

Indian River County, Florida  
Department of Utility Services  
Board Memorandum

**Date:** October 7, 2019  
**To:** Jason E. Brown, County Administrator  
**From:** Vincent Burke, PE, Director of Utility Services  
**Prepared By:** Terry Southard, Operations Manager  
**Subject:** Work Order No. 23 with Kimley-Horn for Bulk Caustic Tank Replacement at North (Hobart) County Reverse Osmosis Water Treatment Plant

**Descriptions and Conditions:**

Indian River County Department of Utility Services (IRCDUS) operates the North (Hobart) County RO Water Treatment Plant (WTP) located at 7751 58<sup>th</sup> Avenue in Vero Beach.

Hobart was built in 1998 and expanded in 2007. As part of the 1998 plant construction, a 5,000- gallon caustic chemical tank was installed for daily water production. The typical service life for this type of a tank is 10 to 15 years. An inspection of the 21-year-old tank in August found the interior lining of the tank has failed; therefore, the tank needs to be replaced.

**Analysis:**

In August 2019, staff hired a company called Tank Engineering to inspect the interior of the existing caustic chemical tank. The inspection found the interior lining is failing, necessitating replacement of the tank. Kimley-Horn and Associates (KHA) submitted a proposal for professional engineering services to review the existing tank and the piping, and to provide options for replacement of the tank. As part of the proposal, they will also review caustic consumption and size the tank capacity accordingly.

Per the Continuing Consulting Engineering Services Agreement for professional engineering services dated April 17, 2018, KHA submitted a proposal for design, bidding assistance and construction management services. KHA has submitted Work Order No. 23, which includes professional services for review, design, bidding and construction phase assistance to replace the existing caustic tank. The total negotiated cost for the professional services is a sum amount of \$22,000.00.

The engineer’s estimated construction cost for these improvements covered in the Scope of Work for Work Order No. 23 is approximately \$80,000.00.

**Funding:**

Funds for this project are available in the operating capital budget. Operating funds are generated from water and sewer revenues.

Description	Account Number	Amount
Other Equipment	471-166002	\$22,000.00

**Recommendation:**

Staff recommends that the Board of County Commissioners approve Work Order No. 23 with Kimley-Horn, in the amount of \$22,000.00, for professional services to include design, bidding and construction phase assistance to replace the existing caustic chemical tank at the North (Hobart) County Water Treatment Plant, and authorize the Chairman to execute said work order on their behalf.

**Attachment(s):**

1. Work Order No.23: Bulk Caustic Tank Replacement (3 Pages)