is available, and is free of charge:

System users are notified through the local newspaper that the annual report is available online free of charge at www.hamilton.ca/waterquality.

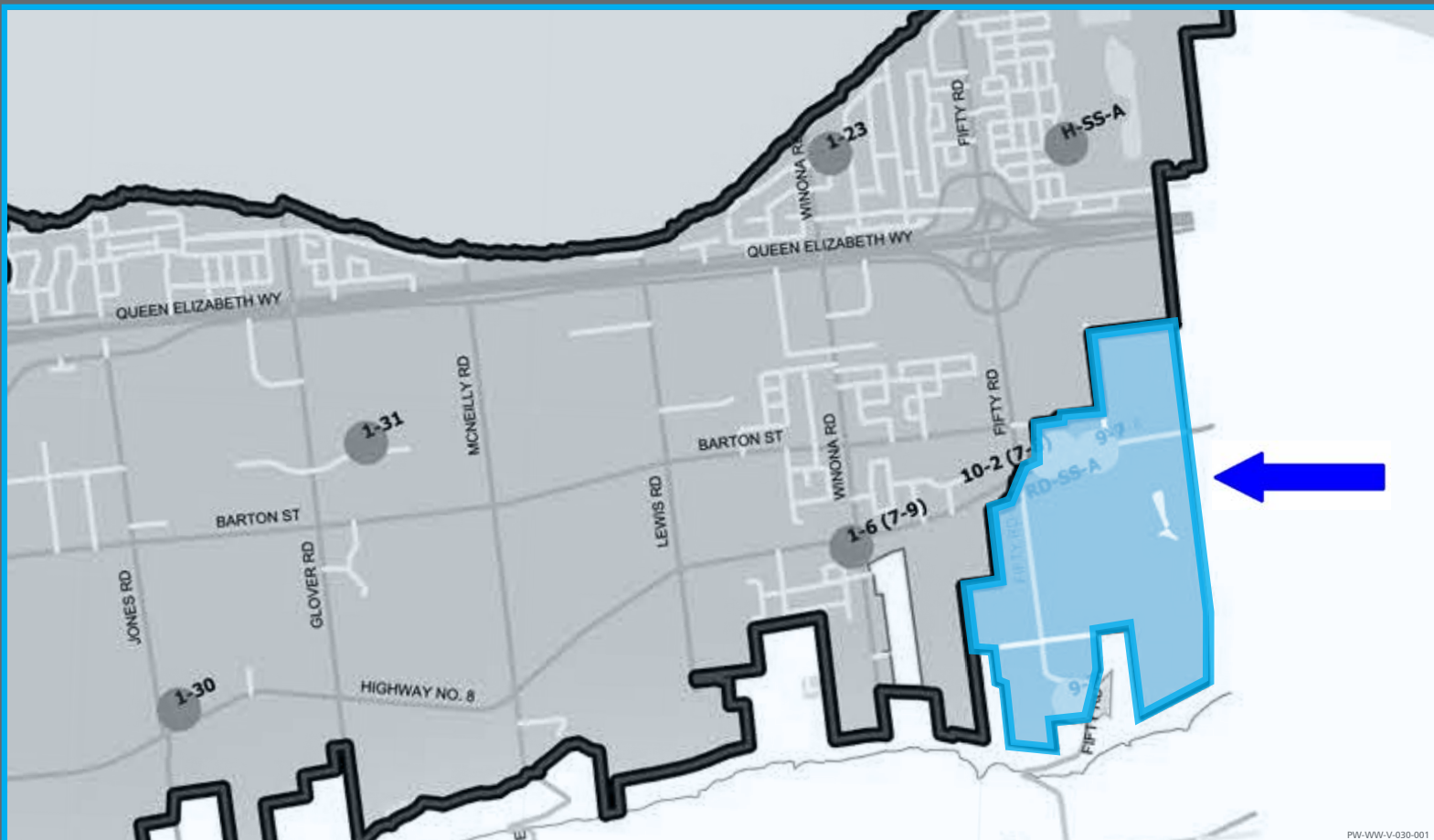




HAMILTON DWS, FIFTY ROAD SUBSYSTEM

The treated water supply for this area comes from the Town of Grimsby Water Distribution System and serves a population of approximately 200 people. Water is provided from Grimsby west along Highway 8, then south on Fifty Road to Concession Road and to an underground, 1,100m³ storage reservoir operated by the City of Hamilton. The reservoir supplies water to residences on Reservoir Park Road.

