

# 2025 Annual Drinking Water System Quality Report for King City DWS

Prepared by The Regional Municipality of York pursuant to Section 11 of O. Reg. 170/03.

**Drinking Water System Number:** 220002299

**Drinking Water System Name:** King City DWS

**Drinking Water System Owner:** The Regional Municipality of York

**Drinking Water System Category:** Large Municipal Residential

**Drinking Water System Classification:** Water Distribution and Supply II

**Reporting period:** Jan 1, 2025 - Dec 31, 2025

**The King City DWS serves approximately 9,280 people.**

*(Note: Population is based on service area of the DWS and may not align with municipal and political boundaries).*

**List all Drinking Water Systems which receive their drinking water from the King City DWS:**

King City Distribution System (260005138)

This annual report is available to the public at no charge on York Region's website ([york.ca/drinkingwater](http://york.ca/drinkingwater)) and upon request. Accessible formats or communication supports are also available upon request. Please contact [AccessYork@york.ca](mailto:AccessYork@york.ca) or call 1-877-464-9675.

**A copy of York Region's annual report was provided to all Drinking Water System owners that are connected to and receive drinking water from York Region.**

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

- Media (internet, social media)
- Public requests at any time

**Summary report required under O. Reg. 170/03 Schedule 22 will be available for inspection at:**

The Regional Municipality of York  
Administrative Centre  
Public Works Department  
17250 Yonge Street, Newmarket ON L3Y 6Z1

## Description of the King City DWS

### **Introduction:**

King City is a community in south-eastern King Township. King City DWS provides water from Lake Ontario through the York DWS. Two wells are installed but are currently offline. York Region operates the water supply, and King Township maintains and distributes water to users. The Province governs York Region's operations with Acts and Regulations, a Permit to Take Water, a Municipal Drinking Water License and an operating Permit. Lake Ontario water is purchased with supply agreements.

### **Raw water source:**

Groundwater

### **Profile of water in distribution system:**

Blended - Lake and Groundwater

### **Water treatment description:**

King City DWS includes two wells, one pumping station and two storage facilities. Purchased water is pre-treated and disinfected by the City of Toronto and Peel Region. Storage facilities hold treated water and maintain pressure. Wells are currently offline. If the wells are used for supply, chlorine provides disinfection, chloramine provides a secondary residual and sodium silicate sequesters naturally occurring iron and manganese. Operators test the water and inspect the process. Online analyzers continuously monitor the facilities and automatically pause operation if an issue is detected.

### **List of water treatment chemicals used in this system:**

Gaseous Chlorine, Ammonia Solution (disinfection); Sodium Silicate (iron and manganese sequestering); Wells are currently offline

### **Brief description and breakdown of monetary expenses incurred:**

\$628,161 for well rehabilitation, storage facilities rehabilitation, new Regional remote operations centre construction, general maintenance and repairs.

**Notices submitted under Section 18(1) of the *Safe Drinking Water Act* or Section 16-4 of Schedule 16 of O. Reg. 170/03 and reported to MECP Spills Action Centre**

**Not Applicable**

**Intentionally blank. No notices were submitted for this report period.**

## **Microbiological testing completed under Schedule 10 of O. Reg. 170/03**

For additional distribution samples collected under Schedule 10, refer to the local municipality.

### **Raw Samples**

Note: no raw results are available for the reporting periods as the wells were not operational.

### **Treated Samples**

Note: no treated results are available for the reporting period as the wells were not operational.

## **Operational testing completed under Schedule 7 of O. Reg. 170/03 during this reporting period**

<b>Test Parameter</b>	<b>Test Unit</b>	<b>No. of Samples <sup>1</sup></b>	<b>Average</b>	<b>Minimum</b>	<b>Maximum</b>
Combined Chlorine	mg/L	8,760	1.74	0.00	2.88

<sup>1</sup> 8,760 is used as the number of samples for continuous analyzers.

**Summary of testing pursuant to Schedule 13 of O. Reg. 170/03 and sampling carried out in accordance with the requirement of an approval, order or other legal instrument**

Values with a less than sign (" $<$ ") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect (i.e. the " $<$ " is omitted) and are rounded to three decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater).

Test Parameter <sup>2 3</sup>	Test Unit	No. of Samples <sup>1</sup>	Average	Minimum	Maximum
Fluoride	mg/L	8	0.565	0.430	0.640
Haloacetic Acids (Distribution)	ug/L	8	8.275	<8.000	10.000
Nitrate (Distribution)	mg/L	8	0.500	<0.500	<0.500
Nitrite (Distribution)	mg/L	8	0.050	<0.050	<0.050
N-Nitrosodimethylamine (NDMA) (Distribution)	ug/L	5	0.0010	<0.0009	0.0010
Sodium	mg/L	2	24.750	23.700	25.800
Trihalomethanes (Distribution)	ug/L	8	17.175	14.300	18.900

\*Lead testing under Schedule 15.1 is conducted by the local municipality - refer to local municipality reports for results. York Region occasionally collects samples tested for lead for non-regulatory research purposes.

<sup>1</sup> 8,760 is used as the number of samples for continuous analyzers.

<sup>2</sup> The Average for Haloacetic Acids and Trihalomethanes is calculated as the running annual average of quarterly results in accordance with O. Reg 170/03. The Minimum and Maximum values reflect individual test results.

<sup>3</sup> Where sampling for 'N-Nitrosodimethylamine (NDMA)' is required, locations were selected to represent the farthest points in the distribution system. For York DWS and sub-systems, representative sample locations were selected from across the interconnected sub-systems and include at least one facility from every subsystem.

**Organic and inorganic parameter(s), from Schedule 23 and 24, that exceeded half the standard prescribed in Schedule 2 of O. Reg. 169/03 Ontario Drinking Water Quality Standards**

**Not Applicable**  
**Intentionally blank. There were no applicable test results.**

**Summary of inorganic parameters tested pursuant to Schedule 23 of O. Reg. 170/03**

Values with a less than sign (" $<$ ") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect and are rounded to four decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater).

<b>Test Parameter</b>	<b>Test Unit</b>	<b>No. of Samples</b>	<b>Average</b>	<b>Minimum</b>	<b>Maximum</b>	<b>ODWS Limit</b>
Antimony	mg/L	2	0.0005	<0.0005	<0.0005	0.006
Arsenic	mg/L	2	0.0006	0.0006	0.0006	0.01
Barium	mg/L	2	0.0231	0.0231	0.0231	1
Boron	mg/L	2	0.0246	0.0233	0.0258	5
Cadmium	mg/L	2	0.0005	<0.0005	<0.0005	0.005
Chromium	mg/L	2	0.0005	<0.0005	<0.0005	0.05
Mercury	ug/L	2	0.1000	<0.1000	<0.1000	1
Selenium	mg/L	2	0.0005	<0.0005	<0.0005	0.05
Uranium	mg/L	2	0.0005	<0.0005	<0.0005	0.02

**Summary of organic parameters tested pursuant to  
Schedule 24 of O. Reg. 170/03**

Values with a less than sign (" $<$ ") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect and are rounded to three decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater).

**Not Applicable**  
**Schedule 24 sampling is not applicable to the King City DWS**  
**as the wells were offline.**