

Memorandum



Date: April 30, 2014

To: Honorable Chairwoman Rebeca Sosa and Members
Board of County Commissioners

From: Carlos A. Gimenez
Mayor

A handwritten signature in black ink, appearing to read "Carlos A. Gimenez". The signature is fluid and cursive, written over the printed name and title.

Subject: Request to Advertise: Construction Contract relating to the State of Florida's Ocean Outfall Legislation for the Central District Wastewater Treatment Plant Industrial Waste Deep Injection Well System - Contract No. S-869

As you know, I have committed to the Board that I will present for your information contracts for the design and construction of significant water and sewer projects to ensure complete transparency in the selection and bid award process. The subject project has been reviewed by the Small Business Development Division (SBD) of Internal Services Department (ISD) for Community Small Business Enterprise goal recommendations. This information has been timely posted on SBD's webpage at <http://www.miamidade.gov/business/contracting-opportunities-construction.asp>. In addition, a monthly report on the status of the water and sewer infrastructure projects is sent to the Infrastructure and Capital Improvement Committee.

The Water and Sewer Department intends to retain one (1) qualified deep injection well driller under a non-exclusive Construction Contract relating to the State of Florida's Ocean Outfall Legislation for construction of the Central District Wastewater Treatment Plant Industrial Waste Deep Injection Well System. The engineer's estimate including contingency and dedicated allowances is twenty million five hundred thirty eight thousand and six dollars (\$20,538,006). The contract term is eight hundred (800) consecutive calendar days.

The Request to Advertise document for the above referenced project is attached for your information. Once the proposals are reviewed and evaluated, a recommendation for award will be presented to the Board for consideration in a timely manner.

I appreciate your support and cooperation as we proceed to address these infrastructure issues. If you have any questions, please feel free to contact me directly at 305-375-1880.

Attachment

c: R.A. Cuevas Jr., County Attorney
Alina T. Hudak, Deputy Mayor and Interim Director of Public Works and Waste Management
Lester Sola, Director, Internal Services Department
Bill Johnson, Director Designee, Water and Sewer Department

MEMORANDUM



Date: April 17, 2014

To: Carlos A. Gimenez
County Mayor

From: Bill Johnson 
Director Designee
Miami-Dade Water and Sewer Department

Subject: Request to Advertise for Central District Wastewater Treatment Plant Industrial Waste Deep Injection Well System - Project No: S-869; Contract No: S-869

Recommendation

This Request to Advertise for Contract No. S-869 has been prepared by the Miami-Dade Water and Sewer Department (WASD) and is recommended for approval pursuant to Sections 2-8.1 of the Code of Miami-Dade County.

Scope

PROJECT NAME: Central District Wastewater Treatment Plant Industrial Waste Deep Injection Well System

PROJECT NO: S-869

CONTRACT NO: S-869

PROJECT DESCRIPTION:

The work of Contract No. S-869 is for the construction of industrial waste deep injection wells at the Central District Wastewater Treatment Plant located in Virginia Key, 3851 Rickenbacker Causeway, Section 16, Township 54, Range 42, Miami-Dade County, Florida 33149.

This project consists of furnishing all materials, labor and equipment necessary to construct an injection well approximately 10,000 feet deep and a second (redundant) injection well to approximately 3,500 feet deep. The project also includes, but is not limited to, constructing drilling pilot holes, monitoring well, furnishing and installing all required steel casing and reinforced fiber pipe (FRP) tubing, well development, environmental monitoring, all required testing and startup; and all other appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation.

PROJECT LOCATION: 3851 Rickenbacker Causeway, Virginia Key, Florida 33149

PROJECT SITES:	<u>SITE #</u>	<u>LOCATION 1</u>	<u>DIST</u>	<u>ESTIMATE</u>	<u>T-S-R</u>
	#70000	3851 RICKENBACKER CSWY	7	\$20,538,006.00	54-17-42

PRIMARY COMMISSION DISTRICT: District 7 Xavier L. Suarez

APPROVAL PATH: Mayor's Authority Section 2-8.1 of the Miami-Dade County Code

USING DEPARTMENT: Miami-Dade Water and Sewer Department

MANAGING DEPARTMENT: Miami-Dade Water and Sewer Department

Fiscal Impact / Funding Source

FUNDING SOURCE:	<u>SOURCE</u>	<u>PROJECT NUM</u>	<u>SITE #</u>
	WASD Revenue Bonds Sold	9653421	#70000
	Future WASD Revenue Bonds	<u>9653421</u>	<u>#70000</u>

PTP FUNDING: No

GOB FUNDING: No

ARRA FUNDING: No

CAPITAL BUDGET PROJECT:	CAPITAL BUDGET PROJECT # - DESCRIPTION	<u>RTA ESTIMATE</u>
	9653421- CENTRAL DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT FACILITIES	\$20,538,006.00
	Book Page: 138 Funding Year: Adopted Budget and Multi-Year Capital Plan for FY 2013-19 and Prior Years' Funds	

PROJECT TECHNICAL CERTIFICATION REQUIREMENTS: One of the following licenses is required: State General Contractor, General Engineering Contractor, and/or other category as applicable to Chapter 489 of the Florida Statutes or Chapter 10 of the Miami-Dade County Code.

ESTIMATED CONTRACT PERIOD: 800 Days. Excludes Warranty Administration Period

ESTIMATED CONTINGENCY PERIOD: 80 Days.

