



Report to: General Committee

Date Report Authored: December 23, 2014

SUBJECT: Request for Proposal (RFP) 220-R-14 Consulting Engineering Services for Short-Term Sanitary Flow Monitoring

PREPARED BY: Lijing Xu, Ext. 2967
Patti Malone, Ext. 2239

RECOMMENDATION:

- 1) That the report entitled “Request for Proposal (RFP) 220-R-14 Consulting Engineering Services for Short-term Sanitary Flow Monitoring” be received;
- 2) And That contract (220-R-14) for Consulting Engineering Services for Short-Term Sanitary Flow Monitoring be awarded to the highest ranked bidder/lowest priced bidder “Calder Engineering Ltd.”;
- 3) And That the term of the contract be for one (1) year with the option to renew for additional two (2) one year periods in the total award amount of \$431,910.15 inclusive of HST:

2015 -	\$143,970.05
2016 -	\$143,970.05
2017 -	<u>\$143,970.05</u>
Total	\$431,910.15
- 4) And That an annual contingency amount of \$14,397.00 (inclusive of HST) be established to cover any additional costs and that authorization to approve expenditures of this contingency amount up to the specified limit be in accordance with the Expenditure Control Policy;
- 5) And That the award be funded from the 2014 capital account 760-101-5699-14300 (12 Month Wastewater Flow Monitoring – Phase 2 of 8) and capital account 760-101-5399-14313 (Sanitary System Downspout Disconnection Program – Phase 2 of 8) as outlined under the financial template section of the report;
- 6) And That the remaining funds in the amount of \$69,233.00 be returned to the original funding source;
- 7) That the Director of Environmental Services be authorized to exercise the option to renew the contract in year 2 and 3 subject to performance and Council approval of the annual budget;

And that Staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

To obtain approval to award the contract for consulting engineering services to undertake Short-Term Sanitary Flow Monitoring for a one year term with two one year options subject to satisfactory performance of the consultant.

BACKGROUND:

On a regular ongoing basis, the City needs to undertake various flow monitoring projects in the sanitary sewer system to understand the performance of the system and determine the level of Inflow/Infiltration (I/I) in that part of the system. This data is used to help focus improvements in system service level assessment, reduce Inflow/Infiltration (I/I), evaluate the effectiveness of I/I reduction measures, reduce the risk of system surcharge and basement flooding, update and calibrate the system hydraulic models, Support and prioritise the Council approved multiple-year City-wide Downspout Disconnection Program, etc. In order to plan, prioritize and implement these projects, the City needs to monitor and quantify sanitary system flows at various locations within the city on a one year term basis to characterize the I/I status of the existing system. It is estimated that approximately 20 locations are required each year for at least 8 years (8 Phases) to help with these projects.

The general scope of the work to be undertaken in this contract includes the following:

- Flow monitoring site inspection
- Equipment Installation
- Flow data management and analysis
- Operation and maintenance of the flow monitoring equipment
- Produce final report analysing the data

BID INFORMATION

Advertised	ETN (Electronic Tendering Network)
Bids closed on	November 27, 2014
Number picking up bid documents	11
Number responding to bid	8

PROPOSAL EVALUATION

The Evaluation Team was comprised of staff from the Asset Management and the Environmental Services Departments with purchasing staff acting as the facilitator. The proposals were evaluated based on pre-established evaluation criteria as listed in the Request for Proposal: 20% past experience of the consulting firm; 20% qualifications and experience of the lead consultant and project team; 30% project understanding and 30% price, totaling 100%.

Consultant	Total Score (out of 100)	Rank Results
Calder Engineering Ltd.	82.00	1
Thompson Flow Investigations Inc.	77.80	2
AECOM Canada Ltd.	76.37	3
XCG Consultants Ltd.	74.31	4
Cole Engineering Group Ltd.	73.37	5
Sense Consultants	64.68	6
AMG Environmental Inc.	59.45	7
PDC Inc.	29.22	8

Note: Prices received from the five Bidders ranged from \$431,910.15 to \$806,907.18 (inclusive of HST).

On the technical submission, Calder Engineering Ltd. demonstrated a thorough understanding of the project and, its requirements. Through their proposal, they demonstrated to the City their capabilities, experience, a good team and manager for undertaking this project. In addition to being the lowest cost submission for each year, Calder Engineering Ltd. satisfactorily performed this work in Phase 1 of the program. With regard to costing, the bid document specified that pricing was to be supplied for each of the three years. Calder Engineering Ltd. submitted the same itemized pricing for each of the three years.

FINANCIAL TEMPLATE:

Account Name	Account #	Budget Amount	Budget Available	Amount to allocate to this project	Funds Remaining after Allocation of Award
12 Month Wastewater Flow Monitoring – Ph 2 of 8	760-101-5699-14300	\$ 152,600	\$ 152,600	\$ 152,600	-
Sanitary System Downspout Disconnection Program – Ph 2 of 8	760-101-5399-14313	\$ 869,160	\$ 742,219	\$ 75,000	\$ 69,233
Total		\$ 1,021,760	\$ 894,819	\$ 227,600	\$ 69,233

* Remaining funds of \$69,233 will be returned to the original funding source, project 14313 (Sanitary System Downspout Disconnection Program – Phase 2 of 8)

ENVIRONMENTAL CONSIDERATIONS:

Not applicable

RECOMMENDED BY:

13/02/2015

X 

Peter Loukes
Director, Environmental Services

2/12/2015

X 

Brenda Librecz
Commissioner, Community & Fire Services

ATTACHMENTS:

Not applicable