

# Memorandum



**Date:** June 4, 2019

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

Agenda Item No. 8(0)(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 North District Wastewater Treatment Plant

## **RECOMMENDATION**

It is recommended that the Board of County Commissioners (Board) approve the attached resolution that approves the Certification of Financial Responsibility (see 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 four existing Class I underground injection wells and four existing related monitoring wells and to close, plug and abandon five Class I underground injection wells and four related monitoring wells that will be constructed by the County at the North District Wastewater Treatment 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 construction permit will allow the Miami-Dade Water and Sewer Department (WASD) to construct five new Class I underground injection wells and two of the new related monitoring wells. WASD has a FDEP permit renewal application to operate the existing four Class I underground injection wells at the North District Wastewater Treatment Plant and to construct two additional monitoring wells. The related monitoring wells are an auxiliary requirement.

## **SCOPE**

This item is of countywide significance as the County's wastewater system is interconnected. The injection wells and monitoring wells are located in District 4, which is represented by Commissioner Sally A. Heyman.

## **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 in Exhibit B. Sewer operations and maintenance revenue is the funding source used for plugging and abandoning a well.

## **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 Florida Department of Environmental Protection's permit application.

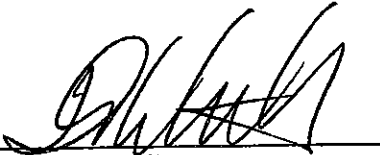
## **BACKGROUND**

The North District Wastewater Treatment Plant is located at 2575 Northeast 156th Street, North Miami, Florida and was constructed within a five-year period from July 1975 through December 1980 to dispose of secondary treated domestic effluent through ocean outfall. Subsequently, to address peak flow issues, between 1994 and 1997, WASD constructed an injection well (IW) system consisting of four Class I

municipal injection wells and four associated Floridan aquifer monitor wells to meet all effluent discharge demands. The injection well disposal capacity at the North District Wastewater Treatment Plant is 70.87 MGD, and the treated effluent is discharged into an underground formation known as the Boulder Zone. To comply with the State's Ocean Outfall Legislation, which mandates that all ocean outfalls statewide cease operations on December 31, 2025, the County will construct an additional five injection wells and two monitoring wells at the North District Wastewater Treatment Plant.

WASD submitted to FDEP a Class I underground injection well operation permit renewal application on November 20, 2018 for the continued operation of the existing injection well system and for construction of an additional two monitoring wells. WASD is in the process of completing the permit application for the construction of additional five injection wells and two additional monitoring wells as part of the Ocean Outfall Legislation Compliance Plan to expand treated effluent disposal capacity at the North District Wastewater Treatment Plant and to dispose of wastewater effluent into the Boulder Zone. The additional monitoring wells will be used to monitor groundwater quality above the injection zone.

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 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 September 1, 2018, 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: North District Wastewater Treatment Plant

Facility Address: 2575 NE 156<sup>th</sup> Street, North Miami, Florida, 33160

Facility Contact: Francois Saint-Phard, Chief Plant Operator

Phone Number: 786-268-5900

Latitude/Longitude of Facility: 25° 55' 10" / 80° 09' 01"

DEP/EPA WACS Number: 56453

Total Current Plugging and Abandonment Cost Estimate (all wells): \$ 4,524,999

List of facility injection and associated monitoring well(s) covered by this Certification:

Injection Well IW-1N

DEP/EPA WACS Number: 9067  
Latitude/Longitude of Injection Well: 25°55'14" / 80°08'52"  
Current Plugging and Abandonment Cost Estimate: \$ 440,896

Injection Well IW-2N

DEP/EPA WACS Number: 9068  
Latitude/Longitude of Injection Well: 25°55'10" / 80°08'50"  
Current Plugging and Abandonment Cost Estimate: \$ 423,202

Injection Well IW-3N

DEP/EPA WACS Number: 9069  
Latitude/Longitude of Injection Well: 25°55'06" / 80°08'49"  
Current Plugging and Abandonment Cost Estimate: \$ 431,291

Injection Well IW-4N

DEP/EPA WACS Number: 9070  
Latitude/Longitude of Injection Well: 25°55'05" / 80°08'55"  
Current Plugging and Abandonment Cost Estimate: \$ 439,380

Injection Well IW-5N

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'03" / 80°09'07"  
Current Plugging and Abandonment Cost Estimate: \$ 435,561

Injection Well IW-6N

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'03" / 80°09'10"  
Current Plugging and Abandonment Cost Estimate: \$ 435,561