IG FEE INCLUDED IN BASE CONTRACT: Yes

ART IN PUBLIC PLACES: No

BASE ESTIMATE: \$17,940,050.00

CONTINGENCY ALLOWANCE (SECTION 2-8.1 MIAMI DADE COUNTY CODE):	TYPE	PERCENT	AMOUNT	COMMENT
	Infrastructure	10%	\$1,794,005.00	

PERMIT FEES : \$358,801.00 2.00%

STANDBY TIME: \$125,000.00 0.70%

HYDROGEN SULFIDE ENVIRONMENTAL MONITORING : \$300,000.00 1.67%

LOST CIRCULATION ZONE GRAVEL CONTINGENCY CREDIT : \$ 20,150.00 0.11%

TOTAL DEDICATED ALLOWANCE: \$803,951.00

COST ESTIMATE: \$20,538,006.00

Track Record / Monitor

EXPLANATION: Not Applicable. Information will be provided at the time of contract award.

MINIMUM QUALIFICATIONS EXCEED LEGAL REQUIREMENTS: Yes 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. A Bidder shall submit proof of at least three (3) similar projects within the past 5 years involving drilling of Floridan Aquifer wells and/or UIC permitted injection wells with 24 inch OD casing cemented to a depth of at least 2,500 feet below land surface. Specialized testing activities including coring, inflatable packer testing, mechanical integrity testing, cement bond logging, temperature logging and water quality sampling must have been completed to demonstrate relevant experience. Failure to submit this information with the bid may be cause for the Bidder to be deemed non-responsive.

1. 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. That the bidder has a trained and competent organization, which has done work of similar character and value;
 - b. That the bidder will have available to do the work at the proper time or times, adequate equipment and facilities, listing such equipment and facilities in such detail that they can quickly and accurately be checked;
 - c. That the bidder has sufficient repair parts and supplies to maintain all equipment and facilities properly and with a minimum of delay;
 - d. That the bidder has experience in drilling in the geologic formations of South Florida penetrated by the County's wells; including drilling to depths greater than 2,500 feet below land surface;
 - e. That the bidder has experience in working with wells under the high artesian pressures that will be encountered in the wells in South Florida;
 - f. That the bidder must use a Subcontractor who holds a license from the Florida HRS Bureau of Radiation Control for the required geophysical logging that will be performed under this Contract;
 - g. That the logging vehicle is licensed by the Florida Department of Transportation for the use of radioactive materials; and
 - h. That the driver of the logging vehicle has a Commercial Driver's License with an "H" endorsement for radioactive materials.
2. The bidder shall submit evidence that the drill rig will meet the following requirements:
- a. American Petroleum Institute (API) rated to meet hook load requirements to successfully complete the project;
 - b. Capable of setting up over a minimum of a Class III Blow Out Preventer stack (which includes and is not limited to a rotating head, bag blow out preventer, shear ram, pipe ram and choke with kill ports);
 - c. Four-gas monitoring system with alarm (below derrick floor, at the derrick floor and at circulation end); and
 - d. Lifting devices must be suitable for all construction and testing activities (which includes and is not limited to drilling, casing and tubing elevators, links and cables).

REVIEW
COMMITTEE:

MEETING DATE: 1/31/2014
RESUBMIT DATE: 3/14/2014

SIGNOFF DATE: 1/31/2014
RESUBMIT SIGNOFF: 3/14/2014

APPLICABLE
WAGES:
(RESOLUTION No.
R-54-10)

Yes

REVIEW COMMITTEE ASSIGNED CONTRACT MEASURES:	<u>TYPE</u> <u>GOAL</u>	<u>COMMENT</u>
	CSBE 0.00%	No measure due to insufficient availability.
	CWP 0.00%	CWP not applicable, project not in DTA
MANDATORY CLEARING HOUSE:	Yes	
CONTRACT MANAGER NAME / PHONE / EMAIL:	Isaac Smith	786-268-5196 ISMIT01@miamidade.gov
PROJECT MANAGER NAME / PHONE / EMAIL:	Robert Stebbins Jr.	786-268-5179 RStebb@miamidade.gov

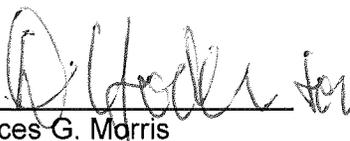
Background

BACKGROUND: This project is one in a series of projects related to the State of Florida's Ocean Outfall Legislation (OOL) (Sect. 403.086(9) of the Florida Statutes), which regulates wastewater disposal/ocean outfalls. The Miami-Dade Water and Sewer Department (WASD) owns and operates the Central District Wastewater Treatment Plant (CDWWTP), which utilizes a pure-oxygen activated treatment system for primary and secondary treatment of wastewater prior to disposal through an ocean outfall pipeline.

The OOL requires that discharges of domestic wastewater through ocean outfalls must meet advanced wastewater treatment (AWT) and management requirements no later than December 31, 2018. This requirement can be met at the CDWWTP by reducing the outfall baseline loadings of total nitrogen and total phosphorus which would be equivalent to that which would be achieved by the AWT if the requirements were fully implemented beginning December 31, 2018. WASD intends to reduce the nutrient loading to meet the criteria by removing the industrial waste stream from the centrate process and existing gas scrubbers and injecting this industrial waste into the proposed deep injection well. In addition to the industrial waste stream at the plant, leachate resulting from groundwater remediation at the adjacent south property (former Virginia Key Landfill) will also be disposed of in the deep injection well to be constructed by this project.

