



STAFF REPORT ACTION REQUIRED

Procurement Authorization Scarborough Subway Extension Geotechnical, Geoenvironmental and Hydrogeological Consulting Services – Contract FE85-6

Date:	June 22, 2015
To:	TTC Board
From:	Chief Executive Officer

Summary

The purpose of this report is to obtain authorization for the award of Contract FE85-6 for Geotechnical, Geoenvironmental and Hydrogeological Consulting Services for the Scarborough Subway Extension (SSE) to the following firms, in the upset limit of \$3.5 million per firm (a total upset limit of \$10.5 million) in Canadian funds, with a three year duration from Notification of Award, on the basis of lowest total evaluated price of the qualified proponents:

- Amec Foster Wheeler Environment & Infrastructure, a Division of Amec Foster Wheeler Americas Limited
- Conestoga-Rovers & Associates Limited
- Golder Associates Ltd.

The retained consultants will carry out the geotechnical, geoenvironmental and hydrogeological investigations in support of the Scarborough Subway Extension Project. The consultants will also provide support, as required, for the preparation of the Geotechnical Baseline Reports that will be included in the construction contract documents.

Recommendations

It is recommended that the Board:

1. Authorize award of Contract FE85-6 for Geotechnical, Geoenvironmental and Hydrogeological Consulting Services for the Scarborough Subway Extension to the following firms, in the noted upset limit amounts, in Canadian funds, each for

a three year duration from the Notification of Award, on the basis of lowest total evaluated price of the qualified proponents:

<u>Firm</u>	<u>Upset Limit</u>
• Amec Foster Wheeler Environment & Infrastructure, a Division of Amec Foster Wheeler Americas Limited	\$3.5 million
• Conestoga-Rovers & Associates Limited	\$3.5 million
• Golder Associates Ltd.	\$3.5 million

Financial Summary

Sufficient funds are included in the TTC's 2015-2024 Capital Budget under Scarborough Subway Extension, as noted on Pages 1043-1044, as approved by the Board on February 2, 2015 and approved by City of Toronto Council on March 10/11, 2015. Funds in the amount of \$33.8 million are included in TTC's Council approved 2015 Capital Budget and no work beyond what can be accommodated within the approved funding will be initiated, unless project approval funds are made available.

Contract work will be administered on a Work Assignment Release basis. Work will only commence as authorized by TTC staff in the form of a Work Assignment Release and payment for services will be based on the terms included in the Contract Documents.

The Chief Financial & Administration Officer has reviewed this report and agrees with the financial impact information.

Accessibility/Equity Matters

Designs associated with the Scarborough Subway Extension will be developed in accordance with AODA requirements and the Ontario Building Code.

Decision History

At its meeting of October 8, 2013, City Council confirmed support for a Scarborough Subway extending Line 2 (Bloor-Danforth) along the McCowan Corridor to Sheppard Avenue East, subject to approval through an Environmental Assessment.

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2013.CC39.5>

At its meeting of June 24, 2014, the Board received a status report on the Scarborough Subway Extension and approved forwarding the report to the City Planning and Growth Management Committee for its information.

http://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2014/June_24/Reports/Scarborough_Subway_Extension_Update.pdf

At its meeting of December 9, 2014, the Board approved the award of Contract FE85-2 for Tunnel Design Services.

[http://www.ttc.ca/About the TTC/Commission reports and information/Commission meetings/2014/December 9/Reports/BR_17122_Procurement Authorization Tunnel Design Contract FE.pdf](http://www.ttc.ca/About%20the%20TTC/Commission%20reports%20and%20information/Commission%20meetings/2014/December%209/Reports/BR_17122_Procurement_Authorization_Tunnel_Design_Contract_FE.pdf)

At its meeting of February 25, 2015, the Board approved the award of Contract FE85-3 for Project Management Services.

[http://www.ttc.ca/About the TTC/Commission reports and information/Commission meetings/2015/February 25/Supplementary Reports/Procurement Authorization Project Management Services Contra.pdf](http://www.ttc.ca/About%20the%20TTC/Commission%20reports%20and%20information/Commission%20meetings/2015/February%2025/Supplementary%20Reports/Procurement%20Authorization%20Project%20Management%20Services%20Contra.pdf)

On May 5, 2015, City Council directed the City Manager, in consultation with the CEO of the TTC and the Deputy City Manager and Chief Financial Officer, to report to Council by the first quarter of 2016 with a recommendation on whether to proceed with a Design-Bid-Build or Design-Build-Finance option for the Scarborough Subway Extension, and also requested the TTC Board to continue to structure contracts in a way that preserves the ability to proceed with whichever procurement and delivery model is recommended.

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2015.EX5.6>

At its meeting of May 27, 2015, the Board approved the award of Contract FE85-4 for Systems Design and Management Services, as well as Contract FE85-5 for Station Design Services.

[http://www.ttc.ca/About the TTC/Commission reports and information/Commission meetings/2015/May 27/Reports/Procurement Authorization Systems Design and Management Serv.pdf](http://www.ttc.ca/About%20the%20TTC/Commission%20reports%20and%20information/Commission%20meetings/2015/May%2027/Reports/Procurement%20Authorization%20Systems%20Design%20and%20Management%20Serv.pdf)

[http://www.ttc.ca/About the TTC/Commission reports and information/Commission meetings/2015/May 27/Reports/Procurement Authorization Station Design Services Contract F.pdf](http://www.ttc.ca/About%20the%20TTC/Commission%20reports%20and%20information/Commission%20meetings/2015/May%2027/Reports/Procurement%20Authorization%20Station%20Design%20Services%20Contract%20F.pdf)

Issue Background

This report addresses the retention of consultants that will carry out the geotechnical, geoenvironmental and hydrogeological investigations, in support of the Scarborough Subway Extension.

