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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON NOVEMBER 3, 2015</b>
<b>FROM:</b>	<b>JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>APPOINTMENT OF CONSULTING ENGINEER FOR THE INSPECTION, CONTRACT ADMINISTRATION AND ENGINEERING SERVICES FOR THE GREENWAY WASTEWATER TREATMENT PLANT- PREHEATER, REHEATER, INCINERATOR DOME REPLACEMENT AND INCINERATOR ANNEX BUILDING HVAC REPLACEMENT</b>

<b>RECOMMENDATIONS</b>
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That, on the recommendation of the Managing Director, Environmental and Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the appointment of a Consulting Engineer for the inspection, contract administration and engineering services for the replacement of the Greenway Incinerator-Preheater, Reheater, Dome and the Incinerator building HVAC system;

- (a) the proposal submitted by AECOM Canada Ltd. at its price of \$319,979.00 excluding H.S.T., including a 10% contingency, for the above work **BE APPROVED** it being noted that the AECOM proposal is in accordance with the Fee Guideline for Professional Engineering Services as recommended by the Ontario Society of Professional Engineers and this award is a Single Source Contract under section 15.2 (g) of the City's Procurement of Goods and Services Policy;
- (b) The Civic Administration **BE AUTHORIZED** to undertake all administrative acts that are necessary in connection with this work;
- (c) the financing for this work **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";
- (d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract or issuing a purchase order for this work;
- (e) the Mayor and the 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>
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CWC Report of 2014-05-26, Item 6, Single Source Purchase of Preheater Heat Exchanger and Reheater Heat Exchanger at Greenway Wastewater Treatment Centre

CWC Report of 2014-05-26, Item 7, Emergency Repair- Incinerator Reheater

CWC Report of 2013-09-09, Item 11, Biosolids Disposal Assessment

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CWC Report of 2012-08-21, Item 8, Single Source Purchase of New Dome Bricks for the Greenway Sludge Incinerator

BNEC Report of 2011-08-15, Item 15, Greenway PCP Incinerator No. 1- Decommissioning (Multi-Hearth) - Project No. ES2095 -Tender 11-72

BOC Report of 2007-12-12, Item 4, Award of Contract for the Greenway Pollution Control Centre Incinerator Refurbishment Project No. ES5282

BOC Report of 2007-08-08, Item 3, Single Source Purchase of Pre-heater and Re-heater Heat Exchangers at the Greenway Pollution Control Centre

ETC Report of 2007-01-29, Item 1, Appointment of Consulting Engineer for the detailed design for the repairs/ refurbishment of the incinerator and ancillary works at the Greenway Pollution Control Centre, Capital Project ES5282

<b>BACKGROUND</b>
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**Purpose:**

This report recommends the appointment of AECOM Canada Ltd. as Consulting Engineers to carry out inspection, contract administration and engineering services for work related to the installation of a new preheater, reheater, incinerator dome and HVAC system at the Greenway Wastewater Treatment Plant.

**Context:**

A proposal was requested from AECOM to complete this work given their knowledge of the Greenway incinerator and their previous work including the provision of engineering services for the procurement of the new preheater, reheater, and replacement bricks for the incinerator dome. AECOM is also providing construction administration for the Greenway expansion which will be running concurrently with this assignment and this will help minimize potential technical, scheduling and financial conflicts between the two projects.

<b>DISCUSSION</b>
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London’s biosolids disposal system was recently benchmarked against other potential disposal technologies and was shown to be only 25-50% of the cost of these systems on a dry tonne basis; the Greenway incinerator is a key component of this system. Three separate life cycle renewal projects related to the Greenway incinerator are planned within the next year including, preheater/reheater replacement, dome replacement and building HVAC upgrades. Brick for a new dome was ordered in 2012 as the existing dome was showing signs of failure, and a new preheater and reheater have also been ordered as these units are failing and are at the end of their service life. These projects have evolved separately and will all require the incinerator to be shut down while the work is completed. Alternate disposal costs during this downtime will be in the order of \$60,000 per week. The coordinated work is expected to take six to eight weeks, two to three weeks less than completing the work as separate projects.

AECOM provided design and project management services for the incinerator refurbishment in 2007 which also included a new preheater and reheater. They also provided the specifications and sourced suppliers for the replacement incinerator dome

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bricks. Through their involvement in these City of London projects and similar work on other fluidized bed incinerators in the province, AECOM has gained special knowledge, skills, and expertise which will help ensure this project is completed efficiently while minimizing both capital and operations costs.

**Financial Implications:**

Approved capital funding for this assignment is available in the Greenway Incinerator Maintenance Account ES3080. There are no additional operating costs anticipated associated with the approval of this assignment.

**Summary:**

Three incinerator related projects including HVAC upgrades and the replacement of the incinerator preheater, reheater and dome have been compressed into one. AECOM has the background knowledge and experience with this type of work to help ensure the work is completed satisfactorily while minimizing the overall project schedule; each week of downtime represents an additional \$60,000 in disposal costs. AECOM’s involvement with the Greenway expansion will also help minimize potential conflicts between this work and the expansion.

**ACKNOWLEDGEMENTS**

This report was prepared by Perry Rose, Senior Engineering Technologist, Wastewater Treatment Operations.

<b>PREPARED BY:</b>	<b>REVIEWED AND CONCURRED BY:</b>
<b>GEORDIE GAULD, DIVISION MANAGER, WASTEWATER TREATMENT OPERATIONS</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>	

September 25, 2015

PR/pr

Attachments: Appendix “A” – Sources of Financing

Cc:           AECOM  
               John Freeman, Manager, Purchasing and Supply Chain  
               Jeff Smith, Procurement Officer, Purchasing and Supply Chain