

## 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:** Appointment of Consulting Engineer for the Mud Creek  
Phase 2 Detailed Design

**Date:** June 22, 2021

## Recommendation

That on the recommendation of Deputy City Manager, Environment and Infrastructure, the following actions **BE TAKEN** with respect to the appointment of consulting services for the Mud Creek Phase 2 project:

- (a) AECOM Canada Ltd **BE APPOINTED** consulting engineers to complete the detailed design for the Mud Creek Phase 2 project in accordance with the estimate, on file, at an upset amount of \$564,198.00 (including contingency), excluding HST, 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;
- (d) the approval 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

### Purpose

This report recommends the appointment of AECOM Canada Ltd to complete the detailed design for the Mud Creek Phase 2 project. A project location map is provided in Appendix 'B'. This project is required to allow approximately 54 hectares of prime infill and intensification lands to develop and to reduce existing flooding within the Oxford Street and Proudfoot Lane areas.

### Context

The Mud Creek subwatershed is a highly urbanized with a history of frequent flooding along Oxford Street and Proudfoot Lane and adjacent private properties. The areas north of the Canadian National Railway embankment provide infill and intensification opportunities. The London Plan identifies portions of the area under the Transit Corridor and Neighbourhoods place types.

In 2021, the City completed Phase 1A of the overall project consisting of new twin tunnels under the Canadian National Railway embankment. Phase 1B is anticipated to be constructed in 2021 and consists of constructing a deeper and wider natural channel corridor for the downstream channel section between the Canadian National Railway embankment and the existing culvert at Wonderland Road. This Phase 2 assignment involves the detailed design to expand the capacity of the main channel from the CN Rail culvert crossing to Oxford Street and alleviate the frequent flooding of Oxford Street.

## Linkage to the Corporate Strategic Plan

This recommendation supports the following 2019-2023 Strategic Plan areas of focus:

- Building a Sustainable City:
  - London’s infrastructure is built, maintained, and operated to meet the long-term needs of our community by replacing aged and failing infrastructure with new materials and sizing new infrastructure to accommodate future development;
  - Londoners can move around the city safely and easily in a manner that meets their needs by incorporating cycling infrastructure and safety enhancements; and
  - London has a strong and healthy environment by incorporating stormwater management quantity and quantity controls to protect downstream waterways.

## Analysis

### 1.0 Background Information

#### 1.1 Previous Reports Related to this Matter

- Civic Works Committee – August 25, 2014 – Mud Creek Municipal Class Environmental Assessment;
- Civic Works Committee – November 3, 2015 – Appointment of Consulting Engineers for Design and Construction of Stormwater Management Facilities;
- Civic Works Committee – October 4, 2016 – Mud Creek Municipal Class Environmental Assessment Study – Status Update and Scope Change;
- Civic Works Committee – June 7, 2017 – Mud Creek Subwatershed Schedule B Municipal Class Environmental Assessment Notice of Completion;
- Civic Works Committee – January 9, 2018 - Appointment of Consulting Engineer Mud Creek Flood Reduction and Rehabilitation Phase 1 Detailed Design;
- Civic Works Committee – August 11, 2020 – Mud Creek Remediation – Phase 1A Tunnel Contract Award and Consultant Contract Increase; and
- Civic Works Committee – February 9, 2021 – Mud Creek Phase 1B Channel Reconstruction: Consultant Appointment for Tendering and Construction Administration.

### 2.0 Discussion and Considerations

#### 2.1 Work Description

This assignment includes the detailed design of the remaining City-led infrastructure components for the Mud Creek works as identified within the completed environmental assessment. The City intends to tender and construct all remaining City led work, which includes approximately 800 linear metres of natural channel design from the Canadian National Rail embankment, northerly to Oxford Street and the construction of a new Oxford Street culvert.

The work to be completed through this Phase 2 channel section provides the opportunity for the creation of a high-quality naturalized area and public corridor. As part of the project, a multiuse recreation trail will surround the channel section and provide the ability to view the naturalized channel corridor. This project also provides the opportunity to create a space that supports ecological functions and features, such as terrestrial, aquatic, and wetland habitat improvements.

The new Oxford Street culvert will be located easterly of the existing Oxford Creek culvert as identified in the completed environmental assessment. The assignment includes the complete design of this structure and associated traffic management and staging plans. Full closure of Oxford Street is not anticipated for construction of the new culvert; however, it is anticipated that there will be temporary lane reductions and diversions.

