

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON SEPTEMBER 22, 2020
FROM:	KELLY SCHERR, P. ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	APPOINTMENT OF CONSULTING ENGINEER FOR DETAILED DESIGN AND CONTRACT ADMINISTRATION SERVICES: DINGMAN CREEK STAGE 1 LANDS (TRIBUTARY 12, MUNICIPAL CHANNEL IMPROVEMENTS)

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 assignment of consulting services for the detailed design and construction administration of the Dingman Creek Stage 1 Lands (Tributary 12, Channel Improvements):

- (a) Ecosystem Recovery Limited, **BE AUTHORIZED** to carry out detailed design and contract administration for the said project in accordance with the estimate, on file, at an upset amount of \$222,241.35, 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 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.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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Civic Works Committee – February 4, 2020 – Agenda Item # 2.6 – Dingman Creek Subwatershed: Stormwater Servicing Strategy for Stage 1 Lands Municipal Class Environmental Assessment: Notice of Completion

2019-2023 STRATEGIC PLAN

This report supports the Strategic Plan in the following areas:

- 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.
 - Protect and enhance waterways, wetlands, and natural areas.

BACKGROUND

Purpose

This report seeks approval to recommend a qualified engineering consultant to complete the assessment, detailed design and contract administration for Tributary 12 channel improvements within municipally owned lands to reduce the risk of flooding and facilitate neighbourhood development in southwest London.

Context

The “Dingman Creek Subwatershed: Stormwater Servicing Strategy for Stage 1 Lands – Schedule B Municipal Class Environmental Assessment” (Dingman Creek EA) (Aquafor Beech, 2020) identified Tributary 12 to be susceptible to flooding under existing and future development conditions. This engineering assignment is related to the first municipal component of the project with a focus on reducing the risk of flooding within the existing subdivision generally located west of Colonel Talbot Road and south of Clayton Walk. This project is being completed to alleviate existing flooding concerns and must be constructed prior to construction of the “complete corridor” to allow for approximately 92 hectares of neighbourhood development to proceed upstream.

DISCUSSION

Background

Tributary 12 is a watercourse within the Dingman Creek subwatershed, generally located south of the intersection of Colonel Talbot Road and Pack Road. A project location map is included for reference in Appendix ‘B’.

The Tributary 12 project was recommended by the Dingman Creek EA to alleviate flooding through implementing objectives of a “complete corridor approach” by promoting the movement of stormwater, wildlife, and people within the community. The “complete corridor” supports stormwater management with additional opportunities for aquatic/terrestrial habitat, pedestrian linkages, and Low Impact Development on the table lands. Please refer to the Dingman Creek EA for details: <https://getinvolved.london.ca/dingmancreek>.

The Tributary 12 project is comprised of two components: (1) downstream capacity improvements to the channel through the municipally owned lands west of Colonel Talbot Road extending to Dingman Creek and (2) construction of a “complete corridor” through the proposed development lands from Pack Road to Colonel Talbot Road. Both of these projects are recommended by the Dingman Creek EA to replace the previously proposed wet ponds (North Lambeth P7 and P8) and support a holistic and sustainable approach to stormwater management.

Work Description

The Tributary 12 municipal channel improvements include assessment of current conditions, design of remediation works to address potential flooding with consideration for opportunities to enhance the natural environment, as well as pathway connections through the open space lands. This may include a combination of replacement of existing culverts to increase hydraulic capacity, regrading of the channel profile, or expansion of the channel cross section to increase floodplain conveyance or capacity. As such, the City’s consultant will be working with the Upper Thames River Conservation Authority (UTRCA) to confirm the Regulatory Floodplain through this area.

This design and contract administration assignment is associated with evaluating the channel section located on municipal lands. However, the consultant will also confirm design criteria for the upstream lands to ensure continuity and sustainable design principles for the entire Tributary 12 channel.

Procurement Process

The engineering consultant selection procedure for this assignment utilized a competitive Request for Proposal (RFP) process in accordance with Section 15.2(d) of the Procurement of Goods and Services Policy. Three qualified engineering firms from the City's pre-approved consultant list were invited to submit a formal proposal in response to RFP20-51 Tributary 12 (Southwinds), Channel Reconstruction Detailed Design and Construction Administration tasks to address flood remediation works for Tributary 12.

Consultant Selection

In accordance with Section 15.2(d) of the Procurement of Goods and Services Policy, Staff recommend that Ecosystem Recovery Inc. be authorized to carry out the detailed design and construction administration of the Tributary 12 channel improvement works.

In addition to being the successful proponent through the competitive bidding process, Ecosystem Recovery has formed a proficient project team that has shown their competency and expertise with City infrastructure projects of this nature in the past. Ecosystem's proposal was selected as the best value to the City to complete a comprehensive project that recognized all of the constraints for this location.

Funding

Project funding is allocated in the capital budget (\$3.85M) to support the engineering (this submission) and construction of the Tributary 12 municipal channel works in 2021. The total estimated cost for the engineering and construction of the City's Tributary 12 Downstream Channel project is \$3.6M.

Engagement

Prior to construction initiation, the City will host a Public Update Meeting with local residents to share project information and construction timelines and to provide an opportunity for residents to pose any questions or concerns regarding how construction may impact the area.

CONCLUSIONS

The Tributary 12 municipal channel improvement project is recommended by the Dingman Creek EA to address existing flood susceptible areas and facilitate future neighbourhood development. This engineering assignment is associated with the design and construction of the municipal component of the channel to reduce the existing risk of flooding and allow for the construction of the recommended "complete corridor" through the upstream development lands.

Ecosystem Recovery Inc. has demonstrated an understanding of the City's requirements for this project. It is recommended that this firm be appointed as the consulting engineer for the purpose of detailed design and contract administration, as it is in the best financial and technical interests of the City.

SUBMITTED BY:	CONCURRED BY:
SHAWNA CHAMBERS, P. ENG., DPA DIVISION MANAGER, STORMWATER ENGINEERING	SCOTT MATHERS, MPA, P. ENG. DIRECTOR, WATER AND WASTEWATER
RECOMMENDED BY:	
KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER	

Attach: Appendix 'A' – Sources of Financing
Appendix 'B' – Project Location Map

c.c. John Freeman
Alan Dunbar
Jason Davies
Chris Ginty
Gary McDonald
Ecosystem Recovery Inc.