The Corporation of the Township of Huron-Kinloss

Staff Report

Report Title: Water Wastewater May 2021

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

Department: Public Works

Date: May. 3, 2021

Report Number: PW-2021-05-33 **File Number:** **E03 WAT 21**
E08 WAT 21
E08 HUR 21
E08 PCP 21

Attachments: Water/Wastewater Summary; Kincardine Water System Management Review and Action Plan; Flow Valve Photo; Spool Photo

Recommendation:

That the Township of Huron-Kinloss Committee of the Whole receives for information Report Number PW-2021-05-33, as prepared by John Yungblut, Director of Public Works

Background:

Monthly Summary

Veolia Water Canada has prepared a summary of water and wastewater operations.

Kincardine Water System Annual Management Review and Action Plan

The Municipality of Kincardine, which supplies drinking water services to the residences of Huronville Subdivision, conducted an annual management review of the Kincardine Water System and issued an Action Plan.

Whitechurch Pumphouse Repairs

At the April 7, 2021 Committee of the Whole meeting, Township Council requested more information regarding the repairs that we completed at the Whitechurch Pumphouse.

Lakeshore Power Issues

Over the last several years, the pumphouses in Point Clark and Huronville have had intermittent issues with voltage fluctuations affecting the reliability of our pumps. In 2018 and 2019 the power issues were limited to Point Clark, however in February 2021, we experienced voltage sags in Huronville as well.

Discussion:

Monthly Summary

Attached is the summary of water and wastewater operations as prepared by Veolia Water Canada.

Kincardine Water System Annual Management Review and Action Plan

Attached is the Management Review and Action Plan as prepared by the Municipality of Kincardine.

Whitechurch Pumphouse Repairs

In December 2020, the existing flow valve that is used to regulate pressure in the Whitechurch system failed and was in need of replacement. Veolia elected to remove the existing valve and temporarily install a spool (as shown in the attached photo) until the new flow valve arrived. The existing isolation valve was used to manually regulate flows in the meantime. The new valve has now arrived and has been installed (see attached photo).

Lakeshore Power Monitoring

Both Township staff and Veolia have had ongoing conversations with Hydro One regarding these issues, however the information provided to them so far has not been able to demonstrate that this an incoming power issue to their satisfaction.

Over the last two years, Veolia has discovered that the two pumps in Point Clark do not have any issues if they are run individually rather than in tandem. With this new information, Township staff decided to undertake another power study at both sites and operate the pumps in tandem so power fluctuations could be captured and provided to Hydro One.

The results from the Point Clark power study indicate that a significant sag in voltage was experienced during the two-week period, however the report indicated that the source of the issue is most likely the high lift pumps starting and stopping frequently. Fortunately, the variable frequency drives (VFD) that were included in the new Master Control Centre (MCC) will protect the pumps from the voltage fluctuations, but more investigation and monitoring will be necessary in order to fully correct the problem.

The power monitoring at Huronville was completed on April 28th and the report is expected the week of May 3rd.

Financial Impacts:

Water and wastewater operations are ongoing costs included in the budget.

The cost of the two-week power studies was $3,500 plus HST for each location, which will be funded from the 2021 Operating Budget.

Strategic Alignment / Link:

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

Respectfully Submitted By:
John Yungblut, Director of Public Works

Approved By:
Mary Rose Walden, Chief Administrative Officer