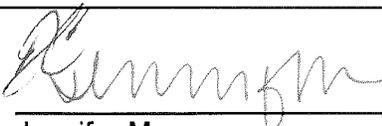
The proposed industrial injection well will be designed and constructed in accordance with Florida Administrative Code (F.A.C.) Rule 62-528 and will be permitted by the Florida Department of Environmental Protection (FDEP). WASD currently has a FDEP permit for construction of the wells proposed by this project.

DEPARTMENT
FINANCE:

 for 3-26-14

Frances G. Morris
DEPT FINANCE OFFICER DATE

BUDGET
APPROVAL FUNDS
AVAILABLE:

 4/8/14

Jennifer Moon
OMB DIRECTOR DATE

 _____
Carlos A. Gimenez
MAYOR DATE

CLERK DATE

DATE

CENTRAL DISTRICT WASTEWATER TREATMENT PLANT
INDUSTRIAL WASTE DEEP INJECTION WELL SYSTEM

CONTRACT NO: S-869

BUDGET PROJECT AND
DESCRIPTION:

9653421 - CENTRAL DISTRICT UPGRADES
WASTEWATER TREATMENT PLANT FACILITIES

DIRECTOR,
MIAMI-DADE WATER AND
SEWER DEPARTMENT:



JOHN W. RENFROW, P.E.

4-4-14
DATE

DEPUTY DIRECTOR,
REGULATORY COMPLIANCE
AND CAPITAL IMPROVEMENTS:



J.C. ARTEAGA, AIA, NCARB, APA, CGC, CBO DATE

03/25/14

ASSISTANT DIRECTOR,
WASTEWATER - OPERATIONS:



RALPH TERRERO, P.E.

3/25/14
DATE

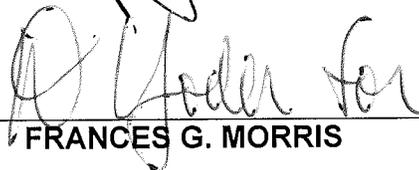
ASSISTANT DIRECTOR,
ENGINEERING AND CAPITAL
IMPROVEMENTS:



EDUARDO A. VEGA, P.E.

March 27, 2014
DATE

ASSISTANT DIRECTOR,
FINANCE:



FRANCES G. MORRIS

3-26-14
DATE

ASSISTANT DIRECTOR,
LEGISLATIVE & MUNICIPAL
AFFAIRS



ZABA S. CASTRO, ESQ.

3/20/14
DATE

Appendix B - QUANTITIES, PRICING, COMPENSATION AND PAYMENT

Project: Miami-Dade Class V Exploratory Injection Well, Dual Zone Monitor Well and Redundant Injection Well

