

Indian River County, Florida  
Solid Waste Disposal District  
Board Memorandum

**Date:** June 7, 2021

**To:** Jason E. Brown, County Administrator

**From:** Vincent Burke, PE, Director of Utility Services

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

**Subject:** Change Order NO.1 to SCS Field Services for Landfill Segment 3 Cell 1 Landfill Gas System Expansion Project (Bid #2021006)

**Descriptions and Conditions:**

On February 9, 2021, the Indian River County (IRC) Solid Waste Disposal District (SWDD) awarded Bid #2021006 for the construction of the Landfill Segment 3 Cell 1 Landfill Gas System Expansion to Sterns, Conrad, and Schmidt Consulting Engineers, Inc. dba SCS Field Services. The grand total bid award for the project was for \$1,068,510.00, which included \$96,810.00 in bid contingency and bid alternative.

SWDD utilized CDM Smith to provide the initial Phase 1 design, permitting, and bidding assistance for this project in accordance with the approved Work Order No. 2 dated May 19, 2020, in the amount of \$199,810. The Phase 2 construction services was also authorized by the SWDD Board on February 9, 2021, to CDM Smith as Amendment No. 1 to Work Order No. 2 in the amount of \$139,190, for total engineering costs of \$339,000.

Staff requested additional items through CDM Smith to optimize the capture of gas. Staff requested the consideration for the installation of four additional landfill gas wells and extension of the side slope collectors in the form of horizontal wells. Also, in order to address perched leachate issues in Cell 2, SCS Field Services was requested to perform video and jet cleaning of the existing collection system. Finally, the upsizing of the existing condensate piping was requested in order to accommodate higher leachate pumping in Cell 1. CDM Smith has reviewed, approved, and recommended the attached Change Order No. 1 to SCS Field Services (Attachment 1).

**Analysis:**

Given the recent approval of the 2<sup>nd</sup> Amendment to the Landfill Gas Agreement to the Indian River Eco District, LLC, which requires a target of 1,150 standard cubic feet per minute (scfm) of landfill gas and the fact that we are currently at an average of 500 scfm, staff requested additional vertical and horizontal gas well screens to increase the total output production of our landfill. Also, with the leachate continuing to be a challenge in hindering gas production, steps are recommended to remove the leachate from the landfill as efficiently as possible.

Based on the detailed cost proposal from SCS Field Services and the recommendation from CDM Smith, the total value of this change order is \$145,409. There is \$96,810 in the contract contingency with a net contract increase of \$48,599. There is no increase in contract times associated with this change order.

**Funding:**

The Segment 3 Cell 1 Landfill Gas Expansion project is considered a “closure activity” and, as such, is funded from an escrow account long established per FDEP requirements.

|                                     |                       |
|-------------------------------------|-----------------------|
| Total Base Bid – SCS Field Services | \$ 968,100.00         |
| Construction Contingency (10%)      | \$ 96,810.00          |
| Bid Alternative                     | \$ 3,600.00           |
| <b>Total Construction Costs</b>     | <b>\$1,068,510.00</b> |
| Net Change Order No. 1              | \$ 48,599.00          |
| <b>Total Construction Costs</b>     | <b>\$1,117,109.00</b> |

In the current Fiscal Year (FY) 2020/21, we have budgeted \$2,500,000 for the Segment 3 Cell 1 Landfill Gas Expansion project with an approved contract amount of \$1,068,510.00 with SCS. At this time, we are requesting an addition \$48,599.00 to cover the funds needed in excess of the contingency for Change Order No. 1.

| <b>BID NO. 2021006 AWARD TO SCS FIELD SERVICES</b> |                     |               |
|--|---------------------|---------------|
| <b>DESCRIPTION</b>                                 | <b>ACCOUNT</b>      | <b>AMOUNT</b> |
| Accrued Closure – I, II & Infill                   | 411-239006 (Escrow) | \$48,599.00   |

**Recommendation:**

Staff recommends that its Board approve the following:

- a) Approve Change Order No. 1 to Bid No. 2021006 to Sterns, Conrad, and Schmidt Consulting Engineers, Inc. dba SCS Field Services, of Reston, Virginia, for the Segment 3 Cell 1 Landfill Gas System Expansion project in the amount of \$48,599 for a grand total of \$1,117,109.00.
- b) Authorize the Chairman to execute the same.

**ATTACHMENT:**

- 1. CDM Smith recommendation letter and Change Order No. 1