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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON APRIL 2, 2012
FROM:	JOHN BRAAM, P. ENG. ACTING EXECUTIVE DIRECTOR AND CITY ENGINEER PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES
SUBJECT	APPOINTMENT OF CONSULTING ENGINEER FOR ENGINEERING SERVICES FOR FUNCTIONAL, DETAILED DESIGN AND TENDER DOCUMENT PREPARATION FOR GREEN VALLEY STORM/DRAINAGE AND STORMWATER MANAGEMENT REMEDIATION WORKS (ES2462)

RECOMMENDATION

That, on the recommendation of the Acting Executive Director and City Engineer, Planning, Environmental and Engineering Services, the following actions **BE TAKEN** with respect to the appointment of a consultant for the Functional, Detailed Design and Tender Document Preparation for Green Valley Storm/Drainage and Stormwater Management (SWM) Remediation Works (ES2462):

- (a) Delcan Corporation (Consultant) 1069 Wellington Road South, Suite 214, London, Ontario, Canada, N6E 2H6 **BE APPOINTED** Consulting Engineers for the functional, detailed design and tender documentation preparation of the said project in the amount of \$158,396, including contingency and excluding HST, in accordance with Section 15, Clause 15.2(d) of the Procurement of Goods and Services Policy, it being noted that upon successful completion of the functional and detailed design work the City anticipates recommending the award of the construction supervision and administration portion of the project to this consultant;
- (b) the financing for the project **BE APPROVED** in accordance with the "Sources of Financing Report" attached hereto as Appendix "A";
- (c) the consulting fees for the project identified in (a), above, **BE IN ACCORDANCE** with the estimate, on file, which are based upon the Fee Guideline for Professional Engineering Services, 2006, recommended by the Ontario Society of Professional Engineers;
- (d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the work; and
- (f) 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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ETC – August 23, 2010 – Municipal Class Environmental Assessment Study for Green Valley Storm/Drainage and Stormwater Management Remediation Works.

ETC – June 22, 2009 – Appointment of Consulting Engineer for Engineering Services for Municipal Class Environmental Assessment Study for Green Valley Storm/Drainage and Stormwater Management Remediation Works.

ETC – August 22, 2005 – Dingman Creek Subwatershed Study Update, Conclusions and Recommendations.

BOC – July 30, 2003 – CASCO Claim – Green Valley Storm Drain and Dingman Creek

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BACKGROUND

Purpose:

The main objective of this report is to recommend approval of Delcan to undertake the functional, detailed design and tender document preparation for Green Valley Storm/Drainage and SWM Remediation Works. This functional and detailed design and tender document preparation work is part of the settlement agreement between the City and CASCO on January 5, 2001 to undertake remediation works to improve the function of the Green Valley Drain and its ongoing performance. The location of the project is shown in Appendix 'B'.

Context:

The Green Valley Drain (GVD) runs North to South and ultimately outlets to the Dingman Creek, draining approximately 112 hectares of an area mainly designated as Industrial Lands in the Official Plan. The GVD has a history of sediment deposition and water quality issues largely due to its low grade between Green Valley Drive and Dingman Creek. The history of channel deficiencies dates back to 1983 and since then the City has undertaken clean up of sediment deposits on a number of occasions.

The Ministry of the Environment (MOE) assessed the fish kills reported in 1985 and in 1986, and attributed the problem, in part, to the stagnant water and sediment accumulation within the channel. The City cleaned the sediment accumulation from the channel in 1988 and 1991.

In 1998 the MOE issued field orders to the City of London to clean the channel, prompting investigations by both the City and CASCO into the source of the problem. The events eventually led to CASCO disconnecting their site discharges to the drain and the City agreeing to undertake remediation works to improve the function and performance of the Green Valley drain which is a tributary within the Dingman Creek.

The City completed the Dingman Creek Subwatershed Study Update (DCSSU) and received Council approval in August 2005 which identified the water quality, erosion and flood control, terrestrial, fishery/aquatic and ecological/environmental targets for the Dingman Creek system. The DCSSU was foundational in completing the Municipal Class Environmental Assessment (EA) Study for Green Valley Storm/Drainage and Stormwater Management Remediation Works that was accepted by Council in August 2010. The preferred servicing solution in the EA included an:

- Increase in the depth of the drain through creation of pools to reduce stale water conditions;
- Increase in the volume of sediment storage capacity for those flows that will, in the existing condition, deposit sediment in the drain; and
- Increase the conveyance capacity of the drain and maintain the drain's capacity to transport sediment.

It was noted that this solution is enhanced by certain ancillary benefits created in the channel remediation design. These benefits include creation of aquatic habitat, creation of riparian habitat, and decreased frequency of sediment removal required.

Since the completion of the EA, the City purchased lands along the west side of the existing drain which will facilitate the implementation of the final remediation work. The land purchase was finalized earlier this year. The watercourse has been monitored several times per year for a number of parameters which were generally within norms with the exception being suspended solid levels averaging 30 mg/L over the last 3 years of data.

Discussion:

In accordance with the EA, the City is proceeding with the functional and detailed design to address the sediment deposition and water quality issues resulting from the lack of conveyance capacity and outlet constraints of the Green Valley Drain.

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As Delcan completed the Dingman Creek Subwatershed Study Update and the Municipal Class EA, the consultant has extensive knowledge of the subwatershed and of the City infrastructure. Delcan demonstrated competency and expertise in completing multi-disciplinary water resources projects that meet PEESD's requirements, based on their work within Dingman, Stoney and Medway Creeks.

Based on PEESD's review of Delcan's work program, in accordance with Section 15, Clause 15.2(d) of the Procurement of Goods and Services Policy, it is recommended that Delcan be retained as the consultant for this phase of the remediation work. The total estimated project cost for the functional and detailed design and tender document preparation work is \$158,396, including contingency and excluding HST.

Conclusion:

It is recommended that Delcan be retained as the consultant for the functional and detailed design and tender document preparation for the Green Valley Storm/Drainage and SWM Remediation project that is required to improve the function of the Green Valley Drain and its ongoing performance. The estimated total cost associated with completing these works is \$158,396, including contingency and excluding HST.

Acknowledgements:

This report has been prepared by Paul Titus, C.E.T., Senior Engineering Technologist, Stormwater Management Unit.

SUBMITTED BY:	RECOMMENDED BY:
BERTA KRICKER, M. ENG., FEC, P. ENG., MANAGER OF STORMWATER STORMWATER MANAGEMENT UNIT	JOHN BRAAM, P.ENG. ACTING EXECUTIVE DIRECTOR AND CITY ENGINEER PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES

March 27, 2012

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

C.c. John Braam – City Engineer
Mary Goss – Budget Analyst
John Freeman – Manager, Purchasing and Supply
Delcan