

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P.Eng., MBA, FEC
Deputy City Manager, Environment & Infrastructure

Subject: Appointment of Consulting Engineers - McNay Drain
Rehabilitation and Construction Administration

Date: August 31, 2021

Recommendation

That, on the recommendation of the Deputy City Manager, Environment & Infrastructure, the following actions **BE TAKEN** with respect to the Appointment of Consulting Engineers for the McNay Drain Rehabilitation and Contract Administration project:

- (a) Ecosystem Recovery Inc. **BE APPOINTED** Consulting Engineers to complete the McNay Drain Rehabilitation and Contract Administration, in the total amount of \$387,485, including contingency, excluding HST;
- (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 work;
- (d) the approvals given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the project; and,
- (e) the Mayor and the City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

Executive Summary

Purpose

This report seeks the approval to appoint Ecosystem Recovery Inc. as the Consulting Engineers to complete the detailed design and contract administration for the McNay Drain Rehabilitation project.

Context

In 2018, the *London Urban Waterways Study* identified erosion sites along several tributaries within the city limits. The "ES2478 Waterways Restoration" project account was established in the 2020 budget to design and rehabilitate priority channels within the City. The McNay Drain was identified as a priority site due to the deteriorated conditions of the erosion controls within the structured channel.

The overall goals of the rehabilitation project are to remove the accumulated sediment and debris from the existing open channel, repair/replace failing erosion control structures, provide beaver management solutions to minimize blockages in the future, and revegetate the channel with native species and beaver resistant trees.

Linkage to the Corporate Strategic Plan

This project supports the 2019-2023 Strategic Plan through the following: Building a Sustainable City, Build infrastructure to support future development and protect the environment.

Analysis

1.0 Background Information

1.1 Previous Reports Related to this Matter

Clean Water and Wastewater Fund – Appointment of Consulting Engineers for the 2017 Projects for Stormwater Engineering. Civic Works Committee. June 7, 2017.

2.0 Discussion and Considerations

2.1 Discussion

In 2018, the *London Urban Waterways Study* was completed by Ecosystem Recovery Inc. identifying erosion sites along several tributaries within the city limits. The McNay Drain was identified as a priority site due to the deteriorated conditions of the erosion controls within the structured channel. The McNay Drain project limits span approximately one kilometer in length, from the outlet in Ed Blake Park to north of Kipps Lane, ending at the confluence with the Thames River. See Appendix 'B' for location map.

The existing drain has three distinct sections: (1) the outlet into Ed Blake Park, (2) the natural open channel from Barker Street to Kipps Lane and (3) the structural open channel north of Kipps Lane. The structural channel is comprised of armourstone and gabion retaining walls, broken concrete ramps, and gabion weirs. In its current state, there exists an accumulation of silt and sediment at the outlet in Ed Blake Park. Furthermore, due to significant beaver activity within the area, an accumulation of brush and woody debris collects at the culverts at Barker Street and at Kipps Lane. These blockages inhibit the flow of water to the outlet and must be frequently managed by the City's Sewer Operations team.

This section of the channel was rehabilitated by the City in 2007 (15 years ago), however, the 2018 study identified that the gabion baskets which line the channel bed and banks are failing, the gabion-weir structures are corroded and empty, there exists significant erosion along the valley slopes that could have negative impacts to private property and the channel is backwatered due to significant beaver activity. Furthermore, the sections of channel north of Kipps Lane require cleanout of silt, sediment, and debris as well as removal of brush in order to ensure adequate stormwater flow conveyance.

The overall goals of the project are to remove the accumulated sediment and debris from the existing open channels, repair/replace failing erosion control structures with more sustainable stabilization measures, provide beaver management solutions to minimize blockages in the future, and revegetate the channel with native species and beaver resistant trees. Ultimately, the rehabilitated channel should require less frequent maintenance by implementing the latest engineering and ecological stabilization techniques.

2.3 Procurement Process

A two-staged procurement process was used to select the recommended consultant in accordance with Section 15.2(e) of the Procurement of Goods and Services Policy. Stage one was an open, publicly advertised Request for Qualifications (RFQUAL21-04). The City received 23 submissions, which were evaluated by staff and resulted in a shortlist of 19 engineering consulting firms.

Stage two was a competitive Request for Proposal (RFP21-35) process. All engineering consulting firms on the RFQUAL21-04 short-list were invited to submit a formal proposal to undertake the detailed design and contract administration for the McNay Drain Rehabilitation project. Four qualified engineering firms submitted proposals to undertake the Consulting Services for the McNay Drain Rehabilitation

project. 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.

City staff recommend the bid from Ecosystem Recovery Inc. and request approval be granted to proceed with the detailed design and contract administration services for McNay Drain Rehabilitation project.

Ecosystem Recovery Inc. have demonstrated their competency and expertise with completing infrastructure assessments of this nature and it is recommended that they be appointed the consulting engineers for this project.

3.0 Financial Impact/Considerations

The budget associated with “ES2478 Waterways Restoration” was established to design and rehabilitate priority channels within the City. There is budget available in this account to construct the anticipated repairs to the McNay Drain per the source of financing attached as Appendix A.

Conclusion

The McNay Drain rehabilitation was identified as a priority site by the 2018 London Urban Waterways study. The proposed consultant assignment will evaluate repairs to the McNay Drain to restore stable slopes, improve conveyance capacity, and mitigate future blockages of the channel. Ecosystem Recovery Inc. has been recommended to conduct the detailed design and contract administration associated with the rehabilitation of this channel as the consultant representing best value to the City.

