

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

Date: October 7, 2022

To: Jason E. Brown, County Administrator

From: Sean C. Lieske, Director of Utility Services

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

Subject: Work Order No. 17 to Geosyntec for Segment 3, Cell 1 Top of Waste Grades Evaluation

Descriptions and Conditions:

The Indian River County (IRC) Class 1 Landfill is required by the Florida Department of Environmental Protection (FDEP) to perform waste filling operations within the permitted elevations of the facility. Upon reaching final waste grades, the corresponding areas must be closed.

Our Class 1 Landfill operator, Republic Services, has requested engineering guidance to ensure that their waste filling operations are within compliance.

Accordingly, staff requested the attached proposal from Geosyntec to verify the available volume of airspace of Segment 3 Cell 1 and to provide a work plan for the remaining of its waste filling sequencing.

Analysis:

Geosyntec’s proposal includes an evaluation of historic and recent aerial surveys, and compares them against the permitted top of waste grading plan of Segment 3 Cell 1 originally designed by Geosyntec. In addition, Geosyntec will perform one site visit using Global Positioning System (GPS) equipment to obtain current waste grades for use in design. Finally, engineering drawings will be prepared showing waste filling grading plans, remaining airspace volume, and control points to aid Republic Services with remaining waste filling sequencing at Segment 3 Cell 1. Geosyntec’s proposal consists of four main phases as follows:

Phase Description	Budget
Phase 1: Project Management and Meetings	\$ 3,341.04
Phase 2: Files Review and Data Evaluation	\$ 3,490.88
Phase 3: Site Inspection Visit	\$ 4,830.80
Phase 4: Engineering Drawings	\$14,362.28
Total	\$26,025.00

Funding:

Funding in the amount of \$26,025 for this project is budgeted and available in the SWDD/Landfill/Engineering Services account, number 41121734-033130. This is funded from SWDD assessments and user fees.

Description	Account Number	Amount
SWDD/Landfill/Engineering Services	41121734-033130	\$26,025

Recommendation:

Solid Waste Disposal District staff recommends that its Board approves and authorizes the Chairman to sign Work Order No. 17 authorizing Geosyntec to provide an engineering evaluation of Segment 3 Cell 1 waste grades for a not to exceed fee of \$26,025.

Attachment:

1. Geosyntec Work Order No. 17