

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P.Eng., MBA, FEC
Managing Director, Environmental & Engineering Services
and City Engineer

Subject: Metamora Stormwater Outfall Replacement Consultant
Appointment

Meeting on: February 9, 2021

Recommendation

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer that the following actions BE TAKEN with respect to the appointment of a consulting engineer for the Metamora Stormwater Outfall Replacement:

- a) Ecosystem Recovery Inc. BE APPOINTED Consulting Engineers to complete the detailed design and construction administration for the Metamora stormwater outfall replacement works in accordance with the estimate, on file, at an upset amount of \$163,440.00 including 20% contingency, excluding HST, in accordance with Section 15.2(d) of the City of London's Procurement of Goods and Services Policy;
- a) The financing for the project BE APPROVED in accordance with the "Sources of Financing Report" attached, hereto, as Appendix 'A';
- b) The Civic Administration BE AUTHORIZED to undertake all the administrative acts that are necessary in connection with this project;
- c) The approvals given, herein, BE CONDITIONAL upon the Corporation entering into a formal contract; and,
- d) 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 Ecosystem Recovery Inc. to complete the detailed design and contract administration for the Metamora Stormwater Outfall Replacement works.

Context

The Metamora Stormwater Outfall Replacement will replace an existing stormwater outfall in the Medway Valley Heritage Forest Environmentally Significant Area (South). Currently, the outfall is in failing condition and has caused extensive erosion and slope failure at the outlet. The project will restore the slope, create a new outfall and restore the lands around the outfall with proper erosion controls.

Linkage to the Corporate Strategic Plan

Municipal Council's 2019-2023 Strategic Plan identifies "Building a Sustainable City" as a strategic area of focus. The recommendation in this report will support strategies to build infrastructure to protect the environment, manage the infrastructure gap for all assets, and protect and enhance waterways, wetlands and natural areas.

Analysis

1.0 Background Information

1.1 Previous Reports Related to this Matter

Conservation Master Plan for the Medway Valley Heritage Forest Environmentally Significant Area (South). Planning and Environment Committee. April 16, 2018.

1.2 Project Background

The Metamora stormwater outfall is located in the Medway Valley Heritage Forest Environmentally Significant Area (ESA) at 23 Metamora Crescent. The outfall is adjacent to a pedestrian pathway that runs along the ESA. The existing stormwater outfall was constructed in 1958 and is rated in poor and failing condition with significant erosion occurring around the outfall and into the creek. The slope around the outfall has also eroded away over time.

1.3 Location Map



Figure 1: Location map showing Metamora outfall replacement project area

2.0 Discussion

The objective of this consulting assignment is to complete a detailed design for the replacement of the current outfall that is supported by the necessary studies (i.e. Environmental Impact Study, geotechnical investigation and slope stability analysis) in efforts to reduce the amount of sediment going into Medway Creek and to stabilize the lands that have eroded from the failing structure.

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 to undertake the detailed design and construction administration work, two of which submitted proposals. The evaluation of each consultant proposal focused on the understanding of project goals, experience on directly related projects, project team members, capacity and qualifications, and overall project fee.

3.0 Financial Impact

Based on a review of the submitted proposals, it is recommended that Ecosystem Recovery Inc. be authorized to carry out the detailed design and construction administration of the Metamora Stormwater Outfall Replacement works. Ecosystem Recovery has specific knowledge of the project area having staff who helped to complete the 2018 Medway Valley Heritage Forest ESA Conservation Master Plan Phase II. Ecosystem Recovery Inc. has also demonstrated competency and expertise with recently completed City stormwater infrastructure projects, notably the Powell Drain

Culvert Replacement and Natural Channel Rehabilitation project on Sunningdale Road in 2020 and the Dingman Creek B4 SWM facility to support the Silverleaf subdivision in 2018.

4.0 Key Issues and Considerations

4.1. Public Outreach

The Medway Valley is an area of high interest to local residents. As such, letters will be sent to residents in the area and an electronic presentation will be prepared and posted on the City's website to inform residents about the project prior to construction with appropriate contact information provided.

4.2 Environmental Impact Study

An environmental impact study (EIS) was initiated in the fall of 2019 and is nearing completion. The EIS was completed ahead of detailed design to help ensure that any construction impacts to the ESA were appropriately assessed by professional ecologists and mitigated to the extent possible, all to ensure sustainable construction, minimize harm to the natural environment and protect local wildlife. Naturalized slope restoration techniques will be employed to ensure the infrastructure integrates within the environment using a blend of engineering and ecological expertise. In accordance with the London Plan, a compensation plan will be prepared in the event of any impact that cannot be mitigated.

Conclusion

It is recommended to appoint Ecosystem Recovery Inc. to lead the detailed design and construction administration of the Metamora stormwater outfall replacement and slope rehabilitation project.

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

Submitted by: **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**

cc: Monica McVicar
 Chris Ginty

Appendix 'A' – Sources of Financing

Appendix "A"

#21011

February 9, 2021

(Appoint Consulting Engineer)

Chair and Members

Civic Works Committee

RE: Metamora Stormwater Outfall Replacement

Subledger (SWM19011)

Capital Project ES304020 - Minor Surface Flooding Mitigation

Capital Project ES304021 - Minor Surface Flooding Mitigation

Ecosystem Recovery Inc. - \$163,440.00 (excluding HST)

Finance and Corporate Services Report on the Sources of Financing:

Finance and Corporate Services 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 Managing Director, Environmental and Engineering Services and City Engineer, the detailed source of financing is:

Estimated Expenditures	Approved Budget	Committed To Date	This Submission	Balance for Future Work
ES304020 - Minor Surface Flooding Mitigation				
Engineering	13,000	0	13,000	0
Construction	350,000	350,000	0	0
ES304020 Total	363,000	350,000	13,000	0
ES304021 - Minor Surface Flooding Mitigation				
Engineering	153,316	0	153,316	0
Construction	218,396	0	0	218,396
ES304021 Total	371,712	0	153,316	218,396
Total Expenditures	\$734,712	\$350,000	\$166,316	\$218,396

Sources of Financing

ES304020 - Minor Surface Flooding Mitigation				
Capital Sewer Rates	363,000	350,000	13,000	0
ES304021 - Minor Surface Flooding Mitigation				
Capital Sewer Rates	371,712	0	153,316	218,396
Total Financing	\$734,712	\$350,000	\$166,316	\$218,396

Financial Note:

	ES304020	ES304021	Total
Contract Price	\$12,775	\$150,665	\$163,440
Add: HST @13%	1,661	19,586	21,247
Total Contract Price Including Taxes	14,436	170,251	184,687
Less: HST Rebate	-1,436	-16,935	-18,371
Net Contract Price	\$13,000	\$153,316	\$166,316

Jason Davies
Manager of Financial Planning & Policy