

**Indian River County, Florida
Department of Utility Services
Board Memorandum**

Date: January 28, 2022

To: Jason E. Brown, County Administrator

From: Cindy Corrente, Interim Director of Utility Services

Prepared By: Terry Southard, Operations Manager

Subject: Replacement of Well S-1 at the South County Water Treatment Plant

Background:

Indian River County Department of Utility Services (IRCDUS) owns and operates a well-field in South County that consists of seven (7) Floridan supply wells that are the raw water supply and water source for the South County Reverse Osmosis (SCRO) water treatment plant (WTP). This well-field is the only water supply for the plant and maintaining it is critical to the sustainability of the water system.

On June 8, 2021, the Indian River County Board of County Commissioners (BCC) approved an agreement with All Webbs Enterprises, Inc., (All Webbs) to explore other water uses so as to not impact existing legal users (ELUs), as required by the St. Johns River Water Management District (SJRWMD) regulations. All Webbs was to deepen well S-1 at the SCRO WTP and well N-7 at the North County Reverse Osmosis (NCRO) water treatment plant (WTP).

The particular wells were selected based on their age and deteriorating water quality. Well S-1 was forty years old. The quality of water from it was diminishing. That is not unexpected for a well of that age. During the initial phase of drilling to deepen S-1, the well collapsed with sand filling the well from behind the casing. Upon investigation deeper into the well with a camera, it became apparent that the damage was so significant that the well was not salvageable. Therefore, well S-1 had to be plugged and the appropriate documentation was sent to SJRWMD.

Analysis:

Since maintaining the well-field and all 7 wells is critical to the sustainability of the water system, staff requested that Kimley-Horn and Associates (KHA) prepare a proposal for the survey, design, permitting, and construction services to replace well S-1 with a new Floridan aquifer supply well. KHA provided a preliminary estimate of \$1.4 million to replace the well. Construction of a raw water main from the new well to treatment plant will be required too. The preliminary estimate for the main is \$200,000. KHA has provided Work Order No. 8, which is in accordance with the Agreement for Professional Services for Water Plant and Water Resources Engineering Services - Request for Quote (RFQ) 2019070 dated November 5, 2019. The scope of work is more specifically described in the attached work order. The total negotiated cost for Work Order No. 8 is \$222,511.

Funding:

Since the expenses related to replacing well S-1 will be an operating capital expense, staff will be seeking approval to utilize operating cash balance to cover the expenses. The expenses will be recorded in the Utilities operating capital account number 471-169000-22503, Utilities/South WTP Well S-1. At this time the estimated expenses total \$1,822,511. Utility operating funds are derived from water and sewer sales.

Description	Account Number	Amount
Utilities/South WTP Well S-1 (well and piping)	471-169000-22503	\$1,600,000
Utilities/South WTP Well S-1 (engineering services)	471-169000-22503	\$ 222,511
Total for South WTP Well S-1		\$1,822,511

Recommendation:

1. Staff recommends that the Board of County Commissioners (BCC) approve the use of cash balance in the amount of \$1,822,511 to cover the total affiliated costs of the replacement of the South County Water Treatment Plant well S-1.
2. Staff also recommends that the BCC approve Work Order No. 8 with Kimley-Horn and Associates, Inc., in the amount of \$222,511 for engineering services for the surveying, permitting, bidding, and construction services for the replacement of well S-1, and authorize the Chairman to execute said work order on their behalf.

Attachment:

Work Order No.8 with KHA.