

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

To: Gary T. Hartfield, Division Director  
Internal Services Department  
Small Business Development Division

From: Isaac Smith, Manager  
Construction Contracts Section

Department: Miami-Dade Water and Sewer Department

Contract Title: South Miami Heights Water Treatment Plant  
Injection Well System and Upper Floridan Aquifer Test  
Production Well Program

Contract No.: W-930

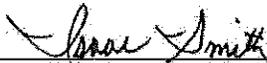
Estimate Amount: \$18,608,323 (See Breakdown below)

[\$15,317,100 Construction + \$1,531,710 Contingency + \$1,759,513 Dedicated Allowance]

Funding Source: EW 658, WASD Revenue Bonds Sold

**CSBE GOAL -0% (No availability)**

**Analysis for Recommendation (SEE NEXT PAGE)**



Department Head or Authorized Agent

**DESCRIPTION OF PROJECT:**

This Project under the South Miami Heights Water Treatment Plant Program consists of a Part A, for completion of the Deep Injection Well System, and a Part B, for completion of the Upper Floridan Aquifer Test Production Well Program. The Project consists of furnishing all materials, labor and equipment necessary to construct Part A and Part B, generally, as follows:

1. PART A - Injection Well System

The Injection Well System consists of a Class V Injection Well and a Dual-Zone Monitor Well, as follows:

- a. Construct one Class V Injection Well at the South Miami Heights Water Treatment Plant site to a depth of approximately 3,500-ft below land surface.
- b. Construct one Dual-Zone Monitor Well to a depth of approximately 1,850-ft below land surface.
- c. Construct temporary drilling pads and water table monitoring wells, site preparation, site restoration, well testing, coordination with other testing performed by the Department, drilling fluid management plan and temporary fluid management system, providing temporary power, temporary facilities, and any items of materials, equipment, supplies, and all other appurtenant and miscellaneous items and work for a complete, functional, and satisfactory installation of the injection well system. The South Miami Heights Water Treatment Plant is located at 11800 S.W. 208 Street, in Section 12, Township 56 South, Range 39 East, and Section 7, Township 56 South, Range 40 East, in Miami-Dade County, Florida, 33177.

2. PART B – Upper Floridan Aquifer Test Production Well Program:

The Upper Floridan Aquifer Test Production Well Program consists of several test production wells and one continuous core boring at several sites, as follows:

- a. Construct one Upper Floridan Aquifer Test Production Well at the Roberta Hunter Park wellfield site, to a depth of approximately 1,400-ft below land surface.
- b. Construct one Upper Floridan Aquifer Test Production Well at the Black Creek Canal (C-1) wellfield site, to a depth of approximately 1,400-ft below land surface.
- c. Construct one Upper Floridan Aquifer Test Production Well at the South Miami Heights Water Treatment Plant site, to a depth of approximately 1,400-ft below land surface.
- d. Construct one Upper Floridan Aquifer Test Well as directed by the Engineer (Contingent Item), to a depth of approximately 1,400-ft below land surface.
- e. Construct one Continuous Core Boring at the South Miami Heights Water Treatment Plant site, to a depth of approximately 1,640-ft below land surface.
- f. Construct temporary drilling pads and water table monitoring wells, site preparation, site restoration, well testing, coordination with other testing performed by the Department, drilling fluid management plan and temporary fluid management system, providing temporary power, temporary facilities, and any items of materials, equipment, supplies, and all other appurtenant and miscellaneous items and work for a complete, functional, and satisfactory installation of the program. The South Miami Heights Water Treatment Plant is located at 11800 S.W. 208th Street, in Section 12, Township 56 South, Range 39 East, and Section 7, Township 56 South, Range 40 East; the Roberta Hunter Park wellfield is located along SW 117th Avenue in Section 12, Township 56 South, Range 39 East and Section 7, Township 56 South, Range 40 East; and the C-1 Canal wellfield is located along the Black Creek Canal in Section 12, Township 56 South, Range 39 East; all in Miami-Dade County, Florida, 33177.

