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CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

Memorandum

MIAMI-DADE COUNTY

Date: December 1, 2015

To: Honorable Chairman Jean Monestime
and Members, Board of County Commissioners

From: Carlos A. Gimenez
Mayor

Agenda Item No. 8(O)(4)

Resolution No. R-1095-15

Subject:: Resolution Approving the Certification of Financial Responsibility Pursuant to Rule 62-528.435(9) of the Florida Administrative Code for the Construction of Two Injection Wells at the County's Central District Wastewater Treatment Plant and One Related Monitoring Well

Recommendation

It is recommended that the Board of County Commissioners (Board) approve the attached resolution that approves the Certification of Financial Responsibility (Exhibit A) pursuant to Rule 62-528.435(9) of the Florida Administrative Code.

This Certification of Financial Responsibility confirms that the County has the financial resources necessary to close, plug and abandon two (2) Class I underground injection wells and one (1) related monitoring well that will be constructed by Miami-Dade County at the Central Wastewater District Plant after a permit is issued by the Florida Department of Environmental Protection (FDEP). This certification is a requirement of FDEP's permit application and approval process. The permit will allow the Miami-Dade Water and Sewer Department (WASD) to construct the two (2) Class I underground injection wells at the Central District Wastewater Treatment Plant and the related monitoring well, which is an auxiliary requirement.

Scope

This item is of countywide significance because the County's wastewater system is interconnected. The two (2) Class I underground injection wells and one (1) monitoring well are located in District 7, which is represented by Commissioner Xavier L. Suarez.

Fiscal Impact/Funding Source

There is no fiscal impact related to Board approval of this Certification of Financial Responsibility. There will only be a fiscal impact if a well is plugged and abandoned. In the event that any of the wells need to be plugged and abandoned, the estimated cost for each well is itemized in Exhibit B. The funding source for plugging and abandoning a well would be sewer operations and maintenance revenue.

Track Record//Monitor

WASD's Assistant Director of Regulatory Compliance and Planning, Bertha Goldenberg, P.E., will oversee the process of maintaining the Certification of Financial Responsibility to ensure compliance with the requirements of FDEP's permit application.

Background

The Central District Wastewater Treatment Plant, located at 3989 Rickenbacker Causeway in Virginia Key treats approximately 143 million gallons of wastewater per day. The treated effluent is discharged via an ocean outfall located three (3) miles off the coast.

To comply with the State's Ocean Outfall Legislation, which mandates that all ocean outfalls statewide cease operations by December 31, 2025, the County has applied for a Class I industrial waste injection well construction permit from FDEP for two (2) Class I injection wells and one (1) monitoring well at the

Central District Wastewater Treatment Plant. The injection wells will be used to divert flows of treated wastewater effluent from the existing ocean outfall into an underground formation known as the Boulder Zone, which is approximately 3,000 feet below the ground surface. The monitoring well will be used to monitor groundwater quality above the injection zone.

On October 30, 2013, FDEP issued a Class V exploratory well permit to WASD for construction of one (1) exploratory well at the Central District Wastewater Treatment Plant, which was to be used for collection of geologic and hydrogeologic data. Construction has started on the Class V exploratory well, and the data collected to date supports the conversion of the exploratory well permit to a construction permit for the two (2) Class I injection wells and one (1) monitoring well. Accordingly, on July 29, 2015, WASD submitted an application for a construction permit for two (2) Class I underground injection wells and one (1) monitoring well to FDEP. The permit for both types of wells is issued for a five (5) year period and is required to complete construction of the injection wells and the monitoring well and to conduct operational testing.

In accordance with Rule 62-528.435(9) of the Florida Administrative Code, the County must demonstrate it has the ability to maintain the financial responsibility and resources necessary to close, plug, and abandon the underground injection operations as a condition to the issuance of any injection well operation permit. The Certification of Financial Responsibility confirms Miami-Dade County's ability to comply with Rule 62-528.435(9) of the Florida Administrative Code.

Jack Osterholt
Deputy Mayor

Exhibit A

CERTIFICATION OF FINANCIAL RESPONSIBILITY

The County of Miami-Dade, a unit of local government of the State of Florida, hereby certifies that it has unconditionally obligated itself to have the financial resources necessary to close, plug, and abandon its Class I underground injection well(s) and related monitoring wells, as required by Chapter 62-528, Florida Administrative Code. It is further understood that the cost estimate to conduct plugging and abandonment, established on July 16, 2015, shall be reviewed on an annual basis and this obligation shall incorporate accumulated inflation costs. An annual adjustment exceeding 10 percent in any one year shall require submission of an updated certification form.

