

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON AUGUST 19, 2013</b>
<b>FROM:</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR – ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>GREENWAY WASTEWATER TREATMENT PLANT ROTATING DRUM THICKENER ENGINEERING PROJECT NO. ES5084-11</b>

<b>RECOMMENDATION</b>
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That, on the recommendation of the Managing Director – Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the additional engineering fees of the Greenway Wastewater Treatment Rotating Drum Thickener Project:

- (a) the engineering fees for R.V. Anderson Associates Limited **BE INCREASED** by \$68,436.50 which includes a 10% contingency and excludes HST, in accordance with the estimate, on file, to carry out additional engineering design and contract administration, based upon the Fee Guideline for Professional Engineering Services, 2006, recommended by the Ontario Society of Professional Engineers, and in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy; it being noted that a change in project scope is required to address building deficiencies and to custom design an operating system which will enable savings of \$150,000 in construction costs.
- (b) the financing for this engineering **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 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 or issuing a purchase order for the work to be done relating to this project; 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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Civics Work Report of January 23, 2012, Agenda Item #7, Rotating Drum Thickener (RDT) Purchase From Ocean Chemicals.

BNEC Report of April 11, 2011, Agenda Item #16, Single Source Purchase of Rotary Drum Thickeners at the Greenway Pollution Control Centre.

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

The purpose of this report is to recommend an increase in engineering fees to R.V. Anderson Associates Limited (RVA) to carry out the additional engineering design and contract administration services. This work will be tendered in phases.

**Context:**

In January 2012, the City retained the services of R.V. Anderson Associates Limited to undertake the pre-design, design, and contract administration for the upgrading of the waste activated sludge (WAS) thickening system to Rotating Drum Thickeners (RDT's).

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The RDT's will be located in the WAS building which was constructed in 1972. The original scope of the work only involved installation of the pre-purchased RDT units; however, during the design, deficiencies related to corrosion and age of the building were identified and need to be addressed as part of the project. These additional works include:

- assessment and repair of deteriorated concrete and structural components around the column base plates and the perimeter of the building;
- electrical works to replace lighting, lighting panels, and a transformer; and
- preparation of separate tenders for the phases of construction.

The original scope of work anticipated a Vendor supplied polymer dosing system. Through RVA's recent work on the dewatering project at Greenway, they have identified an opportunity to reduce the cost of the polymer system while also reducing the time required to purchase and install the system. RVA will design the system including controls and instrumentation and will produce specifications for purchase of the required components. Simplifying and tailoring the system for the Greenway RDT application is expected to save in excess of \$150,000 on the polymer system.

**Conclusions:**

It is recommended that R.V. Anderson Associates Limited be awarded the additional engineering design and contract administration given their previous involvement in the design. Their fee of \$68,436.50 in addition to the original budget of \$95,474.50 represents good value for this project and is in the best financial and technical interest for the City. The additional work will address deficiencies in the WAS building and reduce capital expenditures for the project by \$150,000.

**Acknowledgements:**

This report was prepared by Mark Elliott, Senior Engineering Technologist, within the Environmental and Engineering Services Department, Wastewater Treatment Operations Division.

SUBMITTED BY:	RECOMMENDED BY:
<b>JOHN LUCAS, P.ENG. DIRECTOR, WATER &amp; WASTEWATER AND TREATMENT</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR ENVIRONMENTAL AND ENGINEERING SERVICES &amp; CITY ENGINEER</b>

August 6, 2013

Attach: Appendix "A" – Sources of Financing

C.c. Dave Evans, P.Eng - R.V. Anderson Associates Ltd.