



2025 DRINKING WATER SUMMARY REPORT



EXECUTIVE SUMMARY

The “Drinking Water Summary Report” is prepared for members of Town Council in order to meet the requirements outlined in Schedule 22 of O. Reg. 170/03: Drinking Water Systems under the Safe Drinking Water Act, 2002. The report provides information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system. The report provides summary information on the operation of both the Ballantrae/Musselman’s Lake Drinking Water System and the Community of Stouffville Drinking Water System.

MECP INSPECTION FINDINGS:

The annual inspection from the MECP of the Town's Drinking Water Systems was conducted from February 3, 2026 to February 4, 2026 in-person. The document review, by the MECP, is occurring at the time of writing this report. The results have not been finalized and submitted at this time. When the results are finalized and submitted, Council will be notified through the circulation of the Top Management Review minutes in June 2026.

The Ballantrae/Musselman's Lake Drinking Water System received an Inspection Rating of 100% and a Risk Rating of 0% in December 2024. No further action was required by the MECP.

The Stouffville Drinking Water System received an Inspection Rating of 100% and a Risk Rating of 0% in December 2024. No further action was required by the MECP.

SUPPLY SYSTEM CAPACITY AND OPERATIONS

The Regional Municipality of York is responsible for the supply of water (production and treatment). All systems operated below the maximum rated capacity of the system. Information about the supply and treatment of the Drinking Water Systems is available on York Region's website at: www.york.ca/drinkingwater.

INCIDENTS OF ADVERSE WATER QUALITY JANUARY 1 – DECEMBER 31, 2025

May 15th, 2025

There was one reported incident of adverse water quality in the Stouffville Drinking Water System. A free Chlorine residual sample taken from hydrant ID #1214, located at 287 Boundary Boulevard, was reported below the Provincial regulated concentration of 0.05mg/L for Free Chlorine. The residual entry was determined to be operator error and not a reflection of the drinking water system. An initial sample taken at 287 Boundary Boulevard at 10:40am with a Free Chlorine residual reading of 0.62mg/L, it was at 11:00am the error was entered. When the error was identified, grab samples were retaken at 6:15pm with a free Chlorine residual reading of 0.63mg/L and another Free Chlorine residual of 0.56mg/L at 6:35pm. The re-samples were found within the Provincial regulated parameters (>0.05mg/L), and no further action was required. (AWQI# 168236).

There were no reported incidents of adverse water quality in the Ballantrae/Musselman's Lake Distribution System.

BALLANTRAE/MUSSELMAN'S LAKE - [GROUNDWATER]

York Region operates three wells and one elevated tank servicing the community of Ballantrae/Musselman's Lake. Water withdrawal from each of the wells is regulated by a Permit to Take Water issued by the Ministry of the Environment, Conservation and Parks (MECP).

The Town of Whitchurch-Stouffville owns and operates the water distribution system consisting of approximately 47 kilometres of watermain, 305 valves, 360 fire hydrants and 17 sampling stations.

Raw Water Source Description

Wells draw water from the deep aquifer. Groundwater quality meets the Ontario Drinking Water Quality Standard. Aesthetic parameters such as iron and operational parameters including hardness fall outside the optimal operating range, which is common in deep aquifers in York Region. York Region staff use raw water test results to determine the best water treatment.

Water Treatment

Water from the Ballantrae/Musselman's Lake wells is treated by the addition of chlorine for disinfection and sodium silicate to sequester iron to reduce potential staining of plumbing fixtures and laundry. Disinfection is maintained in the distribution system by the presence of free chlorine residual.

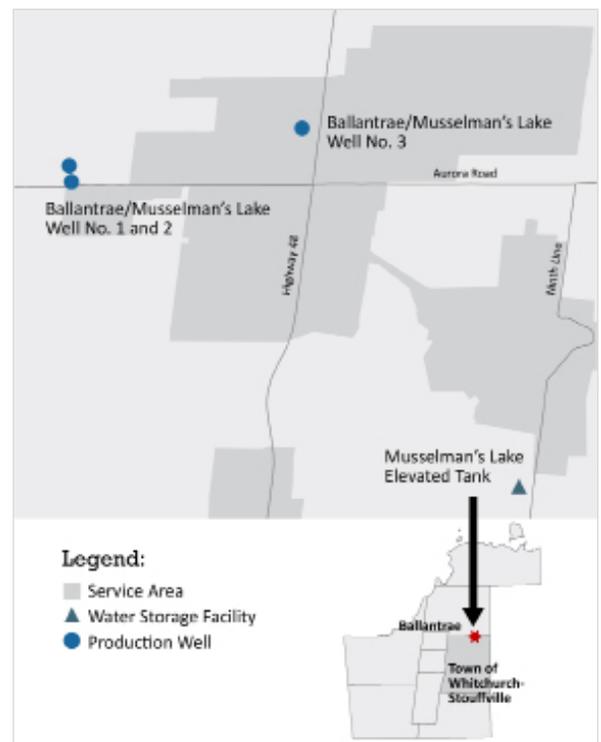
Treatment processes throughout the facility are monitored by online analyzers equipped with alarms and lockouts to alert operational staff of conditions requiring attention.

