



INDIAN RIVER COUNTY, FLORIDA DEPARTMENT OF UTILITY SERVICES

Date: November 6, 2017

To: Jason E. Brown, County Administrator

From: Vincent Burke, P.E., Director of Utility Services

Prepared By: Arjuna Weragoda, P.E., Capital Projects Manager

Subject: Countryside Citrus Well Mitigation Plan - Design Phase

DESCRIPTIONS AND CONDITIONS:

Indian River County Department of Utility Services (IRCDUS) owns and operates two (2) regional potable water treatment facilities. The North County Reverse Osmosis (NCRO) Water Treatment Plant is rated for 11.44 million gallons per day (mgd). Today, the NCRO plant operates a rotation of 3 to 4 skids (out of eight), fed from 5 wells (out of nine), for daily water demands. Running at hypothetical full production capacity with all eight skids loaded, the NCRO, including blend, can physically produce 15.0 mgd. Given that the future hypothetical withdrawals may have additional drawdowns on the Upper Floridan Aquifer (UFA), the County has elected a mitigation plan to the wellfields immediately west of the NCRO well fields. The wellfields immediately to the west are located within the Countryside Citrus (CC) property owned by Mr. and Mrs. Van Antwerp. The CC property is divided into six (6) parcels ranging from 0.86 to 9.0 acres for a total of approximately 28.93 acres. The CC property has five (5) wells that were installed as far back as 1925 and as recently as 2005. Currently, the three (3) homesteads and the packing house are served by County potable water at no charge. This arrangement will be part of a more formalized agreement once additional costs are known for the mitigation plan.

ANALYSIS:

The mitigation plan has been discussed with St. Johns River Water Management District (SJRWMD) and the property owner in detail. A solution was agreed to by all parties, contingent upon other details to be finalized at a later date, to install a new UFA supply well with well pump and to retrofit an existing CC well with a submersible pump and motor. Included with the mitigation plan is that the Van Antwerps have been and will continue to receive County water to three residences and one packing house. Once the general framework of the mitigation plan was agreed to by the SJRWMD and the property owner, staff requested Kimley-Horn and Associates to prepare a proposal for the solutions contemplated which include coordination and meetings, specifications and drawings, permitting, observation, and startup. The work order will be provided in accordance with the Extension of the Continuing Services Contract Agreement for Professional Services with Kimley-Horn and Associates dated October 24, 2017. The scope is more specifically described in the attached Work Order No. 16. The total negotiated cost for the Well

Mitigation Plan at Countryside Citrus in Work Order No. 16 is a lump sum amount of \$44,608 separated into four (4) tasks.

Prior to the implementation of the mitigation plan, staff will bring forth a separate item for Indian River County Board of County Commissioner’s approval memorializing the understanding between all parties with actual costs to implement the mitigation plan.

FUNDING:

Funds for this project are derived from the Other Professional Services account in the operating fund. Operating funds are generated from water and sewer sales.

Description	Account Number	Amount
Van Antwerp Remediation	47123536-044699-17529	\$44,608.00

RECOMMENDATION:

Staff recommends approval of Work Order No. 16 authorizing the referenced professional services and requests the Board of County Commissioners to authorize the Chairman to execute Work Order No.16 on their behalf for a lump sum amount of \$44,608 to Kimley-Horn and Associates.

ATTACHMENT(s):

1. Work Order No. 16 and supporting documents (6 Pages)