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# **The 2017 Annual Drinking Water Quality Report:**

South Halton Drinking Water System - North  
Aldershot Distribution System

February 2018



# 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 2017.

## North Aldershot Distribution System

**Drinking Water System Number: 260086762**

The North Aldershot Distribution system is located in the northwest area of the City of Burlington (Waterdown Road area, north of Hwy. 403). Treated water is supplied to the system by the City of Hamilton through an inter-connection to their distribution system on Waterdown Road. The North Aldershot system is connected to the South Halton Distribution System, but the connection is normally closed to prevent the mixing of water which contains a free chlorine residual (Halton) with water that contains a combined chlorine residual (Hamilton).

The City of Hamilton website at [www.hamilton.ca](http://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 North Aldershot distribution system contains a combined chlorine residual.

## What Improvements Are We Making?

No major capital expenses were incurred in 2017. 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 SCADA monitoring and infrastructure management systems, an update of the Water 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	104	0 - Absent	0 - Absent	63	0 - 11

### 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 not a 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 Environment and Climate Change (MOECC) 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 2017, 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	11/27/17	0.02	mg/L	1.0	No
Nitrate	11/27/17	0.44	mg/L	10.0	No

### Organic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Standard	Exceedance of Standard
THMs (latest running annual average)	11/27/17	23.2	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

Notices of 'adverse' water quality results are submitted in accordance with the *Safe Drinking Water Act, 2002* to the MOECC and the Medical Officer of Health. In 2017, there were no adverse water reports for the North Aldershot Distribution System.

## Community-Wide Lead Sampling Program Results

Under the Community-Wide Lead Sampling Program, two sets of samples were collected in 2017. None of the samples contained concentrations of lead above the standard of 10 µg/L.

## More Water Information

More information is available on our website: [www.halton.ca/water](http://www.halton.ca/water). The annual Flow Summary Report 2017 will be available for inspection after March 31, 2018 at:

Halton Region Citizens' Reference Library  
1151 Bronte Road  
Oakville, ON L6M 3L1

## Questions or Comments Welcome

We welcome your comments or questions. Please call us at the telephone numbers below.

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