

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON NOVEMBER 17, 2020
FROM:	KELLY SCHERR, P. ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	AWARD OF CONSULTING ENGINEERING SERVICES FOR DETAILED DESIGN OF THE SPRINGBANK RESERVOIR 2 REPLACEMENT AND EXPANSION RFP 20-43

RECOMMENDATION

That on the recommendation of the Managing Director, Environmental and Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the award of consulting engineering services for RFP 20-43 Detailed Design of the Springbank Reservoir 2 Replacement and Expansion (EW3617):

- (a) The proposal submitted by Aecom Canada Ltd. 410-250 York Street, Citi Plaza, London, ON, N6A 6K2, in the amount of \$1,558,042, including \$141,640 contingency, excluding H.S.T., **BE AWARDED** in accordance with Section 15.2 (e) of the City of London's Procurement of Goods and Services Policy;
- (b) The financing for this project **BE APPROVED** as set out in 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; and
- (d) The Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to effect these recommendations.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
--

- Civic Works Committee – June 18, 2019 – Long Term Water Storage Options Municipal Class Assessment: Notice of Completion
- Civic Works Committee - April 17, 2018 - Appointment of Consulting Engineering Services for Long Term Water Storage Options - Environmental Assessment
- Civic Works Committee - April 2, 2012 - Contract Award: Springbank Reservoir 2 Rehabilitation Project No. EW3617 Tender No. 12-52
- Environment and Transportation Committee - October 27, 2008 - Water System Risk Management Continuous Improvement Update
- Environment and Transportation Committee - April 23, 2007 - Water System Risk Management Exercise and Evaluation

2019-2023 STRATEGIC PLAN

This report supports the Strategic Plan in the following areas:

- Building a Sustainable City:

Infrastructure is built, maintained and operated to meet the long-term needs of our community;

- Building a Sustainable City: Improve London's resiliency to respond to potential future challenges; Build infrastructure to support future development and protect the environment; Maintain or increase current levels of service; manage the infrastructure gap for all assets.
- Leading in Public Service:
 - Trusted, open, and accountable in service of our community;
 - Exceptional and valued customer service; and
 - Leader in public service as an employer, a steward of public funds, and an innovator of service.

BACKGROUND

Purpose

This report recommends that Aecom Canada Ltd. be appointed as the consultant to undertake the detailed design of the Springbank Reservoir 2 Replacement and Expansion (EW3617).

Context

The City of London has a robust water supply system, being fed from two Great Lakes, and having considerable stored water available in and around London. Water systems are required to have water storage to balance maximum day demands, fire needs and emergency storage. The City of London's storage is required to meet these needs, and also to provide back-up supply in the event the Lake Huron pipeline were to fail, as occurred in 1983, 1988, and 2012.

This assignment is to design a replacement for Springbank Reservoir 2 in accordance with the findings of the Long Term Water Storage EA findings. Construction for this new 100ML reservoir is anticipated to begin in early 2023. The 2020-2023 Multi-year budget includes funding for construction of the reservoir in the amount of \$37.6M.

DISCUSSION

Springbank Water Reservoirs

The City of London Water Supply System includes several water storage reservoirs used for balancing flows for domestic drinking water, emergency firefighting needs and to provide storage in the event of an interruption in the water supply from either of the Lake Huron Area Water Supply System or the Elgin Area Water Supply System. Three of these reservoirs are located within the Springbank complex.

One of the City's existing reservoirs, Springbank Reservoir 2 was constructed in the 1920's and is at the end of its useful life. Unlike the other City reservoirs which have fixed concrete roofs, Springbank Reservoir 2 has a flexible floating cover. The risk of breaching this cover has been identified as one of the highest risks of biological contamination to the City of London water system. An Environmental Assessment has been completed in order to consider how the reservoir will be reconstructed or replaced. This environmental assessment has also analyzed the long-term storage needs city-wide considering the current need for emergency storage and the servicing needs of future urban growth. This assessment recommended that in conjunction with the replacement of Springbank 2, its capacity be increased from the existing 45ML to 100ML. This increase is expected to satisfy the City's water storage needs for at least the next 20 years.

Appendix B, Location Plan for Springbank Reservoir 2 is attached for reference.

This project is being coordinated with the Repair and Membrane Replacement Projects for Springbank Reservoirs 1 and 3 so that no more than one Reservoir is out of service at a time.

A task for the design consultant will be to explore ways to minimize disruption to the surrounding park as well as to the City's water supply. The consultant will also consider any ongoing or completed environmental assessments and master plans in the area.

Procurement Process

The engineering consultant selection procedure for this project utilized a grouped consultant selection process developed in partnership with the Purchasing and Supply Division, subsequently approved by Council June 12, 2018. This two-stage grouped procurement process is in accordance with Section 15.2(e) of the Procurement of Goods and Services Policy. This project is being considered with other large scale water facilities projects as the group.

The first stage of the process is an open, publicly advertised Request for Qualifications (RFQ). A Statement of Qualifications (SOQ) submission was received from a province-wide group of seven prospective consultants. The Statement of Qualifications were evaluated by Environmental and Engineering Services resulting in a short-list group of five engineering consulting firms. This short list of five firms will be retained for a two-year period (through this procurement period) at which time the Request for Qualifications process will be initiated again.

The second stage of the process is a competitive Request for Proposal exercise. Consultants from the short listed group are invited to submit a formal proposal to undertake a specific engineering assignment. All five consultants were invited to submit a proposal for this assignment.

