Memorandum

MIAMI-DADE COUNTY

Date: May 5, 2020

To: Honorable Chairwoman Audrey M. Edmonson and Members, Board of County Commissioners

Agenda Item No. 8(O)(3)

From: Carlos A. Gimenez Mayor

Subject: Resolution Approving the Certification of Financial Responsibility Pursuant to Rule 62-528.435(9) of the Florida Administrative Code for Deep Injection and Dual Zone Monitoring Wells at the County's Future South Miami Heights Water Treatment Plant

RECOMMENDATION

It is recommended that the Board of County Commissioners (Board) approve the attached resolution that approves the Certification of Financial Responsibility (attached hereto as Exhibit A) pursuant to Rule 62-528.435(9) of the Florida Administrative Code in order to comply with the requirements necessary for a Florida Department of Environmental Protection (FDEP) Class I Operational Permit.

This Certification of Financial Responsibility confirms that the County has the financial resources necessary to close, plug and abandon one existing Class I underground injection well and one existing related dual zone monitoring well located at the South Miami Heights (SMH) Water Treatment Plant located at 11800 S.W. 208th Street, Miami-Dade County, Florida. This certification is a requirement of FDEP's permit application and approval process for a Class I Injection Well. The FDEP permit will allow the Miami-Dade Water and Sewer Department (WASD) to operate the deep injection well (DIW) system in the future. The related dual zone monitoring well is an auxiliary requirement.

SCOPE

This item is of countywide significance as part of the County's water supply planning. The injection well and monitoring well are located in District 9, which is represented by Commissioner Dennis C. Moss.

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 any of the wells need to be plugged and abandoned, the estimated cost for each well is itemized on Exhibit B. If necessary, the funding source for plugging and abandoning a well will be sewer operations and maintenance revenue.

TRACK RECORD/MONITOR

WASD's Assistant Director of Planning and Regulatory Compliance, Josenrique Cueto, P.E., will oversee WASD's process of maintaining the Certification of Financial Responsibility to ensure compliance with the requirements of the FDEP Class I Operational Permit.

BACKGROUND

The SMH Water Treatment Plant is the proposed location of the future South Miami Heights Reverse Osmosis Water Treatment Plant. Construction of the deep injection well and dual zone monitoring well

were completed in 2017 as part of a study to obtain geologic and hydrogeologic data to evaluate the feasibility and potential for the possible use of the Floridan Aquifer water supply source at SMH. In the future, the DIW system will be utilized for the concentrate disposal of the future Reverse Osmosis Water Treatment Plant process. Construction of the DIW system was permitted under FDEP Class V Exploratory Well Permit 0324479-001-UC/5X, which expired on July 24, 2019. In order to operate the DIW system in the future, WASD must obtain a FDEP Class I Operational Permit.

In accordance with Rule 62-528.435(9) of the Florida Administrative Code, in order to obtain the FDEP Class I Operational Permit, the County must demonstrate it has the financial responsibility and resources necessary to close, plug, and abandon the underground injection operations. The Certification of Financial Responsibility confirms the 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 June 26, 2019, shall be updated (30) months after the date of permit issuance and this obligation shall incorporate accumulated inflation costs. An increase exceeding 10 percent compared with the amount stated below shall require submission of an updated certification form.

Injection Wells and Monitoring Wells Covered by this Agreement:

Facility Name: South Miami Heights Water Treatment Plant

Facility Address: 11800 S.W. 208th Street, Miami, Florida

Facility Contact: Josenrique Cueto, P.E., Assistant Director

Phone Number: 786-552-8884

Latitude/Longitude of Injection Well: 25° 34' 17.18" / 80° 22' 41.49"

Current Permit Number: 0324479-002-UC_1X

Total Current Plugging and Abandonment Cost Estimate: $410,428

Exhibit A

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 AS TO FORM:

_____
Office of the County Attorney

STATE OF FLORIDA
COUNTY OF MIAMI-DADE

Sworn to (or affirmed) and subscribed before me this _____ day of _____ 2019, by

_____ of the Miami-Dade County, who is personally known

to me,

_____
Notary Signature

_____
Print, Type or Stamp Commissioned Name of Notary Public

Apply Seal of Notary Public – State of Florida

Exhibit B

WASD South Miami Heights WTP Injection Well System
Plugging and Abandonment Opinion of Cost
Jun-2019