Subcontract Work Package: Deep Injection Wells Complete

Bid Schedule

Item No.	Description	Estimated Quantity	Unit	Unit Price	Amount
A01 General					
1	Mobilization & Demobilization of all equipment for CDIIW-1 including pad wells	1	LS	\$850,000.00	\$850,000.00
A01 - General Subtotal					\$850,000.00
A02 Injection Well CDIIW-1					
2	Set and cement 74" Pit Casina (US Steel)	1	LS	\$62,500.00	\$62,500.00
3	Drill 12.25" Diameter Pilot Hole to 350'	350	LF	\$160.00	\$56,000.00
4	Geophysical Logging in pilot hole 350'	1	LS	\$5,000.00	\$5,000.00
5	Specialty Logging - Neutron Porosity Log in pilot hole to 350'	1	EA	\$75,000.00	\$75,000.00
6	Ream Pilot Hole to Nominal 74" Diameter to 300'	300	LF	\$230.00	\$69,000.00
7	Geophysical Logging in Reamed Hole	1	LS	\$2,500.00	\$2,500.00
8	Furnish and Install 66" Casina to 300' (US Steel)	300	LF	\$487.50	\$146,250.00
9	Furnish and Install Cement and Additives Behind 66" Diameter Casina	1,300	SK	\$15.00	\$19,500.00
10	Drill 12.25" Diameter Pilot Hole to 1,100'	800	LF	\$160.00	\$128,000.00
11	Geophysical Logging in pilot hole 1,100'	1	LS	\$4,800.00	\$4,800.00
12	Specialty Logging - Neutron Porosity Log in pilot hole to 1,100'	1	EA	\$75,000.00	\$75,000.00
13	Ream Pilot Hole to Nominal 66" Diameter to 1,000'	700	LF	\$210.00	\$147,000.00
14	Geophysical Logging in Reamed Hole	1	LS	\$3,100.00	\$3,100.00
15	Furnish and Install 56" Casina to 1,000' (US Steel)	1000	LF	\$400.00	\$400,000.00
16	Furnish and Install Cement and Additives Behind 56" Diameter Casina	5,100	SK	\$15.00	\$76,500.00
17	Temperature Logging in 56" Diameter Casina	2	EA	\$3,500.00	\$7,000.00
18	Install a Washington Rotating Head or comparable flow prevention device	1	LS	\$5,000.00	\$5,000.00
19	Drill 12.25" Diameter Pilot Hole to 1,650'	650	LF	\$160.00	\$104,000.00
20	Obtain 4" Diameter x 10' Core	40	LF	\$900.00	\$36,000.00
21	Analysis of Core Sections	8	EA	\$4,000.00	\$32,000.00
22	Geophysical Logging (Static and Dynamic) to 1,650'	1	LS	\$13,000.00	\$13,000.00
23	Conduct Straddle-Packer Tests	3	EA	\$16,000.00	\$48,000.00
24	Collect and Analyze Water Samples for List B	4	EA	\$600.00	\$2,400.00
25	Drill 12.25" Diameter Pilot Hole to 2,150'	500	LF	\$160.00	\$80,000.00
26	Collect and Analyze Water Samples every 90 feet during reverse air drilling operations for List A	18	EA	\$100.00	\$1,800.00
27	Obtain 4" Diameter x 10' Core	30	LF	\$900.00	\$27,000.00
28	Analysis of Core Sections	6	EA	\$4,000.00	\$24,000.00
29	Geophysical Logging (Static and Dynamic) to 2,150'	1	LS	\$13,000.00	\$13,000.00
30	Specialty Logging - Neutron Porosity Log in pilot hole to 2,150'	1	EA	\$75,000.00	\$75,000.00
31	Conduct Single-Packer Test	1	EA	\$18,000.00	\$18,000.00
32	Collect and Analyze Water Samples for List B	1	EA	\$600.00	\$600.00
33	Conduct Straddle-Packer Tests	2	EA	\$16,000.00	\$32,000.00
34	Collect and Analyze Water Samples for List B	3	EA	\$600.00	\$1,800.00
35	Cement back pilot hole from 2,150' to 1,000'	1,000	SK	\$15.00	\$15,000.00
36	Ream Pilot Hole to Nominal 56" Diameter to 2,100'	1,100	LF	\$210.00	\$231,000.00
37	Geophysical Logging in Reamed Hole	1	LS	\$3,100.00	\$3,100.00
38	Furnish and Install 46" Casina to 2,100' (US Steel)	2,100	LF	\$331.25	\$695,625.00
39	Furnish and Install Cement and Additives Behind 46" Diameter Casina	8,600	SK	\$15.00	\$129,000.00
40	Temperature Logging in 46" Diameter Casina	4	EA	\$3,500.00	\$14,000.00
41	Drill 12.25" Diameter Pilot Hole to 4,000'	1,900	LF	\$210.00	\$399,000.00
42	Collect and Analyze Water Samples every 90 feet during reverse air drilling operations for List A	21	EA	\$100.00	\$2,100.00
43	Obtain 4" Diameter x 10' Core	60	LF	\$900.00	\$54,000.00
44	Analysis of Core Sections	12	EA	\$4,000.00	\$48,000.00
45	Geophysical Logging (Static and Dynamic) to 4,000'	1	LS	\$20,000.00	\$20,000.00

