

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P.Eng., MBA, FEC
Deputy City Manager, Environment and Infrastructure

Subject: Oxford Wastewater Treatment Plant Membrane Replacement
Consultant Award

Date: October 24, 2023

Recommendation

That, on the recommendation of the Deputy City Manager, Environment and Infrastructure, the following actions **BE TAKEN** with respect to the award of consulting services for the completion of the Preliminary & Detailed Design of the Oxford WWTP Membrane Equipment Replacement:

- a) CIMA Canada Inc. **BE APPOINTED** Design Consulting Engineers in the amount of \$325,000.00, including contingency, excluding HST, in accordance with Section 15.2 (d) of the City of London's Procurement of Goods and Services Policy;
- b) the financing for the project **BE APPROVED** in accordance with the "Sources of Financing Report" attached hereto as Appendix 'A';
- c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract; and,
- e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

Executive Summary

This report recommends that CIMA Canada Inc. be appointed to carry out design consulting services for the replacement of the Ultrafiltration (UF) membrane filtration equipment at the Oxford Wastewater Treatment Plant.

The current membrane equipment at the Oxford WWTP was installed in 2008 and is at the end of its lifecycle. The new membrane equipment is expected to have a larger capacity, allowing it to treat more wastewater than the existing system and restoring the plant's full treatment capacity.

The design consultant recommended for award in this report will provide preliminary and detailed design services to replace the end-of-life filtration system but will also consider including the ability for future expansion of the system to meet the needs of the growing population in London.

Linkage to the Corporate Strategic Plan

This project supports the 2023-2027 Strategic Plan through Climate Action and Sustainable Growth:

- Waterways, wetlands, watersheds, and natural areas are protected and enhanced.
- London is more resilient and better prepared for the impacts of a changing climate.
- Infrastructure is built, maintained, and secured to support future growth and protect the environment.

Analysis

1.0 Background Information

1.1 Previous Reports Related to this Matter

None.

2.0 Discussion and Considerations

2.1 Project Description

The Oxford Wastewater Treatment Plant, located at 1450 Oxford Street W provides wastewater treatment for the West end of the City of London. It services neighbourhoods such as River Bend, Byron, Oakridge, Hyde Park, Fox Hollow, Talbot, and more.

The City is undertaking the selection of a Consultant to provide engineering services for the preliminary and detailed design of a replacement Ultrafiltration (UF) Membrane Equipment at the Oxford Wastewater Treatment Plant (WWTP). The current membrane equipment at the Oxford WWTP was installed in 2008 and is approaching the end of its lifecycle. Equipment being replaced includes the membranes, cassettes (brackets that hold the membranes in place) and permeate pumps (pumps that pull wastewater through the filter membranes).

The Oxford WWTP is comprised of 2 sections, Sections 1 and 2. The UF System is located in Section 2 of the plant. Section 1 has been offline since 2008 and there are no plans to restore it back to operation in its current configuration. Instead, Section 2 will be upgraded to account for the lost capacity of 3.63 Million Litres per Day (MLD) from Section 1 plus allowances for future plant capacity expansion. Other plant upgrades may be required in addition to membrane capacity to achieve higher capacity. The original UF system rated design capacity is 13.62 MLD (Annual Average Flow), and 34.1 MLD (Peak Hour Flow). The intended new design capacity will be 17.25 MLD (Annual Average Flow), and 41 MLD (Peak Hour Flow).

2.2 Procurement Process

The procurement process was undertaken in accordance with the City of London's Procurement of Goods and Services Policy, Section 15.2 (d). Facilitated by the Purchasing & Supply Division, a Request for Proposal invited consulting engineering firms to submit proposals for this assignment. Proposals were submitted from the following consultants:

- Associated Engineering (Ont.) Ltd.
- CIMA Canada Inc.
- R.V. Anderson Associates Limited
- Stantec Consulting Ltd.

Each proposal was reviewed and scored by a panel composed of Environment & Infrastructure staff. CIMA Canada Inc.'s proposal received the highest weighted score among the proposals received. The total fee estimate was \$325,000.00 including a staff-applied contingency, excluding HST, to complete the assignment.

2.3 Schedule and Budget Implications

The design phase of this assignment is scheduled to be complete and ready for construction tendering by the end of 2024 and construction is expected to be complete by the end of 2025.

Funds are available in the Wastewater Treatment Operations Division's capital budget to support this assignment as identified in the Sources of Financing, attached as Appendix 'A'.

Conclusion

CIMA Canada Inc. was found to provide the best value to the City through the RFP selection process for consulting services for the Oxford WWTP Membrane Equipment Replacement project. The CIMA Canada Inc. team has a demonstrated ability to complete these projects on time and within budget and has demonstrated a solid understanding of this project in their proposal. It is recommended that CIMA Canada Inc. be awarded this assignment.

Prepared by: Kirby Oudekerk, MPA, P.Eng.
Division Manager, Wastewater Treatment Operations

Submitted by: Ashley Rammeloo, MMSc., P. Eng.
Director, Water, Wastewater and Stormwater

Recommended by: Kelly Scherr, P. Eng., MBA, FEC
Deputy City Manager, Environment & Infrastructure

Appendix 'A' Source of Financing

cc: Steve Mollon, Senior Manager, Procurement and Supply
Jason Davies, Manager III, Financial Planning and Policy
Zeina Nsair, Financial Business Administrator, Finance and Corporate Services

Appendix "A"

#23205

October 24, 2023

(Appoint Consulting Engineer)

Chair and Members

Civic Works Committee

RE: Oxford Wastewater Treatment Plant Membrane Replacement Consultant Award

(Subledger FS23OX01)

Capital Project ES508423 - WWTP Optimization & Renewal

CIMA Canada Inc. - \$325,000.00 (excluding HST)

Finance Supports Report on the Sources of Financing:

Finance Supports confirms that the cost of this project can be accommodated within the financing available for it in the Capital Budget and that, subject to the approval of the recommendation of the Deputy City Manager, Environment and Infrastructure.

The detailed source of financing is:

Estimated Expenditures	Approved Budget	Committed To This Date	This Submission	Balance for Future Work
Engineering	394,687	63,967	330,720	0
Construction	1,470,668	1,038,142	0	432,526
City Related Expenses	37,449	37,449	0	0
Vehicles and Equipment	1,088,016	1,088,016	0	0
Contingency	15,657	0	0	15,657
Total Expenditures	\$3,006,477	\$2,227,574	\$330,720	\$448,183

Sources of Financing

Drawdown from Sewage Works Renewal Reserve Fund	3,006,477	2,227,574	330,720	448,183
Total Financing	\$3,006,477	\$2,227,574	\$330,720	\$448,183

Financial Note:

Contract Price	\$325,000
Add: HST @13%	42,250
Total Contract Price Including Taxes	367,250
Less: HST Rebate	-36,530
Net Contract Price	\$330,720

Jason Davies
Manager of Financial Planning & Policy

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