

2024 DRINKING WATER SUMMARY REPORT



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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 Drinking Water Systems Regulation O. Reg. 170/03 under the Safe Drinking Water Act. 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: DECEMBER 22, 2023 – DECEMBER 2, 2024

The annual inspection from the MECP of the Town's drinking operated below the maximum rated capacity of the system. water systems was conducted from December 2, 2024, to December 19, 2024. The Ballantrae/Musselman's Lake Information about the supply and treatment of the systems system was given an Inspection Rating of 100% and a Risk is available on York Region's website at www.york.ca/ Rating of 0%. There was no change from the 2023 inspection drinkingwater. where the Ballantrae/Musselman's Lake system received an Inspection Rating of 100% and a Risk Rating of 0%. No further action was required by the MECP.

The Stouffville system was given an Inspection Rating of 100% and a Risk Rating of 0%. This demonstrates an increase in system performance from the 2023 inspection, where the Stouffville system received an Inspection Rating of 94.12% and a Risk Rating of 5.88%. No further action was required by the MECP

There have been no further identified non-compliances from December 22, 2023 – December 2, 2024 for either system.

INCIDENTS OF ADVERSE WATER QUALITY JANUARY 1 - DECEMBER 31, 2024

There was one reported incident of adverse water quality in the Stouffville Distribution System. A sample taken January 9, 2024, found a sodium level of 29 mg/L, which exceeds the Provincial Standard of 20 mg/L at the sampling station opposite 133 Charles Street. The system was flushed and resampled January 16, 2024, with two of the three samples meeting the Provincial Drinking Water Standards and one taken at the upstream hydrant exceeding the Provincial Drinking Water Standards at 21.2 mg/L. The elevated sodium levels in the Stouffville Distribution System has been previously documented, and information is made available to the public through York Region's website and the Town's website. No further action was required (AWQI #164338). There were no reported incidents of adverse water quality in the Ballantrae/Musselman's Lake Distribution System.

SUPPLY SYSTEM CAPACITY AND OPERATIONS

The Regional Municipality of York is responsible for the supply of water (production and treatment). All systems

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, 330 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.

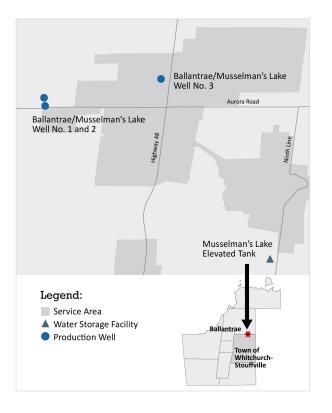
Treatment processes throughout the facility are monitored by online analyzers equipped with alarms and lockouts to alert operational staff of conditions requiring attention.

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. vork.ca/drinkingwater

Summary of Approvals and Permits

Municipal Drinking Water License No.:	132-101
Issue Number:	Issue 4
lssue Date:	June 15, 2021
Expiry Date:	June 24, 2026
Drinking Water Works Permit Number:	132-201
Issue Number:	Issue 3
lssue 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 a Permit to Take Water issued by the Ministry of the Environme Conservation and Parks. Groundwater supply is supplemented with water from Lake Ontario via the City of Toronto treatment and supply system.

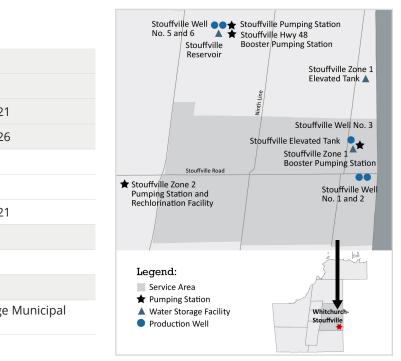
The Town of Whitchurch-Stouffville owns and operates the wate distribution system consisting of approximately 200 kilometres watermain, 1762 valves, 1176 hydrants and 52 sampling stations. light system achieves primary disinfection of the raw water The distribution system is separated into three pressure districts prior to addition of chlorine to maintain residual levels. At the controlled by a system of closed valves and pressure reducing Zone 2 pumping station, disinfection of the lake-based water is valves. A separate system distributes municipal drinking water to converted from chloramine to free chlorine. Treatment processes approximately 20 properties along Highway 48 at Bloomington throughout the system are continuously monitored and are Road. equipped with alarms and automatic lockouts. Disinfection is maintained in the distribution system by the presence of free chlorine residual. Raw Water Source Description

Wells draw water from two separate aguifers: shallow and deep aquifers. Groundwater quality meets the Ontario Drinking Water Town of Whitchurch-Stouffville staff sample and test the water in Quality Standard. Groundwater in the shallow aquifer wells the distribution system in accordance with all MECP requirements. (Wells No. 3, 5 and 6) show higher chloride, sulphate and sodium concentrations in comparison to Wells No. 1 and 2, which are in For information related to water quality and system performance, the deep aquifer. Concentrations remain within safe please refer to the York Region website www.york.ca/ limits and trends are monitored on an ongoing basis. Aesthetic drinkingwater

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1	raw water test results to determine the best water treatment.
	Water Treatment
ter	Water treatment for Stouffville wells includes the addition of
s of	chlorine for disinfection. At Wells No. 5 and 6, an ultraviolet







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