46	Specialty Logging - Neutron Porosity Log in pilot hole to 2,150'	1	EA	\$75,000.00	\$75,000.00
47	Conduct Straddle-Packer Tests	4	EA	\$16,000.00	\$64,000.00
48	Collect and Analyze Water Samples for List B	4	EA	\$600.00	\$2,400.00
49	Install a Drillable Bridge Plug approximately 50 feet below the 36-inch casing setting depth (approximately 2,950 feet bbs)	1	EA	\$10,000.00	\$10,000.00
50	Ream Pilot Hole to Nominal 46" Diameter to 2,900'	800	LF	\$190.00	\$152,000.00
51	Geophysical Logging in Reamed Hole	1	LS	\$4,600.00	\$4,600.00
52	Furnish and Install 36" Casing to 2,900' (US Steel)	2,900	LF	\$187.50	\$543,750.00
53	Furnish and Install Cement and Additives Behind 36" Diameter Casing	10,500	SK	\$15.00	\$157,500.00
54	Temperature Logging in 36" Diameter Casing	7	EA	\$3,500.00	\$24,500.00
55	Cement Bond Log (Modified CBL run pre and post cementing)	1	LS	\$7,000.00	\$7,000.00
56	Pressure Test of 36" Casing	1	LS	\$20,000.00	\$20,000.00
57	Ream Pilot Hole to Nominal 18" Diameter to 4,000'	1,100	LF	\$300.00	\$330,000.00
58	Furnish and Install temporary 13.375-inch casing to 4,000' (US Steel)	4,000	LF	\$187.50	\$750,000.00
59	Furnish and Install Cement and Additives Behind 13.375" Diameter Casing (200-foot fit)	200	SK	\$75.00	\$15,000.00
59	Temperature Logging in 13.375" Diameter Casing	1	EA	\$3,500.00	\$3,500.00
60	Install temporary wellhead and BOP	1	LS	\$300,000.00	\$300,000.00
61	Drill 12.25" Diameter Pilot Hole to 10,000'	6,000	LF	\$230.00	\$1,380,000.00
62	Obtain 4" Diameter x 10' Core	100	LF	\$900.00	\$90,000.00
63	Analysis of Core Sections	20	EA	\$4,000.00	\$80,000.00
64	Geophysical Logging (Static and Dynamic) to 10,000'	1	LS	\$35,000.00	\$35,000.00
65	Specialty Geophysical Logging (includes Neutron Porosity)	1	LS	\$175,000.00	\$175,000.00
66	Conduct Straddle-Packer Tests	10	EA	\$16,000.00	\$160,000.00
67	Collect and Analyze Water Samples for List B	10	EA	\$600.00	\$6,000.00
68	Cement back pilot hole and temporary 13.375" casing from 10,000' to 3,500'	5,500	SK	\$15.00	\$82,500.00
69	Suppress annular artesian head, if needed, and remove BOP assembly	1	LS	\$10,000.00	\$10,000.00
70	Cut the temporary 13.375" casing at 3,750' and remove temporary steel casing from well	1	LS	\$100,000.00	\$100,000.00
71	Ream Pilot Hole to Nominal 24" Diameter to 3,500'	600	LF	\$140.00	\$84,000.00
72	Geophysical Logging in Reamed Hole	1	LS	\$3,100.00	\$3,100.00
73	Pressure Test of 36" Casing	1	LS	\$40,000.00	\$40,000.00
74	Video Survey of 36-inch final steel casing	1	LS	\$4,375.00	\$4,375.00
75	Furnish and Install 24" FRP Tubing to 2,900'	2,900	LF	\$400.00	\$1,160,000.00
76	Furnish and Install Cement and Additives Behind 24" Diameter Tubing	9,000	SK	\$15.00	\$135,000.00
77	Temperature Logging in 24" Diameter Tubing	7	EA	\$3,500.00	\$24,500.00
78	Cement Bond Log	1	LS	\$7,000.00	\$7,000.00
79	Develop Injection Zone	12	HR	\$350.00	\$4,200.00
80	Collect Water Samples List C	1	EA	\$3,000.00	\$3,000.00
81	Complete installation of wellhead fitting and valves	1	LS	\$20,000.00	\$20,000.00
82	Furnish and install temporary piping, pumps and valves to prepare for pumping potable water in well for video survey	1	LS	\$20,000.00	\$20,000.00
83	Conduct final video survey	1	LS	\$8,000.00	\$8,000.00
84	Pressure test FRP tubing	1	LS	\$20,000.00	\$20,000.00
85	Conduct Radioactive Tracer Survey and High Resolution Temperature Log	1	LS	\$56,000.00	\$56,000.00
86	Short-Term Variable Rate Injection Test	1	LS	\$20,000.00	\$20,000.00
87	Final Injection Test	1	LS	\$80,000.00	\$80,000.00
A02 - Injection Well Subtotal					\$9,668,300.00
SUB-TOTAL (A01 + A02)					\$10,516,300.00
Dual Zone Monitor Well (CDIDZMW-1)					
A03	Mobilization & Demobilization of all equipment for CDIDZMW-1 including pad wells	1	LS	\$150,000.00	\$150,000.00
1	Set and cement 46" P/c Casing (US Steel)	1	LS	\$62,500.00	\$62,500.00
2	Drill 12.25" Diameter Pilot Hole to 350'	350	LF	\$170.00	\$59,500.00
3	Geophysical logging to 350'	1	LS	6,000.00	\$6,000.00
4	Ream Pilot Hole to Nominal 46" Diameter to 300'	300	LF	\$210.00	\$63,000.00
5	Geophysical Logging in Reamed Hole	1	LS	2,500.00	\$2,500.00
6	Furnish and Install 36" Casing to 300' (US Steel)	300	LF	\$187.50	\$56,250.00
7	Furnish and Install Cement and Additives Behind 36" Casing	950	SK	15.00	\$14,250.00