Injection Well IW-7N

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'03" / 80°09'12"  
Current Plugging and Abandonment Cost Estimate: \$ 435,561

Injection Well IW-8N

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'00" / 80°09'12"  
Current Plugging and Abandonment Cost Estimate: \$ 435,561

Injection Well IW-9N

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'01" / 80°09'08"  
Current Plugging and Abandonment Cost Estimate: \$ 435,561

Monitoring Well FA-1N Upper Zone

DEP/EPA WACS Number: 18892A  
Latitude/Longitude of Injection Well: 25°55'14" / 80°08'51"  
Current Plugging and Abandonment Cost Estimate: \$ 69,259

Monitoring Well FA-1RL Lower Zone

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'14" / 80°08'51"  
Current Plugging and Abandonment Cost Estimate: \$ 57,605

Monitoring Well FA-2N Upper and Lower Zone

DEP/EPA WACS Number: 18895A/B  
Latitude/Longitude of Injection Well: 25°55'09" / 80°08'50"  
Current Plugging and Abandonment Cost Estimate: \$ 81,449

Monitoring Well FA-3N Upper and Lower Zone

DEP/EPA WACS Number: 18898A/B  
Latitude/Longitude of Injection Well: 25°55'05" / 80°08'49"  
Current Plugging and Abandonment Cost Estimate: \$ 81,284

Monitoring Well FA-4N Upper Zone

DEP/EPA WACS Number: 18900A  
Latitude/Longitude of Injection Well: 25°55'05" / 80°08'54"  
Current Plugging and Abandonment Cost Estimate: \$ 68,708

Monitoring Well FA-4RL Lower Zone

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'05" / 80°08'54"  
Current Plugging and Abandonment Cost Estimate: \$ 57,605

Monitoring Well FA-5N Upper and Lower Zone

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'03" / 80°09'08"  
Current Plugging and Abandonment Cost Estimate: \$ 98,257

Monitoring Well FA-6N Upper and Lower Zone

DEP/EPA WACS Number: Not issued yet  
Latitude/Longitude of Injection Well: 25°55'02" / 80°09'12"  
Current Plugging and Abandonment Cost Estimate: \$ 98,257

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,

\_\_\_\_\_  
(SEAL)



