



Staff Report

Report Title: Water Wastewater December 2023

Prepared By: John Yungblut, C.E.T., Director of Public Works

Department: Public Works

Date: Dec. 4, 2023

Report Number: PW-2023-12-57

File Number: C11 PW 23

Attachments: Monthly Water/Wastewater Summary, Huronville DWS Final Report, Kincardine DWS Final Report, Huronville DWQMS Audit Report

Recommendation:

THAT the Township of Huron-Kinloss Committee of the Whole hereby receives for information, Report PW-2023-12-57 prepared by John Yungblut, Director of Public Works.

Background:

Monthly Summary

Our Operating Authority, Veolia Water Canada, has prepared a summary of the water and wastewater operations over the past month.

Lucknow Standpipe Replacement

On Aug. 15, 2022, the tender of the construction of an elevated water storage tank in Lucknow was awarded to Landmark Structures Co. Construction began on Nov. 30, 2022.

The mechanical and electrical systems are now complete and commissioning of the tank and piping was completed on Nov. 8th. The elevated tank was incorporated into the Lucknow distribution system at 8:30am on Nov. 8, 2023.

The demolition and removal of the existing standpipe and radio equipment building was completed on Nov. 29th, including the concrete foundation.

Site restoration is currently underway and will continue as weather allows.

Ripley Well 1 Abandonment

The original municipal drinking water well in Ripley, known as Ripley Well 1, was abandoned on Oct. 5, 2023 with bentonite clay and a concrete cap and the contractor did not encounter any issues.

On Oct. 19, 2023, our lab contacted Veolia indicating that they were unable to test the raw water samples from Ripley Well 2, which is located approximately 10m east of Ripley Well 1, for the past two weeks. It appears that the bentonite clay migrated to the other well after abandonment, which impacted the ability of the lab to analyze the sample for contamination. Ripley Well 2 was then immediately taken offline. Treated water samples were able to be analysed and they were clear of any contamination.

Raw water sample results from Ripley Well 3 and 4 located near the Ripley Elevated Tank that were taken on Oct. 10th showed elevated levels of total coliform and E.Coli. At this point Ripley Well 2 was taken offline and Veolia began regularly flushing Ripley Well 2.

Raw water sample results taken on Oct. 24th showed no detectable E.Coli and significantly reduced levels of total coliform in Ripley Well 3 and 4. The lab was able to determine that there was not high levels of contamination in the raw water at Ripley Well 2, but could not verify if there was any low levels of coliform or E.Coli.

Raw water samples taken on Nov. 7th showed no contamination for any well in the Ripley water supply and distribution system. However, Nov. 14th and Nov. 21st raw water samples results showed low levels of total coliform and E.Coli in Ripley Well 4.

As of Nov. 30th, the only well in Ripley that has raw water contamination is Ripley Well 4. We will continue to closely monitor results of Ripley Well 4 before making a decision if further investigation is required.

Through this entire process the treated water has been sampled and the lab has confirmed that there has been no detectable levels of total coliform or E.Coli at any well site and the various sampling locations throughout the Ripley drinking water distribution system.

Huronville SCADA Upgrades

The replacement of the Master Control Centre (MCC) and Programmable Logic Controller (PLC) at the Huronville S Pumphouse in the northern Lakeshore area has been awarded to Eramosa Engineering Inc. on April 18, 2022. The project was substantially completed during the week of Nov. 6, 2023, with some minor electrical and programming work still ongoing as of Nov. 30th.

Huronville/Kincardine DWS Reports

The Municipality of Kincardine is supplier and operator of the water distribution system in the Huronville subdivision, in the north end of the Lakeshore. As a result, they are required to circulate Huronville reports to the Township for review. This years Huronville audit was conducted on Oct. 31, 2023 and the Huronville and Kincardine Drinking Water System (DWS) inspections were completed on Sept. 20, 2023. The reports are attached this report.

Discussion:

Monthly Summary

The summary prepared by Veolia Water Canada is attached to this report.

Lucknow Standpipe Replacement

This project is progress very well with very few issues encountered.

Township staff received a request from the Lucknow Kinsmen to salvage some of the rivetted panels on the existing standpipe for historic preservation purposes. After some discussion with the demolition contractor, the club was informed that some of the panels at the top of the standpipe could be salvaged, however, salvaging all the letters would difficult and potentially dangerous. The contractor's plan was to cut out the top few rows of panels and then use a large excavator to collapse the structure. Cutting out only the vertical letters was discussed, however, the contractor was concerned that the structure would collapse in an uncontrolled manner, risking the safety of the workers.

Huronville DWQMS External Audit Report

Township staff have reviewed the reports and have no concerns.

Financial Impacts:

The Lucknow Standpipe Replacement, Ripley Well 1 Abandonment and the Huronville SCADA Upgrades are included in the 2023 Capital Budget.

Strategic Alignment / Link:

We are an environmentally conscious community that are good stewards of our natural environment by being aware and taking responsibility.

We are a prosperous community that continues to grow in a sustainable manner by investing in infrastructure.

Action Item P5.4 – Lucknow Water Tower

Respectfully Submitted By:

John Yungblut, Director of Public Works

Approved By:

Mary Rose Walden, Chief Administrative Officer