

CITY OF YUBA CITY  
STAFF REPORT

**Date:** October 7, 2014  
**To:** Honorable Mayor & Members of the City Council  
**From:** Public Works Department  
**Presentation By:** Michael Paulucci, Deputy Public Works Director - Utilities

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**Summary**

**Subject:** SCADA Radio System Improvements

**Recommendation:** (a) Authorize the purchase of radio equipment and professional services to Tesco Controls in the amount of \$78,500 plus \$10,000 contingency with the finding it is in the best interest of the City.

(b) Authorize the Chief Financial Officer to make supplemental appropriations of \$44,500 from Account No. 981105-65501 (Lift Station Improvements) to Account No. 8120-69201 (Equipment) & from Unallocated Water Reserve (Fund 517) to fund Water Treatment Operation Account No. 7120-69201 (Equipment)

**Fiscal Impact:** \$78,500 + \$10,000 Contingency broken down as follows:  
\$44,250 - Account No. 8120-69201 (Sewer - Equipment)  
\$44,250 - Account No. 7120-69201 (Water - Equipment)

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**Purpose:**

To improve the current radio system to enable the Public Works Department to provide reliable, efficient communications to all Public Works water facilities and remote sites.

**Background:**

The City's Public Works Department uses a Supervisory Control and Data Acquisition (SCADA) system of radios, antennas, computers, etc. to remotely monitor and control critical infrastructure processes such as water treatment, water reservoirs, wastewater treatment, collection system lift stations, and storm systems. The current system does not communicate to six lift stations, has areas of poor reception and some equipment has become obsolete and difficult and/or impossible to purchase. The improvements will properly prepare the City to avoid at risk for such things as Sanitary Sewer System Overflows (SSOs), water distribution low pressure events, etc.

**Analysis:**

Public Works staff developed system specifications based upon a professional radio survey conducted and provided by Telstar, Inc. A formal bid was developed and advertised. The City received three bids as noted in the following table:

Vendor	Total Bid
Tesco Controls, Inc. Sacramento, CA	\$ 78,500
Gierlich-Mitchell, Inc. Cypress, CA	\$ 93,750
Telstar Instruments, Sacramento, CA	\$ 129,738

The scope of work includes:

- Adding the equipment necessary to communicate and control 6 sewer lift stations
- Replacing obsolete equipment
- Modifying equipment to improve reception and speed of data transfer

**Fiscal Impact:**

\$78,500 + \$10,000 Contingency broken down as follows:

\$44,250 - Account No. 8120-69201 (Sewer Fund - Equipment)

\$44,250 - Account No. 7120-69201 (Water Fund - Equipment)

**Alternatives:**

Do not proceed forward with SCADA radio improvements at this time.

**Recommendation:**

- Authorize the purchase of radio equipment and professional services to Tesco Controls in the amount of \$78,500 plus \$10,000 contingency with the finding it is in the best interest of the City.
- Authorize the Chief Financial Officer to make supplemental appropriations of \$44,500 from Account No. 981105-65501 (Lift Station Improvements) to Account No. 8120-69201 (Equipment) & from Unallocated Water Reserve (Fund 517) to fund Water Treatment Operation Account No. 7120-69201 (Equipment)

Prepared by:

Submitted by:

*/s/Michael Paulucci*

*/s/Steven C. Kroeger*

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Reviewed by:

Department Head

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Finance

RB

City Attorney

TH