## **2.2 Public Communications**

The Mud Creek project is of high interest to local residents. This assignment will utilize a similar public communications approach to the City's Infrastructure Renewal Program and will include project letters that will be sent to area residents and electronic presentations that will be prepared and posted on the City's website. This communication material will inform residents about the project prior to construction and will include project contact information. The communication material will include graphics depicting what the ultimate restored corridor will look like, as well as a summary of the necessary work (e.g. tree removals, channel excavation, etc.) that residents should expect to see.

## **2.2 Upcoming Phases**

The 2021 Development Charges schedule includes a Phase 3 natural channel corridor extension from Oxford Street northerly to Canadian Pacific Rail. This project is currently scheduled to be completed by private developers in conjunction with the servicing of the proposed subdivision and associated development applications.

Following completion of Phase 3, the Mud Creek will be a continuous channel corridor that is approximately 2.3 kilometres in length. From the Canadian Pacific Rail to the Canadian National Rail (approximately 2 kilometers) will include a paved multiuse pathway for recreational purposes. The pathway alongside the natural channel corridor will provide an active recreational space for the existing residents of the Proudfoot Lane apartment buildings and future development within the subwatershed, thus providing the opportunity for physical and mental health benefits for the local community.

## **3.0 Financial Impact/Considerations**

### **3.1 Procurement Process**

The engineering consultant selection procedure for the assignment utilized a two-stage procurement process. This two-stage grouped procurement is in accordance with Section 15.2(e) of the Procurement of Goods and Services Policy.

The first stage of the process is an open, publicly advertised Request for Qualifications. Statement of Qualifications submissions were received from a province wide group of prospective consultants. The Statement of Qualifications were evaluated by the Engineering and Infrastructure Service Area resulting in a short-list three engineering consulting firms.

The second stage of the process is a competitive Request for Proposal. Consultants from the short-listed group are invited to submit a formal proposal to undertake the assignment. An evaluation of the proposals was undertaken by the Engineering and Infrastructure Service Area, including both a technical and cost component. Engineering consultants are recommended based on their knowledge and understanding of project goals, their experience on directly related projects, their project team members, capacity and qualifications, and overall project fee.

The construction administration fee has not been included as part of the current assignment as it cannot be reasonably estimated prior to the start of the design.

## **Conclusion**

AECOM Canada Ltd was found to provide the best value to the City through the two phase RFQUAL and RFP selection process for consulting services for the detailed design of Mud Creek Phase 2. The AECOM team has a demonstrated ability to complete the detailed design tasks required for this project, as well as successful consultation and engagement, and demonstrated a solid understanding of this project in their proposal. It is recommended that AECOM Canada Ltd be awarded this assignment.

**Prepared by:**                    **Shawna Chambers, DPA, P.Eng., Division Manager,  
Stormwater Engineering**

**Submitted by:**                **Scott Mathers, MPA, P.Eng., Director, Water,  
Wastewater, and Stormwater**

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

**CC: D. Gough, P. Titus, S. Mollon, J. Haasen - AECOM**

Appendix 'A' – Sources of Financing

Appendix 'B' – Location Map

**Appendix "A"**

**#21087**

June 22, 2021

(Appoint Consulting Engineer)

Chair and Members  
Civic Works Committee

RE: Mud Creek Phase 2 Detailed Design  
(Subledger SWM21003)  
Capital Project ES2681-2 - Mud Creek East Br. Phase 2  
AECOM Canada Ltd. - \$564,198.00 (excluding HST)

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**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 Deputy City Manager, Environment and Infrastructure, the detailed source of financing for this project is:

<b>Estimated Expenditures</b>	<b>Approved Budget</b>	<b>Committed To This Date</b>	<b>This Submission</b>	<b>Balance for Future Work</b>
Engineering	831,933	257,805	574,128	0
Construction	6,337,667	2,042,523	0	4,295,144
<b>Total Expenditures</b>	<b>\$7,169,600</b>	<b>\$2,300,328</b>	<b>\$574,128</b>	<b>\$4,295,144</b>

**Sources of Financing**

Drawdown from Sewage Works Reserve Fund	4,524,017	1,451,507	362,275	2,710,235
Drawdown from City Services - Stormwater Reserve Fund (Development Charges) (Note: 1)	2,645,583	848,821	211,853	1,584,909
<b>Total Financing</b>	<b>\$7,169,600</b>	<b>\$2,300,328</b>	<b>\$574,128</b>	<b>\$4,295,144</b>

