Minutes – Executive Policy Committee – October 26, 2011

REPORTS

Minute No. 522 Professional Engineering Consulting Services for Updating Flood Activity/Emergency Manual

EXECUTIVE POLICY COMMITTEE DECISION:

The Executive Policy Committee concurred in the recommendation of the Winnipeg Public Service to approve single source negotiations to the AECOM Canada Ltd. (AECOM) and Kontzamanis Grauman Smith MacMillan Inc. (KGS Group) team for consulting engineering services related to the 2011/2012 upgrade to the Water and Waste Department's electronic Flood Activity/Emergency Manual, subject to a satisfactory offer from the AECOM/KGS team to the maximum estimated amount of $150,000.00, in accordance with B 4.1 (F) of the Materials Management Policy, regarding compatibility, based in their qualifications and their in-depth knowledge of the Flood Manual.

DECISION MAKING HISTORY:

Moved by Councillor Fielding,

That the recommendation of the Winnipeg Public Service be concurred in.

Carried

ADMINISTRATIVE REPORT

Title: **APPROVAL OF NEGOTIATIONS FOR PROFESSIONAL ENGINEERING CONSULTING SERVICES FOR UPDATING FLOOD ACTIVITY/EMERGENCY MANUAL BID SOLICITATION NO. 780-2011**

Critical Path: **Executive Policy Committee**

AUTHORIZATION

Author	Department Head	CFO	CAO
W. J. Borlase, P. Eng. Manager of Wastewater Services Division	Barry MacBride Director	M. Ruta Chief Financial Officer	Deepak Joshi Chief Operating Officer

RECOMMENDATIONS

That the Executive Policy Committee approve single source negotiations to the AECOM Canada Ltd. (AECOM) and Kontzamanis Grauman Smith MacMillan Inc. (KGS Group) team for consulting engineering services related to the 2011/2012 upgrade to the Water and Waste Department's electronic Flood Activity/Emergency Manual, subject to a satisfactory offer from the AECOM/KGS team to the maximum estimated amount of $150,000.00, in accordance with B 4.1 (F) of the Materials Management Policy, regarding compatibility, based in their qualifications and their in-depth knowledge of the Flood Manual.

REASON FOR THE REPORT

Executive Policy Committee has the delegated authority to approve single source negotiations for consulting engineering assignments pursuant to Administrative Standard FM-002, where the estimated value of the Consultant Service, other than those relating to capital projects, exceeds $35,000 in total, including all phases of any given project.

IMPLICATIONS OF THE RECOMMENDATIONS

Funding for this project is available from the approved Current Budget Wastewater/Land Drainage - Flood Pumping Stations – Professional – Account Distribution No. 001 521010 201181 211 EXCONSULT

HISTORY

Following the 1997 flood, the City of Winnipeg identified that to improve its ability to promptly and adequately respond to elevated river level events, a comprehensive Flood Manual should be developed. The last time that the city had experienced a flood of 1997 magnitude was in 1966 (pre-Floodway) when levels reached 26.3 ft James (in 1997 levels reached 24.5 ft James). With the completion of the Floodway in 1968, river levels during flood conditions only barely exceeded 19 ft James Ave on two occasions. Over this 30 year time frame, the City lost the institutional knowledge on what to do during a major flood. A new Flood Manual that captured the knowledge gained from the 1997 flood was viewed as a way to address the issue.

In 2000 UMA Engineering Ltd. (now AECOM Canada Ltd.) and KGS Consulting Engineers formed a team and developed the Department's electronic flood manual, which was completed in 2003. The Flood Manual is a "living" document which requires updating annually to stay current with the City's flood protections systems. AECOM and KGS are the only engineering consultants that have in-depth knowledge of the Flood Manual and are capable of doing the upgrades in a timely and cost-effective manner. This AECOM/KGS team has performed annual upgrades to the Flood Manual every year since it was completed in 2003. The Department is familiar with the level of effort required to perform the Flood Manual upgrades and are experienced in reviewing engineering consultant proposals for this type of work. The engineering consultant contract would be based on hourly rates.

