



Legislation Text

File #: 2022-562, Version: 1

Contract No. 2200061
Design Services of CSO Facilities Improvements

Agenda of: December 14, 2022

Item No.: **2022-562**

Amount: \$5,176,820.93

TO: The Honorable
Board of Directors
Great Lakes Water Authority

FROM: Suzanne R. Coffey, P.E.
Chief Executive Officer
Great Lakes Water Authority

DATE: December 2, 2022

RE: **Contract No. 2200061**
Design Services of CSO Facilities Improvements
Vendor: Hazen and Sawyer

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. 2200061, "Design Services of CSO Facilities Improvements" with Hazen and Sawyer, at a cost not to exceed \$5,176,820.93 for a duration of 1,825 days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

The project combines three (3) separate CIP projects for CSO improvements into a single design contract for efficiency and expedience. St. Aubin Screening and Disinfection Facility (SDF) - Disinfection, Screening, and Miscellaneous Improvements (CIP #260617), CSO Facility Safety Improvements and Building Rehabilitation (CIP #270005) for the nine (9) CSO facilities, and Control System Upgrades at Baby Creek and Belle Isle CSO Facilities (CIP #270006).

The design of the required improvements is based on CSO Facilities Assessment Report on the multi-disciplinary assessment prepared by Jacobs on April 9, 2021, in combination with the Hazen & Sawyer October 2019 assessment report done on the St. Aubin SDF system. This facility has been in operation since 2002. St. Aubin CSO facility receives wastewater flow from the Chene, DuBois, and St. Aubin sewers. The facility was designed to screen and disinfect up to 250 cubic feet per second (CFS) of CSO before discharging into the Detroit River via the effluent outfall structure. The requested work includes, but is not limited to, improvements/upgrades of the sodium hypochlorite storage and supply

system, chemical storage tanks, bar screens, heating, ventilation, and air conditioning, electricals, instrumentation and control (I&C) systems.

JUSTIFICATION

The work of this project requires Hazen and Sawyer to provide comprehensive engineering, design, permitting, bidding, construction administration, project management, and project closeout under a single set of construction documents for the project described in the Background of this document. More specifically, each project includes the following improvements:

CIP #260617 will improve the chemical feed system, screen system, HVAC systems, electrical power, lighting and building systems, instrumentation and controls, access hatches, and storage space needs at the St. Aubin Facility along with other miscellaneous improvements.

CIP #270005 will consist of structural and safety improvements at nine (9) CSO facilities, including Belle Isle CSO Facility. Structural improvements consist primarily of architectural caulking, sealing, painting and other building maintenance tasks. The safety improvements consist of, but not limited to, fall protection improvements, exit sign improvements, eyewash, and emergency shower improvements.

CIP #270006 will implement a series of lighting and instrumentation and control system improvements intended to improve operation reliability as well as to address operation, maintenance and safety issues at the Belle Isle and Baby Creek CSO facilities. Under this project, the Ovation control system will be updated to the latest version that will enhance the overall performance of these facilities. Additional lighting will be provided at selected locations at both the facilities to improve worker safety. At Belle Isle, remote control operation of Belle Isle from the Conner Creek Facility will be provided to improve operational efficiency during CSO events. In addition, at Belle Isle, remote control for valves in valve vaults will be provided with the control above-ground to improve operation and provide safe working conditions.

FINANCIAL PLAN IMPACT

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

Funding Source: Sewer Construction Fund

Cost Center: Wastewater

Expense Type: Construction (5421-892211.000-617950-270006)

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

Fiscal Year

FY 2023 Plan	\$406,000.00
FY 2024 Plan	\$576,000.00
FY 2025 Plan	\$604,000.00
FY 2026 Plan	\$362,000.00
FY 2027 Plan	\$251,000.00

FY 2028 Plan	\$207,000.00
Financial Plan Estimate	2,406,000.00
Proposed Contract Award	\$5,176,820.93
Estimating Variance	(\$2,770,820.93)

The amounts above are per the FY2023-2027 CIP Plan for 260617, 270005, and 270006 Design Budget. A budget amendment will be prepared to adjust the Capital Reserves to allow for alignment of planned spending.

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on December 14, 2022. 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. However, there will be a cost sharing agreement between GLWA and DWSD, which will memorialize the scope and payment terms for the work at the Belle Isle Facilities.