TO:	**CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON SEPTEMBER 24, 2019**
FROM:	**KELLY SCHERR, P. Eng., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER**
SUBJECT:	**APPOINTMENT OF CONSULTING ENGINEER UPGRADING OF POWELL DRAIN (NORTHBROOK VALLEY) AND UPLAND NORTH OUTLET CULVERTS (RFP 19-46)**

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 appointment of a consulting engineer for the Upgrading of Powell Drain (Northbrook Valley) and Upland North Outlet Culverts:

a) Ecosystem Recovery Inc. **BE APPOINTED** Consulting Engineers to complete detailed design and construction administration for remediation works to Powell Drain and the Upland North Outlet Culverts in accordance with the estimate, on file, at an upset amount of $244,677.54 including 10% contingency, 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 the project **BE APPROVED** in accordance with 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 approvals 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

2012-12-03 Appointment of Consultant for Powell Drain Remediation Design (ES3020-UPNB2)

2011-10-03 Built and Natural Environment Committee, Contract Award – Tender No. T11-79 – Uplands North Stormwater Management Facility B2 (ES3018)

2011-07-18 Built and Natural Environment Committee, Subdivision Agreement – SWM Facility 2047790 Ontario Inc. 530 Sunningdale Road East 39T-05510

2019– 2023 STRATEGIC PLAN

This report and its recommendations support the Strategic Plan under Building a Sustainable City by maintaining current levels of service.

BACKGROUND

Purpose

The purpose of this report is to recommend the award of a qualified engineering consultant to complete the detailed design and construction administration for the

Upgrading of Powell Drain (Northbrook Valley) and Upland North Outlet Culverts to restore the operation of the Upland B2 Stormwater Management (SWM) Facility.

Context

The Uplands B2 SWM Facility was constructed in 2011 to service a neighbourhood development of approximately 110 hectares. Low flows from the SWM Facility are conveyed under Sunningdale Road to Powell Drain via a 350 mm clay pipe. Since the construction of this SWM Facility, the clay pipe under Sunningdale Road has failed and caused a backup of water levels in the Uplands B2 SWM Facility and adjacent wetland. The backup reduces the functionality of the SWM Facility to provide water quality, erosion control, and flood storage for existing and future neighbourhood areas, and also causes flooding to the adjacent pathway.

In 2012 the City retained Consulting Engineers to undertake the Powell Drain Remediation Design to replace the existing pipe downstream of Sunningdale Road with a natural channel design. The detailed design was completed in August 2014, however, did not include replacement of the Sunningdale Road culvert and was not further pursued by the City. The proposed works will utilize relevant design information completed as part of the previous assignment.

Awarding the 2019 consulting work will allow for the construction of a new culvert crossing, establish a functional outlet to the SWM Facility, and improve long-term conveyance of the downstream drain by converting approximately 150 metres of buried pipe to an open watercourse using natural channel design principles. A scoped Environmental Impact Study will be completed to support the detailed design.

DISCUSSION

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 for detailed design and construction administration tasks to address upgrading Powell Drain and the Upland North Outlet Culverts. An evaluation of each consultant's proposal was completed by the Environmental and Engineering Services (EES), with a focus on their understanding of project goals, methodology and approach; project team members and experience on directly related projects; implementation strategy and schedule; and overall project value.

Work Description

The Powell Drain and the Upland North Outlet Culverts project includes the Sunningdale Road culvert replacement and remediation of the downstream channel from a clay pipe to open watercourse as shown in Appendix B – Location Map. This work will be completed to support future road widening works for Sunningdale Road, scheduled for 2025 and will ensure the viability of the existing 1200 millimetre watermain along Sunningdale Road.

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 Upgrading of Powell Drain (Northbrook Valley) and Upland North Outlet Culverts.

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 has been allocated from the Sewer Operations and Stormwater Engineering capital budgets for management and reclamation to support the detailed design and construction administration work.

Engagement

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

CONCLUSIONS

The appointment of Ecosystem Recovery to complete engineering services for the detailed design of the Powell Drain Culvert Replacement and Channel Remediation will reinstate the intended function of the Uplands B2 SWM Facility and rehabilitate an existing tile drain as an open channel feature.

SUBMITTED BY:	REVIEWED & CONCURRED BY:
SHAWNA CHAMBERS, P. ENG. **DIVISION MANAGER** **STORMWATER ENGINEERING**	**SCOTT MATHERS, MPA, P. ENG.** **DIRECTOR** **WATER & WASTEWATER**

RECOMMENDED BY:
KELLY SCHERR, P.ENG., MBA, FEC **MANAGING DIRECTOR** **ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER**

Attach: Appendix 'A' – Source of Financing
Appendix 'B' – Location Map

Cc: Chris Moon, Ecosystem Recovery Inc.
John Freeman, Manager, Purchasing and Supply
Chris Ginty, Procurement Officer
Gary McDonald, Budget Analyst