



DATE: January 27, 2009

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Authorization for the City Manager to Execute a Professional Services Agreement for Evaluation of the City's Cathodic Protection System Evaluation

RECOMMENDATION

That Council adopts the attached resolution authorizing the City Manager to execute a Professional Services Agreement with Corpro Companies, Inc., for consultant services for the Cathodic Protection System Evaluation Project in an amount not-to-exceed \$45,000.

BACKGROUND

The Cathodic Protection System (CPS) is essential in protecting the City's network of pipeline and reservoirs and is constructed to control and reduce corrosion of the steel reservoirs, aqueducts, and water and sewer mains. The CPS currently protects six of the City's reservoirs and approximately 15 miles of pipeline.

A portion of the CPS, called an anode, is positioned in contact with the metal to be protected and is designed to corrode over time to prevent corrosion of other metallic material such as the reservoir and pipeline. These anodes require periodic replacement as a result of normal usage. Additionally, CPS equipment requires regular maintenance and repair to keep the system functioning properly. In order to maintain an optimum level of operation, periodic evaluation of the system is necessary to determine the condition of the equipment, as well as to develop a schedule of necessary maintenance, rehabilitation, and repair.

A Corrosion Control Study to analyze the CPS was last completed in 1997. Staff has determined that another evaluation of the system is now needed to assess the current CPS condition and to develop an appropriate maintenance, rehabilitation, and repair schedule.

DISCUSSION

The specific objective of this project will be to perform an evaluation that will identify deficient, damaged, or non-operating components of the CPS. If the investigation reveals areas in need of immediate attention and repair, those areas will be identified in the report and repair work will be performed afterward. The report from the evaluation will also make recommendations for periodic

maintenance, repair or rehabilitation, and improvements and will provide cost estimate for each recommendation.

Two water transmission pipelines, the West Winton 30-inch and Mission 24-inch aqueducts, are not currently cathodically protected. As part of this project, a review of these pipelines will be performed to determine their conditions, and recommendations for corrosion control will be provided.

On November 13, 2008, Requests for Proposals to provide consultant services for the Cathodic Protection System Evaluation Project were sent to four engineering consultants. On December 5, 2008, proposals were received from three consultants: Corrpro Companies, Inc., JDH Corrosion Consultants, and V&A Consulting Engineers. Corrpro Companies, Inc. was found to be the best qualified to perform the work based on its comprehensive approach in evaluation of the City's CPS, extensive experience with similar corrosion projects, and the lowest proposal cost. Therefore, staff recommends that the City Manager execute a professional services agreement with Corrpro Companies, Inc. for consultant services for the Cathodic Protection System Evaluation Project.

FISCAL AND ECONOMIC IMPACT

The estimated project costs are as follows:

Consultant Services	\$ 45,000
Cathodic Protection System Repair	100,000
Contract Administration	<u>15,000</u>
Total:	\$ 160,000

The FY 2009 Capital Improvement Program (CIP) includes \$300,000 for the Cathodic Protection System Evaluation Project in the Water System Replacement Fund.

PUBLIC CONTACT

Not applicable.

SCHEDULE

The estimated schedule for this project is summarized as follows:

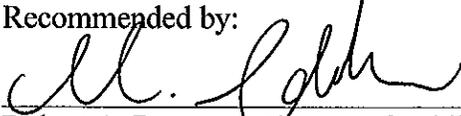
Begin Evaluation	February 2009
Complete Evaluation	June 2009

Prepared by:



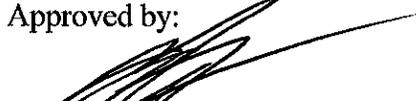
Alex Ameri, Deputy Director of Public Works

Recommended by:



Robert A. Bauman, Director of Public Works

Approved by:



Gregory T. Jones, City Manager

Attachment: Exhibit A: List of City's Cathodically Protected Facilities
Draft Resolution

CITY'S CATHODICALLY PROTECTED FACILITIES

1. The 1530 Highland Reservoir (2.89 MG)
2. The 1285 Highland Reservoir (1.8 MG)
3. Garin Hill Reservoir (1.25 MG)
4. The South Walpert Reservoir (5.3 MG)
5. The 1000 Highland Reservoir (1.0 MG)
6. The 750 highland Reservoir (4.4 MG)
7. Hesperian 42-inch Aqueduct-South (7.45 miles)
8. Hesperian 33-inch Aqueduct-North (2.8 miles)
9. The Industrial 24" Aqueduct (2.46 miles)
10. The Valle Vista 27" Sanitary Sewer Force Main (1.99 miles)
11. The 42-inch welded steel pipe at the Water Pollution Control Facilities (630 feet)