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

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

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

Attachments: Appendix 'A' – Sources of Financing
Appendix 'B' – McNay Drain Project Location Map

CC: Steve Mollon
Gary McDonald
Alan Dunbar
Jason Davies
Geoff Smith
Monica McVicar

Appendix "A"

#21140

August 31, 2021

(Appoint Consulting Engineers)

Chair and Members

Civic Works Committee

RE: McNay Drain Rehabilitation and Construction Administration

(Subledger SWM21006)

Capital Project ES247820 - Waterways Restoration

Ecosystem Recovery Inc. - \$387,485 (excluding HST)

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 is:

Estimated Expenditures	Approved Budget	Committed To Date	This Submission	Balance for Future Work
Engineering	529,127	134,822	394,305	0
Construction	1,670,244	1,102,440	0	567,804
City Related Expenses	629	629	0	0
Total Expenditures	\$2,200,000	\$1,237,891	\$394,305	\$567,804

Sources of Financing

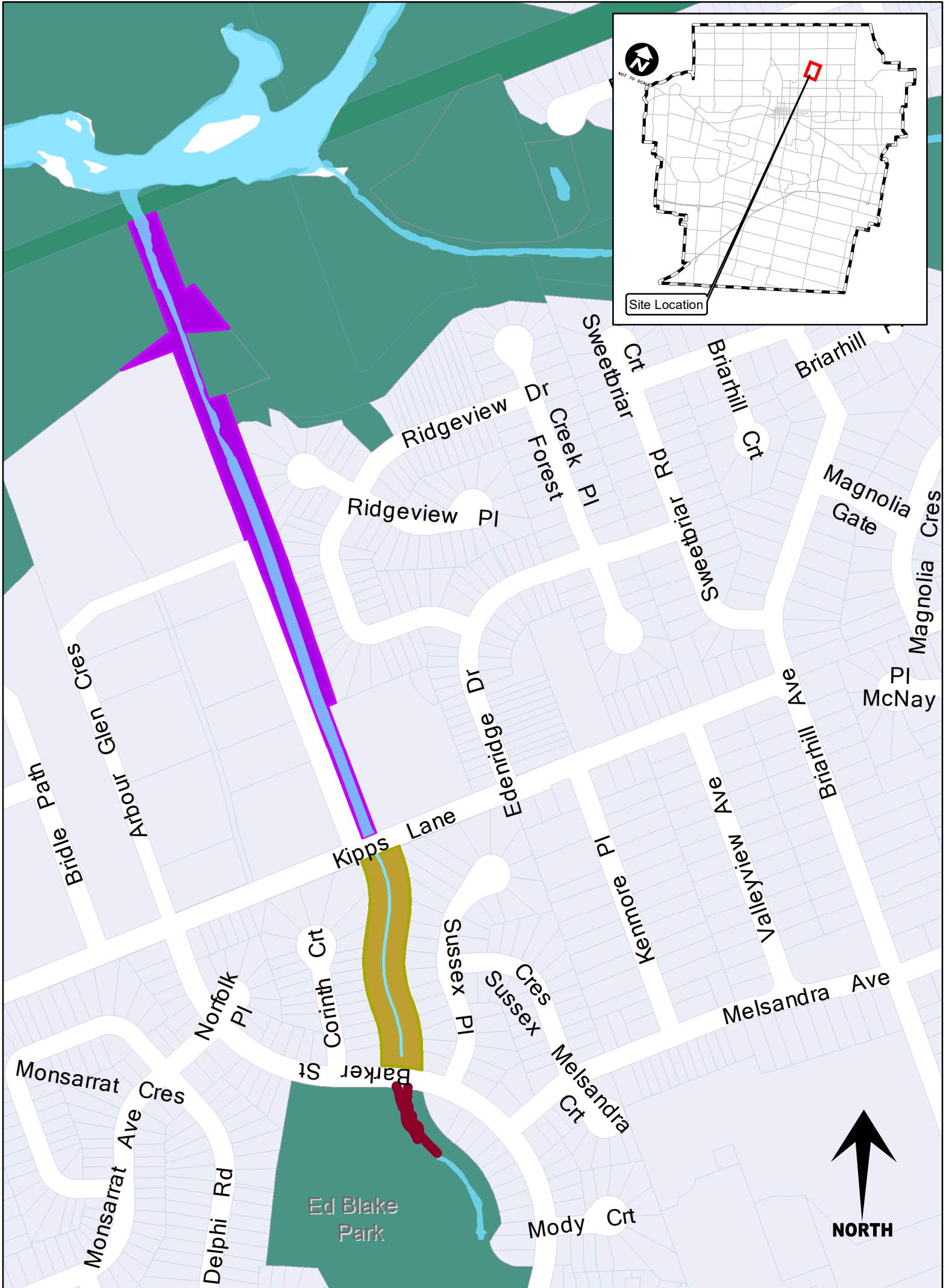
Capital Sewer Rates	2,200,000	1,237,891	394,305	567,804
Total Financing	\$2,200,000	\$1,237,891	\$394,305	\$567,804

Financial Note:

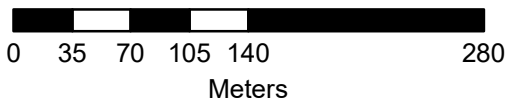
Contract Price	\$387,485
Add: HST @13%	50,373
Total Contract Price Including Taxes	437,858
Less: HST Rebate	-43,553
Net Contract Price	\$394,305

Jason Davies
Manager of Financial Planning & Policy

jg



Appendix 'B' - McNay Drain Project Location Map



-  Outlet to Ed Blake Park
-  Structural Open Channel
-  Water Body
-  Parcels
-  Open Channel
-  Park Land

Map Produced by
Stormwater Engineering
Printed: August 2021
300 Dufferin Avenue,
PO Box 5035
London, Ontario
N6A 4L9
www.London.ca

