



Huronville Water and Wastewater Quality Management System Report for the Year 2023

HURONVILLE SUBDIVISION WATER DISTRIBUTION SYSTEM

Water Quality

A minimum of one sample is to be collected each month for microbiological testing. There were no adverse test results. Along with microbiological testing at least one free chlorine residual was taken in the Huronville Subdivision each month. There were no incidents of adverse water quality due to low chlorine residuals. The minimum residual recorded was 0.26mg/L on June 5. The average residual from samples collected in 2023 was 0.76 mg/L.

Distribution samples were collected from hydrants in March and August and tested for pH and Alkalinity. The system is on a reduced sampling schedule for lead and was not required to be tested in 2023.

The following table shows the range of sample results in 2023 from both the Kincardine water system and the Lakeshore Drinking water system.

Parameter	Number of Samples	Range of Results
Microbiological (Total Coliform and Escherichia coli) (cfu/100mL)	12	0 - 0
Free Chlorine Residual (mg/L)	14	0.26 – 1.04
pH	2	7.2 – 7.9
Alkalinity (mg/L)	2	64 - 75
Lead (ug/L)	--	--

Ministry of the Environment, Conservation and Parks

The Ministry conducted an on-site inspection on September 20, 2023. While the Huronville report did not note any non-compliance items, the Kincardine system, which feeds the Huronville Distribution system, had one Non-Compliance and one Best Practice noted in the MECP report. See tables below for details.

Non-compliance

Incident Date	Requirements the System Failed to Meet	Result	Corrective Action	Corrective Action Date
May 1, 2023	Filters did not meet the performance criterion for filtered water NTU of less than or equal to 0.3 NTU in 95% of the measurements for the month of April 2023.	Filter #1 37.85% Filter #2 91.08% Filter #3 90.61% Filter #4 89.78%	Cause was extreme turbidity event due to weather. Actiflo system was cleaned in May to remove excess sand	May 16, 2023

Best Practice

Recommendation	Solution
It is strongly recommended that the Owner/Operating Authority forthwith assess their reservoir hatch covers and make appropriate modifications to the hatch covers to ensure that they are functioning appropriately and, in a manner, to mitigate the entry of groundwater into the reservoir.	Staff are looking at sealing the reservoir from the outside so the reservoir can stay online and there are minimal disruptions to the drinking water system. Work is tentatively scheduled for Spring 2024.

Customer Complaints

There were no customer complaints received by staff in 2023.

Maintenance Activities

Flushing of the fire hydrants in the Huronville Subdivision occurred in July 2023. All hydrants were checked and flagged for the winter in November 2023.

Water meter readings were taken in January, May, and September. An additional six water meter readings were taken for final reads or issues, and one house had wiring repaired for the meter.

Infrastructure Replacements

There were no infrastructure replacements in 2023.

Infrastructure Needs Identified

No additional infrastructure needs were identified or budgeted for.

Locates

A total of 23 water locates were completed in 2023.

HURONVILLE SUBDIVISION, INVERLYN ESTATES AND PENETANGORE ROW (SOUTH EXTENSION) SEWAGE COLLECTION SYSTEM

Customer Complaints

There were no customer complaints received.

Maintenance Activities

There were no maintenance activities required in 2023.

Infrastructure Replacements

No infrastructure replacements were required.

Infrastructure Needs Identified

No additional infrastructure needs were identified or budgeted for.

Locates

A total of 20 sanitary sewer locates were completed in 2023.