	Unit Cost	Unit	Number of Units	JUNE 2019 Total Cost
WASD South Miami Heights WTP Injection Well				
1 Mobilize the drill rig and kill the well	$63,000	LS	1	$63,000
2 Remove Wellhead	$10,000	LS	1	$10,000
3 Geophysical logging	$15,000	LS	1	$15,000
4 Install gravel in the injection zone open hole from 2,780 feet bls to 3,500 feet bls	$12	CF	1,593	$19,111
5 Fill the 18.80-inch Inside Diameter (ID) steel casing from 2,780 feet bls to land surface with neat cement	$24	CF	4,075	$97,802
6 Complete below ground/add monument	$10,000	LS	1	$10,000
Plug and Abandonment of Injection Well Only Cost				$214,912
20 Percent Contingency				$42,982
20 Engineering Fees				$42,982
TOTAL ESTIMATED COST PER INJECTION WELL				**$300,877**
WASD South Miami Heights WTP Monitoring Well				
Lower Monitoring Zone				
1 Mobilize the drill rig and kill the well	$15,000	LS	1	$15,000
2 Remove Wellhead	$4,000	LS	1	$4,000
3 Geophysical logging	$10,000	LS	1	$10,000
4 Install gravel in the Lower Zone open hole from 1,760 feet bls to 1,821 feet bls	$40	CF	50	$1,997
5 Fill the 5.97-inch OD FRP tubing from 1,760 feet bls to land surface with neat cement	$24	CF	290	$6,951
Upper Monitoring Zone				
1 Install gravel in the annular space between the 16-inch OD casing and 5.97-inch OD tubing from 1,450 feet bls to 1,490 feet bls	$40	CF	35	$1,399
2 Fill annular space between the 16-inch OD casing and 5.97-inch OD tubing from 1,450 to land surface with neat cement	$24	CF	1,496	$35,903
3 Complete below ground/add monument	$3,000	LS	1	$3,000
Plug and Abandonment of Dual Zone Monitoring Well Only Cost				$78,250
20 Percent Contingency				$15,650
20 Engineering Fees				$15,650
TOTAL ESTIMATED COST FOR MONITORING WELL				**$109,551**
TOTAL ESTIMATED COST - ONE INJECTION WELL				$300,877.42
TOTAL ESTIMATED COST - ONE MONITORING WELL				$109,551
TOTAL				**$410,428**

1 This cost estimate does not include monitoring or testing prior to abandonment.
2 Costs assume each well is abandoned at different times.
3 Costs do not assume post-closure monitoring.

Injection Well and Monitoring Well
Plugging & Abandonment Opinion of Cost
Miami-Dade Water and Sewer Department South Miami Heights
South Miami, Miami, FL

QUALITY. VALUE. ECONOMIC GROWTH.
WWW.MIAMIDADE.GOV/WATER

MEMORANDUM

(Revised)

TO: Honorable Chairwoman Audrey M. Edmonson and Members, Board of County Commissioners

DATE: May 5, 2020

FROM: Abigail Price-Williams County Attorney

SUBJECT: Agenda Item No. 8(O)(3)

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

_____ Statement of social equity 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 present ____, 2/3 membership ____, 3/5's ____, unanimous ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) ____, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) ____) 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)(3)
5-5-20

RESOLUTION NO. _____

RESOLUTION APPROVING THE CERTIFICATION OF FINANCIAL RESPONSIBILITY PURSUANT TO RULE 62-528.435(9) OF THE FLORIDA ADMINISTRATIVE CODE FOR THE OPERATION OF ONE CLASS I UNDERGROUND INJECTION WELL AND ONE RELATED DUAL ZONE MONITORING WELL AT MIAMI-DADE COUNTY'S SOUTH MIAMI HEIGHTS WATER TREATMENT PLANT; 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 operation of one Class I underground injection well and one related dual zone monitoring well at Miami-Dade County's South Miami Heights Water Treatment Plant, 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 , who moved its adoption. The motion was seconded by Commissioner and upon being put to a vote, the vote was as follows:

Audrey M. Edmonson, Chairwoman
Rebeca Sosa, Vice Chairwoman

Esteban L. Bovo, Jr.	Daniella Levine Cava
Jose "Pepe" Diaz	Sally A. Heyman
Eileen Higgins	Barbara J. Jordan
Joe A. Martinez	Jean Monestime
Dennis C. Moss	Sen. Javier D. Souto
Xavier L. Suarez	

The Chairperson thereupon declared the resolution duly passed and adopted this 5th day of May, 2020. 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:_____
Deputy Clerk

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

Sarah E. Davis