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ADMINISTRATIVE REPORT

Report Date: October 26th, 2009
Contact: Vaughn Figueira
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RTS No.: 08376
VanRIMS No.: 08-2000-20
Meeting Date: November 17, 2009

TO: Vancouver City Council

FROM: General Manager of Engineering Services and Manager of Supply Management

SUBJECT: Sewer Pumping Station SCADA Rollout Project, Tender No.PS09166 - Award Recommendation

RECOMMENDATION

- A. THAT, subject to conditions set out in Recommendations B, C, and D, Council authorizes a contract with QCA Systems Ltd. ("QCA") for the Sewer Pumping Station SCADA Rollout Project, in accordance with invitation to Tender No.PS09166 at an estimated cost of \$1,543,531.00 plus applicable taxes for an estimated total of \$1,620,000 with sources of funding as follows:
 - i. \$750,000 from the 2009 Sewers Basic Capital for Upgrading and Replacement of Pump Stations, and
 - ii. \$870,000 from the 2007 Sewers Basic Capital for Upgrading and Replacement of Pump Stations .
- B. THAT, the contract be on such terms and conditions as are satisfactory to the Director of Legal Services, the General Manager of Engineering Services and the Manager of Supply Management.
- C. THAT, upon approval of the contract by the Director of Legal Services and the General Manager of Engineering Services, the Director of Legal Services be authorized to execute and deliver on behalf of the City all legal documents required to implement Recommendation A;
- D. THAT, no legal rights or obligations will be created by the adoption of these Recommendations or at any time after such adoption unless and until the contract and any other required legal documentation has been executed and delivered by the City to QCA Systems Ltd.

GENERAL MANAGER'S COMMENTS

The General Manager of Engineering Services RECOMMENDS approval of A, B, C, and D.

CITY MANAGER'S COMMENTS

The City Manager recommends approval of the foregoing.

COUNCIL POLICY

Contracts valued over \$300,000 must be awarded by Council.

Contracts are awarded on the basis of best value for fee.

PURPOSE

This report recommends that the "Sewer Pumping Station SCADA Rollout Project, Tender No.PS09166" (the "Project") be awarded to the lowest compliant bidder, QCA Systems Ltd. This contract covers the replacement of the existing Sewer Pumping Station Supervisory Control and Data Acquisition (SCADA) system for 23 pumping station sites throughout Vancouver (including one site at the Vancouver Landfill).

This report also seeks approval for an increased capital allocation for this project from unspent 2007 Sewers Capital.

BACKGROUND

The City of Vancouver operates a SCADA system that monitors basic information from twenty six (26) sewage pump stations. The existing SCADA system has become outdated, unreliable and is no longer cost effective. The system requires replacement to ensure City staff receives reliable, timely, and relevant pumping station information to protect public health and the environment.

In April, 2009, the City successfully completed and commissioned a SCADA pilot project for two sites (Nelson Pumping Station and Jericho Pumping Station) that upgraded the current system to a state-of-the-art hardware and software platform. A third site (at the Neighbourhood Energy Utility Heat Plant & Sewage Pumping Station) is expected to be complete by the time the rollout project begins. The subject project involves expanding the newly commissioned SCADA system to include an additional twenty-three (23) pumping station sites.

DISCUSSION

Due to the complex technical nature of this work, a pre-qualification process was implemented in early 2009 for the subject project. On July 16, 2009, Supply Management issued a Request for Expressions of Interest No. PS09144 (the "RFEOI") which closed on August 4, 2009. In addition to notifying known vendors, the RFEOI was publicly posted on the City's and BC Bid's websites. An evaluation team was formed from representatives of Engineering and Supply Management staff. The City received six (6) expressions of interest in response to the call and were evaluated to shortlist the applicants to three (3) firms. On September 14, 2009 the three (3) successful firms were subsequently sent an Invitation to Tender No. PS09166 and asked to submit bids on the subject.

Two of the three successful applicants submitted bids of which only one was found to be in compliance. The compliant tenderer and bid price are as follows:

Compliant Tenderer	Tender Price(excluding tax)
QCA	\$1,543,531.00

The submission from QCA met the City's requirements and was determined to represent good value for the City. QCA has carried out several projects of similar complexity (including the successfully completed City SCADA pilot project) within the Lower Mainland.

Accordingly the evaluation team was unanimous in recommending that QCA be retained for this project.

FINANCIAL IMPLICATIONS

The Project will be administered under a lump sum construction services contract. Lump sums for each tender item will be used to calculate interim progress payments to the contractor.

In June 2009 (RTS 8046), Council approved \$750,000 in funding for this project as part of the 2009 Sewers Basic Capital Budget. At that time, the project budget was considered an estimate based on the initial assessment early in the pilot project.

With the pilot project successfully completed and reviewed in detail the full scope of work for the rollout project was determined and defined in the tender documents. The tendered cost for full scale rollout of SCADA is \$1,543,531.00 plus applicable taxes for an estimated total of \$1,620,000.

Because of significant environmental implications of delaying this necessary work, the SCADA Rollout Project is a high priority project for the City. As the project costs are higher than originally estimated, additional funding of \$870,000 is being requested from the 2007 Sewers Basic Capital Budget, Upgrading and Replacement of Pump Stations. This budget was originally intended for two pump station projects that have not yet been tendered. It is possible that the use of these additional funds may result in the deferral of one of these projects, or the need to reallocate some funding from within the Sewers Basic Capital budget in the future.

ENVIRONMENTAL IMPLICATIONS

The SCADA Rollout Project is required to maintain the proper functioning of the City of Vancouver's wastewater collection infrastructure. Reliable monitoring of sewage pump stations is important to avoid sewage overflows into receiving local water bodies causing environmental damage, risking the public's health and degrading the water body as a public asset.

In addition, Federal Fisheries regulations prohibit the release of deleterious substances such as sewage into fish bearing waters. To comply with these regulations, the City is expected to demonstrate due diligence in minimizing the risk of discharges from its sewage pumping stations, through adequate maintenance and reliable monitoring of the stations.

CONCLUSION

It is recommended that Council award this contract for the Sewer Pumping Station SCADA Rollout Project to QCA Systems Ltd.

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