

CITY OF KELOWNA

**MEMORANDUM**

**Date:** December 3, 2007  
**File No.:** 5600-07  
**To:** City Manager  
**From:** Water/Drainage Manager  
**Subject:** Award of Cedar Creek Pump Station Construction (TE 07-14)

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**RECOMMENDATION**

That the Contract for the construction of the Cedar Creek Pump station works be awarded to Maple Reinders Inc. for the amount of \$6,456,000.00

AND THAT the Mayor and City Clerk be authorized to execute the Contract on behalf of the City.


**BACKGROUND**

As part of the Ultraviolet disinfection program and to keep pace with increasing water demands in the south end of the City's service area, the Water Utility is planning to construct a new pump station at the site of the Cedar Creek intake. The existing pump station, constructed as an interim measure in 1996, has reached its capacity, and is in need of replacement. The preliminary and detailed design of the new facility has been ongoing since 2004, and has included participation from various City departments including Environment and Parks, as well as representatives from the local development community. A public meeting was also held in the early stages of the design to gain input from area residents. Progress updates on the project will also be provided in 2008 through local signage, the city's web site and through the Water Utility spring and fall newsletter to customers.

In October 2005, the City retained the services of Earth Tech to complete the design of the new pump station and UV disinfection facility. Since the existing pumping system has reached its hydraulic capacity, the first phase of the program is to construct the new high-lift pump station, to ensure that the City's south end has reliable pumping capacity. In September 2007, Earth Tech prepared the equipment specifications and tender documents for the pump station construction on the foreshore of Okanagan Lake.

The Consultant, along with City staff will continue to refine the detailed design of the UV disinfection facility. It is anticipated that this next phase of the program will be ready for tendering in the Spring of 2008, and will be operational before the Summer of 2009. A grant application was submitted in 2007 for provincial funding under the *Municipal Rural Infrastructure Fund* program. We have not yet received the results of the funding application.

In keeping with the City's objectives for energy sustainability, the Cedar Creek pump station design has incorporated the following components:

- Premium high efficiency motors for the vertical turbine pumps;
  - Heat recovery system for the building ventilation units;
  - A green roof for the pump station building;
  - Use of a "rammed earth" wall, with the goal of using native soil in wall construction;
  - Drought tolerant landscape design;
  - Effective site design principles in the building and site design to suit to existing topography.
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The work to be performed under the Cedar Creek Pump Station contract consists of:

- New wet well and pump station building;
- New high-lift pumps and piping;
- Installation of a sodium hypochlorite disinfection system to replace the chorine gas system;
- Electrical upgrades including a standby generator;
- Construction of shoreline protection fronting the pump station.

In response to the City's Invitation to Tender TE07-14, four (4) bids were received as shown below.

<b>Tenderer</b>	<b>Tendered Price ( Excl GST)</b>
Maple Reinders Inc.	\$6,456,000
Graham Construction and Engineering	\$6,540,560
Western Industrial Contractors	\$6,958,469
NAC Constructors Ltd.	\$8,046,562

Our Consultant has reviewed the bid submission and provided the City with a tender analysis and recommendation. The Maple Reinders Inc. submittal contained no irregularities and complied with the tender specifications.

The construction for the Contract is anticipated to commence in December 2007, and be completed in December 2008. Access to Cedar Creek Park, via the lower parking lot will be restricted during this period, due to the related construction activity in this immediate area.

The costs for pump station construction are within the current budgeted amount and will be shared between the Water Utility and DCC funds.

INTERNAL CIRCULATION TO: N/A

LEGAL/STATUTORY AUTHORITY: N/A

LEGAL/STATUTORY PROCEDURAL REQUIREMENTS: N/A

EXISTING POLICY: N/A

FINANCIAL/BUDGETARY CONSIDERATIONS: N/A

PERSONNEL IMPLICATIONS: N/A

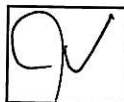
TECHNICAL REQUIREMENTS: N/A

EXTERNAL AGENCY/PUBLIC COMMENTS: N/A

ALTERNATE RECOMMENDATION: N/A

Submitted by:

  
Don Degen  
Water/Drainage Manager



Approval for inclusion  
John Vos  
Director of works & Utilities