

--	--

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING TUESDAY, APRIL 12, 2016
FROM:	JOHN BRAAM, P.ENG MANAGING DIRECTOR OF ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	PURCHASE OF A SKALAR CONTINUOUS FLOW ANALYSER FOR THE GREENWAY LABORATORY

RECOMMENDATION

That, on the recommendation of the Managing Director – Environmental and Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the purchase of replacement analyzer for the Greenway Laboratory:

- a) The quotation submitted by Skalar Inc. at its price of \$78,373, excluding HST, for replacement of Technicon analysers at the Greenway laboratory **BE ACCEPTED**, it being noted that this is a single source purchase in accordance with Section 14.4 (g) 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.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
--

- None

2015-2019 STRATEGIC PLAN

The work aligns with the 2015-2019 Strategic Plan through:

1. Building a sustainable city – a strong and healthy environment; and
2. A healthy, safe and accessible city - Help Londoners understand how we provide safe drinking water and protect the Thames River.

--	--

BACKGROUND

Purpose:

To seek Council Approval to purchase A Skalar Flow Cell Analyser for use at the Greenway Laboratory.

Background:

The Greenway laboratory is an ISO 17025 accredited laboratory which helps ensure analysis are done accurately. The existing Technicon Auto Analyser in the lab is over 20 years old and will cost \$60,000 to upgrade the operating system to Windows 7. This unit is used for analysis of phosphorous, ammonia and total Kjeldahl nitrogen (TKN) as required for various Wastewater Treatment and Stormwater Management Environmental Compliance Approvals (ECA's), Thames River and Creek monitoring programs as well as the City's industrial monitoring program. The high strength waste monitoring surcharges generated approximately \$4 million in both 2014 and 2015 while the analysis completed on the Thames River system help quantify any improvements and impacts on the system within London.

New continuous flow analysers can also analyse for sulphate, chloride, nitrate and nitrite which are currently being done using an Ion Chromatograph (IC) analyser which is also 19 years old and near the end of its service life. The annual operating cost of the IC is higher than the operating cost of the new continuous flow analyser.

The 2014 costs for phosphorous, ammonia, total Kjeldahl nitrogen, chlorides, nitrates, nitrites, sulphates and TKN analysis are summarized in the table below. Tests performed by the Greenway lab are available within 24 hours versus a two week turn around for outsourced analysis.

Parameter	Number of Analysis	City Cost	Private Lab Cost (includes HST)
AMMONIA	3246	\$10.74	\$11.30
CHLORIDES	421	\$13.28	\$14.75
NITRATES	842	\$8.82	\$14.75
NITRITES	775	\$8.82	\$14.75
PHOSPHOROUS	3296	\$13.28	\$25.92
SULPHATES	144	\$13.28	\$14.75
TKN	1429	\$13.44	\$25.92
Total		\$119,603.82	\$191,336.30

Justification for Single Source

A single source purchase is proposed under section 14.4 (g) of the Procurement of Goods and Services Policy as "It is advantageous for the City to acquire the goods or services from a supplier pursuant to the procurement process conducted by another public body." Skalar Flow Cell Analysers have been purchased by the City of Hamilton, Niagara Region, Durham Region and the City of Peterborough for similar analyses in their laboratories. London staff reviewed and adopted the specifications of the City of Hamilton and received three quotes to arrive at a recommendation to purchase Skalar Flow Cell Analysers.

--	--

Financial Impact

Funding for this purchase has been allocated within capital accounts for Replacement Equipment.

Acknowledgements

This report was prepared by Tony Van Rossum, Wastewater Treatment Operations with help from Ian Harris, Purchasing and Supply.

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

Attach: Appendix "A" – Sources of Financing

cc: John Freeman, Manager of Purchasing and Supply