



## Legislation Text

---

File #: 2020-151, Version: 1

---

### Contract No. 1802499

### Professional Engineering Services for Water Works Park Water Treatment Plant HVAC System Improvements

CIP# 115005 / BCE Score: 76

Agenda of: May 27, 2020  
Item No.: **2020-151**  
Amount: \$1,350,000.00

**TO:** The Honorable  
Board of Directors  
Great Lakes Water Authority

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

**DATE:** May 1, 2020

**RE:** **Contract No. 1802499**  
**Professional Engineering Services for Water Works Park Water**  
**Treatment Plant HVAC System Improvements**  
**Vendor: HDR Michigan, Inc.**

### 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. 1802499 “Professional Engineering Services for Water Works Park Water Treatment Plant HVAC System Improvements” with HDR Michigan, Inc., at a cost not to exceed \$1,350,000.00 for a duration of 1,290 days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

## **BACKGROUND**

Contract No. 1802499 is a professional engineering services contract that involves the design, construction administration and resident project representation services related to improving the heating, ventilating and air-conditioning (HVAC) system in chemical storage and process areas of the Water Works Park Water Treatment Plant (WWP). During the condition assessment conducted at WWP under a separate contract (Contract No. CS-147), deficiencies with the existing HVAC system in the aforementioned areas were identified. These deficiencies include but are not limited to poor mechanical venting, poor air distribution, limited instrumentation and control, limited warning alarms, and limited integration with the Ovation Supervisory Control and Data Acquisition System.

The purpose of this project is to improve the existing HVAC system so that it meets current codes, standards and best practices for management of indoor air quality. The main rooms where HVAC improvements will be made include the following: a) fluoride storage room, b) phosphoric acid storage room, c) sodium bisulfite storage room, d) ozone generator room, e) ozone destruct room, g) aluminum sulfate bulk storage room, h) aluminum sulfate day tank room, i) pilot plant rooms, j) filter operating galleries, k) flocculation and sedimentation rooms, and l) other smaller miscellaneous rooms. The construction of the HVAC improvements will be performed under a separately procured construction contract.

## **JUSTIFICATION**

The existing HVAC system does not provide adequate HVAC in several key areas of the plant, including chemical storage and process rooms where chemical off-gassing can occur. Improvement of the HVAC systems, particularly the ventilation system is needed to prevent the accumulation of chemical gases in occupied areas.

## **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 (5519-882111.000-617950-115005)

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

Fiscal Year

FY 2020 Budget	\$ 1,614,000.00
FY 2021 Budget	1,999,000.00
FY 2022 Budget	2,004,000.00
FY 2023 Budget	618,000.00

FY 2024 Budget	<u>63,000.00</u>
----------------	------------------

Financial Plan Estimate	\$ 6,298,000.00
-------------------------	-----------------

Proposed Contract Award	<u>1,350,000.00</u>
-------------------------	---------------------

Positive Estimating Variance	\$ 4,948,000.00
------------------------------	-----------------

### **SAVINGS, COST OPTIMIZATION, AND REVENUE ENHANCEMENT IMPACT**

This project provides for the design on HVAC improvements at Water Works Park. Cost savings are not determinable at the time of award.

### **COMMITTEE REVIEW**

This item was presented to the Operations and Resources Committee at its meeting on May 13, 2020. 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.