

City Council Regular Meeting**Meeting Date:** 05/02/2016**Recommended by:** Kevin Louis**Prepared by:** Kim Dunn, Civil Engineer**Finance Director Review:** Doug Sandstrom**City Attorney Review:** Brett Wallace**Approved by:** Jim Thompson**Date Submitted:** 04/07/2016**Type of Action Requested:** Ordinance**SUBJECT:****Authorize Purchase of one (1) APUIX Package Treatment System for Nitrate Reduction for the Copper Mountain Ranch Water System.****RECOMMENDATION:**

Staff recommends the Mayor and City Council approve a purchase of one (1) APUIX Packaged Treatment System for Nitrate Reduction from AdEdge Water Technologies, LLC (AdEdge) in an amount not to exceed \$206,533.

DISCUSSION:

The Copper Mountain Ranch Public Water System is owned and operated by the City of Casa Grande. This system contains Nitrate levels in exceedance of the permitted levels for drinking water. This exceedance has resulted in the City entering into a Consent Order with the Arizona Department of Environmental Quality (ADEQ) regarding this issue. The agreement requires that a treatment system be installed to reduce the level of nitrates contained in the drinking water distributed in the system.

This request is for the purchase of one (1) APUIX Package Treatment System for Nitrate Reduction for the Copper Mountain Ranch Water System to bring the water system into compliance with our permitted level for nitrates.

In order to design an appropriate treatment system, Sunrise Engineering, Inc. (SEI) was selected to provide the necessary professional consulting services for this project. As part of these services, SEI investigated and evaluated available technologies, vendors, and systems to identify the most appropriate system to be used.

Consideration was also given to ensuring that the system selected would meet the requirements of ADEQ, as it must be approved and permitted by them as a requirement of the Order.

This analysis, including evaluation of pricing as well as maintenance and operating costs provided by multiple vendors, identified the AdEdge system as the most appropriate for this project. Staff reviewed this evaluation and concurred with SEI's recommendation. Based upon the proposed treatment system, SEI produced the final design documents and submittals required, and received approval of this system and the proposed improvement plans from ADEQ.

This purchase will provide for the package treatment system equipment, fabrication of the system, submittal material necessary for permitting, shipping, commissioning plan, coordination with installation, start up and commissioning, operator training and O&M Manuals.

FISCAL IMPACT:

Staff budgeted \$275,000 for this project in this FY within account 550-21-220-100-8306-15039.

ALTERNATIVES:

Seek other treatment options or deny request which would result in a violation of the terms of the Consent Order with ADEQ.

Attachments

[AdEdge Ordinance](#)

[AdEdge Proposal](#)
