



Legislation Text

File #: 2019-227, Version: 1

GLWA-CON-238

Chlorination and Dechlorination Process Equipment Improvements at the Water Resource Recovery Facility (WRRF)

CIP#/BCE Score: 212004 / 81.6

Agenda of: June 26, 2019

Item No.: **2019-227**

Amount: \$5,282,369.00

TO: The Honorable
Board of Directors
Great Lakes Water Authority

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

DATE: June 7, 2019

RE: **Contract No. GLWA-CON-238**
Chlorination and Dechlorination Process Equipment Improvements at the Water Resource Recovery Facility (WRRF)
Vendor: Weiss Construction Co., LLC

MOTION

Upon recommendation of Navid Mehram, Chief Operating Officer - Wastewater Operating 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-238, "Chlorination and Dechlorination Process Equipment Improvements at the Water Resource Recovery Facility (WRRF)" with Weiss Construction Co., LLC, at a cost not to exceed \$5,282,369.00 for a duration of 630 calendar days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

The Chlorination and Dechlorination Facility is located at 9401 W. Jefferson, across the street from the WRRF complex. Disinfection of the treated wastewater and the subsequent removal of the disinfectant occurs at this site as required by the National Pollutant Discharge and Elimination System (NPDES) permit prior to discharging to receiving water body. The facility has (16) chlorinators, (14) sulfonators, (30) evaporators, water booster pumps, and associated valves and piping. The scope of work involves the replacement of all major equipment necessary for effective disinfection and dechlorination of the facilities effluent from the Detroit River Outfall.

During the award phase of the project, the team recognized the successful commissioning of the Rouge River Outfall Project justifying an opportunity for the GLWA team to re-evaluate the scope of this project. During the re-evaluation phase the operations, maintenance and the engineering team found saving opportunities by reducing the number of chlorinators and sulfonates and associated evaporators originally included in the scope while maintaining compliance with our regulatory requirements and our permit.

The team concluded that only (10) of the (16) chlorinators and (8) of the (14) sulfonators and (18) of the (30) evaporators and vacuum regulators are necessary to move forward under this contract.

JUSTIFICATION

The equipment condition located at the facility has reached its useful life due to exposure to corrosive characteristics of the chemicals utilized in operations. The facility must operate to meet federal and state regulatory requirements per the WRRF's NPDES permit. The facility also needs to operate safely and efficiently to meet capacity requirements and protect GLWA team members.

The GLWA team evaluated the operational demand of the system and recognized an opportunity to minimize the number of units needed to meet federal and state regulatory requirements while right-sizing our assets.

FINANCIAL PLAN IMPACT

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

Funding Source: Wastewater Construction Bond

Cost Center: Wastewater Engineering

Expense Type: Construction (5421-892211.000-616900-212004)

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

Fiscal Year

FY 2019 Plan	\$ 859,000.00
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FY 2020 Plan	2,142,000.00
FY 2021 Plan	1,585,000.00
Financial Plan Estimate	\$ 4,586,000.00
Proposed Contract Award	<u>5,282,369.00</u>
Negative Estimating Variance	(\$ 696,369.00)

A budget amendment will adjust the negative estimating variance from Capital Reserves.

SAVINGS, COST OPTIMIZATION, AND REVENUE ENHANCEMENT IMPACT

Through right-sizing of the Chlorination and Dechlorination units, GLWA was able to negotiate with Weiss Construction Co., LLC and savings of \$1,662,816.00 for the system.

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on June 12, 2019. 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.