**QUALIFICATIONS OF BIDDERS:**

1. The Bidder shall submit written evidence of its qualifications and ability to begin construction, to perform in a satisfactory manner, and to complete all of the work covered by the Contract within the time specified in the Solicitation. Specialized testing activities including coring, packer testing, mechanical integrity testing, cement bond logging, temperature logging and water quality sampling must have been completed to demonstrate relevant experience.
2. The bidder shall submit, among other things, specifically name of the proposed superintendent, driller, logger, and detailed information identifying the above mentioned and all personnel to be utilized on this project and written evidence with respect to the following:

General Requirements

- a. The Bidder must have multiple drill rigs available for mobilization at different locations at the same time, if requested by the Department, or as required in these Specifications;
- b. The Bidder must be a licensed water well driller in the State of Florida in accordance with Chapter 373, Part III, Florida Statutes, Regulation of Wells;
- c. Experience in the State of Florida constructing three (3) or more FDEP UIC Class I injection wells to a depth of 3,000 feet below land surface or greater, and 18-inch diameter or greater;
- d. Experience in the State of Florida constructing three (3) or more production wells 16-inch diameter or greater;
- e. That the Bidder has experience in drilling in the geologic formations of South Florida, including drilling to depths greater than 2,500 feet below land surface
- f. That the bidder has experience in working with wells under the high artesian pressures that will be encountered in the wells in South Florida;

**LICENSES:** The types of licenses required are: State General Contractor, General Engineering Contractor, Water Well Contractor and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

Analysis for CSBE Recommendation				
Recommendation – No Goal				
Item	Sub-Trade	Estimated Cost	% of Item to Base Bid	CSBE Availability
1.	<b>Injection Well, SWHIIW-1:</b>  Mobilization \$ 400,000 Construction & Testing \$6,484,000 Drill Monitoring Wells \$ 116,000	\$ 7,000,000	41.55	
2.	<b>Dual Zone Monitor Well, SMHDZMW-1</b>  Mobilization \$ 60,000 Construction & Testing \$2,375,500	\$ 2,435,500	14.46	
3.	<b>Test Production Well - TPW-1:</b>  Mobilization \$ 60,000 Construction & Testing \$1,293,000 Drill Monitoring Wells \$ 44,000 Well Dev., Step Down Testing & Aquifer Performance \$ 80,000	\$ 1,477,000	8.77	
4.	<b>Test Production Well - TPW-2:</b>  Mobilization \$ 60,000 Construction & Testing \$1,293,000 Drill Monitoring Wells \$ 44,000 Well Dev., Step Down Testing & Aquifer Performance \$ 80,000	\$ 1,477,000	8.77	
5.	<b>Test Production Well - TPW-3:</b>  Mobilization \$ 60,000 Construction & Testing \$1,293,000 Drill Monitoring Wells \$ 44,000 Well Dev., Step Down Testing & Aquifer Performance \$ 80,000	\$ 1,477,000	8.77	
6.	<b>Continuous Core Boring:</b>  Mobilization \$ 20,000 Construction \$ 370,000 Drill Monitoring Wells \$ 30,000	\$ 420,000	2.49	
7.	<b>Contingent Test Well:</b>  Mobilization \$ 29,000 Construction of Test Well \$ 136,000 Drill Monitoring Wells \$ 100,000 Well Dev. & Testing \$ 17,000 Test Well Abandonment \$ 44,000	\$ 326,000	1.93	

8.	<b>Contingent Items:</b>  Standby Drilling Time           \$ 100,600 Additional Steel Casing         \$ 218,000 Add'l Boring, Grouting & Cement For Steel Production Wells   \$ 260,000 Additional PVC Casing         \$ 90,000 Add'l Boring, Grouting & Cement For PVC Monitoring Wells     \$ 36,000	\$ 704,600	4.18	
	<b>SUBTOTAL</b>	<b>\$15,317,100</b>		
	<b>Contingency (10%)</b>	\$ 1,531,710	9.09	
	<b>TOTAL FOR CSBE (Subtotal &amp; Contingency)</b>	<b>\$16,848,810</b>	100.00	
	<b>Total Dedicated Allowance Total</b>	\$ 1,759,513		
	<b>PROJECT TOTAL</b>	<b>\$18,608,323</b>		