Facility where the wells will be located and operated:

Facility Name: Central District Wastewater Treatment Plant

Facility Address: 3989 Rickenbacker Causeway, Miami, Fl 33149

Facility Contact: Francois Saint-Phard

Phone Number: 786-552-4213

Latitude/Longitude of Facility: 25°44'41.53" / 80°08'49.85"

DEP/EPA Identification Number: FLS: FLA024805

Total Current Plugging and Abandonment Cost Estimate (all wells): $864,877

List of facility injection wells and associated monitoring well covered by this Certification:

Injection Well No. CDIIW-1

DEP/EPA Identification Number:	FLA024805
Latitude/Longitude of Injection Well:	25°44'55.42" / 80°08'50.50"
Current Plugging and Abandonment Cost Estimate:	$384,442

Injection Well No. CDIIW-2

DEP/EPA Identification Number:	FLA024805
Latitude/Longitude of Injection Well:	25°44'58.39" / 80°08'50.48"
Current Plugging and Abandonment Cost Estimate:	$384,442

Monitoring Well No. CDIDZMW-1

DEP/EPA Identification Number:	FLA024805
Latitude/Longitude of Injection Well:	25°44'56.91" / 80°08' 50.49"
Current Plugging and Abandonment Cost Estimate:	$ 95,993

It is hereby understood that the cancellation of this certification may not take place without the prior written consent of the Secretary of the Florida Department of Environmental Protection.

_____
(Signature)

Carlos A. Gimenez
(Print Name)

Mayor of Miami-Dade County
(Title)

_____
(Date)

APPROVED FOR LEGAL SUFFICIENCY:

Sarah Esquivel Davis
Assistant County Attorney

STATE OF FLORIDA
COUNTY OF MIAMI-DADE

Sworn to (or affirmed) and subscribed before me this _____ day of

_____ 2015, by _____ of the

Miami-Dade County, who is personally known to me,

_____

(SEAL)

EXHIBIT B

Miami-Dade Water and Sewer Department CDWWTP Injection Well System
Plugging and Abandonment Opinion of Cost
Jul-2015

	Unit Cost	Unit	Number of Units	July 2015 Total Cost
CDWWTP Injection Well CDIIW-1				
1 Mobilize the drill rig and kill the well	$60,000	LS	1	$60,000
2 Remove Wellhead	$5,000	LS	1	$5,000
3 Geophysical logging	$15,000	LS	1	$15,000
4 Install gravel in the Injection zone open hole from 3,500 feet bls to 2,910 feet bls	$25	CF	1,131	$28,274
5 Fill the 23.78-inch Inside Diameter (ID) FRP tubing to land surface with neat cement	$20	CF	8,066	$161,327
6 Complete below ground/add monument	$5,000	LS	1	$5,000
Plug and Abandonment of Injection Well Only Cost				$274,602
20 Percent Contingency				$54,920
20 Engineering Fees				$54,920
TOTAL ESTIMATED COST FOR INJECTION WELL CDIIW-1				**$384,442**
CDWWTP Injection Well CDIIW-2				
1 Mobilize the drill rig and kill the well	$60,000	LS	1	$60,000
2 Remove Wellhead	$5,000	LS	1	$5,000
3 Geophysical logging	$15,000	LS	1	$15,000
4 Install gravel in the injection zone open hole from 3,500 feet bls to 2,910 feet bls	$25	CF	1,131	$28,274
5 Fill the 23.78-inch Inside Diameter (ID) FRP tubing to land surface with neat cement	$20	CF	8,066	$161,327
6 Complete below ground/add monument	$5,000	LS	1	$5,000
Plug and Abandonment of Injection Well Only Cost				$274,602
20 Percent Contingency				$54,920
20 Engineering Fees				$54,920
TOTAL ESTIMATED COST FOR INJECTION WELL CDIIW-2				**$384,442**
CDWWTP Dual-Zone Monitor Well CDIDZMW-1				
Lower Monitor Zone				
1 Mobilize the drill rig and kill the well	$15,000	LS	1	$15,000
2 Remove Wellhead	$5,000	LS	1	$5,000
3 Geophysical logging	$10,000	LS	1	$10,000
4 Install gravel in the Lower Zone open hole from 1,700 feet bls to 1,660 feet bls	$25	CF	33	$818
5 Fill the 6.625-inch casing from 1,660 feet bls to land surface with neat cement	$20	CF	333	$6,664
Upper Monitor Zone				
1 Install gravel in the annular space between the 16-inch OD and 6.625-inch casings from 1,300 feet bls to 1,260 feet bls	$25	CF	46	$1,157
2 Fill annular space between the 16-inch OD and 6.625-inch OD casings from 1,260 to land surface with neat cement	$20	CF	1,246	$24,926
3 Complete below ground/add monument	$5,000	LS	1	$5,000
Plug and Abandonment of Dual Zone Monitor Well Only Cost				$68,566
20 Percent Contingency				$13,713
20 Percent Engineering Fees				$13,713
TOTAL ESTIMATED COST FOR DUAL ZONE MONITOR WELL CDIDZMW-1				**$95,993**
TOTAL ESTIMATED COST - INJECTION WELLS				$768,884
TOTAL ESTIMATED COST - DUAL ZONE MONITOR WELL				$95,993