A pump, running continuously, maintains distribution water pressure. Water pumped in excess of water system demand is circulated back to the reservoir. Fluoridation is not carried out on the water supplied by the Town of Grimsby. The reservoir water chlorine residual is maintained by a rechlorination system at the reservoir. Distribution water is sampled and analyzed one day per week. Chlorine residual in the distribution system is analyzed twice per week.



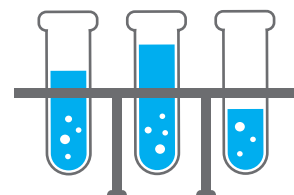
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FIFTY ROAD DRINKING WATER SUBSYSTEM



List all water treatment chemicals used over this reporting period:

→ Sodium Hypochlorite



Were any significant expenses incurred to:

Install required equipment	YES	<input type="text" value="NO"/>
Repair required equipment	YES	<input type="text" value="NO"/>
Replace required equipment	YES	<input type="text" value="NO"/>

2018 FIFTY ROAD DRINKING WATER SUBSYSTEM HIGHLIGHTS

There were no significant projects initiated in 2018.

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.

Notification Date (m-d-y)	Location of Adverse	Adverse Water Quality Incident	Resolution
10-02-2018	Fifty Road Sampling Station A	Total Coliforms = 1 CFU/100mL (Regulatory requirement is 0 CFU/100mL)	→ Resampled adverse location, one upstream and one downstream hydrant. All results passed. The adverse was not confirmed



Microbiological testing done under Schedule 10, 11, 12 and 17, 18 of Regulation 170/03, during this reporting period.

SAMPLE TYPE	NUMBER OF SAMPLES	RANGE OF E.COLI RESULTS (MIN #) to (MAX #)	RANGE OF TOTAL COLIFORM RESULTS (MIN #) to (MAX #)	NUMBER OF HPC SAMPLES	RANGE OF HPC RESULTS (MIN #) to (MAX #)
DISTRIBUTION	109	0	0 to 1	106	0 to 220

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

NOTE: For continuous monitors use 8760 as the number of samples.

PARAMETER - SAMPLE TYPE	NUMBER OF GRAB SAMPLES	RANGE OF RESULTS (MIN #) to (MAX #)	UNIT OF MEASURE
FREE CHLORINE - DISTRIBUTION	161	0.66 to 1.81	mg/L

Summary of additional testing and sampling carried out in accordance with the requirement of a licence, approval, order or other legal instrument.

PARAMETER	SAMPLE DATE	RESULT VALUE	UNIT OF MEASURE
N/A	-	-	-

Summary of Inorganic parameters required by Regulation 170/03 and tested during this reporting period.

PARAMETER	SAMPLE DATE	RESULT VALUE	UNIT OF MEASURE	NO. OF AWQIs
N/A	-	-	-	-

Summary of lead testing under Schedule 15.1 during this reporting period.

LOCATION TYPE	NO. OF POINTS SAMPLED	NO. OF SAMPLES TAKEN	RANGE OF pH RESULTS (min #) to (max #) pH Units	RANGE OF ALKALINITY RESULTS (min #) to (max #) mg/L	RANGE OF LEAD RESULTS (min #) to (max #) mg/L	NO. OF LEAD AWQIs	NO. OF POINTS OF LEAD EXCEEDANCES
PLUMBING-NR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PLUMBING-R	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DISTRIBUTION	2	2	7.66 to 7.70	86 to 87	N/A	N/A	N/A

NR - Non Residential R - Residential

Summary of Organic parameters required by Regulation 170/03 and tested during this reporting period.

PARAMETER	SAMPLE DATE	RESULT VALUE	UNIT OF MEASURE	NO. OF AWQIs
DISTRIBUTION				
TOTAL TRIHALOMETHANES*	Running annual average for the last four quarters.	33.1	ug/L	0
HALOACETIC ACIDS	2018-01-23 to 2018-10-15	30.3 to 52.1	ug/L	N/A

* The Maximum Acceptable Concentration for Trihalomethanes in the distribution is based on a running average of the results from all sampling events in the past four quarters. This running average can be found in the result value column.

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

PARAMETER	SAMPLE DATE	RESULT VALUE	UNIT OF MEASURE
N/A	-	-	-

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)

DEFINITIONS:

AWQI: Adverse Water Quality Incident
mg/L: milligrams per litre
ug/L: micrograms per litre

CFU: Colony Forming Unit
mL: millilitre

HPC: Heterotrophic Plate Count
N/A: Not Applicable

