



## The Corporation of the Township of Huron-Kinloss

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### Staff Report

**Report Title: Water & Wastewater**

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

**Department: Public Works**

**Date: Feb. 1, 2021**

**Report Number: PW-2021-02-7**

**File Number: E03WAT21,  
E08WEL20, E08LUC19, E03ANN20**

**Attachments: Water & Wastewater Summary, Lucknow Wastewater Annual Report, Ripley Wastewater Annual Report**

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#### **Recommendation:**

That the Township of Huron-Kinloss Committee of the Whole receives for information Report Number PW-2021-02-7, as prepared by John Yungblut, Director of Public Works

#### **Background:**

##### Monthly Summary

Veolia Water Canada has prepared a summary of water and wastewater operations for the past month.

##### Lucknow Standpipe Replacement

Township staff have been working to obtain grant funding for the replacement of the standpipe in the community of Lucknow since 2010. In June 2020, the sixth grant application submitted by the Township was turned down. At that time, the anticipated start date without grant funding was in 2023.

##### Blairs Grove Wells

Township staff having been working toward commissioning the monitoring well (known as BG-W3) at the Blairs Grove well site in Lurgan Beach since August 2020.

##### Annual Wastewater Reports

Veolia Water Canada has prepared the annual Lucknow and Ripley Wastewater Treatment reports for 2020.

## **Discussion:**

### Monthly Summary

The Water & Wastewater Summary prepared by Veolia Water Canada is attached.

### Lucknow Standpipe Replacement

Township staff having been receiving inquiries about potential development in Lucknow over the last few years and the pressure to construct an elevated tank to allow for future growth has been mounting. Although though the Township currently has an uncommitted water reserve of 79 units in Lucknow, the proposed Hellyn Development will not be able to be fully developed without the construction of an elevated tank. The elevation of the northern lots of the development would not receive the minimum pressure of 275 kPa (40 psi) that is required by the Ministry of Environment, Conservation and Parks (MECP).

In 2012, the estimated construction cost of the new elevated tank was \$2,450,000 and the estimated cost has now risen to \$3,550,000, although there is some uncertainty if supply chains will be affected by the pandemic and how the changes in the regulations pertaining to the removal of excess soil from construction sites will complicate the construction process. It should also be noted that the estimate includes approximately \$550,000 in roadwork items which would likely not have been grant funded. The reconstruction of Victoria Street from Campbell Street to Wheeler Street and Wheeler Street from Victoria Street to Stauffer Street will be a necessary component to this project to provide an adequate sized watermain to connect the elevated tank to the distribution system and to provide a storm outlet for the overflow piping.

Township staff are currently looking into the possibility of separating the road reconstruction portion of the project from the elevated tank construction because each component would be completed by different contractors. By awarding two separate contracts, the Township will be able to work with two general contractors rather than one general contractor and a series of sub-contractors. This will reduce mark-up costs and may shorten the construction timeline of the elevated tank.

Separating the projects would also allow for the roadwork to be completed in 2022 without a significant impact on the capital budget. The construction of the elevated tank could then proceed in either the fall of 2022 or in 2023 as currently planned.

Lucknow's households account for approximately 20% of the users in the total water system, so we need to be mindful of the needs of the other systems to ensure the funds are available for all our projects and in the event of an emergency. The potential construction of a new well site to replace Blairs Grove is one example of a significant project that needs to be accounted for in the near future.

## Blairs Grove Wells

The final connections of the underground piping for BG-W3 were completed on Jan. 22<sup>nd</sup> and water samples were taken on Jan. 25<sup>th</sup> and 26<sup>th</sup>. Assuming the results are clear of contamination, BG-W3 will be brought online by Jan. 29<sup>th</sup>. This will allow for time for our Operating Authority to monitor the site before the Point Clark Pumping Station is taken offline for the replacement of the Master Control Centre (MCC) replacement on Feb. 8<sup>th</sup>. Township staff will be notifying residents in the Point Clark, Lurgan Beach and Blairs Grove areas that they may notice an increase in the hardness of their water during the 1-2 week period of time that Point Clark is offline.

## Annual Wastewater Reports

The annual Lucknow and Ripley Wastewater Treatment reports are attached and are available on the municipal website.

### **Financial Impacts:**

To date, nearly \$500,000 has been spent on the replacement of the Lucknow standpipe for the completion of an Environmental Assessment, the acquisition of neighbouring properties and engineering. Approximately \$500,000 could be allocated in the 2022 Capital Budget for the reconstruction of Victoria Street and Wheeler Street. The decision of how to fund the \$3,000,000 construction cost of the elevated tank is still to be determined.

### **Strategic Alignment / Link:**

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

### **Respectfully Submitted By:**

John Yungblut, Director of Public Works

### **Approved By:**

Mary Rose Walden, Chief Administrative Officer