

Water & Sewer System



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MIAMI-DADE COUNTY, FLORIDA
Water and Sewer System Revenue Bonds

SECURITY FOR THE BONDS

Pledged Revenues

The payment of Principal, premium if any, and interest on the Water and Sewer System Revenue Bonds (the "Bonds") is secured by a pledge and irrevocable lien on the Pledged Revenues which consist of Net Operating Revenues (Operating Revenues minus Operating Expenses as each is defines in the Master Ordinance) of the County's Water and Wastewater System (the "System") and investment income on moneys on deposit in the funds established pursuant to the Master Ordinance other than the Rebate Fund (the "Pledged Funds").

Limited Obligation

The Bonds are special and limited obligations of the County payable and secured by the Pledged Revenues, and the faith and credit of the County are not pledged to the payments of the principal redemption premium if any, or interest on the Bonds. The issuance of the Bonds does not directly or indirectly or contingently obligate the County to levy any ad valorem taxes whatsoever to make any appropriation for their payments except for the Pledged Revenues. Neither the faith and credit nor the taxing power of the County, the State of Florida, or any political subdivision of each is pledged to the payments of the Bonds.

THE MIAMI-DADE WATER AND SEWER DEPARTMENT

History

On October 3, 1972, the electorate of the County approved the formation of a new County-wide Water and Sewer Agency by expanding the then existing Department of Water and Sewer of the City of Miami (the "City"). Subsequently, the Board established the Miami-Dade Water and Sewer Authority (the "Authority") which began operating on April 1, 1973. On March 13, 1975, the City, the County, and the Authority agreed to the transfer of all water and sewer properties, facilities and funds of The Department of Water and Sewer of the City to the Authority with the condition that certain property donated by the City would be returned to the City in the future if such property was not needed for water or sewer utility purposes.

On October 4, 1983, the Board enacted Ordinance No. 83-92, which abolished the Authority effective November 1, 1983, and established the Miami-Dade Water and Sewer Department as a department within Miami-Dade government. On October 19, 1993, the Miami-Dade Water and Sewer Department changed its name to the Miami-Dade Water and Sewer Department.

WATER AND SEWER SYSTEM

General

The system is divided into the Water System and Sewer System. The Miami-Dade Water and Sewer Department administers each on a unified basis for purposes of billing but separates the two of rates, capital improvements and accounting.

Service Area

The System currently provides water and wastewater treatment to substantially all the County either directly to retail customers or indirectly through wholesale contracts between the Miami-Dade Water

and Sewer Department and various municipalities. The County is the largest county in the Southeastern United States in population. In 2023 the population of the County was estimated at 2,763,366.

The Miami-Dade Water and Sewer Department supplies treated water on a wholesale basis to 15 municipally owned water utilities in the County and to approximately 462,214 retail water customers. The only municipalities in the County which operate water treatment facilities for customers located within their municipal boundaries are the City of Homestead, Florida City, City of North Miami, and the City of North Miami Beach. The City of North Miami Beach operates a water treatment facility which serves approximately two-thirds of their customers who do not live within their municipal boundaries. The City of North Miami Beach is also an occasional wholesale customer on an as-needed basis. The Miami-Dade Water and Sewer Department also provides wastewater transmission treatment and disposal service on a wholesale basis to 12 municipally owned wastewater utilities, Homestead Air Reserve Base, and approximately 377,496 retail wastewater customers. The City of Homestead is the only municipality in the County which owns and operates its own wastewater treatment plant.

Water System

The principal components of the Water System include 15 wellfields, three major water treatment plants, five smaller water treatment plants, two lime recalcining plants, and an extensive transmission and distribution system composed of storage reservoirs, pump stations and a network of transmission and distribution mains.

Sewer System

The Miami-Dade Water and Sewer Department's Wastewater System consists of collection sewers, manholes, lift stations, force mains, interceptors, pump stations and 3 regional wastewater treatment plants: the North District Wastewater Treatment Plant at Interama (the "North District Plant"), the Central District Wastewater Treatment Plant at Virginia Key (the "Central District Plant"), and the South District Wastewater Treatment Plant at Blackpoint (the "South District Plant").

Rates

For FY 2023-24 the adopted budget included water and wastewater retail and wholesale rate adjustments. The monthly bill for the median retail water and sewer residential customer which uses approximately 748 cubic feet (7 ccf.) per month (or 5,236 gallons) will be \$57.20, or \$2.20 higher from the current estimated bill of \$55.00; the FY 2023-24 adopted budget increases operating revenues to cover current and future operational and debt obligations.

