

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

Date: September 24, 2020

To: Jason E. Brown, County Administrator

From: Vincent Burke, PE, Director of Utility Services

Prepared By: Dwight Fulton, PE, Capital Projects Manager

Subject: South County Reverse Osmosis (SCRO) Water Treatment Plant (WTP) Improvements with Kimley-Horn and Associates- Amendment No.1 to Work Order No. 1

Descriptions and Conditions:

On September 17, 2019, the Indian River County Board of County Commissioners (BCC) approved the final ranking for Request for Qualifications (RFQ) 2019070 to assist the Indian River County Department of Utility Services (IRCDUS) with the planning, engineering, design, permitting and construction phase services anticipated with two water treatment plants and directed staff to start negotiations with the top ranked firm, Kimley-Horn and Associates, Inc. (KHA). On November 5, 2019, the BCC Chairman signed the agreement for professional services.

On December 17, 2019, the BCC approved Work Order No.1 to KHA for preliminary evaluation, preparation of design documents, permitting, and bidding phase assistance on the SCRO WTP, which is currently rated for 8.57 million gallons per day (MGD). As part of the preliminary evaluation phase, KHA submitted a basis of design report dated April, 2020, which identified the condition on the major process components in need of replacement and rehabilitation, evaluated improvements necessary for up to 2 MGD RO train treatment capacity and provided recommendations for redundancy and resiliency at the SCRO WTP. Some of the items identified in the design report were not included in the original work order No.1.

Analysis:

Staff requested KHA prepare a proposal to provide professional services to address the additional items based on the design report and discussions with staff. Those items are as follows:

- New high service pumps (HSP) 4 & 5 (2 - 3 dwgs)
- Reverse Osmosis (RO) permeate and concentrate lines (4 dwgs)
- HSP Suction and tank outlet piping (4 dwgs)
- Additional CO₂ storage and feed system (3 dwgs)
- Additional Sulfuric Acid pump skid (1 dwg)
- Additional bulk caustic tank in existing containment (2 dwgs)
- Upgrading of the WTP from 8.57 to 9.0 MGD treatment capacity
- Modification to existing Demineralization Concentrate (DC) disposal permit
- Separation of SCADA & PLC Improvements to standalone project

The Amendment No.1 to Work Order No.1 will be provided in accordance with the Agreement for

Professional Services for Water Plant and Water Resources Engineering Services-RFQ 2019070 dated November 5, 2019. The scope is more specifically described in the attached Exhibit A, Amendment No.1 to Work Order No. 1. The total negotiated cost for the SCRO WTP improvements in Amendment No. 1 to Work Order No. 1 is a lump sum amount of \$127,252, which would bring the total sum amount for Work Order No.1 to \$695,501.00.

Funding:

Funds for this project are derived from the other professional services account in the Utilities operating fund. Utilities operating funds are generated from water and sewer sales.

| Description | Account Number | Amount |
|---------------------------|-----------------------|---------------|
| S RO Membranes & Retrofit | 47121936-044699-19503 | \$127,252.00 |

Recommendation:

Staff recommends approval of the Agreement for Professional Services for Water Plant and Water Resources Engineering Services Request for Qualifications 2019070, Amendment No.1 to Work Order No. 1, and requests that the Board of County Commissioners authorize the Chairman to execute the Amendment No.1 to Work Order No.1 on their behalf to engage the services of Kimley-Horn and Associates, Inc., for a sum amount of \$127,252.

Attachment:

Amendment No.1 to Work Order No.1 with KHA. (7 Pages)