

Corporate Report

NO: <u>R100</u>

COUNCIL DATE: MAY 14, 2007

REGULAR COUNCIL

TO: Mayor & Council DATE: May 9, 2007

FROM: General Manager, Engineering PROJECT FILE: 1204-506/21

SUBJECT: Contract Award M.S. 1204-506-21

Clayton Water Pump Station

RECOMMENDATION

The Engineering Department recommends that Council:

- 1. Award Contract M.S. 1204-506-21, to the low bidder, Mitchell Installations Ltd., in the amount of \$5,194,185.88 including GST.
- 2. Set expenditure authorization for Contract M.S. 1204-506-21 in the amount of \$5,455,000.00.
- 3. Receive for information the discussion regarding water supply condition in the Clayton area
- 4. Approve, in principle, the recommended approach to maximize water supply to the Clayton area for the summer of 2007.

BACKGROUND

In late 2003, it was projected that the existing Clayton Pump Station would be approaching capacity in the next few years. The work necessary for planning a replacement pump station commenced at that time.

Due to issues surrounding the optimum location of the station and land acquisition, the detailed design of the replacement pump station could not be commenced until 2006, and tendered until April 2007. In order to extend the service life of the existing station, City staff had made adjustments to our water system over the last 2 years and were successful in reducing the demand on the station by 15%. This allowed the existing pump station to be able to meet the demand in 2005 and 2006. Further network improvements are scheduled in May and early June to improve the supply this summer.

In contrast to these improvements, it is expected that there will be 10% increase in population in the area this year. Without further adjustment of supply and demand, it is anticipated that the existing pump station will not be able to fully provide the peak demand during evening sprinkling hours if the weather pattern this summer (2007) is similar to that of 2006. However, fire protection will be available in all scenarios.

The easiest and conservative way to ensure adequate water supply during peak summer demand is to require lawn auto-sprinklers to be put onto manual operation. We believe that lawn sprinkling can be maintained at a reduced level to minimize the impact to the residents by taking the following actions:

- 1) Reduce the peak demand by requesting there be no automatic lawn sprinkling during peak demand period (i.e., 7 to 10 p.m. on sprinkling days between June and September).
- 2) Increase the pump output by reducing the needed boosting pressure of the water system by approximately 7 pounds per square inch (PSI). Network improvements have reduced the necessary boosting pressure which will increase the output of the pumps by another 10%. Consequently, it is anticipated that the effect on the pressure at the customer's water tap will be minimal.

City staff will send out letters to all residents serviced by the pump station and place advertisements in local newspapers advising residents of the additional sprinkling restriction and the possibility of reduced water pressure for some hot summer days.

SCOPE OF WORK

Contract M.S. 1204-506-21 is for the construction of a replacement Clayton Water Pump Station which, with future minor upgrade, will have the capacity to service the built out development of the Clayton area.

The contract construction period is 200 days, and is scheduled to complete in early 2008 to meet the peak demand in that summer.

Tender Results

Tenders for this contract were received May 8, with results as follows:

	Contractor	Tendered Amount	Corrected Tendered Amount
1.	Mitchell Installations Ltd.	\$5,194,185.00	\$5,194,185.88
2.	Tritech Group Ltd.	5,485,609.61	5,485,609.64
3.	Civil Construction Company	5,529,000.00	No change
4.	GCL Contracting and Engineering Ltd.	5,576,271.36	No change
5.	Mutual Construction Ltd.	5,612,740.40	No change
6.	Kenadian Contracting Ltd.	5,869,962.00	No change
7.	Westport Construction Group Inc.	6,057,670.20	\$6,057,670.37

The Engineer's pre-tender estimate was \$5,250,000.00

EVALUATION

Our consultant reviewed the tenders for accuracy and completeness. All submissions included the required 10% bid bond and were signed and sealed on the Tender Form and Summary Sheet of the Schedule of Quantities and Prices.

The low bidder, Mitchell Installations Ltd., has provided a Consent of Surety for a Performance Bond and a Labour & Materials Bond, and agreed to complete the work within 200 days as stipulated in the contract. Mitchell's past performance on similar work has been satisfactory and they have no outstanding legal claims against the City. We, therefore, recommend Mitchell Installations Ltd. be awarded the work.

FUNDING

Funding is available within the approved Engineering budget.

Paul Ham, P. Eng. General Manager, Engineering

VL/RS:brb:kd2

c.c. - Finance, Technology & HR Dept.

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