## Exhibit B

### WASD North District WWTP Injection Well System Plugging and Abandonment Opinion of Cost Sep-2018

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-1N</b>				
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 2,980 feet bls to 3,300 feet bls	\$12	CF	884	\$10,603
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	8,597	\$206,323
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$314,926
20 Percent Contingency				\$62,985
20 Engineering Fees				\$62,985
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$440,896</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-2N</b>				
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 2,630 feet bls to 3,300 feet bls	\$12	CF	1,850	\$22,200
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	7,587	\$182,087
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$302,287
20 Percent Contingency				\$60,457
20 Engineering Fees				\$60,457
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$423,202</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-3N</b>				
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 2,790 feet bls to 3,300 feet bls	\$12	CF	1,408	\$16,898
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	8,049	\$193,166
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$308,066
20 Percent Contingency				\$61,613
20 Engineering Fees				\$61,613
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$431,291</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-4N</b>				
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 2,950 feet bls to 3,300 feet bls	\$12	CF	986	\$11,597
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	8,510	\$204,246
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$313,843
20 Percent Contingency				\$62,769
20 Engineering Fees				\$62,769
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$439,930</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-5N</b>				
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 2,810 feet bls to 3,300 feet bls	\$12	CF	1,539	\$18,473
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	8,110	\$194,643
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$311,115
20 Percent Contingency				\$62,223
20 Engineering Fees				\$62,223
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$435,561</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-6N</b>				
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 2,810 feet bls to 3,300 feet bls	\$12	CF	1,539	\$18,473
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	8,110	\$194,643
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$311,115
20 Percent Contingency				\$62,223
20 Engineering Fees				\$62,223
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$435,561</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-7N</b>				
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 2,810 feet bls to 3,300 feet bls	\$12	CF	1,539	\$18,473
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	8,110	\$194,643
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$311,115
20 Percent Contingency				\$62,223
20 Engineering Fees				\$62,223
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$435,561</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-8N</b>				
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 2,810 feet bls to 3,300 feet bls	\$12	CF	1,539	\$18,473
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	8,110	\$194,643
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$311,115
20 Percent Contingency				\$62,223
20 Engineering Fees				\$62,223
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$435,561</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP IW-9N</b>				
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 2,810 feet bls to 3,300 feet bls	\$12	CF	1,539	\$18,473
5 Fill the 23.00-inch Inside Diameter (ID) steel casing to land surface with neat cement	\$24	CF	8,110	\$194,643
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Cost				\$311,115
20 Percent Contingency				\$62,223
20 Engineering Fees				\$62,223
<b>TOTAL ESTIMATED COST PER INJECTION WELL</b>				<b>\$435,561</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP FA-1N</b>				
<b>Upper Monitoring Zone</b>				
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 annular space between the 12.75-inch OD casing and 6.625-inch OD tubing from 1,170 feet bls to 1,262 feet bls	\$40	CF	53	\$2,131
5 Fill annular space between the 12.75-inch OD casing and 6.625-inch OD tubing from 1,170 to land surface with neat cement	\$24	CF	639	\$15,340
6 Complete below ground/add monument	\$3,000	LS	1	\$3,000
Plug and Abandonment of Dual Zone Monitoring Well Cost				\$49,471
20 Percent Contingency				\$9,894
20 Engineering Fees				\$9,894
<b>TOTAL ESTIMATED COST FOR MONITORING WELL</b>				<b>\$69,259</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP FA-1NR</b>				
<b>Lower Monitoring Zone</b>				
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 1,420 feet bls to 1,515 feet bls	\$40	CF	78	\$3,110
5 Fill the 6.625-inch OD FRP tubing from 1,420 feet bls to land surface with neat cement	\$24	CF	252	\$6,036
3 Complete below ground/add monument	\$3,000	LS	1	\$3,000
Plug and Abandonment of Dual Zone Monitoring Well Cost				\$41,146
20 Percent Contingency				\$8,229
20 Engineering Fees				\$8,229
<b>TOTAL ESTIMATED COST FOR MONITORING WELL</b>				<b>\$57,605</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP FA-2N</b>				
<b>Lower Monitoring Zone</b>				
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 1,425 feet bls to 1,505 feet bls	\$40	CF	65	\$2,619
5 Fill the 6.625-inch OD FRP tubing from 1,425 feet bls to land surface with neat cement	\$24	CF	252	\$6,057
<b>Upper Monitoring Zone</b>				
1 Install gravel in the annular space between the 12.75-inch OD casing and 6.625-inch OD tubing from 1,160 feet bls to 1,259 feet bls	\$40	CF	57	\$2,293
2 Fill annular space between the 12.75-inch OD casing and 6.625-inch OD tubing from 1,160 to land surface with neat cement	\$24	CF	634	\$15,209
3 Complete below ground/add monument	\$3,000	LS	1	\$3,000
Plug and Abandonment of Dual Zone Monitoring Well Cost				\$58,178
20 Percent Contingency				\$11,636
20 Engineering Fees				\$11,636
<b>TOTAL ESTIMATED COST FOR MONITORING WELL</b>				<b>\$81,449</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP FA-3N</b>				
<b>Lower Monitoring Zone</b>				
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 1,420 feet bls to 1,510 feet bls	\$40	CF	74	\$2,946
5 Fill the 6.625-inch OD FRP tubing from 1,420 feet bls to land surface with neat cement	\$24	CF	252	\$6,036
<b>Upper Monitoring Zone</b>				
1 Install gravel in the annular space between the 12.75-inch OD casing and 6.625-inch OD tubing from 1,170 feet bls to 1,245 feet bls	\$40	CF	43	\$1,737
2 Fill annular space between the 12.75-inch OD casing and 6.625-inch OD tubing from 1,170 to land surface with neat cement	\$24	CF	639	\$15,340
3 Complete below ground/add monument	\$3,000	LS	1	\$3,000
Plug and Abandonment of Dual Zone Monitoring Well Cost				\$58,060
20 Percent Contingency				\$11,612
20 Engineering Fees				\$11,612
<b>TOTAL ESTIMATED COST FOR MONITORING WELL</b>				<b>\$67,284</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP FA-4N</b>				
<b>Upper Monitoring Zone</b>				
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 annular space between the 12.75-inch OD casing and 6.625-inch OD tubing from 1,160 feet bls to 1,259 feet bls	\$40	CF	43	\$1,737
5 Fill annular space between the 12.75-inch OD casing and 6.625-inch OD tubing from 1,160 to land surface with neat cement	\$24	CF	639	\$15,340
6	\$3,000	LS	1	\$3,000
Plug and Abandonment of Dual Zone Monitoring Well Cost				\$49,077
20 Percent Contingency				\$9,815
20 Engineering Fees				\$9,815
<b>TOTAL ESTIMATED COST FOR MONITORING WELL</b>				<b>\$68,708</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP FA-4NR</b>				
<b>Lower Monitoring Zone</b>				
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 1,420 feet bls to 1,515 feet bls	\$40	CF	78	\$3,110
5 Fill the 6.625-inch OD FRP tubing from 1,420 feet bls to land surface with neat cement	\$24	CF	252	\$6,036
3 Complete below ground/add monument	\$3,000	LS	1	\$3,000
Plug and Abandonment of Dual Zone Monitoring Well Cost				\$41,146
20 Percent Contingency				\$8,229
20 Engineering Fees				\$8,229
<b>TOTAL ESTIMATED COST FOR MONITORING WELL</b>				<b>\$57,605</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP FA-5N</b>				
<b>Lower Monitoring Zone</b>				
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 1,410 feet bls to 1,500 feet bls	\$40	CF	74	\$2,946
5 Fill the 6.625-inch OD FRP tubing from 1,410 feet bls to land surface with neat cement	\$24	CF	240	\$5,750
<b>Upper Monitoring Zone</b>				
1 Install gravel in the annular space between the 16-inch OD casing and 6.625-inch OD tubing from 1,160 feet bls to 1,250 feet bls	\$40	CF	52	\$2,085
2 Fill annular space between the 16-inch OD casing and 6.625-inch OD tubing from 1,160 to land surface with neat cement	\$24	CF	1,142	\$27,402
3 Complete below ground/add monument	\$3,000	LS	1	\$3,000
Plug and Abandonment of Dual Zone Monitoring Well Cost				\$70,183
20 Percent Contingency				\$14,037
20 Engineering Fees				\$14,037
<b>TOTAL ESTIMATED COST FOR MONITORING WELL</b>				<b>\$98,257</b>

