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| TO: | CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MONDAY OCTOBER 6, 2014 |
| FROM: | JOHN LUCAS, P.ENG. DIRECTOR – WATER AND WASTEWATER |
| SUBJECT: | GREENWAY WASTEWATER TREATMENT PLANT ROTATING DRUM THICKENER ENGINEERING PROJECT NO. ES5084-11 |

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| RECOMMENDATION |
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That, on the recommendation of the Director – Water and Wastewater, the following actions **BE TAKEN** with respect to additional contract administration fees for the Greenway Wastewater Treatment Rotating Drum Thickener Project:

- (a) the engineering fees for R.V. Anderson Associates Limited **BE INCREASED** by \$51,552.60, in accordance with the estimate, on file, to an upset limit of \$215,463.60 including 10% contingency, excluding HST, 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.
- (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.

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| PREVIOUS REPORTS PERTINENT TO THIS MATTER |
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Civic Works Report of August 19, 2013, Agenda Item # 9, Rotating Drum Thickener (RDT) Engineering.

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.

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BACKGROUND

Purpose:

The purpose of this report is to recommend an increase in engineering fees to R.V. Anderson Associates Limited (RVA) to expand their contracted services to include contract administration, it being noted that the additional services are required to complete this project.

Context:

In January 2012 and August 2013, 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). A change in the scope of services is proposed to manage internal workload requirements.

Discussion:

RDT's thicken waste sludge from 0.5% to 5% solids effectively reducing the volume of product requiring storage and further processing.

However, during detailed design, deterioration of some concrete and structural components was identified, attributable to moisture and the age of the building. The existing lighting system is also at the end of its useful life and its replacement will be included in the project. Separate tenders for the various trades were originally proposed to minimize costs and accelerate the schedule while addressing some phasing issues.

As part of the scope of work R.V. Anderson Associates Limited was responsible for preparing separate tender drawings and specifications along with limited contract administration and inspection. City Staff were to procure quotations and provide tender assistance, contract administration and inspection.

Multiple capital projects are currently ongoing at various Wastewater Treatment Plants and Pumping Stations and additional capital projects are scheduled for the spring of 2015. The City does not have the technical resources available to complete this project as originally contemplated.

With the approval of the recommendations in the report, the work for this project will be tendered as one phase. R.V. Anderson Associates Limited will provide tender assistance and inspection and part time contract administration in addition to the preparation of tender drawings and specifications as identified in their original scope of services.

Conclusions:

It is recommended that the R.V. Anderson Associates Limited contract be expanded to include contract administration given their previous involvement in the design. Their fee of \$51,552.60 in addition to the previous budget of \$163,911.00 represents good value and is in the best financial and technical interest of the City.

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Acknowledgements:

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

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| PREPARED BY: | RECOMMENDED BY: |
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| GEORDIE GAULD DIVISION MANAGER, WASTEWATER TREATMENT OPERATIONS | JOHN LUCAS, P.ENG. DIRECTOR, WATER AND WASTEWATER |
| REVIEWED & CONCURRED BY: | |
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| JOHN BRAAM, P.ENG MANAGING DIRECTOR AND CITY ENGINEER, CAO REGIONAL WATER SUPPLY ENVIRONMENTAL AND ENGINEERING SERVICES | |

October 1, 2014

Attach: Appendix "A" – Sources of Financing

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