WATER TREATMENT PLANTS
Allocations, Rated Capacities and Flows ⁽¹⁾

<u>Component</u>	<u>Hialeah/Preston</u>	<u>Orr</u>	<u>South Dade Water System ⁽³⁾</u>	<u>Hialeah RO⁽²⁾</u>
Plant Permitted Capacity	225.00 mgd ⁽⁴⁾	214.74 mgd ⁽⁵⁾	14.19 mgd	10.0 mgd
Actual Flows ⁽⁶⁾				
Average Daily	141.66 mgd	174.37 mgd	7.2 mgd	6.77 mgd
Peak Day	155.63 mgd	202.24 mgd	8.6 mgd	8.75 mgd

- (1) Water supply allocations are currently granted for source and well fields, and not specifically to plants.
(2) Hialeah Floridian Aquifer Reverse Osmosis (RO) (Joint Participation - Miami-Dade County and City of Hialeah)
(3) Represents five smaller water treatment plants in southern Miami-Dade County.
(4) Hialeah Plant permit capacity is 60 mgd and Preston Plant is 165 mgd for a total of 225 mgd.
(5) Orr Plant facility design capacity is 248 mgd but permitted capacity is only 214.74 mgd.
(6) For the 12 months ending September 2023; based on reports submitted to Department of Health.

SOURCE: Miami-Dade Water and Sewer Department

WASTEWATER TREATMENT PLANTS
Permit Parameters, Capacities and Flows

	<u>North District</u>	<u>Central District</u>	<u>South District</u>	<u>Total</u>
Installed Treatment Capacity	120.0	143.0	112.5	375.5
Permit Parameters				
Annual Average Daily Flow, mgd	120.0	143.0	112.5	375.5
Effluent CBOD ₅ , mgd/L ⁽¹⁾	25/20 ⁽²⁾	25/20 ⁽²⁾	20	
Effluent Total Suspended Solids mg/L	30/20 ⁽³⁾	30/20 ⁽³⁾	5 ⁽⁴⁾	
Actual Effluent Flows / Quality 12-Month Averages for Fiscal Year 2023⁽⁵⁾				
Annual Average Daily Influent Flow, mgd ⁽⁶⁾	106.89	124.07	118.0	316.56
Effluent CBOD ⁽⁵⁾ , mg/L ⁽⁶⁾	9.5 / 8.7	15.8 / 16.54	4.3	
Effluent Suspended Solids mg/L	19.1 / 15.3	28.9 / 23.98	6.58	

- (1) "CBOD₅" means Chemical Biological Oxygen Demand, 5 day; mg/L means milligrams per liter.
(2) 25 mg/L in secondary effluent going to the outfall; 20 mg/L in effluent going to the injection wells.
(3) 30 mg/L in secondary effluent going to the outfall; 20 mg/L in effluent going to the injection wells.
(4) 5 mg/L for the High-Level Disinfection (HLD) secondary effluent going to the injection wells.
(5) Influent flows for the 12 months period up to September 2023.
(6) These levels are below those allowed by permit.

SOURCE: Miami-Dade Water and Sewer Department

The number of retail customers for the past five years is as follows:

**ACTIVE RETAIL CUSTOMERS
FOR FISCAL YEAR ENDED SEPTEMBER 30,**

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Water	449,985	451,509	457,286	459,962	462,214
Sewer	366,069	367,618	372,681	375,345	377,496
Percent Ratio Wastewater Customers to Water Customers	81.36%	81.42%	81.50%	81.60%	81.70%

SOURCE: Miami-Dade Water and Sewer Department

The current wholesale customers are:

WATER

City of Hialeah
 City of Miami Beach
 City of North Miami
 City of Opa-locka
 City of Hialeah Gardens
 City of Homestead
 City of Bal Harbour
 City of North Bay Village
 City of Medley
 City of Surfside
 City of West Miami
 Bay Harbor Islands
 Indian Creek Village
 City of Virginia Gardens
 City of North Miami Beach

WASTEWATER

City of Hialeah
 City of Miami Beach
 City of North Miami
 City of Homestead
 City of Coral Gables
 City of Opa-locka
 City of Hialeah Gardens
 City of Medley
 City of North Miami Beach
 City of Florida City
 City of North Bay Village
 City of West Miami
 Homestead Air Force Base

SOURCE: Miami-Dade Water and Sewer Department.

