



## Legislation Text

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**File #:** 2019-361, **Version:** 1

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### **Contract No. 1803942**

### **Downriver Transmission Main Loop**

### **CIP# 122016 / BCE 57.4**

**Agenda of:** October 31, 2019

**Item No.:** **2019-361**

**Amount:** \$4,644,631.17

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

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

**DATE:** October 2, 2019

**RE:** **Contract No. 1803942**  
**Downriver Transmission Main Loop**  
**Vendor: OHM and WSP, A Joint Venture**

### **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. 1803942 "Downriver Transmission Main Loop" with OHM and WSP, A Joint Venture, at a cost not to exceed \$4,644,631.17 for a duration of five (5) years and six (6) months;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

### **BACKGROUND**

Contract No. 1803942 (CIP No. 122016) is a professional engineering services contract that involves the design, construction administration, and resident project representation services related to the installation of approximately 14 miles of new water transmission main consisting of 30-inch, 24-inch, and 16-inch diameter pipes located between Wick Road and Ready Road. The new main will be connected to the existing transmission main in the proximity of Wick Road, Pennsylvania Road, Van Horn Road, Woodruff Road, and Ready Road.

In the GLWA 2015 Water Master Plan Update (WMPU), several areas in the transmission system were noted as needing

improvements in redundancy. In many cases, these redundancy concerns centered on the issue of single-feed transmission systems with no redundancy. One of the longest single-feed water transmission systems identified in the WMPU is an existing single 54-inch water transmission main in southern Wayne County that serves nearly 150,000 people. This existing transmission main was installed in 1962 and is constructed of prestressed concrete embedded cylinder pipe (PCCP). This single-feed transmission main is approximately 12 miles long, is fed from GLWA's Southwest Water Treatment Plant, and serves the following 10 downriver member partner communities, including: Riverview, Brownstown Township, Trenton, Woodhaven, Grosse Ile Township, Gibraltar, Flat Rock, Rockwood, South Rockwood, and Berlin Township. Construction of the new water transmission main will create a looped water transmission system for these downriver communities, thereby eliminating the single-feed and providing a redundant feed to this area.

### **JUSTIFICATION**

At present, nearly 150,000 people in 10 member partner communities are served by a single, non-looped ("dead-end") water transmission main that is 57 years old and constructed of PCCP. A catastrophic failure of this "dead-end" main would result in a major, multiple-day water service disruption and boiled water notice to a large population that includes schools, hospitals, day-care centers, commercial establishments, and major manufacturing. Implementation of this proposed design and construction phase services contract is the start to looping this transmission system and providing the necessary redundant service to the aforementioned downriver communities.

### **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 (5519-882411.000-617950-122016)

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

#### Fiscal Year

FY 2020 Budget	\$ 276,000.00
FY 2021 Budget	934,000.00
FY 2022 Budget	801,000.00
FY 2023 Budget	931,000.00
FY 2024 Budget	<u>1,058,000.00</u>
Financial Plan Estimate	\$4,000,000.00
Proposed Contract Award	<u>4,644,631.17</u>
Negative Estimating Variance	(\$ 644,631.17)

This negative estimating variance to be funded from capital reserves.

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

The 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 October 9, 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.