9	Drill 12.25" Diameter Pilot Hole to 1,100'	800	LF	\$187.00	\$149,600.00
10	Geophysical Logging to 1,100'	1	LS	8,000.00	\$8,000.00
11	Ream Pilot Hole to Nominal 36" Diameter to 1,000'	700	LF	\$190.00	\$133,000.00
12	Geophysical Logging in Reamed Hole	1	LS	2,500.00	\$2,500.00
13	Furnish and Install 26" Casing to 1,000' (US Steel)	1000	LF	125.00	\$125,000.00
14	Furnish and Install Cement and Additives Behind 26" Diameter Casing	2,600	SK	15.00	\$39,000.00
15	Temperature Logging in 26" Diameter Casing	1	LS	3,500.00	\$3,500.00
16	Install a Washington Rotating Head or comparable flow prevention device	1	LS	5,000.00	\$5,000.00
17	Drill 12.25" Diameter Pilot Hole to 1,700'	700	LF	170.00	\$119,000.00
18	Collect and Analyze Water Samples for List A	8	EA	100.00	\$800.00
19	Geophysical Logging (Static and Dynamic) to 1,700'	1	LS	13,000.00	\$13,000.00
20	Conduct Straddle-Packer Tests	2	EA	16,000.00	\$32,000.00
21	Collect and Analyze Water Samples for List B	4	EA	600.00	\$2,400.00
22	Install drillable bridge plug at 1,140'	1	LS	10,000.00	\$10,000.00
23	Ream Pilot Hole to Nominal 26" Diameter to 1,140'	140	LF	140.00	\$19,600.00
24	Geophysical Logging in Reamed Hole	1	LS	2,500.00	\$2,500.00
25	Furnish and Install 16" Casing to 1,140' (US Steel)	1140	LF	87.50	\$99,750.00
26	Furnish and Install Cement and Additives Behind 16" Casing	2,000	SK	15.00	\$30,000.00
27	Temperature Logging in 16" Diameter Casing	1	LS	3,500.00	\$3,500.00
28	Cement Bond Log	1	LS	7,000.00	\$7,000.00
29	Install temporary wellhead & Conduct pressure test on 16" casing	1	LS	\$20,000.00	\$20,000.00
30	Using 12.25" Diameter bit, drill out bridge plug	1	LS	10,000.00	\$10,000.00
31	Geophysical Logging (Static and Dynamic) to 1,700'	1	LS	10,000.00	\$10,000.00
32	If needed, back-plug the lower section of the pilot hole to establish the base of the LMZ	1	LS	5,000.00	\$5,000.00
33	Furnish and install 6.625" diameter FRP tubing to 1,600'	1600	LF	100.00	\$160,000.00
34	Furnish and Install Cement and Additives Behind 6.625" Diameter Tubing	250	SK	15.00	\$3,750.00
35	Temperature Logging in 6.625" Diameter Tubing	1	LS	3,500.00	\$3,500.00
36	Cement Bond Log	1	LS	7,000.00	\$7,000.00
37	Install temporary wellhead and conduct FRP Pressure test	1	LS	20,000.00	\$20,000.00
38	Develop UMZ and LMZ	16	HR	250.00	\$4,000.00
39	Sample and Provide Water Quality Analyses of Both UMZ and LMZ - List C	2	EA	3,000.00	\$6,000.00
40	Video Survey of Final Tubing and Open Borehole	1	LS	5,000.00	\$5,000.00
41	Finalize installation of wellhead assembly	1	LS	15,000.00	\$15,000.00
A03 - Dual Zone Monitor Well Subtotal					\$1,488,400.00
SUB-TOTAL (A01 + A02 + A03)					\$12,004,700.00
A04	Dedicated Allowances - Injection Well CDIIW-2 (Redundancy Injection Well)				
1	Mobilization & Demobilization of all equipment for CDIIW-2 including pad wells	1	LS	\$425,000.00	\$425,000.00
2	Set and cement 74" Pil Casing (US Steel)	1	LS	\$62,500.00	\$62,500.00
3	Drill 12.25" Diameter Pilot Hole to 350'	350	LF	\$160.00	\$56,000.00
4	Geophysical logging in pilot hole 350'	1	LS	\$5,000.00	\$5,000.00
4	Ream Pilot Hole to Nominal 74" Diameter to 300'	300	LF	\$230.00	\$69,000.00
5	Geophysical Logging in Reamed Hole	1	LS	\$2,500.00	\$2,500.00
6	Furnish and Install 66" Casing to 300' (US Steel)	300	LF	\$487.50	\$146,250.00
7	Furnish and Install Cement and Additives Behind 66" Diameter Casing	1,300	SK	\$15.00	\$19,500.00
8	Drill 12.25" Diameter Pilot Hole to 1,100'	800	LF	\$160.00	\$128,000.00
9	Geophysical logging in pilot hole 1,100'	1	LS	\$4,600.00	\$4,600.00
10	Ream Pilot Hole to Nominal 66" Diameter to 1,000'	700	LF	\$210.00	\$147,000.00
11	Geophysical Logging in Reamed Hole	1	LS	\$3,100.00	\$3,100.00
12	Furnish and Install 56" Casing to 1,000' (US Steel)	1000	LF	\$400.00	\$400,000.00
13	Furnish and Install Cement and Additives Behind 56" Diameter Casing	5,100	SK	\$15.00	\$76,500.00
14	Temperature Logging in 56" Diameter Casing	2	EA	\$3,500.00	\$7,000.00
15	Install a Washington Rotating Head or comparable flow prevention device	1	LS	\$5,000.00	\$5,000.00
16	Drill 12.25" Diameter Pilot Hole to 1,850'	850	LF	\$160.00	\$136,000.00
17	Collect and Analyze Water Samples every 90 feet during reverse air drilling operations for List A	19	EA	\$100.00	\$1,900.00