The ten largest customers for the System, for Fiscal Year ended September 30, 2023, are:

WATER SYSTEM

<u>Name</u>	Dollar Amount <u>(000)</u>	Percent of System Gross <u>Revenues</u>
City of Miami Beach	\$15,807	3.80%
Miami Int'l Airport	12,487	2.90%
City of Hialeah	11,249	2.80%
City of North Miami	5,190	1.20%
Florida Department of Corrections	2,607	0.60%
City of Homestead	1,608	0.40%
FPL Turkey Point	1,578	0.40%
University of Miami	1,575	0.40%
City of Hialeah Gardens	1,471	0.40%
City of Opa-Locka	1,367	0.30%

WASTEWATER SYSTEM

<u>Name</u>	Dollar Amount <u>(000)</u>	Percent of System Gross <u>Revenues</u>
City of Hialeah	\$51,265	10.00%
City of Miami Beach	31,767	6.10%
City of North Miami	13,330	2.50%
City of Homestead	6,558	1.30%
City of Coral Gables	5,072	1.00%
City of North Miami Beach	4,829	0.90%
Miami Int'l Airport	3,732	0.70%
City of Opa-Locka	3,377	0.60%
City of Hialeah Gardens	2,739	0.50%
Florida Department of Corrections	2,194	0.40%

SOURCE: Miami-Dade Water and Sewer Department.

**MIAMI-DADE WATER AND SEWER DEPARTMENT
SCHEDULE OF RATES**

RESIDENTIAL CUSTOMER

WATER	Effective
<u>Monthly</u>	<u>October 1, 2023</u>
Meter Charge:	Monthly Charge
Meter Size:	
5/8" plus 2,244 gallons (3ccf)	\$4.61
1" plus 2,244 gallons (3ccf)	\$15.01
1.5" plus 2,244 gallons (3ccf)	\$29.02
2" plus 2,244 gallons (3ccf)	\$45.82
3" plus 2,244 gallons (3ccf)	\$90.67
Flow Rate All Usage:	Monthly Charge
Usage per 100 cubic feet (ccf):	
4 to 17 ccf	\$3.7367
18 ccf and over	\$9.0386
Usage per 1,000 gallons:	
2,245 to 12,716 gallons	\$4.9955
12,717 gallons and over	\$12.0838
<u>Quarterly</u>	
Meter Charge:	Quarterly Charge
Meter Size:	
5/8" plus 6,732 gallons (9ccf)	\$13.83
1" plus 6,732 gallons (9ccf)	\$45.03
1.5" plus 6,732 gallons (9ccf)	\$87.06
2" plus 6,732 gallons (9ccf)	\$137.46
3" plus 6,732 gallons (9ccf)	\$272.01
Flow Rate All Usage:	Quarterly Charge
Usage per 100 cubic feet (ccf):	
10 to 51 ccf	\$3.7367
52 ccf and over	\$9.0386
Usage per 1,000 gallons:	
6,733 to 38,148 gallons	\$4.9955
38,149 gallons and over	\$12.0838

Note: 100 cubic feet (ccf) equals 748 gallons

Residential: any single-family or duplex property that is used solely and entirely for residential purposes

**MIAMI-DADE WATER AND SEWER DEPARTMENT
SCHEDULE OF RATES**

RESIDENTIAL CUSTOMER

WATER	Effective
<u>Monthly</u>	<u>October 1, 2023</u>
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1.5" plus 2,244 gallons (3ccf)	\$29.02
2" plus 2,244 gallons (3ccf)	\$45.82
3" plus 2,244 gallons (3ccf)	\$90.67
Flow Rate All Usage:	Monthly Charge
Usage per 100 cubic feet (ccf):	
4 to 17 ccf	\$3.7367
18 ccf and over	\$9.0386
Usage per 1,000 gallons:	
2,245 to 12,716 gallons	\$4.9955
12,717 gallons and over	\$12.0838
<u>Quarterly</u>	
Meter Charge:	Quarterly Charge
Meter Size:	
5/8" plus 6,732 gallons (9ccf)	\$13.83
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38,149 gallons and over	\$12.0838

Note: 100 cubic feet (ccf) equals 748 gallons

Residential: any single-family or duplex property that is used solely and entirely for residential purposes

Rate Comparison

The combined water and sewer bills of the Miami-Dade Water and Sewer Department are generally lower than those of comparable water and sewer utilities in other parts of the U.S. as shown in the following table:

COMPARISON OF COMBINED WATER AND SEWER CHARGES (6.750 Gallons of Residential Water Use) (Rates Effective October 1, 2023)

