



**CITY OF MARTINEZ**

**CITY COUNCIL AGENDA  
October 2, 2013**

**TO:** Mayor and City Council  
**FROM:** Tim Tucker, City Engineer  
**SUBJECT:** Water Treatment Plant Instrumentation Upgrade  
**DATE:** September 25, 2013

**RECOMMENDATION:**

Adopt resolution allocating \$425,000 of Water Funds to the Water Treatment Plant Instrumentation Upgrade Project.

**BACKGROUND:**

The City Council approved the Water Treatment Plant (WTP) Master Plan in February of 2012. The WTP Master Plan recommends that obsolete instrumentation equipment including programmable logic controllers (PLC's) should be replaced. Replacement parts for obsolete PLC's are becoming more expensive and difficult to find. Work is now being done to replace the original pneumatic filter controls with electronic PLC controls making this a good opportunity to upgrade PLC hardware at the same time to reduce programming costs since the program language for older PLC's is not compatible with the new PLC's.

The WTP Master Plan also recommends replacement of the tone telemetry system with radio communication for the water system's 18 remote sites. A phased approach is being used with six remote locations now converted from tone telemetry to radio communication. This next phase will convert five more locations.

**FISCAL IMPACT:**

Staff proposes to fund the project with \$425,000 of Water Funds from the water system's unrestricted fund balance. The breakdown of the proposed project is detailed below.

<u>Budget</u>	<u>Amount</u>
Filter Control PLC's	\$200,000
Chemical Room PLC	\$50,000
Sludge Press PLC	\$70,000
Radio Communication	\$100,000
Engineering/Inspection	\$5,000
<b><u>Total</u></b>	<b>\$425,000</b>

**ACTION:**

Adopt resolution allocating \$425,000 of Water Funds to the Water Treatment Plant Instrumentation Upgrade Project.

Attachments:  
Resolution

**APPROVED BY:**



City Manager

RESOLUTION NO. -13

ALLOCATE \$425,000 OF WATER FUNDS TO THE WATER TREATMENT PLANT  
INSTRUMENTATION UPGRADE PROJECT

**WHEREAS**, on February 15, 2012 the City Council by motion approved the 2012 Water Treatment Plant Master Plan; and

**WHEREAS**, The 2012 Water Treatment Plant Master Plan recommends that obsolete instrumentation equipment be upgraded; and

**WHEREAS**, in the course of upgrading filter control programs, staff has determined that it would be best to upgrade obsolete PLC hardware now; and

**WHEREAS**, consistent with the Master Plan, staff recommends conversion of a second phase of tone telemetry to radio communication; and

**WHEREAS**, it is deemed in the best interest of the public and the City to implement the Water Treatment Plant Instrumentation Upgrade Project.

**NOW, THEREFORE, BE IT RESOLVED** by the City Council of the City of Martinez that \$425,000 of Water funds are allocated to the Water Treatment Plant Instrumentation Upgrade.

\* \* \* \* \*

**I HEREBY CERTIFY** that the foregoing is a true and correct copy of a resolution duly adopted by the City Council of the City of Martinez at an Adjourned Regular Meeting of said Council held on the 2nd day of October, 2013, by the following vote:

AYES:

NOES:

ABSENT:

RICHARD G. HERNANDEZ, CITY CLERK  
CITY OF MARTINEZ