Funding for the development of a new Flood Activity/Emergency Information System was subsequently approved by Council in the 1999, 2000 Capital Budgets in the amount of $2,400,000. In 2004 and 2005 there were two approved budget increases and the final budget on the project was $2,564,909.

In 2000, the Water and Waste Department engaged Professional Engineering Services (UMA and KGS) to develop a "state of the art" GIS based Flood Manual. The key component of the Flood Manual is a method to calculate the water level profile on all our rivers for a variety of flow conditions. The entire City's flood fighting activities such as gate closures, pump activations, sandbag dike erections, etc. are then identified to correspond to the calculated profile.

The new Flood Manual was completed in 2003 and placed into active use in the Spring of 2004. The new Flood Manual has proved itself invaluable in fighting a number of floods since then; during the summer of 2005, spring of 2006, and the flood of 2009 which was further complicated by ice conditions. In each case the rivers rose quickly and the City had limited lead time to mobilize its flood fighting efforts.

This Flood Manual is a "living" document that is updated annually by our Flood Manual consultants, AECOM and KGS consulting engineers, based on changes in the City's flood protection systems. These updates typically include new pump placements, new gate chambers to isolate our sewer systems from the river, new secondary or primary dikes and general operational knowledge that necessitate refinements to the existing Flood Manual.

This Flood Manual also contains documentation and details of how the City's wastewater and land drainage sewer systems work. This information has proven to be a valuable resource for Operations staff not only during flood events but also year round.

There is also another report titled: Flood Manual Upgrades currently in the RIS system for Council approval. The purpose of the report is to seek approval for a new Capital Project to upgrade the existing Flood Manual to the latest computer software to address outdated programming language

issues and to raise the upper limit of the Flood Manual to identify the additional flood fighting activities required at higher river levels.

FINANCIAL IMPACT

Financial Impact Statement

Date: September 21, 2011

Project Name: **First Year of Program** **2011**

APPROVAL OF NEGOTIATIONS FOR PROFESSIONAL ENGINEERING CONSULTING SERVICES FOR UPDATING FLOOD ACTIVITY/EMERGENCY MANUAL
BID SOLICITATION NO. 780-2011

	2011	2012	2013	2014	2015
Capital					
Capital Expenditures Required	$ -	$ -	$ -	$ -	$ -
Less: Existing Budgeted Costs	-	-	-	-	-
Additional Capital Budget Required	$ -	$ -	$ -	$ -	$ -
Funding Sources:					
Debt - Internal	$ -	$ -	$ -	$ -	$ -
Debt - External	-	-	-	-	-
Grants (Enter Description Here)	-	-	-	-	-
Reserves, Equity, Surplus	-	-	-	-	-
Other - Enter Description Here	-	-	-	-	-
Total Funding	$ -	$ -	$ -	$ -	$ -
Total Additional Capital Budget Required	$ -				
Total Additional Debt Required	$ -				
Current Expenditures/Revenues					
Direct Costs	$ 150,000	$ -	$ -	$ -	$ -
Less: Incremental Revenue/Recovery	-	-	-	-	-
Net Cost/(Benefit)	$ 150,000	$ -	$ -	$ -	$ -
Less: Existing Budget Amounts	150,000	-	-	-	-
Net Budget Adjustment Required	$ -	$ -	$ -	$ -	$ -

Additional Comments: Funding for this project is available in the annual current budget.

Original Signed by
Lucy Szkwarek, C.G.A.
Acting Manager of Finance and Administration

js
21-Sep-11

CONSULTATION

In preparing this report there was consultation with:

N/A

SUBMITTED BY

Water and Waste Department
Wastewater Services Division
Prepared by: Bill Watters, P. Eng.
Date: September 21, 2011
File No.: 020-08-09-09-00 and 020-01-04-02-00

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