



# CITY OF SANTA BARBARA

## COUNCIL AGENDA REPORT

**AGENDA DATE:** July 17, 2012

**TO:** Mayor and Councilmembers

**FROM:** Engineering Division, Public Works Department

**SUBJECT:** Contract For Construction For The El Estero Wastewater Treatment Plant Influent Pumps Replacement Project

**RECOMMENDATION:** That Council:

- A. Award a contract with GSE Construction Co. in their low bid amount of \$2,583,700 for construction of the El Estero Wastewater Treatment Plant Influent Pumps Replacement Project, Bid No. 3607;
- B. Authorize the Public Works Director to execute the contract and approve expenditures up to \$258,370 to cover any cost increases that may result from contract change orders for extra work and differences between estimated bid quantities and actual quantities measured for payment;
- C. Authorize the Public Works Director to execute a contract with Brown & Caldwell in the amount of \$178,892 for design support services during construction, and approve expenditures of up to \$17,890 for extra services of Brown & Caldwell that may result from necessary changes in the scope of work; and
- D. Authorize the Public Works Director to execute a contract with Mimiaga Engineering Group in the amount of \$264,000 for construction management services, and approve expenditures of up to \$26,400 for extra services of Mimiaga Engineering Group that may result from necessary changes in the scope of work.

**DISCUSSION:**

### PROJECT DESCRIPTION

The El Estero Wastewater Treatment Plant (El Estero) influent pumps move an average of 8 million gallons of wastewater per day from the headworks screening facility, approximately 70 feet in elevation, to the first of the El Estero treatment tanks, the grit chamber. The pumps are capable of handling wet weather flows in excess of 30 million gallons per day. Three of the existing pumps were installed in the 1970s, and a fourth pump was installed in 2006.

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On December 8, 2009, Council authorized a Professional Services Contract with Brown & Caldwell (B&C) for final design services, which included pump replacement plans and specifications, ventilation improvements, and bid support.

On March 15, 2011, Council authorized an increase in extra services to gather additional information on plant flows and to make design modifications as needed, for fan and duct replacement design, and to conduct an electrical assessment of the existing 900-kilowatt emergency backup generator. Council subsequently authorized a second increase in extra services on March 13, 2012. This was to cover out-of-scope work necessary to revise the drawings and specifications. Staff had identified an opportunity to avoid an estimated \$1.3 million in bypass pumping costs for the construction of the Influent Pumps Replacement Project (IPS Project) by doing additional work as part of the already awarded Headworks Screening Replacement Project (Headworks). The extra services also covered the costs to evaluate the reuse of two existing pump motors, provide odor control, coordinate the motor control center, which will be installed as part of the Headworks Project, and provide additional project management support.

The work generally consists of replacing the four existing influent pumps, shafts and motors, replacement of two existing variable frequency drives, and new ventilation ductwork to replace the existing ductwork.

**CONTRACT BIDS**

A total of 6 bids were received for the subject work, ranging as follows:

	<b>BIDDER</b>	<b>BID AMOUNT</b>
1.	GSE Construction Co. Livermore, CA	\$2,583,700
2.	C.W. Roen Construction Danville, CA	\$2,692,000
3.	Stanek Constructors, Inc. Escondido, CA	\$2,750,000
4.	Spiess Construction Co. Santa Maria, CA	\$2,774,530
5.	Nicholas Construction, Inc. Shafter, CA	\$3,071,000
6.	John Madonna Construction Co. San Luis Obispo, CA	\$3,451,600

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The low bid of \$2,583,700, submitted by GSE Construction Co., is an acceptable bid that is responsive to and meets the requirements of the bid specifications.

The change order funding recommendation of \$258,370, or 10 percent, is typical for this type of work and size of project.

**CONSTRUCTION PHASE CONTRACT SERVICES**

Staff recommends that Council authorize the Public Works Director to execute a contract with B&C in the amount of \$178,892 for design support services during construction, and approve expenditures of up to \$17,890 for extra services that may result from necessary changes in the scope of work. The extra services funding recommendation of 10 percent is typical for this scope of work. B&C designed the IPS Project and their involvement in construction is integral to the Project.

Staff recommends that Council authorize the Public Works Director to execute a contract with Mimiaga Engineering Group (MEG) in the amount of \$264,000 for construction management services with \$26,400 for extra services. The extra services funding recommendation of 10 percent is typical for this scope of work. MEG was originally selected by a Request for Proposal process for the Headworks Project; however, both the Headworks and IPS Projects will be actively in construction at the same time and within the same building. Therefore, MEG was also selected to provide construction management services for the IPS Project.

**FUNDING**

There are sufficient funds in the Wastewater Fund to cover the cost of the IPS Project.

The following summarizes the expenditures recommended in this report:

**CONSTRUCTION CONTRACT FUNDING SUMMARY**

	<b>Basic Contract</b>	<b>Change Funds</b>	<b>Total</b>
GSE	\$2,583,700	\$258,370	\$2,842,070
B&C	\$178,892	\$17,890	\$196,782
MEG	\$264,000	\$26,400	\$290,400
<b>TOTAL RECOMMENDED AUTHORIZATION</b>			<b>\$3,329,252</b>

The following summarizes all Project design costs, construction contract funding, and other Project costs:

**ESTIMATED TOTAL PROJECT COST**

*\*Cents have been rounded to the nearest dollar in this table.*

Design (by Contract)	\$380,394
City Staff Design Costs	\$42,250
<b>Subtotal</b>	<b>\$422,644</b>
Construction Contract	\$2,583,700
Construction Change Order Allowance	\$258,370
Design Support Services during Construction (by Contract)	\$196,782
Construction Management/Inspection (by Contract)	\$290,400
<b>Subtotal</b>	<b>\$3,329,252</b>
Other Construction Costs (permits, etc.)	\$2,755
Construction Project Administration (by City Staff)	\$26,102
<b>Subtotal</b>	<b>\$28,857</b>
<b>TOTAL PROJECT COST</b>	<b>\$3,780,753</b>

**SUSTAINABILITY IMPACT:**

The IPS Project addresses replacement of a critical asset for the City's wastewater treatment process, which protects human health and the environment.

**PREPARED BY:** Joshua Haggmark, Principal Civil Engineer/LA/sk

**SUBMITTED BY:** Christine F. Andersen, Public Works Director

**APPROVED BY:** City Administrator's Office