

# Memorandum



**Date:** March 11, 2014

**To:** Lester Sola, Director  
Internal Services Department

**From:** Alina T. Hudak, Interim Director/Deputy Mayor  
Public Works and Waste Management Department

**Subject:** Goal Measure for Project No. 14S003 – South Dade Landfill Cell 5 Construction

## **RECOMMENDATION:**

This is a request for the Internal Services Department to approve the attached Community Small Business Enterprise (CSBE) contract measure in order to allow the Miami-Dade Public Works and Waste Management Department (PWWM) to proceed with the advertisement for South Dade Landfill Cell 5 Construction. The PWWM Engineering staff has evaluated the subject project and recommends a Subcontractor Goal of 4.85%, which includes 10% for contingency, based on availability of CSBE Subcontractors as per Ordinance 97-52. The PWWM Contract measures Analysis Worksheet findings and the other supporting documents are attached. The estimated cost of the project is \$10,670,000. The scope of the work for this project consists of the construction of Cell 5 at the South Dade Landfill (SDLF), a Class 1 landfill in Miami-Dade County, Florida. The cell will occupy a total of 50 acres of which approximately 45 acres will be for waste disposal and the remainder for the storm water management system.

## **BACKGROUND/EXPERIENCE:**

The South Dade Landfill (SDLF) is a 320-acre Class 1 municipal solid waste (MSW) facility owned and operated by the Public Works and Waste Management Department. The current footprint of the SDLF consists of four cells designated as Cells 1 through 4. Cells 1 and 2 have approximately 60 acres of combined footprint area and are closed; the 50-acre Cell 3 is also closed; and the 50-acre Cell 4 is currently active and receiving Class 1 waste. The proposed Cell 5 occupies approximately 45 acres of waste disposal area or a total of 50 acres with the inclusion of the storm water management system.

Thank you for your assistance with this matter. If you have any questions, please contact Olga Espinosa-Anderson at (305) 514-6730.

## **Attachments**

c: Laurie Johnson, Manager, ISD  
Kelly Duncombe, Contract Development Specialist, ISD  
Vivian Forhat-Diaz, Construction Manager, ISD  
Paul Mauriello, Assistant Director for Waste Operations, PWWM  
Aneisha Daniel, Assistant Director for Administration, PWWM  
Asok Ganguli, Technical Services Assistant Director, PWWM  
Olga Espinosa-Anderson, Procurement and Contracts Management Division Director, PWWM

## PWWM CONTRACT MEASURE ANALYSIS WORKSHEET

**Date:**

**To:** Lester Sola, Director  
Internal Services Department

**From:** Alina T. Hudak, Interim Director/Deputy Mayor

**Department:** Public Works and Waste Management Department

**Project/contract Title:** South Dade Landfill Cell 5 Construction

**Contract No.** 14S003

**Estimated Project Cost:** \$10,670,000

**Funding Source:** Waste Disposal Operating Fund (Pay As You Go Capital)  
Building Better Communities GOB Program

### Description of Project:

This project consists of the construction of Cell 5 at the South Dade Landfill (SDLF), a Class I landfill in Miami-Dade County, Florida. This cell will occupy approximately 50 acres, of which 45 acres are for waste disposal. Cell 5 will be constructed as 5 sub-cells – two approximate 6-acre sub-cells and three approximate 11-acre sub-cells. The construction of Cell 5 will include the installation of a landfill double liner, from base to subgrade, consisting of a 2-ft thick liner protective layer (or approved alternative); leachate collection system (LCS) geocomposite drainage layer, which consists of a geonet with nonwoven geotextiles heat-bonded on both sides; a primary liner consisting of 60-mil thick textured high-density polyethylene (HDPE) geomembrane liner; leachate detection system (LDS) geocomposite drainage layer, which consists of a geonet with nonwoven geotextiles heat-bonded on both sides; a composite secondary liner, which consists of 60-mil thick textured HDPE geomembrane placed on top of a geosynthetic clay liner (GCL) with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec; and a 6-inch (minimum) thick prepared subgrade layer.

