

The Corporation of the City of Kawartha Lakes

Council Report

Report Number PUR2019-036

Date: August 13, 2019
Time: 1:00 p.m.
Place: Council Chambers

Ward Community Identifier: Ward 7

Title: **Single Source for Reactivator Thickener Rehabilitation at the Lindsay Water Treatment Plant**

Description: Reactivator Thickener Rehabilitation at the Lindsay Water Treatment Plant

Author and Title: Launa Macey, Supervisor of Financial Services
Tauhid Khan, Asset Management Coordinator

Recommendation(s):

That Report PUR2019-036, **Single Source for Reactivator Thickener Rehabilitation at the Lindsay Water Treatment Plant**, be received;

That Council authorize the single source purchase to Ecodyne Limited for the rehabilitation of the reactivator thickener at the Lindsay Water Treatment Plant at a total cost of \$280,000.00 not including HST;

That subject to receipt of the required documents, the Mayor and Clerk be authorized to execute the agreement to award the contract; and

That upon approval, the Financial Services division be authorized to issue a purchase order.

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

The Lindsay Water Treatment Plant (WTP) thickens water plant solids (aluminum hydroxide residuals) in a large gravity thickener before discharge of thickened solids to the sanitary sewer. The WTP has one gravity thickener with no redundancy. The gravity thickener is a Graver Reactivator up-flow clarifier, manufactured by Ecodyne Limited, and was originally installed in the 1960's. The last major upgrade to the thickener was in the 1990's. The sludge thickener has a 15.2 m diameter sludge scraping mechanism driven by a bridge mounted drive motor. The sludge scraping mechanism bottom bearing has failed and the scraper mechanism is currently scraping the bottom of the concrete tank. An underwater camera inspection was completed in 2018 with Ecodyne's (manufacturer) assistance.

This contract is based on a formal quotation requested from Ecodyne Limited to replace remove, supply and install worn and failed parts on the Reactivator as recommended by Ecodyne Limited. The quotation also includes supply of a DAF system to temporarily thicken the solids while the Reactivator gravity thickener is being repaired. The parts being provided by Ecodyne are proprietary custom manufactured parts. Ecodyne is also responsible for installing all the parts to their specifications to provide a fully functional mechanism within a very limited downtime of one month. Ecodyne expects the rehabilitation of the Reactivator mechanism will increase the life of the gravity thickener by over 10 years.

Rationale:

Staffs recommend that Council authorize the single source purchase to Ecodyne Limited for the rehabilitation of the reactivator thickener at the Lindsay Water Treatment Plant at a total cost of \$280,000.00 not including HST.

Other Alternatives Considered:

No other alternatives are being considered as the City's Purchasing Policy allows for a single source when there is no alternative or substitute good exists that meets the specific of unique technical components or replacement parts. The parts needed for the repair works are proprietary custom manufactured parts by Ecodyne.

Financial/Operation Impacts:

Funds for this project were approved in the 2019 Capital Budget as indicated in the table below:

Capital Project Number	Project Budget	Other Committed Funds	Capital Project balance	Purchase Amount (excl. HST)	Contingency	HST Payable	Total Amount	Project Balance
998190101	\$210,000	\$21,384	\$188,616	\$155,000	\$30,000	\$3,256	\$188,256	\$360
998190401	\$140,000	\$19,162	\$120,838	\$95,000	\$0	\$1,672	\$96,672	\$24,166
Total	\$350,000	\$40,546	\$309,454	\$250,000	\$30,000	\$4,928	\$284,928	\$24,526

Upon completion of the work, any remaining surplus or deficit will be dealt with through the Capital close report presented to Council by the Treasury Department in accordance with the Capital Close Policy.

Relationship of Recommendation(s) To The 2016-2019 Strategic Plan:

This project relates to Goal 3 by ensuring water treatment plant operations continue to operate effectively.

- Goal 3 – A Healthy Environment

Link to Strategic Plan

<http://links/corpdocs/Corporate/2016%20Strategic%20Plan%20-%20City%20of%20Kawartha%20Lakes.pdf?Web=1>

Consultations:

Junior Accountant

Department Head E-Mail: jrojas@kawarthalakes.ca

Department Head: Juan Rojas, Director of Engineering and corporate Assets

Department File: 2019-CQ-Lindsay WTP reactivator