

Town of Whitchurch-Stouffville - Stouffville DWS
Drinking Water Systems Regulation O. Reg. 170/03 Section 11 Reporting

***MODIFIED* OPTIONAL ANNUAL REPORT TEMPLATE**

Accessible formats or communication supports are available upon request.

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| Drinking-Water System Number: | 260003162 |
| Drinking-Water System Name: | Stouffville Drinking Water System |
| Drinking-Water System Owner: | Town of Whitchurch-Stouffville |
| Drinking-Water System Category: | Large Municipal Residential, Class 1 |
| Period being reported: | January 1, 2017 to December 31, 2017 |

The Stouffville Drinking Water System serves more than 10,000 people.

This annual report is available to the public at no charge on the Town's web site and upon request.

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:

Town of Whitchurch-Stouffville

111 Sandiford Drive

Stouffville, ON L4A 0Z8

www.townofws.ca/en/residents/water-quality.aspx

No additional Drinking Water System owners that are connected to and receive drinking water from the Town of Stouffville.

System users were notified that Stouffville's annual report is available free of charge by public access and notice through:

- Web
- Municipal Government Office (Administrative Office – 111 Sandiford Drive)
- Public Request at any time

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Description of the Stouffville Drinking Water System

About Stouffville

Water treatment and supply for the Stouffville Water Distribution System is the responsibility of the Regional Municipality of York. Water supply is comprised of a combination of ground water production wells and surface water which originates at Lake Ontario. The combination of surface and well water supplies creates a blended water supply for the Community of Stouffville. Water treatment for each of these sources is provided by the Region by means of chlorination. Currently the Region owns, operates and maintains in accordance with MOECC requirements the following: five ground water production wells at three sites, two ground level reservoirs, two elevated storage tanks and approximately seven kilometers of transmission watermain. For further information regarding water supply and treatment, contact the Regional Municipality of York located at 17250 Yonge Street, Newmarket Ontario, L3Y 6Z1 or visit their website at www.york.ca.

The Town of Whitchurch-Stouffville owns and operates the Stouffville Water Distribution System, servicing approximately 35,000 residents and businesses in the community of Stouffville and for approximately 20 households on Highway 48.

Presently, this water distribution system infrastructure consists of approximately 136 kilometers of various size watermains, 1440 watermain valves, 1011 hydrants and 41 sampling stations.

The operation and maintenance of this system to ensure safe drinking water is the responsibility of the Town's Public Works Department. Staff are certified in accordance with the Ministry of the Environment and Climate Change of Ontario (MOECC) requirements. In 2011 the MOECC issued to the Town the Municipal Drinking Water License for the Stouffville Water Distribution System and approved the Town's Operational Plan. This plan is part of the Town's Quality Management System that describes the processes and procedures by which this water distribution system is operated and maintained. Activities generally include watermain break repairs, valve maintenance, hydrant maintenance, water locate stakeouts, watermain flushing and water quality sampling. The Operational Plan is available for review to the Public at the Town's Municipal Office (111 Sandiford Dr, Stouffville ON) or on the Town's website www.townofws.ca. A copy of the water distribution system annual and summary reports are also available on the Town's website.

List all water treatment chemicals used over this reporting period

Not applicable. Treatment chemicals are introduced at the various sources by the Region of York only. Refer to the Region of York website www.york.ca/drinkingwater.

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Brief description and breakdown of monetary expenses incurred

\$ 460,000 – Main St. watermain upsizing and replacement
\$ 560,000 – Burkholder St. watermain replacement
\$ 30,000 – Various watermain, valve and hydrant improvements

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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 and Location | Parameter | Result | Unit of Measure | Corrective Action and Result | Corrective Action Date |
|----------------------------|----------------|--------|-----------------|------------------------------|------------------------|
| September 8, 2017 | Total Coliform | 6 | CFU/100 mL | Flushed and resampled. | September 11, 2017 |
| September 8, 2017 | Total Coliform | 340 | CFU/100 mL | Flushed and resampled. | September 11, 2017 |

Microbiological testing done under the Schedule 10 of Regulation 170/03 during this reporting period

| | Number of Distribution Samples | Range of Results (min # to max #) | Detections |
|-----------------|--|-----------------------------------|------------|
| E. coli | 754 | 0 - 0 | 0 |
| Total Coliforms | 754 | 0 - 340 | 2 |
| HPC | 467 | 0 - 17 | N/A |
| Raw and Treated | For raw and treated samples collected under Schedule 10, refer to the Region of York Annual Report . | | |

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 | <i>NOTE: For continuous monitors use 8760 as the number of samples.</i> |
|---|---|----------------------------------|-----------------|---|
| Turbidity (treated) | Refer to Region of York Annual Report . | | | |
| Chlorine (free) | 1694 | 0.20 – 2.20 | mg/L | |
| Fluoride (If the DWS provides fluoridation) | Refer to Region of York Annual Report . | | | |

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

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| Not applicable | | | | |

Summary of Inorganic parameters tested during this reporting period, or the most recent result.

| Parameter | Date Sampled | Result | Unit of Measure |
|----------------------------|-------------------|--------|-----------------|
| Nitrite | December 20, 2017 | <0.50 | mg/L |
| Nitrate | December 20, 2017 | <0.05 | mg/L |
| Lead (Distribution system) | October 12, 2017 | 0.0005 | mg/L |

For all other results please refer to the [Region of York Annual Report](#).

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Summary of calculated running annual average Trihalomethane (THM) during this reporting period

| | |
|--|------------------------|
| Facility monitored for THM | Stouffville DWS |
| Annual Average Q1-Q4 2017 | 0.019 mg/L |
| Does result exceed Standard of 0.100 mg/L? | No |

York Region monitors another group of disinfection by-products called Total Haloacetic Acids (HAAs).

| | |
|---|------------------------|
| Facility monitored for HAAs | Stouffville DWS |
| Annual Average (mg/L) | 0.020 mg/L |
| Does result exceed Proposed Standard of 0.080 mg/L? | No |

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

| Parameter | Result Value | Unit of Measure | Date of Sample |
|------------------|---------------------|------------------------|-----------------------|
| Sodium | 55.1* | mg/L | November 23, 2017 |

*Sodium was last reported as an Adverse Water Quality Incident on November 14, 2014 and is not required to be reported again until August 2019.