Town of Whitchurch-Stouffville staff sample and test the water in the distribution system in accordance with all MECP requirements.

For information related to water quality and system performance, please refer to the York Region website www.york.ca/drinkingwater

Summary of Approvals and Permits

Municipal Drinking Water License No.:	132-101
Issue Number:	Issue 4
Issue Date:	June 15, 2021
Expiry Date:	June 24, 2026
Drinking Water Works Permit Number:	132-201
Issue Number:	Issue 3
Issue Date:	June 15, 2021
Operational Plan Number:	132-401
Financial Plan Number:	132-301A
MECP Waterworks Number:	260006737
System Classification:	Class 1 Large Municipal Residential



STOUFFVILLE - [SURFACE + GROUNDWATER]

York Region operates five wells servicing the community of Stouffville. Water withdrawal from each of the wells is regulated by a Permit to Take Water issued by the Ministry of the Environment, Conservation and Parks. Groundwater supply is supplemented with water from Lake Ontario via the City of Toronto treatment and supply system.

The Town of Whitchurch-Stouffville owns and operates the water distribution system consisting of approximately 200 kilometres of watermain, 1650 valves, 1150 hydrants and 48 sampling stations. The distribution system is separated into three pressure districts controlled by a system of closed valves and pressure reducing valves. A separate system distributes municipal drinking water to approximately 20 properties along Highway 48 at Bloomington Road.

Currently, there are two reservoirs and two elevated tanks servicing Stouffville.

Raw Water Source Description

Wells draw water from two separate aquifers: shallow and deep aquifers. Groundwater quality meets the Ontario Drinking Water Quality Standard. Groundwater in the shallow aquifer wells (Wells No. 3, 5 and 6) show higher chloride, sulphate and sodium concentrations in comparison to Wells No. 1 and 2, which are in the deep aquifer. Concentrations remain within safe

limits and trends are monitored on an ongoing basis. Aesthetic parameters such as iron and operational parameters including hardness fall outside the optimal operating range, which is common in deep aquifers in York Region. York Region staff uses raw water test results to determine the best water treatment.

Water Treatment

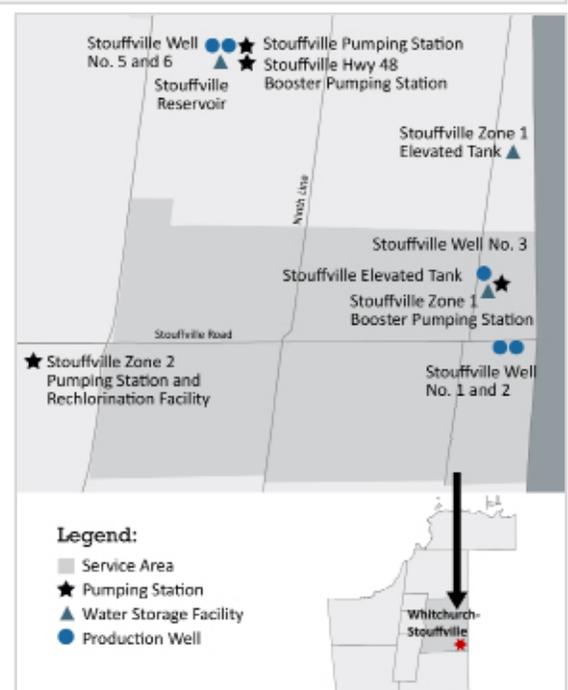
Water treatment for Stouffville wells includes the addition of chlorine for disinfection. At the Zone 2 pumping station, disinfection of the lake-based water is converted from chloramine to free chlorine. Treatment facilities are monitored by online analyzers equipped with alarms and lockouts to alert York Region Water Operations staff of conditions requiring attention. Disinfection is maintained in the distribution system by the presence of a free chlorine residual.

Town of Whitchurch-Stouffville staff sample and test the water in the distribution system in accordance with all MECP requirements.

For information related to water quality and system performance, please refer to the York Region website www.york.ca/drinkingwater

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