**Financial Note:**

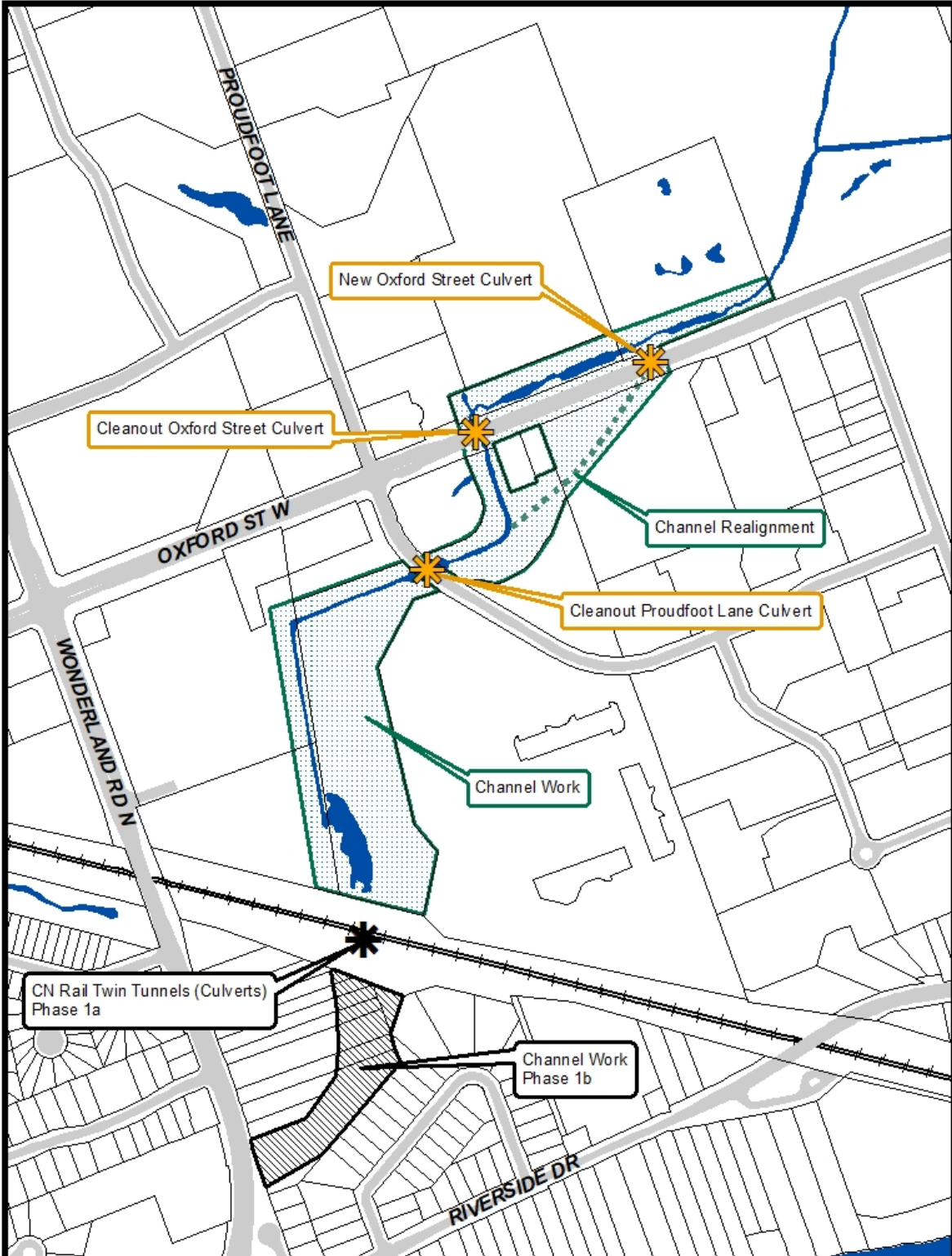
Contract Price	\$564,198
Add: HST @13%	73,346
Total Contract Price Including Taxes	637,544
Less: HST Rebate	-63,416
Net Contract Price	\$574,128

**Note 1:** Development charges have been utilized in accordance with the underlying legislation and the approved 2019 Development Charges Background Study and the 2021 Development Charges Background Study Update.

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Jason Davies  
Manager of Financial Planning & Policy

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**APPENDIX 'B' - LOCATION MAP**

Mud Creek

1:5,500

0 62.5 125 250 Meters

**Legend**

	Culvert Works		Land Parcel
	Mud Creek Project General Limits - Phase 1a & 1b		Road
	Mud Creek Project General Limits - Phase 2		Railroad
			Water Body

Map Produced by the Stormwater Engineering Division

300 Dufferin Avenue  
PO Box 5035  
London, Ontario  
N6A 4L9  
[www.London.ca](http://www.London.ca)