	Unit Cost	Unit	Number of Units	September 2018 Total Cost
<b>WASD North District WWTP FA-6N</b>				
<b>Lower Monitoring Zone</b>				
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 1,410 feet bls to 1,500 feet bls	\$40	CF	74	\$2,946
5 Fill the 6.625-inch OD FRP tubing from 1,410 feet bls to land surface with neat cement	\$24	CF	240	\$5,750
<b>Upper Monitoring Zone</b>				
1 Install gravel in the annular space between the 16-inch OD casing and 6.625-inch OD tubing from 1,160 feet bls to 1,250 feet bls	\$40	CF	52	\$2,085
2 Fill annular space between the 16-inch OD casing and 6.625-inch OD tubing from 1,160 to land surface with neat cement	\$24	CF	1,142	\$27,402
3 Complete below ground/add monument	\$3,000	LS	1	\$3,000
Plug and Abandonment of Dual Zone Monitoring Well Cost				\$70,183
20 Percent Contingency				\$14,037
20 Engineering Fees				\$14,037
<b>TOTAL ESTIMATED COST FOR MONITORING WELL</b>				<b>\$98,257</b>

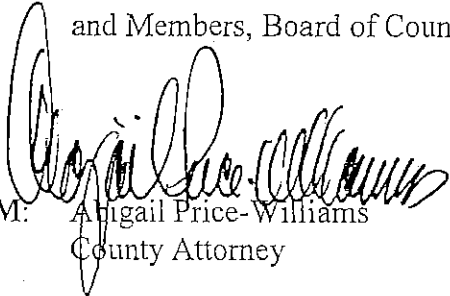
<b>TOTAL ESTIMATED COSTS FOR 9 INJECTION WELLS AND 8 MONITORING WELLS</b>			<b>\$4,524,999</b>
1	This cost estimate does not include monitoring or testing prior to abandonment.		
2	Costs assume each well is abandoned at different times.		
3	Costs do not assume post-closure monitoring.		



MEMORANDUM  
(Revised)

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

DATE: June 4, 2019

FROM:   
Arigail Price-Williams  
County Attorney

SUBJECT: Agenda Item No. 8(0)(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(0)(3)  
6-4-19

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 FOUR CLASS I UNDERGROUND INJECTION WELLS AND FOUR RELATED MONITORING WELLS AND FOR THE CONSTRUCTION OF FIVE ADDITIONAL CLASS I UNDERGROUND INJECTION WELLS AND FOUR RELATED MONITORING WELLS AT MIAMI-DADE COUNTY'S NORTH DISTRICT WASTEWATER 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 four (4) Class I underground injection wells and four (4) related monitoring wells and the construction of five (5) new Class I underground injection wells and four (4) related monitoring wells at Miami-Dade County's North District Wastewater 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 this resolution duly passed and adopted this 4<sup>th</sup> day of June, 2019. 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