



City Council Report

Date: October 19, 2015
To: City Council
Through: Kari Kent, Assistant City Manager
From: Beth Huning, City Engineer
Rob Kidder, Assistant City Engineer
Subject: Greenfield Water Reclamation Plant (GWRP), Odor Control Expansion
City Project No. C10335
Council District N/A (Gilbert)

Strategic Initiatives



Purpose and Recommendation

The purpose of this report is to provide information to the Council concerning the results of the bids received for the Greenfield Water Reclamation Plant – Odor Control Expansion Project (See Exhibit “A” for the project location).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, Archer Western Construction LLC, in the amount of \$2,259,000, and authorize a change order allowance in the amount of \$225,900.

Background

The Greenfield Water Reclamation Plant (GWRP) is located at 4400 South Greenfield Road in Gilbert, Arizona. The GWRP is jointly owned by the City of Mesa, the Town of Gilbert, and the Town of Queen Creek through an Intergovernmental Agreement (IGA). The IGA gives the City of Mesa the authority to operate and maintain the Plant and provides guidelines for the City of Mesa to be reimbursed by Gilbert and Queen Creek for Plant Improvements. For this project, the City of Mesa will receive 39.8% reimbursement from the Town of Gilbert and 18.4% reimbursement from the Town of Queen Creek.

Discussion

This project includes the installation of an additional odor control scrubber unit and associated supporting infrastructure at the GWRP. Other improvements include replacing the Plant’s aging chemical feed system and storage tanks, and re-lining the existing chemical containment areas. A new and larger shade canopy will be installed over the Plant’s chemical containment areas to help protect the new improvements from the elements, particularly UV damage.

The City of Mesa currently uses three odor control scrubber units to mitigate odors generated at the Plant in order to be in compliance with State and County regulations. A fourth scrubber unit will be installed at the Plant in the project to provide much needed redundancy in case one of the existing odor control units fails or needs to be taken offline for maintenance. At this time, the Plant Staff is unable to take an existing scrubber out of service for the duration needed to properly clean and maintain the unit per manufacturer's recommendations. This lack of maintenance reduces the scrubber's odor control efficiency and service life. An additional benefit of the new scrubber will be increasing the Plant's odor control capacity since the redundant unit will be in continuous operation.

Once underway, the construction of this project is anticipated to last no more than 8 months.

Alternatives

One alternative would be to not construct the proposed odor control improvements at the Greenfield Water Reclamation Plant. However, this is not recommended since it may expose the City to risk should the existing units and support equipment (which are near the end of their service life) to fail and leave the Plant with inadequate odor removal capacity.

Fiscal Impact

The total authorized amount recommended for this project is \$2,484,900, based upon the lowest responsible bid of \$2,259,000, plus an additional \$225,900 (10%) as a change order allowance. This allowance will only be utilized as an approved change order allowance.

Funding for this project is available in the 2010 Wastewater Bond Authorization. For this project, the City of Mesa will be reimbursed 39.8% by the Town of Gilbert and 18.4% by the Town of Queen Creek.

Coordinated With

The Water Resources Department concurs with this recommendation. Additional coordination is being conducted with the Towns of Gilbert and Queen Creek as partners in the Greenfield Water Reclamation Plant Intergovernmental Agreement dated June 22, 2004.

CITY OF MESA
MESA, ARIZONA

Greenfield Water Reclamation Plant Odor Control Expansion Project

PROJECT NO. C10335

Tabulation of Bids Received, Thursday, September 3, 2015 at 1:00 P.M.

ENGINEER'S ESTIMATE	\$2,346,770.00
1. Archer Western Construction LLC	\$2,259,000.00
2. Hunter Contracting Co.	\$2,372,160.00
3. Currier Construction, Inc.	\$2,417,790.00
4. MA Mortenson Company	\$2,449,000.00