COUNCIL REPORT

M&C No.	2019-55
Report Date	March 18, 2019
Meeting Date	March 25, 2019
Service Area	Saint John Water

His Worship Mayor Don Darling and Members of Common Council

SUBJECT: Engineering Services – Musquash Water Pumping Station Upgrades

OPEN OR CLOSED SESSION

This matter is to be discussed in open session of Common Council.

AUTHORIZATION

Primary Author	Commissioner/Dept. Head	City Manager
Susan Steven-Power	***Brent McGovern/Brian Keenan***	***John Collin***

RECOMMENDATION

Notwithstanding the City's Procurement Policy for Engagement of Professional Services, it is recommended that Common Council authorize staff to conduct direct negotiations with CBCL Limited to carry out engineering services for the Musquash Water Pumping Station Upgrades project.

EXECUTIVE SUMMARY

The purpose of this report is to request that Common Council authorize staff to conduct direct negotiations for the engagement of CBCL Limited to carry out engineering design services for the Musquash Water Pumping Station Upgrades project.

PREVIOUS RESOLUTION

July 30, 2018; 2019 Water & Sewerage Utility Fund Capital Program Approved.

STRATEGIC ALIGNMENT

This report aligns with Council's Priority for Valued Service Delivery, specifically as it relates to investing in sustainable City services and municipal infrastructure.

REPORT

BACKGROUND

The Musquash Water Pumping Station is a critical piece of infrastructure located in the East Musquash Watershed. It has existed in its current location on the shoreline of the East Branch Musquash Reservoir since the early 1970s and the site currently floods on a regular basis. The station is used to supplement the available water in Spruce Lake. Spruce Lake is the only water source for West Side industrial users and also provides a backup drinking water supply for West Side residential customers.

In 2013 the City commissioned CBCL Limited to complete a facilty assessment and preliminary design for upgrades at the Musquash Water Pumping Station. As a result of the facility assessment, one of the key recommendations was that a new electrical substation be constructed and that it be moved to a higher elevation in order to reduce the risk of flooding. The detailed design and construction management of the new electrical substation was awarded to CBCL Limited. This project is currently under construction, with an anticipated completion date of June 2019.

Another key recommendation from the facility assessment report was to upgrade the Musquash Water Pumping Station itself. As the building envelope was in relatively good shape, the recommendation was made to construct a new concrete floor inside the building higher than the existing floor which would essentially raise the elevation of the pumping station while still using the existing building and pump intakes. The building envelope would be modified and the existing piping and equipment would be upgraded and installed at the higher floor elevation. This would reduce the risk and impacts of the seasonal flooding from future flood levels.

ANALYSIS

Typically, the Request for Proposal method requires a period of 7 to 8 weeks for each substantial project. Direct Engagement provides the City the opportunity to identify consulting firms best equipped to complete the designs in a timely manner and significantly reduces the administrative time which is inherent with a traditional call for proposals. The direct engagement process also affords the City staff to fine-tune the details of the engagement in order to achieve the best value for money for the City.

CBCL Limited has an extensive knowledge and understanding of the facility due to their previous assessment of the Musquash Water Pumping Station and Electrical Substation. They have also completed a preliminary design of the Musquash Water Pumping Station Upgrades. The detailed design work for this project is an extension of the work previously completed by CBCL Limited to date

on this project, therefore, it would be most efficient and effective for CBCL Limited to continue with this work. Staff has considered work previously completed by CBCL Limited and is confident in their ability to successfully carry out the work on this critical and complex project.

Provided an acceptable agreement can be reached with CBCL Limited, a subsequent report will be submitted to Council identifying the negotiated fee for the engineering services required and requesting Council's approval to engage CBCL Limited.

The negotiations would proceed as follows:

A detailed scope of work would be developed by staff for this project and, based on this scope of work, CBCL Limited would be required to submit their proposed project team, work plan, schedule and a fee to complete all the work identified. Staff would then review their submission and evaluate the proposed fee for the project. Staff would then seek to settle on an acceptable fee with the consultant for submission to Council.

Should staff be unable to reach an acceptable agreement with CBCL Limited, staff would report back to Council and seek approval to negotiate with an alternative consultant for the project or to implement a public call for proposals.

SERVICE AND FINANCIAL OUTCOMES

An amount of $450,000 is included in the 2019 Water & Sewerage Utility Fund Capital Program for floodplain mapping and engineering design services for the Musquash Water Pumping Station Upgrades project.

Partial funding for this project is proposed to come from the National Disaster Mitigation Program (NDMP). This funding program supports projects that will lessen and/or eliminate the effects of rising flood levels through informed mitigation efforts. It is important that we are prepared to commence the project in early April 2019 utilizing the funds from the Utility Share of the 2019 Capital Program as the National Disaster Mitigation Program Contribution Agreement stipulates that in order for costs to be eligible under the NDMP, the costs must be incurred between April 1, 2019 and March 31, 2020 meaning that the design work must be completed before March 31, 2020 which will be challenging for this complex project should there be any delays in commencing the engineering design work.

Engineering fees to cover the costs of design generally do not exceed 10-15% of the total overall project cost, depending on the nature of the project and the engineering services required. The costs incurred by the Consultant would be paid in accordance with the terms of the Request for Proposal at the rates submitted and accepted in the Consultant's proposal not to exceed the

Recommended Minimum Hourly Rates as contained in the Association of Consulting Engineering Companies – New Brunswick fee guidelines.

INPUT FROM OTHER SERVICE AREAS AND STAKEHOLDERS

The engagement process and recommendation has been reviewed with Materials Management and the City Solicitor.

ATTACHMENTS

N/a