<u>City/County</u>	<u>Monthly Charge</u>
San Francisco, California	198.82
Atlanta, Georgia	145.54
Honolulu, Hawaii	139.79
Cape Coral, Florida	112.01
Boston, Massachusetts	102.51
St. Petersburg, Florida	98.50
Hollywood, Florida	88.72
Broward County, Florida	80.94
Houston, Texas	80.53
Philadelphia, Pennsylvania	72.08
Palm Beach County, Florida	58.87
Orange County, Florida	58.55
Jacksonville, Florida	57.44
Miami-Dade County, Florida	57.20
Tampa, Florida	55.50
Dallas, Texas	53.74

SOURCE: Miami-Dade Water and Sewer Department

Historic Coverage of Debt Service and Operating Results

The following table summarizes historic debt service coverage based on historical Pledged Revenues.

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Net Operating Revenues Available for Debt Service	\$307,583	\$301,216	\$351,957	\$365,204	\$403,029
Senior Debt Service Requirements	173,198	188,003	202,029	223,846	225,057
Senior Debt Service Coverage	<u>1.78X</u>	<u>1.60x</u>	<u>1.74x</u>	<u>1.63x</u>	<u>1.79x</u>

SOURCE: Miami-Dade Water and Sewer Department

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\$3,697,545,000
Miami-Dade County, Florida
Water and Sewer System Revenue and Revenue Refunding Bonds,
Series 2008A, 2008B, 2015, 2017A, 2017B, 2019, 2019B, 2019C, and Series 2021
Subordinate Water and Sewer System Revenue Bonds, Series 2021

Fiscal Year Ending September 30,	Principal	Interest	Total Debt Service	Outstanding Principal Balance	Percent of Outstanding Principal
2024	\$ 89,340,000	\$ 144,643,277	\$ 233,983,277	\$ 3,490,555,000	97.50%
2025	93,735,000	140,066,402	233,801,402	3,396,820,000	94.89
2026	98,615,000	135,257,652	233,872,652	3,298,205,000	92.13
2027	102,545,000	130,228,652	232,773,652	3,195,660,000	89.27
2028	104,425,000	125,654,849	230,079,849	3,091,235,000	86.35
2029	93,475,000	121,908,842	215,383,842	2,997,760,000	83.74
2030	83,680,000	118,683,102	202,363,102	2,914,080,000	81.40
2031	89,070,000	115,131,631	204,201,631	2,825,010,000	78.91
2032	93,295,000	110,901,131	204,196,131	2,731,715,000	76.31
2033	97,750,000	106,451,698	204,201,698	2,633,965,000	73.58
2034	102,320,000	101,877,112	204,197,112	2,531,645,000	70.72
2035	109,535,000	97,450,153	206,985,153	2,422,110,000	67.66
2036	113,960,000	93,018,612	206,978,612	2,308,150,000	64.48
2037	119,090,000	88,427,588	207,517,588	2,189,060,000	61.15
2038	125,140,000	83,600,644	208,740,644	2,063,920,000	57.65
2039	130,990,000	78,439,323	209,429,323	1,932,930,000	53.99
2040	138,335,000	73,252,904	211,587,904	1,794,595,000	50.13
2041	143,505,000	68,080,199	211,585,199	1,651,090,000	46.12
2042	148,980,000	62,616,637	211,596,637	1,502,110,000	41.96
2043	154,800,000	56,802,730	211,602,730	1,347,310,000	37.64
2044	163,890,000	50,410,694	214,300,694	1,183,420,000	33.06
2045	171,065,000	43,237,494	214,302,494	1,012,355,000	28.28
2046	178,405,000	35,892,613	214,297,613	833,950,000	23.30
2047	185,720,000	28,581,844	214,301,844	648,230,000	18.11
2048	193,180,000	21,130,566	214,310,566	455,050,000	12.71
2049	180,520,000	13,844,300	194,364,300	274,530,000	7.67
2050	160,345,000	7,242,325	167,587,325	114,185,000	3.19
2051	56,045,000	3,156,825	59,201,825	58,140,000	1.62
2052	58,140,000	1,063,950	59,203,950	-	
Totals	\$ 3,579,895,000	\$ 2,257,053,748	\$ 5,836,948,748		



Delivering Excellence Every Day

\$481,175,000
Miami-Dade County, Florida
Water and Sewer System Revenue Refunding Bonds
Series 2015

Dated: June 3, 2015

Final Maturity: October 1, 2026

Purpose:

The Series 2015 Bonds were issued pursuant to Ordinance Nos. 93-134 and 09-67, and Resolution No. R-417-13 to advance refund \$244,355,000 aggregate principal amount of the Series 2007 Bonds maturing on and after October 1, 2018, and \$255,730,000 aggregate principal amount of the Series 2008C Bonds maturing on and after October 1, 2019, to make a deposit of the Reserve Account; and pay costs of issuance.

