

PW-D1-1

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DATE: August 14, 2012

REPORT TITLE: **CALEDON GROUNDWATER TREATMENT FACILITY UPGRADES -  
PROFESSIONAL ENGINEERING SERVICES  
CAPITAL PROJECT 08-6510  
DOCUMENT 2010-569N  
TOWN OF CALEDON, WARD 1**

FROM: Dan Labrecque, Commissioner of Public Works

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## RECOMMENDATION

**That the contract (Document 2010-569N) for the Caledon Groundwater Treatment Facility (GWTF) Upgrades between the Region of Peel and Stantec Consulting Ltd., be extended to provide additional engineering services in the amount of \$150,000 (excluding applicable taxes), under Capital Project 08-6510, for a total commitment of \$337,014 (excluding applicable taxes), in accordance with Purchasing By-law 63-2008.**

## REPORT HIGHLIGHTS

- The Caledon GWTF has had a number of operational issues.
- Stantec Consulting Ltd. was retained by the Region to investigate problems with the performance of the plant and provide detailed design along with contract administration services for the recommended upgrades to the plant.
- The original scope of the consultant's assignment has increased due to the outcome of the investigation and additional tasks associated with the SCADA system at the plant.
- An extension in the amount of \$150,000 (excluding applicable taxes) for the additional professional engineering services is being requested and sufficient funds are available under Capital Project 08-6510.

## DISCUSSION

### 1. Background

The Caledon Groundwater Treatment Facility (GWTF) is located within the Caledon Landfill site, in the Town of Caledon (Appendix I). The facility was constructed in 2001 to treat the leachate-impacted groundwater discharging to a wetland area adjacent to the Credit River. The groundwater is being collected, treated and re-introduced to the aquifer in order to maintain baseflow of the Credit River. The main objective of the treatment process is to remove iron, the main impurity in the groundwater.

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Over the last few years, the iron removal system at the Caledon GWTF has experienced significant operational issues. The recurring issues have been investigated and it has been determined that upgrades to the plant are required to ensure compliance with the Ministry of Environment's regulations and the Credit Valley Conservation Authority's requirements which resulted in the initial assignment. Through Stantec Consulting Ltd's due diligence review and further testing and monitoring at the facility, it became apparent that further improvements are required.

**2. Project Scope Changes**

The project scope changes are outlined below. These changes will improve the capacity and efficiency of the treatment process and ensure that the Caledon GWTF performs at optimal levels. In addition, these project scope changes will ensure that the Caledon GWTF is in compliance with the Region's most current SCADA standards.

Description of Additional Works	Amount
Additional Design Works for Capital Upgrades	\$20,000
Additional SCADA Upgrades for compliance with current standards	\$30,000
Additional Construction Administration Services during Construction and contingency	\$100,000
<b>Total Additional Engineering Services</b>	<b>\$150,000</b>

Stantec Consulting Ltd. provided a modified work plan and associated fee schedule for these additional professional engineering services at the Caledon GWTF and Public Works Staff have reviewed the revised fees and determined that the additional amounts are in line with current industry standard rates. It is staff's recommendation that Stantec Consulting Ltd. be authorized to undertake additional engineering services in the amount of \$150,000 (excluding applicable taxes).


**FINANCIAL IMPLICATIONS**

Sufficient funding is available under Capital Project 08-6510.

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c. (Acting)  
Dan Labrecque  
Commissioner of Public Works

**Approved for Submission:**

  
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D. Szwarc, Chief Administrative Officer

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# APPENDIX I

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**CALEDON GROUNDWATER TREATMENT FACILITY UPGRADES  
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