

--	--

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON AUGUST 22, 2016</b>
<b>FROM:</b>	<b>JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>APPOINTMENT OF CONSULTANT: DETAILED DESIGN AND CONSTRUCTION ADMINISTRATION FOR THE APPLGATE STORMWATER MANAGEMENT FACILITY RETROFIT</b>

<b>RECOMMENDATION</b>
-----------------------

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the appointment of a consultant for the detailed design and construction administration associated with the Applegate SWM Facility retrofit (ES6089 & ES2428-14):

- (a) IBI Group, **BE APPOINTED** Consulting Engineers to complete the detailed design and construction administration, including geotechnical services, in the total amount of \$116,510.90 (including contingency), excluding HST in accordance with the estimate on file, which is based upon the Fee Guideline for Professional Engineering Services, 2015, recommended by the Ontario Society of Professional Engineers, and in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy;
- (b) the financing for these works **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 work;
- (d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with this consultant for the work; and
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
--

CWC – November 3, 2015. “Appointment of Consulting Engineers for Design and Construction of Stormwater Management Facilities.

<b>2015-2019 CORPORATE STRATEGIC PLAN ALIGNMENT</b>
---

The Stormwater Management Facilities Design and Construction program aligns with the Corporate Strategic Plan goal of managing and improving stormwater infrastructure and services (BUILDING A SUSTAINABLE CITY: 1.B. Robust infrastructure).

--	--

**PURPOSE**

To award the detailed design and construction administration of the Applegate Stormwater Management (SWM) Facility Retrofit.

**BACKGROUND**

The existing Applegate SWM facility is a wet pond located within the Dingman Creek Subwatershed (Appendix “B”). The facility was designed in March 1999 to provide stormwater quality/quantity and erosion control for 11.9 ha of the Applegate Estates Subdivision. Primarily due to the use of old design standards, this pond has a history of algae blooms and odours.

On November 3, 2015, IBI Group was retained as the engineering consultant to evaluate possible retrofit solutions to increase the treatment capacity and to reduce the growth of algae, thereby improving water quality discharging to the receiving Dingman Creek. Due to the odours and algae blooms, the design team was originally contemplating redesigning this facility to a dry facility with naturalized vegetation. This would have guaranteed no odour problems in the future; however, this approach would remove the water feature and greatly alter the appearance and function of the amenity space.

**Public Consultation:**

On December 14, 2015, the City held an initial consultation meeting with interested homeowners backing onto the Applegate SWM pond. At this meeting, the residents expressed a strong desire to maintain a wet pond facility, stating “Our pond is a prime amenity, a strong neighbourhood attraction, a diverse reserve for flora and fauna, a draw for the children and appreciated and enjoyed by all.”

Based on the comments received, a preferred option was developed based on retaining a wet pond design. The new design increases the volume of the pond and improves the flow paths through the facility to reduce areas of stagnant water. This project will require a significant amount of dewatering, triggering a Category 3 Permit to Take Water (PTTW).

A public meeting was held at the Lambeth Community Centre on May 11, 2016 to present the proposed design. This meeting was well attended by the residents. The attendees were passionate to maintain a wet pond facility and supported the recommended option. The residents acknowledged that the wet pond design creates an inherent risk for odours to persist, particularly if there is a substantial use of fertilizers in the neighbourhood. However, all agreed that they desire to retain the wet pond.

City staff are encouraged by the level of commitment and interest expressed by the residents to take an active stewardship role in this pond. The City has offered to organize a tree planting event at the facility post-construction to continue building this relationship.

**DISCUSSION**

**Consultant Selection Process:**

The initial assignment was awarded to the IBI Group in accordance with a two stage Request for Expression of Interest/Request for Qualifications & Request for Proposal process undertaken to assign a number of projects to consultants concurrently (see Previous Reports). This process is in accordance with Section 15.2(e) of the Procurement of Goods and Services Policy and a Quality Based Selection process was

--	--

used to award the consultant assignments.

At this time, we recommend proceeding with IBI Group to complete the detailed design and construction administration of the preferred alternative. The design fees for this work are \$116,510.90 (including contingency) in accordance with Section 15.2(g) of the Procurement of Goods and Services Policy. Including the preliminary design, this results in a total consulting fee of \$153,956.90. The budget for this project, including design and construction, is \$600,000.

**Next Steps:**

The project will proceed to construction in spring 2017. Residents will be notified of the start date for construction.

<b>CONCLUSIONS</b>
--------------------

The Applegate Retrofit SWMF public engagement process is an example of the value of gathering input at the onset of a project. This early engagement allowed staff and the consultant team to respond to the comments of a highly engaged community and ensure that the preferred retrofit solution met the environmental and social needs of the community.

**Acknowledgements**

This document has been prepared within the Stormwater Engineering Division by Shawna Chambers, P.Eng.

<b>SUBMITTED BY:</b>	<b>REVIEWED AND CONCURRED BY:</b>
<b>SCOTT MATHERS, MPA, P.ENG. DIVISION MANAGER, STORMWATER</b>	<b>JOHN LUCAS, P.ENG. DIRECTOR, WATER AND WASTEWATER</b>
<b>RECOMMENDED BY:</b>	
<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>	

August 15, 2016

Cc:            John Freeman, Manager, Purchasing and Supply  
               Pat Shack, Budget Analyst  
               IBI Group

Attach:      Appendix "A" – Sources of Financing  
               Appendix "B" – Applegate Location Map