



Legislation Text

File #: 2018-872, Version: 1

GLWA-CON-281

Southwest Water Treatment Plant High Lift Pump Discharge Valve Actuators Replacement and HLP System Modification

Agenda of: August 22, 2018
Item No.: **2018-872**
Amount: \$5,271,632.00

TO: The Honorable
Board of Directors
Great Lakes Water Authority

FROM: Sue F. McCormick
Chief Executive Officer
Great Lakes Water Authority

DATE: August 1, 2018

RE: **Contract No. GLWA-CON-281**
Southwest Water Treatment Plant High Lift Pump Discharge Valve Actuators
Replacement and HLP System Modification
Vendor: Weiss Construction Co., LLC

MOTION

Upon recommendation of Cheryl Porter, Chief Operating Officer - Water and Field Services, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Chief Executive Officer (CEO) to **enter into Contract No. GLWA-CON-281 "Southwest Water Treatment Plant High Lift Pump Discharge Valve Actuators Replacement and HLP System Modification" with Weiss Construction Co., LLC, at a cost not to exceed \$5,271,632.00 for a duration of three (3) years and one (1) month;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

GLWA's Southwest Water Treatment Plant (SWWTP) is one of five water treatment facilities. The existing oil-hydraulic system is leaking and at the end of its service life. The leaking system poses safety concerns and replacement is needed. A study to determine the best solution for this system's replacement was initiated in June of 2015 under contract number SCP-CS-1653 "Evaluation of Alternatives for New High-Lift Discharge Valve Actuators at the Southwest Water Treatment Plant". The SCP CS 1653 study was completed in January 2016 with the recommendation of replacing the existing oil-

hydraulic system complete with electric motor actuators. The design for the new actuators and additional improvements was performed and completed under contract number GLWA-CS-034 "High Lift Pump Discharge Valve Actuators Replacement at Southwest Water Treatment Plant".

JUSTIFICATION

The existing oil hydraulic system for the valve actuators on the discharge of the high lift pumps located at the SWWTP needs replacement. This system is exhibiting excessive leaking of hydraulic oil that collects along the existing floor. These leaks cause equipment shutdowns and increased maintenance and repair. Furthermore, spare parts are difficult to obtain.

The system is in an area that delivers finished water and most of the valves and pumps are more than sixty years old and at the end of its service life. While leaks within oil hydraulic system have not caused water quality issues to date, it was determined that elimination of the potential for leaks to reach the finished water is prudent.

FINANCIAL PLAN IMPACT

Summary: Sufficient funds are provided in the financial plan for this project.

Funding Source: Water Construction Bond

Cost Center: Water Engineering

Expense Type: Construction (5519-882111.000-616900-113002)

Estimated Cost by Year and Related Estimating Variance: See table below.

Fiscal Year	Amount
FY 2019 Budget	\$ 1,100,000
FY 2020 Budget	2,800,000
FY 2021 Budget	<u>1,100,000</u>
Financial Plan Estimate	\$5,000,000
Proposed Contract Award	<u>5,271,632</u>
Negative Estimating Variance	\$ (271,632)

SAVINGS, COST OPTIMIZATION, AND REVENUE ENHANCEMENT IMPACT

This project replaces existing oil hydraulic high lift valve actuators as identified from a study completed in January 2016. Cost savings are not determinable at the time of this award.

The award of this contract to the lowest, qualified bidder creates a negative estimating variance of \$271,632. This variance will be funded from capital reserves.

Project estimate	\$5,000,000
Proposed award	<u>\$5,271,632</u>
Capital reserve adjustment	\$(271,632)

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on August 8, 2018. The Operations

and Resources Committee unanimously recommended that the GLWA Board adopt the resolution as presented.

SHARED SERVICES IMPACT

This item does not impact the shared services agreement between GLWA and DWSD.