



"The Best Waterfront City in Which to Live, Work And Play."

CITY OF RIVIERA BEACH

TO: HON. MAYOR, CHAIRPERSON, AND BOARD MEMBERS

FROM: JONATHAN BATISTA, ACTING DIRECTOR

SUBJECT: HOLTZ CONSULTING ENGINEERS WELL CONDITION ASSESSMENT

DATE: NOVEMBER 18, 2020

CC: GENERAL PUBLIC

Background:

The City of Riviera Beach Utility Special District (USD) obtains all of its raw water supply from the surficial aquifer system via two active wellfields. The Eastern wellfield contains 17 wells and the western 11 wells. The eastern wellfield is generally older than the western, wherein Well No. 7 was the first well drilled in 1965, whereas the first well drilled in the western wellfield was 1984.

In the 2013 Water and Wastewater Master Plan by Hazen and Sawyer, wellfield improvement recommendations were provided. On June 22, 2018, BFA Environmental Consultants provided a Technical Memorandum regarding the condition of the wellfields and recommended improvements. In 2018 the wellfields were reported to be at 38% design capacity, 9.6 MGD out of 25.5 MGD, due to inoperable wells and poor performing wells. Since 2018 many improvements have been made to the wellfields, including replacing of pumps, to improve the design capacity of the water supply. Still, deficiencies remain in the system, such as some wells operated manually and five have been out of service for years. Therefore, USD is interested in a comprehensive plan to completely rehabilitate the wellfields and address outstanding issues.

The Utility Special District (USD) has a Continuing Engineering Services Contract with Holtz Consulting Engineers, dated July 16, 2018. Holtz provided a proposal to identify the outstanding issues with the existing wellfields, prioritize improvements, and provide cost estimates of the improvements. USD can then use this information to update the Capital Improvement Program budget to accurately reflect level of investment planned for the water supply system and retain contractors to carry out the improvements.

City Goals:

The Citywide Goal: Accelerate operational excellence.

Fiscal/Budget Impact:

This is a budgeted expenditure, Project Account No. 21017. Project cost not to exceed \$89,055.

Recommendation:

Staff recommends that the Board approve the Holtz Well Condition Assessment to establish a framework to completely rehabilitate the water supply system.

Attachments:

Resolution 21-20UD
Wellfield Proposal
Holtz Contract
Project area drawing