The LCS will also include a LCS corridor consisting of 6-inch nominal diameter perforated HDPE pipe embedded in pipe bedding material. Below the geocomposite drainage layer of the LDS will be a collection corridor comprised of two or more layers of geocomposite or bi-planar geonet, which lie directly on top of the 60-mil thick textured HDPE geomembrane of the secondary liner.

This project will include the installation of a collection sump area at each sub-cell. Each sump will be equipped with three pumps. In addition, the project will include grading activities and the completion of the Cell 5 stormwater management system that is partially built.

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South Dade Landfill Cell 5 Construction  
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The prime contractor should have at least five (5) years of experience in layered liner and drainage systems, including Geotextile, HDPE, Net and protective layer installation. Subcontractors must have at least five (5) years of experience in earth work, electrical, and mechanical. In addition, the installer of liner and HDPE pipes must have a certification in heat fusion and seams that demonstrate training and qualification to perform these tasks.

Set Aside      Bid Preference                      Subcontractor Goal    Project Goal      No Measure

Selection Factor

PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
 SOUTH DADE LANDFILL CELL 5 CONSTRUCTION  
 PROJECT #: 14S003  
 COST ESTIMATE BY TRADE

TRADE/SUB-TRADE	EST. COST	% OF ITEM TO TOTAL BID (including contingency)	CSBE GOAL FOR THE TRADE (%)	RECOMMENDED CSBE PARTICIPATION (%)	RECOMMENDED CSBE PARTICIPATION (\$)	CASE AVAILABILITY
Layered Liner and drainage System including Geotextile, HDPE, Net and protective layer (Prime Contractor)*	\$9,182,500.00	86.06%	0%	0.00%	\$0.00	No
CSBE Electrical Work	\$442,500.00	4.15%	100.00%	4.15%	\$442,500.00	Yes
CSBE Concrete Work	\$75,000.00	0.70%	100.00%	0.70%	\$75,000.00	Yes
Contingency	\$970,000.00	9.09%		4.85%		
Total with contingency	\$10,670,000.00	100.00%				

\*Note: These are specialized works that require at least 5 years of experience in the specified field.

**DEPARTMENT INPUT**  
**CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Check applicable Ordinance(s):  90-143 Responsible Wage and Benefits  03-237 (formerly 03-1) Community Workforce Program

**PROJECT INFORMATION** See attachment

Contract/Project/\*Work Order No.: 14S003  
 Reference corresponding project number when submitting a work order

Contract/Project Title: South Dade Landfill Cell 5 Construction

Description/Scope of Work: To establish a contract for the construction of South Dade Landfill Cell 5 to include: Installation of a double liner system consisting of a 60-mil textured HDPE geomembrane clay liner (GCL) with a maximum hydraulic conductivity of 1x10<sup>-7</sup> cm/sec, associated leachate collection, detection and pumping systems, including the completion of the storm water management system, and the construction of a disposal area.

Estimated Cost: \$10,670,000

Funding Source: Waste Disposal Operating Funds & Building Better Communities (GOB Program)

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.  
23707 SW 97<sup>th</sup> Avenue, Miami, Florida 33032

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP)** See attachment

Engineer/Department or Agency's estimated required workforce for Project  Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Electrical	3	115
Concrete	9	21
Operators	6	360
Laborers	5	360
Liner Installer	15	180

Comments: The liner installer trade has various skill levels but all must have experience, these include a manager, lab technician, welders, etc. These are normally established crews that are kept together and rotate from job to job. Job specifications require years of experience and some certificates.

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE)** See attachment

Sub-Trade	Est. Cost	% of Item to total bid	Availability
Electrical	\$442,500	4.15%	Yes
Concrete	\$75,000	.70%	Yes
Total	\$517,500	4.85%	

**RECOMMENDATION**

Set-Aside: Level 1  Level 2  Level 3  Trade Set-Aside  Sub-Contractor Goal  Workforce Goal  No Measure   
 Basis for Recommendation: \_\_\_\_\_

Date submitted to DBD: \_\_\_\_\_  
 Contact Person: Olga Espinosa-Anderson  
 Telephone No.: (305) 514-6730