

CITY OF YUBA CITY
STAFF REPORT

Date: October 21, 2008
To: Honorable Mayor & Members of the City Council
From: Utilities Department
Presented by: Maria C. Solis, Assistant Director of Utilities

Summary

Subject: Award Wastewater Treatment Facility Solids Thickening Improvements Project (Formal Bid Project No. 08-06).

Recommendation:

- a. Award Contract No. 08-06, Wastewater Treatment Facility Solids Thickening Improvements Project to Auburn Constructors Inc. of Sacramento, CA in the low bid amount of \$1,499,300 and authorize Finance Director to perform related budget transfers between Project accounts.
- b. Authorize the City Manager to execute the contract on behalf of the City following approval by the City Attorney not to exceed \$1,724,000.

Fiscal Impact: \$1,724,000 funded from Wastewater CIP accounts:

\$1,499,300 - Wastewater CIP Account No. 981037-65501, Thickening Facility and Expansion Predesign – Construction
\$224,700 - Wastewater CIP Account No. 981037-65504, Thickening Facility and Expansion Predesign - Contingency

Background:

The Wastewater System Master Plan Update was adopted by City Council in December 2005, which included future wastewater treatment and collection system projects to be considered by Council. In December 2005 Council also directed staff to begin engineering design of a new sludge thickening building, two new gravity belt thickeners, and a new odor facility for the sludge thickening process.

RMC Water and Environment (RMC) was given notice to proceed November 2006 to develop an alternatives report, complete engineering design, and ultimately complete the final plans and specifications for the selected sludge thickening alternative. City staff and RMC worked cooperatively to evaluate the five alternatives analyzed within the alternatives report before selecting the final preferred alternative for sludge thickening. As part of the preferred alternative selection process staff also conducted pilot testing in April 2007 to ensure equipment would perform to the specifications required at the Yuba City Wastewater Treatment Facility.

The preferred alternative selected includes two rotary drum sludge thickeners, modification of an existing building to eliminate design of a new sludge thickening building, concrete work, piping installation, pump installation, electrical and instrumentation work, and other miscellaneous work per project plans and specifications.

The Wastewater Treatment Facility Solids Thickening Improvements Project Plans and Specifications were approved and authorization to advertise bid documents was granted by the City Council on August 5, 2008.

Analysis:

The new rotary drum sludge thickeners provide redundancy for two of the unit processes at the Wastewater Treatment Facility, both sludge thickening and dewatering of sludge. Thickening of sludge is conducted prior to transferring sludge to the Digester process unit. Dewatering is performed after the digestion process and prior to solar drying of the sludge. The benefits of the rotary drum system compared to the 35 year old existing sludge thickening process include a 30% reduction in energy consumption, reduced chemical usage by 50%, 75% reduced maintenance and labor costs, process redundancy, and provide an increase in operational efficiency.

The Wastewater Treatment Facility Solids Thickening Improvements Project Plans and Specifications were advertised in August and September 2008. Plans and specification were provided to local builder/contractor exchanges and purchased by 40 contractors/suppliers. On October 1, 2008, 9 bids were received and opened in the City Clerk's office. The bid results were as follows:

Vendor	Bid Amount
Auburn Constructors Inc. Sacramento, CA	\$1,499,300.00
Syblon Reid Construction, Inc. Folsom, CA	\$1,554,000.00
Kaweah Construction Co. Fresno, CA	\$1,766,000.00
Western Water Constructors, Inc. Santa Rosa, CA	\$1,783,000.00
K.G Walters Construction Co. Inc. Santa Rosa, CA	\$1,803,578.00
GSE Construction Co., Inc. Livermore, CA	\$1,863,000.00
Pacific Mechanical Corp. Concord, CA	\$1,912,100.00
Cushman Contracting Corporation, Goleta, CA	\$1,973,000.00
Gantry Constructors, Inc. Clarkdale, AZ	\$1,976,505.00
Engineers Estimate	\$2,100,000.00

Auburn Constructors Inc. of Sacramento, CA is the low bidder. Contract administration and inspection of the project will be performed by Utilities Department staff and RMC Water and Environment staff. Construction is expected to begin January 2009 and will continue through the Fall of 2009.

Fiscal Impact:

The cost of construction for this project is \$1,499,300 based on the approved low bid amount. In addition, a 15% contingency has been added for authorization up to \$1,724,000. The 15% contingency is recommended because of the complexity of this project. This authorized amount will be funded from the following Wastewater Enterprise CIP accounts:

\$1,499,300 - Wastewater CIP Account No. 981037-65501, Thickening Facility and Expansion Predesign - Construction (current total project balance \$2,028,000),
\$224,700 - Wastewater CIP Account No. 981037-65504, Thickening Facility and Expansion Predesign - Contingency (current total project balance \$157,000).

Upon Council's approval of staff's recommendations, the Finance Director will perform a budget transfer between account numbers 981037-65501 and 981037-65504 considering the current Contingency account balance is \$157,000.

PG&E has reviewed the project plans and specifications and has agreed to give the City up to a \$69,589 energy rebate.

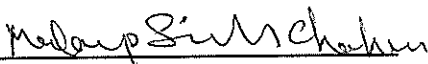
Alternatives:

Do not award the contract and reject the bids. Existing sludge thickening equipment is at the end of its useful life and delay could result in disruption of plant operations and violation of the NPDES permit requirements.


Recommendation:

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Prepared By:

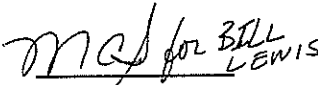

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OK by e-mail
