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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING WEDNESDAY MAY 24, 2017
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR OF ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	POLLUTION PREVENTION AND CONTROL PLAN PHASE III CONSULTANT APPOINTMENT CONTINUATION

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to award of Phase III of the Pollution Prevention and Control Plan:

- a) CH2M Hill Canada Limited **BE APPOINTED** Consulting Engineers for the preparation of Phase III of the Pollution Prevention and Control Plan, in the amount of \$158,389.00, including 10% contingency, excluding HST, and in accordance with Section 15.2(g) of the City of London's Procurement of Goods and Services Policy;
- 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 project;
- d) the approval given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the 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.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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March 8, 2016	"Pollution Prevention and Control Plan InfoWorks Modelling Consultant Appointments", Civic Works Committee
August 25, 2014	"Pollution Prevention and Control Plan InfoWorks Modelling Consultant Appointment", Civic Works Committee
February 3, 2014	"Pollution Prevention and Control Plan Consultant Appointment Continuation (ES2464-11)", Civic Works Committee
May 14, 2012	"Consultant Appointment Pollution Prevention and Control Plan Project ES5419", Civic Works Committee

2015-2019 STRATEGIC PLAN

The 2015 – 2019 Strategic Plan identifies this objective under Building a Sustainable City; 1B – Manage and improve our water, wastewater and stormwater infrastructure

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and services; and 3E – Work together to protect all aspects of our natural environment including woodlands, wetlands, river and watercourses, and air quality as our city grows.

BACKGROUND

Purpose:

The purpose of this report is to recommend the award of Phase III of the Pollution Prevention and Control Plan (PPCP) to CH2M Hill Canada Limited (CH2M). CH2M was previously awarded Phases I and II of the PPCP in May, 2012 and February, 2014 respectively.

Context:

The City of London has 149 confirmed conveyance system overflows leading to 51 discharge points to the Thames River. There are also 32 pumping station and six wastewater treatment plant bypasses located throughout the City. These sites have been confirmed through a combination of ongoing City staff site investigation and verification along with detailed field investigation work. These conveyance system overflows were originally put in place to reduce basement flooding occurrences.

Works are also underway at the City's treatment plants to capture and treat wet weather flows.

London's PPCP is a multi-year master plan project, split into three phases, designed to provide a long term solution for conveyance system sewer overflows and bypasses in an effort to meet system wide conformance with the Ministry of the Environment and Climate Change (MOECC) Procedure F-5-5 and to mitigate impacts on receiving water bodies, including the Thames River.

DISCUSSION

A Draft Terms of Reference - City of London Municipal Class Environmental Assessment - Pollution Prevention and Control Study to Work Towards Conformance with Procedure F-5-5 was prepared in 2011 with the assistance of CH2M and the MOECC. Several meetings were held to develop the Terms of Reference to the satisfaction of the City and MOECC's London District and South West Regional Offices. Due to the large and detailed project scope, the Terms of Reference dictated three distinct phases for the PPCP to be undertaken over a projected 6 year period.

Given the anticipated fees for the project and the complexity of the assignment, the procurement of consulting services followed a two stage process including Requests for Expressions of Interest and Requests for Proposals. This process clearly identified the three phase approach to the project. CH2M was ultimately selected and retained through this two stage procurement process which followed Section 15.2(e) of the City of London's Procurement of Goods and Services Policy. CH2M completed Phase I in December 2013 to the City's satisfaction while Phase II of this project will be finalized by end of June 2017. Phase III of the project is ready to be started and is targeted to be completed by end of year 2017. A summary of Phase II will be presented to Civic Works Committee later this summer.

Phase I of the Pollution Prevention and Control Plan included initiation of the project

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and master plan, background review of data and documentation, review of benthic studies and water quality data, inventory of sewer overflows, bypasses, and discharge points, determination of flow monitoring requirements and a preliminary ranking of sewer overflow and bypass discharge points. Five technical memos were prepared along with a Phase I summary report.

Phase II continues the master plan process: characterization of the Thames River, including benthic and water quality sampling and testing at strategically located sites; hydrologic and hydraulic modelling of the different sewer sheds to determine sewer overflow frequencies and volumes; and, the development of a long and short list of sewer overflow and bypass control measures.

Phase III of this project will include refinement of the prioritization of the sewer overflow and bypass discharge points, alternative selection criteria and evaluation of preferred sewer overflow and bypass control measures.

The development of the PPCP is being managed by a Technical Steering Committee which includes membership from the City, MOECC, Upper Thames River Conservation Authority (UTRCA) and the consultant team.

Throughout the project, there will be opportunities for input from the public, other government agencies, interest groups, non-governmental organizations and First Nations through public information centres and consultation. Phase I included a public information centre held on October 3, 2012 and there was a public information centre for Phase II of the project held on May 28, 2014. Phase III will include another public information centre which will be held in the fall of 2017.

CH2M has submitted a proposal for Phase III work which includes an upset fee limit of \$143,990, excluding contingency. CH2M has indicated that Phase III works will be completed by 2017 year end.

PPCP Phase	CH2M Consulting Fees
Phase I	\$105,425.00
Phase II	\$322,042.00
Phase III	\$158,389.00
Total	\$585,856.00

Summary:

A Pollution Prevention and Control Plan will provide the City, Ministry of the Environment, and community with a long term plan for managing conveyance system sewer overflows and bypasses in London. The project will include investigations, mitigation strategies, life cycle cost estimates, conceptual layout drawings, development of an implementation plan, and documentation to identify the problem areas and opportunities for reducing the discharge of untreated sewage into the Thames River. The plan will guide future investments to reduce overflow volumes and impacts.

The hiring of CH2M to complete the next phase of the PPCP is in the best technical and financial interest of the City. It is recommended that CH2M be awarded Phase III of the Pollution Prevention and Control Plan due to their satisfactory performance in Phase I and Phase II development, as well as their knowledge and expertise with respect to development of PPCPs for municipalities. CH2M was previously awarded Phase I of the PPCP at an upset limit of \$105,425.00 and Phase II at an upset limit of 322,042.00, the award of Phase III at an upset limit of \$158,389.00 will bring the total proposed fees to \$585,856.00.

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Acknowledgements:

This report was prepared within the Wastewater and Drainage Engineering Division by Mitchell Heighway, P.Eng., Environmental Service Engineer.

PREPARED BY:	REVIEWED BY:
TOM COPELAND, P.ENG. DIVISION MANAGER WASTEWATER AND DRAINAGE ENGINEERING	JOHN LUCAS, P.ENG. DIRECTOR-WATER AND WASTEWATER
RECOMMENDED BY:	
KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER	

PPCP PhaseIII May 24 fnl

May 15, 2017

Attach: Appendix "A" – Sources of Financing