The City's evaluation team determined that the proposal provided by Aecom Canada Ltd (Aecom) provided the best value. Aecom has extensive experience with this type of work. Aecom's fees were within the budget for the project. Overall, their proposal met all of the key project requirements and their staff are qualified to undertake the required engineering services.

The evaluation criteria that was used to assess and score all Proposal Submissions was as follows:

- Methodology, Approach, Understanding of Project Goals and Objectives, and Recommendations / Innovative Ideas;
- Experience on Directly Related Projects;
- Project Team Members, Capacity and Qualifications;
- City of London Consultant Performance Rating Score; and
- Cost and Fees.

Scope of Work

The scope of the project is to provide high quality Consulting Engineering Services for undertaking the detailed design of the Springbank Reservoir 2 Replacement and Enlargement.

This project will:

- Undertake a final conceptual design, preliminary design and final detailed design including:

- Prepare a conceptual site layout the proposed Springbank Reservoir 2 and other site works including bypass piping;
- Undertake a Value Engineering Exercise intended to review alternative approaches and make the best design decisions for the project in terms of construction costs, maintenance and operational needs;
- Identifying access and staging areas and traffic management required;
- Undertake Environmental Surveys for Species at Risk and Species of Special Concern identified for further review during the EIS for the Long Term Water Storage EA, and development of detailed management plans to provide protection and mitigation measures for surrounding Environmentally Sensitive Areas;
- Prepare detailed design, drawings and specifications for the abandonment of the existing Springbank 2 Reservoir as well as the new Springbank 2 Reservoir;
- Tendering of the detailed design.

For this particular type of work, there is uncertainty as to the duration of construction prior to the start of detailed design. Due to this, construction administration fees are not included in this award and will be awarded at a future Civic Works Committee meeting.

Project Costs

Aecom's fee submission of \$1,558,042, including \$141,640 contingency, excluding H.S.T., is within the budget allocation for this work. The project's evaluation team reviewed Aecom's proposal and found it met all of the key project requirements.

CONCLUSIONS

The proposed consulting team, Aecom Canada Ltd., has extensive experience with similar work and is well qualified to undertake the required engineering services. Based on the review by the evaluation team, it is determined that retaining Aecom is in the best financial and technical interests of the City. It is recommended that Aecom Canada Ltd. be awarded this consulting assignment to undertake all tasks related to Detailed Design of the Springbank Reservoir 2 Replacement and Expansion.

PREPARED BY:	REVIEWED & CONCURRED BY:
AARON ROZENTALS, P. ENG. DIVISION MANAGER, WATER ENGINEERING	SCOTT MATHERS, MPA, P. ENG. DIRECTOR, WATER AND WASTEWATER
RECOMMENDED BY:	
KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER	

November 6, 2020

Attach: Appendix "A" – Sources of Financing
Appendix "B" – Location Plan for Springbank Reservoir 2

CC. Patricia Lupton, Environmental Services Engineer, Water Engineering
John Simon, Manager, Water Operations
Scott Koshowski – Environmental Services Engineer, Water Operations
John Freeman – Manager, Purchasing & Supply
Chris Ginty – Procurement Officer, Purchasing & Supply
Gary McDonald – Budget Analyst, Finance & Corporate Services
John Haasen, PMP, CET, Senior Vice President, Aecom Canada Ltd.
Alan Dunbar - Manager, Financial Planning & Policy
Jason Davies - Manager, Financial Planning & Policy

APPENDIX 'A'

#20158

Chair and Members
Civic Works Committee

November 17, 2020
(Appoint Consulting Engineer)

**RE: RFP 20-43 - Detailed Design of the Springbank Reservoir 2 Replacement and Expansion
(Subledger FW200002)
Capital Project EW3617 - Springbank #2 Water Reservoir Replacement & Expansion
Aecom Canada Ltd. - \$1,558,042 (excluding H.S.T.)**

FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:

Finance & Corporate Services confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental & Engineering Services & City Engineer, the detailed source of financing for this project is:

<u>SUMMARY OF ESTIMATED EXPENDITURES</u>	Approved Budget	Committed to Date	This Submission	Balance for Future Work
Engineering	\$2,024,182	\$438,718	\$1,585,464	\$0
Construction	2,923,395	720,008		2,203,387
City Related Expenses	5,558	5,558		0
NET ESTIMATED EXPENDITURES	<u>\$4,953,135</u>	<u>\$1,164,284</u>	<u>\$1,585,464</u>	<u>\$2,203,387</u>

SUMMARY OF FINANCING:

Capital Water Rates	\$724,135	\$724,135		\$0
Drawdown from Capital Water Reserve Fund	4,229,000	440,149	1,585,464	2,203,387
TOTAL FINANCING	<u>\$4,953,135</u>	<u>\$1,164,284</u>	<u>\$1,585,464</u>	<u>\$2,203,387</u>

1) **Financial Note:**

Contract Price	\$1,558,042
Add: HST @13%	202,545
Total Contract Price Including Taxes	1,760,587
Less: HST Rebate	175,123
Net Contract Price	<u>\$1,585,464</u>

JG

Jason Davies
Manager of Financial Planning & Policy



RFP20-43 Springbank Reservoir 2 Replacement and Expansion

Location Plan Springbank Reservoir #2

