

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING MONDAY, JUNE 2, 2015</b>
<b>FROM:</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR OF ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>APPOINTMENT OF CONSULTANT ENGINEERING SERVICES FOR THE STRESS-TESTING AND RE-RATING OF ADELAIDE, POTTERSBURG &amp; VAUXHALL WASTEWATER TREATMENT PLANTS</b>

<b>RECOMMENDATION</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 appointment of a consultant for engineering services for the stress testing and re-rating of Adelaide, Pottersburg and Vauxhall Wastewater Treatment Plants (WWTPs):

- a) Stantec Consulting Ltd **BE APPOINTED** Consulting Engineers in the amount of \$146,877.50 including 10% contingency, excluding HST, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and 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.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
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Civic Works Committee (September 22, 2014):  
Optimization of London Wastewater Treatment Plants - A Strategy and Roadmap

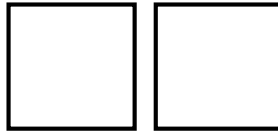
<b>BACKGROUND</b>
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**Purpose:**

To seek Municipal Council Approval to award Engineering services related to stress testing and re-rating of the Vauxhall, Pottersburg and Adelaide Wastewater Treatment Plants. (WWTP)

**Background:**

The previous report on treatment plant optimization outlined a strategy to evaluate various wastewater treatment capabilities, with a view to developing a roadmap for the optimal financial and technical coordination of future work at the Adelaide, Oxford, Pottersburg and Vauxhall plants.



A preliminary capacity/optimization evaluation of the existing treatment processes was undertaken in 2013 and an overall strategy was developed based on these stages:

1. Identify performance enhancement opportunities (done)
2. Plant testing and modeling to quantify the opportunity (next step)
3. Wet weather performance (next step)
4. Integrate other plant needs for flood proofing, asset management (physical infrastructure), future effluent criteria and energy efficiency (future step)
5. Develop a roadmap for capital and operating budget forecasts (future step)

A Request for Proposal (RFP) was issued for Engineering services to evaluate Adelaide, Pottersburg and Vauxhall WWTPs through plant stress testing and pilot testing of wet weather treatment systems; this addresses stages 2 and 3 of the overall plan. The scope of work also includes consultation with the MOECC and completion of applications for re-rating, subject to the findings of the plant testing.

Preliminary work estimates additional capacities up to 60 MLD across the three plants. Typical costs to achieve the same capacity through construction of new works is estimated at \$156-198M (at an estimated \$2.6-3.3M per MLD of new capacity)

### **Purchasing Process**

Following consultation with the Purchasing Division, the City issued a Request for Information (RFI) to five (5) Engineering Consulting firms from the City's approved vendor list. The RFI identified a list of engineering assignments that will be issued in the coming year and asked proponents to identify which tasks they were interested in.

From the RFI process, two (2) Proponents indicated an interest in completing this work for the City. Both submittals were deemed of sufficient quality to warrant inclusion in the RFP process. As a result, R.V. Anderson and Stantec Consulting Ltd, both of London, were invited to submit proposals. The submissions were reviewed by staff from Wastewater Treatment Operations and a third party consultant retained by the City for assistance. Purchasing and Supply also reviewed the submittals to ensure compliance with the City's Procurement of Goods and Services Policy.

### **Results**

The proposal from Stantec Consulting Ltd. was found by all reviewers to be the highest technical quality and best addressed the City's goals for the assignment. All reviewers agreed the assignment should be awarded to Stantec Consulting Ltd.

### **Financial Impact**

Funding for this engineering assignment is available from project ES5084-14. As described, the value of new treatment capacity could reach \$156M-\$198M from this initial investment of less than \$150,000.

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**Acknowledgements**

This report was prepared with the assistance of Kirby Oudekerk, Wastewater Treatment Operations.

<b>PREPARED BY:</b>	<b>REVIEWED &amp; 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 OF ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>	

cc: John Freeman, Manager of Purchasing and Supply