18	Obtain 4" Diameter x 10' Core	40	LF	\$900.00	\$36,000.00
19	Analysis of Core Sections	8	EA	\$4,000.00	\$32,000.00
20	Geophysical Logging (Static and Dynamic) to 1,850'	1	LS	\$13,000.00	\$13,000.00
21	Conduct Packer Tests	4	EA	\$16,000.00	\$64,000.00
22	Collect and Analyze Water Samples for List B	4	EA	\$600.00	\$2,400.00
23	Cement back pilot hole from 1,850' to 1,000'	1,000	SK	\$15.00	\$15,000.00
24	Ream Pilot Hole to Nominal 56" Diameter to 1,850'	1,100	LF	\$210.00	\$231,000.00
25	Geophysical Logging in Reamed Hole	1	LS	\$3,100.00	\$3,100.00
26	Furnish and Install 46" Casing to 1,800' (US Steel)	1,800	LF	\$331.25	\$596,250.00
27	Furnish and Install Cement and Additives Behind 46" Diameter Casing	8,600	SK	\$15.00	\$129,000.00
28	Temperature Logging in 46" Diameter Casing	4	EA	\$3,500.00	\$14,000.00
29	Drill 12.25" Diameter Pilot Hole to 3,500	1,650	LF	\$210.00	\$346,500.00
30	Collect and Analyze Water Samples every 90 feet during reverse air drilling operations for List A	37	EA	\$100.00	\$3,700.00
31	Obtain 4" Diameter x 10' Core	60	LF	\$900.00	\$54,000.00
32	Analysis of Core Sections	12	EA	\$4,000.00	\$48,000.00
33	Geophysical Logging (Static and Dynamic) to 3,500'	1	LS	\$20,000.00	\$20,000.00
34	Conduct Straddle-Packer Tests	4	EA	\$16,000.00	\$64,000.00
35	Collect and Analyze Water Samples for List B	4	EA	\$600.00	\$2,400.00
36	Install a Drillable Bridge Plug approximately 50 feet below the 36-inch casing setting depth (approximately 2,950 feet bbs)	1	EA	\$10,000.00	\$10,000.00
37	Ream Pilot Hole to Nominal 46" Diameter to 2,900'	800	LF	\$180.00	\$152,000.00
38	Geophysical Logging in Reamed Hole	1	LS	\$4,600.00	\$4,600.00
39	Furnish and Install 36" Casing to 2,900' (US Steel)	2,900	LF	\$187.50	\$543,750.00
40	Furnish and Install Cement and Additives Behind 36" Diameter Casing	10,500	SK	\$15.00	\$157,500.00
41	Temperature Logging in 36" Diameter Casing	7	EA	\$3,500.00	\$24,500.00
42	Cement Bond Log (Modified CBL, run pre and post cementing)	1	LS	\$7,000.00	\$7,000.00
43	Pressure Test of 36" Casing	1	LS	\$20,000.00	\$20,000.00
44	Video Survey of 36-inch final steel casing	1	LS	\$5,000.00	\$5,000.00
45	Ream Pilot Hole to Nominal 24" Diameter to 3,500'	600	LF	\$140.00	\$84,000.00
46	Geophysical Logging in Reamed Hole	1	LS	\$3,100.00	\$3,100.00
47	Furnish and Install 24" FRP Tubing to 2,900'	2,900	LF	\$400.00	\$1,160,000.00
48	Furnish and Install Cement and Additives Behind 24" Diameter Tubing	9,000	SK	\$15.00	\$135,000.00
49	Temperature Logging in 24" Diameter Tubing	7	EA	\$3,500.00	\$24,500.00
50	Cement Bond Log	1	LS	\$7,000.00	\$7,000.00
51	Develop Injection Zone	12	HR	\$350.00	\$4,200.00
52	Collect Water Samples List C	1	EA	\$3,000.00	\$3,000.00
53	Complete installation of wellhead fitting and valves	1	LS	\$20,000.00	\$20,000.00
54	Furnish and install temporary piping, pumps and valves to prepare for pumping potable water in well for video survey	1	LS	\$20,000.00	\$20,000.00
55	Conduct final video survey	1	LS	\$5,000.00	\$5,000.00
56	Pressure test FRP tubing	1	LS	\$20,000.00	\$20,000.00
57	Conduct Radioactive Tracer Survey and High Resolution Temperature Log	1	LS	\$56,000.00	\$56,000.00
58	Short-Term Variable Rate Injection Test	1	LS	\$20,000.00	\$20,000.00
59	Final Injection Test	1	LS	\$80,000.00	\$80,000.00
A04 - Injection Well Subtotal					\$6,935,360.00
SUB-TOTAL (A01 + A02 + A03 + A04)					\$17,940,050.00
A05 Dedicated Allowances - Bid Items					
1	Lost Circulation Zone Gravel Contingency Credit	403	CY	50.00	20,150.00
2	H ₂ S Environment Monitoring	1	EA	300,000.00	300,000.00
3	Standby Time (max 12 hr/day)	250	HR	500.00	125,000.00
4	Permitting	1	LS	358,801.00	358,801.00
3	Contingency	1	LS	1,794,005.00	1,794,005.00
A05 - Alternate Bid Items Subtotal					2,597,956.00
TOTAL, ALL BID ITEMS ABOVE					\$20,538,006.00

FY 2013 - 14 Adopted Budget and Multi-Year Capital Plan

CENTRAL DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT

PROJECT #: 9653421

DESCRIPTION: Construct digester improvements, digested sludge holding tanks, miscellaneous electrical improvements, outfall rehabilitation, a new gas pipeline, a new flushing water line, and a sludge handling facility; various upgrades and rehabilitation of plant including pump stations 1 and 2

LOCATION: Virginia Key
City of Miami

District Located: 7
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	FUTURE	TOTAL
Wastewater Renewal Fund	2,889	0	0	0	0	0	0	0	2,889
Future WASH Revenue Bonds	0	0	11,260	8,160	4,788	5,710	4,700	0	34,618
WASH 2013 Revenue Bond	2,464	0	0	0	0	0	0	0	2,464
WASH Revenue Bonds Sold	300	0	0	0	0	0	0	0	300
WASH Future Funding	0	0	0	0	0	0	0	453,430	453,430
TOTAL REVENUES:	5,453	0	11,260	8,160	4,788	5,710	4,700	453,430	493,501
EXPENDITURE SCHEDULE:	PRIOR	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	FUTURE	TOTAL
Planning and Design	243	246	1,009	731	429	512	421	40,627	44,218
Construction	2,468	2,496	10,251	7,429	4,359	5,198	4,279	412,803	449,283
TOTAL EXPENDITURES:	2,711	2,742	11,260	8,160	4,788	5,710	4,700	453,430	493,501