The geotechnical, geoenvironmental and hydrogeological investigations are key components of the Scarborough Subway Extension. These investigations are carried out to determine and assess the soil and groundwater conditions along the length of the alignment. The information obtained through these investigations are interpreted by the

geotechnical engineers, which is then provided to the tunnel and station design teams to permit the structural design of the tunnel liners and stations.

In addition to providing soils and groundwater parameters to the tunnel and station design teams and for the procurement of the tunnel boring machines, information obtained through the geoenvironmental investigations is used to assess the environmental condition and potential impacts of both the soil and groundwater along the length of the subway extension. This information is used, along with Ministry of the Environment criteria and City By-laws to determine the disposal requirements for both soil and groundwater.

The geoenvironmental investigations, Phase I and II Environmental Site Assessments, that will be carried out under this contract are part of the due diligence process when acquiring (purchasing) and/or leasing land for, construction laydown and staging areas or required for buildings such as but not limited to stations, emergency exit buildings, and vent shafts.

Comments

A Request for Proposals (RFP) was publicly advertised on the Merx website as well as the TTC's website on March 31, 2015. Eighteen (18) companies downloaded copies of the proposal documents, out of which six (6) submitted a proposal by the closing date of April 23, 2015. The companies that did not submit their proposals did not provide the type of services required, did not have sufficient staff or expertise for the scope of work, were busy with other assignments or did not have sufficient resources to prepare their proposal.

Evaluation of the Proposal Submissions

Submissions from the following companies were received for Geotechnical, Geoenvironmental and Hydrogeological Consulting Services:

1. Amec Foster Wheeler Environment & Infrastructure, a Division of Amec Foster Wheeler Americas Limited;
2. Conestoga-Rovers & Associates Limited;
3. DBA Engineering Ltd.;
4. Golder Associates Ltd.;
5. SPL Consultants Limited; and,
6. Thurber Engineering Ltd.

An evaluation team consisting of three (3) members; two (2) representing the Geotechnical & Geoenvironmental Section of the Engineering Department and one (1) from Materials and Procurement Department evaluated the qualitative portion of the proposal in accordance with the requirements outlined in the RFP and attached as Appendix A.

The recommendation for award is based on the three lowest total evaluated prices of the qualified proponents. The evaluation of proposals was based on a two envelope process and consisted of qualitative and pricing components. All proposals received were first reviewed and rated by the evaluation team on the qualitative aspects of the proposal using the associated weightings as set out in the proposal documents. Those proposals that scored a total qualitative rating of 80 or better were considered qualified. The following five companies passed the qualitative evaluation and had their pricing envelopes opened and attached as Appendix A:

- Amec Foster Wheeler Environment & Infrastructure, a Division of Amec Foster Wheeler Americas Limited;
- Conestoga-Rovers & Associates Limited;
- Golder Associates Ltd.;
- SPL Consultants Limited; and
- Thurber Engineering Ltd.

One of the proponents, failed to submit an hourly billing rate for the position of Intermediate Hydrogeologist / Geo-Scientist for the individual that was qualitatively evaluated. TTC Legal opinion was sought and confirmed that the proposal submission from SPL Consultants Limited is non-compliant and cannot be considered for an award.

Based on the evaluation process outlined above, the following three companies had the lowest evaluated prices and are recommended for award of contracts:

- Amec Foster Wheeler Environment & Infrastructure, a Division of Amec Foster Wheeler Americas Limited;
- Conestoga-Rovers & Associates Limited; and,
- Golder Associates Ltd.

The three companies recommended for award have satisfactorily performed previous work for the TTC.

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80-2-129
03080-104-62

Attachment - Appendix A

APPENDIX A
PROCUREMENT AUTHORIZATION
SCARBOROUGH SUBWAY EXTENSION
GEOTECHNICAL, GEOENVIRONMENTAL AND HYDROGEOLOGICAL
CONSULTING SERVICES
CONTRACT FE85-6

EVALUATION CRITERIA

A. Corporate Qualifications

- Background and capabilities
- Number of years in business
- Depth of available resources
- CADD facilities and compliance to TTC CADD standards
- Local in-house laboratory facilities
- Relevant corporate experience

B. Staff Qualifications/Experience

- Number of years of experience
- Number of years of direct experience
- Technical qualifications
- Relevant experience

C. Pricing Evaluation

COMPANY NAME	TOTAL EVALUATED PRICE*
Amec Foster Wheeler Environment & Infrastructure, a Division of Amec Foster Wheeler Americas Limited**	\$4,043,780.15
Golder Associates Ltd.**	\$4,778,171.61
Conestoga-Rovers & Associates Limited**	\$4,833,849.82
Thurber Engineering Ltd.	\$5,047,921.54
SPL Consultants Limited	Non Compliant

(*) – The 3-year Contract Total Evaluated Pricing is derived as a sum of estimated hours multiplied by the hourly billing rate of each key staff member plus the sum of the estimated quantities for various services multiplied by the unit prices. There were 136 unit price items identified on the Price Schedule for the various services. The RFP Document indicated that the TTC intended to award up to 3 contracts with an upset limit amount of \$3.5M each. The estimated quantities were used for the evaluation purposes only.

(**) – Recommended for award