MEMORANDUM

(Revised)

TO: Honorable Chairman Jean Monestime
and Members, Board of County Commissioners

DATE: December 1, 2015

FROM: Abigail Price-Williams
County Attorney

SUBJECT: Agenda Item No. 8(O)(4)

Please note any items checked.

_____ **"3-Day Rule" for committees applicable if raised**

_____ **6 weeks required between first reading and public hearing**

_____ **4 weeks notification to municipal officials required prior to public hearing**

_____ **Decreases revenues or increases expenditures without balancing budget**

_____ **Budget required**

_____ **Statement of fiscal impact required**

_____ **Ordinance creating a new board requires detailed County Mayor's report for public hearing**

_____ **No committee review**

_____ **Applicable legislation requires more than a majority vote (i.e., 2/3's ____, 3/5's ____, unanimous _____) to approve**

_____ **Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(O)(4)
12-1-15

RESOLUTION NO. R-1095-15

RESOLUTION APPROVING THE CERTIFICATION OF FINANCIAL RESPONSIBILITY PURSUANT TO RULE 62-528.435(9) OF THE FLORIDA ADMINISTRATIVE CODE, FOR THE CONSTRUCTION OF TWO CLASS I UNDERGROUND INJECTION WELLS AT MIAMI-DADE COUNTY'S CENTRAL DISTRICT WASTEWATER TREATMENT PLANT AND ONE RELATED MONITORING WELL; AND AUTHORIZING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EXECUTE SAME FOR AND ON BEHALF OF MIAMI-DADE COUNTY AND TO EXERCISE THE PROVISIONS CONTAINED THEREIN

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board hereby approves the Certification of Financial Responsibility pursuant to Rule 62-528.435(9) of the Florida Administrative Code, as required by the State of Florida Department of Environmental Protection, in connection with the construction of two (2) Class I underground injection wells at Miami-Dade County's Central District Wastewater Treatment Plant and one (1) related monitoring well, in substantially the form attached to the accompanying memorandum as Exhibit A and made a part hereof. The Board also authorizes the County Mayor or County Mayor's designee to execute same for and on behalf of Miami-Dade County, Florida and to exercise the provisions contained therein.

The foregoing resolution was offered by Commissioner **Sally A. Heyman**, who moved its adoption. The motion was seconded by Commissioner **José "Pepe" Diaz** and upon being put to a vote, the vote was as follows:

Jean Monestime, Chairman	**aye**		
Esteban L. Bovo, Jr., Vice Chairman	**absent**		
Bruno A. Barreiro	**aye**	Daniella Levine Cava	**aye**
Jose "Pepe" Diaz	**aye**	Audrey M. Edmonson	**aye**
Sally A. Heyman	**aye**	Barbara J. Jordan	**aye**
Dennis C. Moss	**aye**	Rebeca Sosa	**aye**
Sen. Javier D. Souto	**aye**	Xavier L. Suarez	**aye**
Juan C. Zapata	**absent**		

The Chairperson thereupon declared the resolution duly passed and adopted this 1st day of December, 2015. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: Christopher Agrippa
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency. SED

Sarah E. Davis