



## The Corporation of the Township of Huron-Kinloss

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### Staff Report

**Report Title: Huronville South Pumphouse Upgrades**

**Prepared By: John Yungblut, Director of Public Works**

**Department: Public Works**

**Date: Apr. 4, 2022**

**Report Number: PW-2022-04-28**

**File Number: E08 HUR 21**

#### **Attachments:**

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#### **Recommendation:**

THAT the Township of Huron-Kinloss Committee of the Whole hereby approves Report Number PW2022-04-28 prepared by John Yungblut, Director of Public Works AND accepts the quotation from Eramosa Engineering Inc. in the amount of \$301,992.87 plus HST for upgrades to the Huronville South Pumphouse AND FURTHER authorizes the appropriate by-laws coming forward.

#### **Background:**

Since 2017, Township staff have been in the process of upgrading all our drinking water pump stations with up-to-date controls and supervisory control and data acquisition (SCADA) software. Eramosa Engineering has designed and implemented the upgrades in all the other sites and Huronville is the last remaining station that requires these improvements.

#### **Discussion:**

After some discussion with Eramosa and our Operating Authority, Veolia Canada, Township staff have determined that the quotation submitted is satisfactory to all parties. There was some increase to the scope of the project as it now includes the replacement of the motor control centre (MCC), programmable logic controller (PLC) and a manual transfer switch

(MTS) that can be connected to a portable generator in the event of power failure. The main reason for the considerably higher cost than expected is the increase in labour and equipment since Point Clark was upgraded in 2020.

Because the final quote submitted was considerably higher than the \$200,000 that was allocated in the capital budget for this project, Township staff evaluated three potential options:

Option 1: defer the project to 2023 and bring forward an updated budget amount during 2023 budget deliberations.

Option 2: install the PLC in 2022 for approximately \$100,000 and defer the remaining work to 2023.

Option 3: proceed with the entire project in 2022 and cover the additional expenditure from reserves.

The reason Option 1 was not selected by Township staff is it does not address our current issues with the outdated controls that require constant maintenance and after hours call outs. These controls are considered obsolete, so parts are not readily available. There is also potential that costs and lead time will continue to rise into 2023.

Option 2 does address our immediate concern regarding the outdated controls, however, by splitting this project into two phases, the overall cost will be higher due to two mobilizations and two commissioning procedures. The Huronville site will also need to be taken offline for both instances. For these reasons, Option 2 was deemed to be less desirable.

Township staff believe Option 3 is the most economical and practical solution. It will allow us to finish the SCADA upgrade process for our water systems and our water reserves are able to fund this over expenditure in 2022.

It should be noted that we are still requesting more information from Hydro One regarding the incoming power concerns. The reason to begin this process now is the MCC and PLC equipment currently have an 18-week lead time, so staff would prefer to order the equipment now and start the work in the fall if we are satisfied that the new equipment won't be damaged due to fluctuation in incoming voltage.

Based on our experience with Point Clark, the new soft start and variable frequency drive pumps will provide layers of protection if we continue to see these voltage fluctuations. We haven't had any issues in Point Clark since that work was completed.

Furthermore, Eramosa has assured Township staff that if any modifications to the design as a result of our conversations with Hydro One are required, they can modify the equipment configuration without impacting the schedule for this project.

### **Financial Impacts:**

The 2022 Capital Budget allocated \$200,000 the upgrades to Huronville South Pumphouse. The Huron-Kinloss Water Reserve Fund is able to fund this over expenditure in 2022.

**Strategic Alignment / Link:**

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

**Respectfully Submitted By:**

John Yungblut, Director of Public Works

**Approved By:**

Mary Rose Walden, Chief Administrative Officer