
The 2020 Annual Drinking Water Quality Report: South Halton Drinking Water System – Snake Road Distribution Subsystem

February 2021



Introduction

Halton is committed to providing safe drinking water to all of our customers. As mandated by the *Safe Drinking Water Act, 2002*, this annual Water Quality Report includes:

- a description of the water treatment process and chemicals used;
- any major expenses to install, repair or upgrade equipment in the system; and,
- the results of our water tests and how they compare to provincial regulatory standards.

All provincial regulatory monitoring requirements and actions applicable to Halton's operation of this system were met or surpassed in the current reporting year.

Snake Road Distribution Subsystem

Drinking Water System Number: 260086775

The Snake Road Distribution Subsystem is located in the northwest area of the City of Burlington (south of the village of Waterdown). It serves approximately twenty houses and a residential institution. Treated water is supplied to the system by the City of Hamilton through an inter-connection to their distribution system on Snake Road (south end of Thompson Drive). The Snake Road Distribution Subsystem is not connected to the South Halton Distribution Subsystem.

The City of Hamilton website at www.hamilton.ca provides information regarding the treatment and quality of the treated water from the Woodward Avenue Water Treatment Plant. The City of Hamilton uses chloramination (a combination of chlorine and ammonia) for secondary disinfection in its drinking water system. Therefore, the water in the Snake Road Distribution Subsystem contains a combined chlorine residual.

What Improvements Are We Making?

No major capital expenses were incurred in the current reporting year. Halton continues to support the production and delivery of high quality, safe drinking water through water sampling and monitoring above the provincial requirements, upgrades to the Supervisory Control and Data Acquisition (SCADA) monitoring system and infrastructure management systems, an update of the Water Services Master Plan and water efficiency programs. Work also continued on the Drinking Water Quality Management System, a provincial requirement to support the licensing of municipal drinking water systems which came into effect for Halton in January 2009.

Water Quality Testing

A large number of water quality tests are performed each and every day, in accordance with the *Safe Drinking Water Act, 2002* and regulations. The following sections provide a summary of the test results.

Terms

CFU/100 mL	Colony-forming units per 100 millilitres of water
µg/L	micrograms per litre
mg/L	milligrams per litre
Standard	Ontario Drinking Water Quality Standard, O.Reg. 169/03

Microbiological Testing

	Number of Samples	<i>E. coli</i> Results (min -max)	Total Coliform Results (min -max)	Number of HPC Samples	HPC Results (min - max)
Distribution	111	0 – Absent	0 - Present	62	0 - 414

Microbiological standards for treated and distributed water:

E. coli not detected

Total Coliforms not detected

HPC Heterotrophic Plate Counts are conducted on some distribution system samples. The HPC test is used as a tool to monitor overall quality, but the results are not indicators of water safety. There is no Drinking Water Quality Standard for HPC.

Operational Testing

The chlorine residual in the distributed water is measured regularly by Halton operators. All of the readings are validated by an operator and are also reviewed by the Ministry of the Environment, Conservation and Parks (MECP) Inspector. 'Adverse' test results must be reported if the combined chlorine residual in the distribution system is <0.25 mg/L and the free chlorine residual is <0.05 mg/L. In the current reporting year, all of the chlorine test results were within the range required by regulation.

Chemical Testing

Inorganic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Standard	Exceedance of Standard
Nitrite	11/16/20	<0.02	mg/L	1.0	No
Nitrate	11/16/20	0.33	mg/L	10.0	No

Organic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Standard	Exceedance of Standard
THMs (latest running annual average)	11/17/20	14.1	µg/L	100 (running annual average)	No

No additional testing was required by a Municipal Drinking Water License, order or other legal instrument.

'Adverse' Results Notifications

The following table shows the notices of 'adverse' water quality results submitted in accordance with the *Safe Drinking Water Act, 2002* to the MECP and the Medical Officer of Health.

Date	Location	Adverse Condition	Corrective Action	Notice of Issue Resolution
July 13, 2020	Distribution	Presence/Absence confirmed Total Coliform	System flushed, 2 sets of resamples taken due to elevated Turbidity, all resample results passed	July 17, 2020

Community-Wide Lead Sampling Program Results

Under the Community-Wide Lead Sampling Program, samples were collected from two sampling points located within the Snake Road Distribution Subsystem in the current reporting year. None of the samples contained concentrations of lead above the standard of 10 µg/L.

More Information or Questions

The related annual drinking water Flow Summary Report is published on or before March 31 each year on halton.ca.

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