Estimated Annual Operating Impact will begin in FY 2015-16 in the amount of \$200,000

WATER SYSTEM FIRE HYDRANT INSTALLATION

PROJECT #: 9653461

DESCRIPTION: Install fire hydrants and construct related system improvements

LOCATION: Systemwide
Various Sites

District Located: Systemwide
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	FUTURE	TOTAL
Fire Hydrant Fund	11,825	2,000	2,500	2,500	2,500	2,500	3,000	6,717	33,542
TOTAL REVENUES:	11,825	2,000	2,500	2,500	2,500	2,500	3,000	6,717	33,542
EXPENDITURE SCHEDULE:	PRIOR	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	FUTURE	TOTAL
Planning and Design	1,065	193	241	241	241	241	289	723	3,234
Construction	9,977	1,807	2,259	2,259	2,259	2,259	2,711	6,777	30,308
TOTAL EXPENDITURES:	11,042	2,000	2,500	2,500	2,500	2,500	3,000	7,500	33,542

NORTH MIAMI-DADE WATER TRANSMISSION MAIN IMPROVEMENTS

PROJECT #: 9654031

DESCRIPTION: Install 36-inch water main along NW 87 Ave to improve transmission capabilities in the north - central area of the county; and a 48-inch water main connection to the Carol City tank

LOCATION: North Miami-Dade County Area
Miami Gardens

District Located: Systemwide
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	FUTURE	TOTAL
Future WASH Revenue Bonds	0	0	692	3,581	2,732	0	0	0	7,005
WASH Revenue Bonds Sold	2,690	0	0	0	0	0	0	0	2,690
TOTAL REVENUES:	2,690	0	692	3,581	2,732	0	0	0	9,695
EXPENDITURE SCHEDULE:	PRIOR	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	FUTURE	TOTAL
Planning and Design	322	0	83	428	326	0	0	0	1,159
Construction	2,368	0	609	3,153	2,406	0	0	0	8,536
TOTAL EXPENDITURES:	2,690	0	692	3,581	2,732	0	0	0	9,695



Small Business Development Division
Project Worksheet

Project/Contract Title: CENTRAL DISTRICT WASTEWATER TREATMENT PLANT INDUSTRIAL WASTE DEEP INJECTION WELL SYSTEM
Received Date: 01/17/2014
Project/Contract No: S-869
Funding Source: EW 658/WASD REVENUE BONDS SOLD
Department: WATER & SEWER DEPARTMENT
Resubmittal Date(s): 01/17/2014
Estimated Cost of Project/Bid: \$20,538,006.00

Description of Project/Bid: The work of Contract No. S-869 is for the construction of industrial waste deep injection wells at the Central District Wastewater Treatment Plant located in Virginia Key, 3851 Rickenbacker Causeway, Section 16, Township 54, Range 42, Miami-Dade County, Florida 33149. This project consists of furnishing all materials, labor and equipment necessary to construct an injection well approximately 10,000 feet deep and a second (redundant) injection well to approximately 3,500 feet deep, complete. The project also includes, but is not limited to, constructing drilling pilot holes, monitoring well, furnishing and installing all required steel casing and reinforced fiber pipe (FRP) tubing, well development, environmental monitoring, all required testing and startup; and all other

Contract Measure Recommendation

Table with 3 columns: Measure, Program, Goal Percent. Row 1: No Measure, CSBE

Reasons for Recommendation

An analysis of the factors of the trade required for this contract, as well as an analysis of the availability of CSBEs revealed insufficient availability. Verification of Availability to Bid Letters were sent to CSBE certified firms. There were no responses from any of the firms indicating that they were able to meet the project's requirements. This project is primarily a single trade contract with special requirements for bidders to hold a license from the Florida HRS Bureau of Radiation Control and Well Drilling Contractor. THIS PROJECT IS A RE-SUBMITTAL FROM 1/17/2014: NO CHANGES IN SCOPE & QUANTITY OF MATERIAL. INCREASE IN OVERALL COST OF CONTRACT AS A RESULT OF INCREASED MOBILIZATION COST; DUE TO THE POSSIBLE NEED TO BRING DRILLING EQUIPMENT TO THE SITE BY BARGE. CWP Not Applicable: Not in DTA

Trade Category: 237990-Other Heavy And Civil Engineering Construction

Small Business Contract Measure Recommendation

Table with 5 columns: Subtrade, Cat., Estimated Value, % of Items to Base Bid, Availability. Row 1: Other Heavy and Civil Engineering Construction, CSBE, 757

Total

Living Wages: YES [] NO [X] Highway: YES [] NO [X] Heavy Construction: YES [X] NO []
Responsible Wages: YES [X] NO [] Building: YES [] NO [X]

Responsible Wages and Benefits applies to all construction projects over \$100,000 that do not utilize federal fund. For federally funded projects, unless prohibited by federal or state law or disallowed by a governmental funding source, the HIGHER wage between Davis Bacon and Responsible Wages and Benefits shall apply.

REVIEW RECOMMENDATION

Tier 1 Set Aside Tier 2 Set Aside
Set Aside Level 1 Level 2 Level 3
Trade Set Aside (MCC) Goal Bid Preference
No Measure Deferred Selection Factor
CWP SBD Director Date 3/14/14