

**Indian River County, Florida
Solid Waste Disposal District
Board Memorandum**

Date: January 07, 2022

To: Jason E. Brown, County Administrator

From: Matthew Jordan, Interim Director of Utility Services

Prepared By: Himanshu H. Mehta, PE, Managing Director, Solid Waste Disposal District

Subject: Amendment No. 1 to Work Order No. 44 to Kimley-Horn for Landfill Gas Flare Skid Improvements and Pipeline Extension

Descriptions and Conditions:

On October 12, 2021, the Solid Waste Disposal District (SWDD) approved Work Order No. 44 to Kimley-Horn and Associate, Inc. (KHA) utilizing Biogas Engineering (BGE) as a sub-consultant to provide engineering services related to the Landfill Gas Pipeline Extension and Skid Improvements project for a cost of \$226,420. The project includes the replacement of the current “low-pressure” Landfill Gas (LFG) Collection and Control System to a “high pressure” system as well as a new LFG line from the flare system to the new evaporation system.

The design work is proceeding well and is currently at 30% completion. However, there are certain items that require an amendment to the scope of work. Specifically, the additional work includes: 1) additional geotechnical work for structural support purposes; 2) additional coordination with the evaporation project; 3) additional stormwater permitting; and 4) a new Supervisory Control and Data Acquisition (SCADA) system to monitor and operate the evaporation system, leachate storage tank and the new landfill gas skid.

Staff received the attached Amendment No. 1 from KHA for these additional services and recommends approval from the SWDD Board.

Analysis:

KHA has prepared Amendment No. 1 to Work Order No. 44, per the Continuing Consulting Engineering Services Agreement for Professional Services, provided in Attachment 1, for engineering services detailing the scope of work, budget, and schedule for each of the tasks. The tasks are listed below showing the scope and their estimated fees. The project is estimated to take 4 months to completion.

SWDD Item

Previously Approved Work Order No. 44 Task Summary:

PHASE 1	DESCRIPTION	KIMLEY-HORN	SUBCONSULTANT	OTHER EXPENSES *	TOTAL AMOUNT
Task 1	Landfill Gas Pipeline Extension	\$31,280	\$60,500	\$0	\$91,780
Task 2	Landfill Flare Skid Improvements	\$14,340	\$112,300	\$8,000	\$134,640
TOTAL =		\$45,620	\$172,800	\$8,000	\$226,420
<i>* Other Expenses are for travel to be billed on a time and materials basis.</i>					

Amendment No. 1 Work Order No. 44 Task Summary:

PHASE 1	DESCRIPTION	KIMLEY-HORN	SUBCONSULTANT	OTHER EXPENSES *	TOTAL AMOUNT
Task 1	Landfill Gas Pipeline Extension	\$9,450	\$1,750	\$0	\$11,200
Task 2	Landfill Flare Skid Improvements	\$18,620	\$0	\$0	\$18,620
Task 3	SCADA	\$11,010	\$0	\$0	\$11,010
TOTAL =		\$39,080	\$1,750	\$0	\$40,830
<i>* Other Expenses are for travel to be billed on a time and materials basis.</i>					

Funding:

Funding for the SWDD Leachate Project is budgeted and available in the SWDD/Landfill/Engineering Services, account number 41121734-033130, for \$22,210, which is funded from SWDD assessments and user fees. The Landfill Gas Flare Skid Improvements are considered a “closure activity” and, as such, is funded from an escrow account long established per Florida Department of Environmental Protection (FDEP) requirements, which has the funds available in the SWDD/Accrued Closure – I, II & Infill, account number 411-239006, for \$18,620.

Account Name	Account Number	Amount
SWDD/Landfill/Engineering Services	41121734-033130	\$22,210
SWDD/Accrued Closure – I, II & Infill (Escrow)	411-239006	\$18,620

Recommendation:

Solid Waste Disposal District staff recommends that its Board approve the following:

- a) Approve Amendment No. 1 to Work Order No. 44 with Kimley-Horn and Associates, Inc. for \$40,830 with an amended total of \$267,250 to provide engineering services related to the Landfill Gas Pipeline Extension and Skid Improvements.
- b) Authorize the Chairman to execute the same, as presented.

Attachment:

Amendment No. 1 Work Order No. 44 – KHA