



TOWNSHIP OF EDWARDSBURGH CARDINAL INFORMATION ITEM

Committee: Committee of the Whole- Administration & Operations

Date: December 2, 2024

Department: Environmental Services

Topic: 2025 Environmental Services Capital Projects

Background:

SCADA Workstation Upgrades

Schneider Electric provides a lifecycle road map for every component of the Supervisory Control and Data Acquisition (SCADA system). The road map will classify if a component or support service is at the preferred stage (readily available), lifetime (nearing obsolete) or obsolete (no longer available). The work stations have moved into the lifetime stage which means support services and replacement parts may become obsolete with little warning. Software within the computers require upgrading. The current SCADA system utilizes one historian at the Cardinal WPCP. The historian software collects real-time operational data including turbidity, chlorine and UV readings which are required to ensure regulatory compliance and for process control /monitoring. This upgrade would also include a redundant historian at the Cardinal Water Plant which adds additional protection in the event of a fiber optic line failure. Schneider Electric has quoted \$60,000 with proposed funding split 50/50 between the Cardinal Water and Wastewater Systems.

Generator System Repairs

Environmental Services was provided notification from GAL Power that fuel systems inspections are required to be completed annually to ensure conformance to CSA B139-19 code. A certified OBT 1 Fuel Technician completed inspections on all diesel operated systems and identified deficiencies that are out of compliance with the CSA B139-19 code. Fuel system codes evolve over time and systems that previously were compliant may no longer adhere to current standards. Estimated repair costs are \$63,000 for the Cardinal WPCP, \$30,000 for the Cardinal WTP and \$40,000 for Spencerville Station # 1. Failing to complete the necessary repairs may impact delivery of diesel fuel which could impact operations during power disruptions.

Dundas Street West Engineering

The Counties have expressed interest in replacing aging stormwater infrastructure between Dundas/Bridge to Dundas/County Road 2 in Cardinal. Similar to the County Road 2 project there may be an opportunity for a collaborative project to replace aging water and sanitary assets at the same time. This project requires engineering in 2025 to ensure project readiness in 2026. We have proposed a budget of \$30,000 for the Cardinal Sanitary and \$30,000 for the Cardinal Water Systems.

Eric Wemerman

Chief Water/Sewer Operator



Director of Operations