



# ***Atascadero City Council***

## ***Staff Report – Public Works Department***

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### **Atascadero SCADA System Project Engineering Design Services**

#### **RECOMMENDATION:**

Council authorize the City Manager to execute a contract with Freitas Plus Freitas Engineering and Planning Consultants, Inc., in the amount of \$42,500.00 for Preparation of Technical Specifications and Construction Phase Services for a new Supervisory Control And Data Acquisition system (SCADA) for the City’s wastewater collection system.

#### **DISCUSSION:**

Background: Sanitary sewer services are provided to approximately one-half of the residences and a majority of the businesses within the City limits. The sewer collection system consists of more than 60 miles of laterals, mains, and force mains ranging in size from 4 to 18 inches in diameter and thirteen lift stations that deliver approximately 1.3 MGD to the Wastewater Treatment Plant.

Currently, the only way to monitor the various pumps and electronic equipment at the City’s thirteen lift stations is to physically visit each site. Alarm dialers do alert staff to potential problems such as power failures and increased wet-well levels; however they do not provide information such as flows, pressures, temperatures, and effluent levels. This information can be measured, recorded, controlled with a Supervisory Control and Data Acquisition system (SCADA).

Analysis: SCADA is a computer-monitored alarm, response, control and data acquisition system used to monitor and control wastewater treatment processes and facilities from a central location. The SCADA system will act as the City’s primary detector of lift station malfunctions and directly aids in the prevention of Sanitary Sewer

Overflows as required by the Waste Discharge Requirements (WDR) issued by the State Water Resource Control Board. Installation of a SCADA system is crucial to improve the efficiency of our management of the wastewater collection system and for improved data collection.

Staff mailed Requests for Proposals to ten engineering firms qualified in the design of SCADA Systems on February 4, 2008. The services requested were for the development of technical specifications for a SCADA System incorporating existing control equipment and upgrading current software. In addition, the consultant would be responsible for construction phase consultation to provide clarification as needed and to assure compliance with the design.

On March 6, 2008 three proposals were received. The proposals were evaluated and ranked by a Review Panel. Freitas Plus Freitas Engineering and Planning Consultants, Inc., was found to be the most qualified consultant.

Conclusion: Staff recommends that the City Council authorize the City Manager to execute a contract with Freitas Plus Freitas Engineering and Planning Consultants, Inc. in the amount of \$42,500.00 for the Preparation of Technical Specifications and Construction Phase Services for a new SCADA System for the City's wastewater collection system.

### **FISCAL IMPACT:**

Approval of the agreement for services will result in the expenditure of \$42,500 in budgeted Wastewater Funds.

### **ATTACHMENT:**

Proposal Summary