



Meeting Date: August 7, 2024

Prepared By: Eric Joudrey – Manager of Environmental Services

Submitted by: Rob Cascaden – Director of Public Works and Engineering

Report No: PWE 38-2024

Subject: Komoka Blower Upgrades 2024

Recommendation:

THAT Report PWE 38-2024 regarding the Komoka Wastewater Treatment Facility (WWTF) Blower Upgrades award be received;

AND THAT the Komoka WWTF Blower Upgrades be awarded to CIMA+ Company (Eramosa) in the amount of \$144,742 (excluding HST);

AND FURTHER THAT the Mayor and Clerk be authorized to execute the necessary contract documents

Purpose:

To inform and seek Council approval for the consultant award of the Komoka Wastewater Treatment Facility Blower Upgrades as a Single Source award in accordance with Procurement of Goods and Services Policy CPS-07-2021, dated January 1, 2021.

Background:

In 2023, Environmental Services staff awarded CIMA+ an engineering project through a competitive procurement process RFP-PWE-2023-3 Komoka Wastewater Treatment Blower Upgrades. The scope of the project was to review the existing blower operating conditions, capacities and piping configurations. CIMA+ was assigned to develop a design basis for the aeration system both up to the plant rated capacity and the growth projections. New technologies and alternatives for any upgrades were explored and evaluated and the best preferred alternatives and next steps for implementation for future upgrades were identified. The Blower Upgrade project resulted in an in-depth knowledge and understanding of the entire Komoka WWTP blower system, controls and configurations for CIMA+ resulting in a process to commence with upgrades to the existing systems and recommendations.

Analysis:

The existing blowers were installed in the 1990's and are reaching the end of their useful life. The best practice is to install appropriately sized energy efficient blowers with dissolved oxygen control to provide constant air requirements for the treatment process and complete nitrification. Due to the age, configuration, location and style of blower, significant operational improvements were identified during the initial evaluation completed by CIMA+. The detailed engineering and analysis for the entire blower system has been completed by CIMA+. An extension of the previous contract discussed above will retain the in-depth knowledge and understanding of the system allowing for a quick transition to detailed design. Additionally, with the CIMA+ and having this in-depth local knowledge and experience, this will provide benefits and insights that can be incorporated into the Komoka blower upgrades in a cost effective and time efficient way. Therefore, CIMA+ is recommended as a single source award for the detailed design and tender for the blower upgrades project.

Under the Municipality's procurement policy #CPS-07-2021 Part E, staff can single source under certain circumstances, specifically:

- Section 34 (C) There is a need for compatibility with goods and/or services previously acquired or the required goods and/or services will be additional to similar goods and/or services being supplied under an existing contract (i.e., contact extension or renewal)
- Section 34 (f) the extension of an existing or previous contract would prove more cost effective or beneficial for the Municipality.
- Section 34 (i) the acquisition is required or is beneficial in regard to the standardization of goods and services for the Municipality.

Financial Implications:

The Council approved 2024 capital budget for the Komoka WWTP – Aeration, Blower and HVAC upgrades is \$671,352.00 to be funded from the Wastewater Capital Reserve Fund.

The consultant fee for undertaking this work is of \$139,175 and disbursements of \$5,567 for a total task price of \$144,742 + non-refundable HST (for a total of \$147,289.50). The design and tendering work will be completed in 2024 with the purchase of the new blowers to occur in late 2024 or early 2025 and installation and commissioning to occur in 2025. Since this project will be a year long project going into 2025, any remaining 2024 budget funds will be carried forward into 2025 with additional funding requirements addressed through the 2025 budget process if necessary.

Strategic Plan:

This matter aligns with following strategic priorities:

- Sustainable Infrastructure and Services
- Responsive Municipal Government

This project will ensure that the operation of the Komoka WWTP remains efficient for both the short and long term.

Attachments:

N/A