

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

**Date:** January 5, 2023

**To:** Michael C. Zito, Interim County Administrator

**From:** Sean C. Lieske, Director of Utility Services

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

**Subject:** Amendment No. 3 to Work Order No. 44 to Kimley-Horn for Landfill Gas Flare Skid Improvements and Pipeline Extension Project

**Descriptions and Conditions:**

On October 12, 2021, the Solid Waste Disposal District (SWDD) approved Work Order No. 44 to Kimley-Horn and Associates, 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. On January 18, 2022, the SWDD Board approved Amendment No. 1 to Work Order No. 44 to Kimley-Horn for \$40,830, with an amended total of \$267,250. On July 12, 2022, the SWDD Board approved Amendment No. 2 to Work Order No. 44 to Kimley-Horn for \$13,307, with an amended total of \$280,557.

The design work is nearing completion, and the overall project is getting ready to go out to bid. However, an amendment is needed for additional design of the control panel required for the instrumentation to be installed in the storage tank, proposed flow meters (3) and mixer. This amendment also includes construction services for managing SWDD’s pipeline contractor to complete the installation of the landfill gas and leachate pipelines, communications conduit, and southeast swale.

Staff received the attached Amendment No. 3 from KHA for these additional services and recommends approval from the SWDD Board.

**Analysis:**

KHA has prepared Amendment No. 3 to Work Order No. 44, per the Continuing Consulting Engineering Services Agreement for Professional Services, entered into on April 17, 2018 and renewed and amended as of May 18, 2021, 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. Tasks 1 and 2 are not affected in Amendment No. 3. Task 3 is on a lump sum basis, and Task 4 is on an hourly, not-to-exceed basis for costs incurred per invoice period.

Previously Approved Work Order No. 44 Task Summary:

<b>PHASE 1</b>	<b>DESCRIPTION</b>	<b>KIMLEY-HORN</b>	<b>SUBCONSULTANT</b>	<b>OTHER EXPENSES *</b>	<b>TOTAL AMOUNT</b>
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
<b>TOTAL =</b>		<b>\$45,620</b>	<b>\$172,800</b>	<b>\$8,000</b>	<b>\$226,420</b>

\* Other Expenses are for travel to be billed on a time and materials basis.

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

<b>PHASE 1</b>	<b>DESCRIPTION</b>	<b>KIMLEY-HORN</b>	<b>SUBCONSULTANT</b>	<b>OTHER EXPENSES *</b>	<b>TOTAL AMOUNT</b>
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
<b>TOTAL =</b>		<b>\$39,080</b>	<b>\$1,750</b>	<b>\$0</b>	<b>\$40,830</b>

\* Other Expenses are for travel to be billed on a time and materials basis.

Previously Approved Amendment No. 2 Work Order No. 44 Task Summary:

<b>PHASE 1</b>	<b>DESCRIPTION</b>	<b>KIMLEY-HORN</b>	<b>SUBCONSULTANT</b>	<b>OTHER EXPENSES *</b>	<b>TOTAL AMOUNT</b>
Task 1	Landfill Gas Pipeline Extension	\$ 3,161	\$1,000	\$0	\$ 4,161
Task 2	Landfill Flare Skid Improvements	\$ 9,146	\$ 0	\$0	\$ 9,146
Task 3	SCADA	\$ 0	\$ 0	\$0	\$ 0
<b>TOTAL =</b>		<b>\$12,307</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$13,307</b>

\* Other Expenses are for travel to be billed on a time and materials basis.

Amendment No. 3 Work Order No. 44 Task Summary:

<b>PHASE 1</b>	<b>DESCRIPTION</b>	<b>KIMLEY-HORN</b>	<b>SUBCONSULTANT</b>	<b>OTHER EXPENSES *</b>	<b>TOTAL AMOUNT</b>
Task 1	Landfill Gas Pipeline Extension	\$ 0	\$ 0	\$0	\$ 0
Task 2	Landfill Flare Skid Improvements	\$ 0	\$ 0	\$0	\$ 0
Task 3	SCADA	\$ 7,770	\$ 0	\$0	\$ 7,770
Task 4	Construction Administration <sup>(a)</sup>	\$ 38,614	\$ 0	\$0	\$ 38,614
<b>TOTAL =</b>		<b>\$46,384</b>	<b>\$0</b>	<b>\$0</b>	<b>\$46,384</b>

\* Other Expenses are for travel to be billed on a time and materials basis.

(a) To be billed on an hourly, not-to-exceed basis for costs incurred per invoice period.

**Funding:**

Funding for the SWDD Leachate Project is budgeted and available in the SWDD/Landfill/Engineering Services account, number 41121734-033130, for \$46,384.00, which is funded from SWDD assessments and user fees. This approval will result in a total funding cost of \$326,941.00 for this project.

<b>Account Name</b>	<b>Account Number</b>	<b>Amount</b>
SWDD/Landfill/Engineering Services	41121734-033130	\$46,384.00

**Recommendation:**

Solid Waste Disposal District staff recommends that its Board approve Amendment No. 3 to Work Order No. 44 with Kimley-Horn and Associates, Inc. for \$46,384.00, with an amended total of \$326,941.00, to provide engineering services related to the Landfill Gas Pipeline Extension and Skid Improvements; and authorize the Chairman to execute the same, as presented.

**Attachment:**

Amendment No. 3 Work Order No. 44 – KHA