Security:

The Series 2015 Bonds are limited obligations of the County payable solely from and secured by Net Operating Revenues of the System and any funds and accounts established on behalf of the Bondholders and investment earnings on those funds and accounts.

Form:

The Series 2015 Bonds were issued as fully registered bonds in denominations of \$5,000 or any integral multiples of \$5,000. The Series 2015 Bonds are in book-entry form and are registered initially to the Depository Trust Company, New York, New York. Interest is payable semi-annually on April 1 and October 1, commencing October 1, 2015. The principal is payable October 1, for each maturity, commencing October 1, 2018.

Agents:

Registrar:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Paying Agent:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Bond Counsel:	Squire Patton Boggs (US) L.L.P., Miami, Florida D. Seaton and Associates, Miami, Florida
Disclosure Counsel:	Locke Lord LLP, West Palm Beach, Florida Rasco Klock Perez & Nieto, P.L. Coral Gables, Florida

Original Ratings:

Moody's:	Aa3
Standard & Poor's:	A+
Fitch:	A+

Current Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch (as of April 15, 2024):	AA-

Call Provisions:

Optional Redemption:

The Series 2015 Bonds maturing on or before October 1, 2025 shall not be subject to optional redemption prior to maturity. The Series 2015 Bonds maturing on October 1, 2026 are subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2025, and if in part, by lot, at a redemption price equal to 100% of the principal amount of the Series 2015 Bonds to be redeemed, plus accrued interest to the date of redemption and without premium.

Mandatory Redemption:

The Series 2015 Bonds are not subject to mandatory redemption.

Projects Funded with Proceeds:

The proceeds from the Series 1997, which were refunded by the Series 2007, and the proceeds from Series 1995, which were refunded by Series 2005 which in turn were refunded by Series 2008C, were used for the design, construction and construction management expenses associated with the capital improvements related to the expansion of the wastewater treatment and collection facilities, the expansion and improvements to the water treatment plants and facilities including pumping stations, water and main rehabilitation, and other similar projects.

Refunded Bonds: A portion of County's outstanding Series 2007 in the amount of \$244,355,000 and maturing on and after October 1, 2018 and a portion of outstanding Series 2008C in the amount of \$255,730,000 and maturing on and after October 1, 2019.

\$481,175,000
Miami-Dade County, Florida
Water and Sewer System Revenue Refunding Bonds
Series 2015

Debt Service Schedule

Fiscal Year							
Ending			Interest				Total Debt
Sept. 30,	Type	CUSIP Number	Rate	Principal	Interest		Service
2024	Serial	59334DHW7	5.000%	\$ 85,985,000	\$ 16,338,875	\$	102,323,875
2025	Serial	59334DHX5	5.000	90,210,000	11,934,000		102,144,000
2026	Serial	59334DHY3	5.000	94,915,000	7,305,875		102,220,875
2027	Serial	59334DHZ0	5.000	98,660,000	2,466,500		101,126,500
Totals				\$ 369,770,000	\$ 38,045,250	\$	407,815,250



Delivering Excellence Every Day

\$381,355,000
Miami-Dade County, Florida
Water and Sewer System Revenue Bonds
Series 2017A

Dated: December 19, 2017

Final Maturity: October 1, 2047

Purpose:

The Series 2017A Bonds were issued pursuant to Ordinance Nos. 93-134 and 09-67, and Resolution No. R-417-13 to refund all of the outstanding County's Water and Sewer Commercial Paper Notes, Series A-1 (Tax-Exempt) and all of the County's Water and Sewer Commercial Paper Notes, Series B-1 ((Tax-Exempt); make a deposit to the Reserve Account; and pay the costs of issuance.

Security:

The Series 2017A Bonds are limited obligations of the County payable solely from and secured by Net Operating Revenues of the System and any funds and accounts established on behalf of the Bondholders and investment earnings on those funds and accounts.

Form:

The Series 2015 Bonds were issued as fully registered bonds in denominations of \$5,000 or any integral multiples of \$5,000. The Series 2017A Bonds are in book-entry form and are registered initially to the Depository Trust Company, New York, New York. Interest is payable semi-annually on April 1 and October 1, commencing April 1, 2018. The principal is payable October 1, for each maturity, commencing October 1, 2030.

Agents:

Registrar:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Paying Agent:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Bond Counsel:	Squire Patton Boggs (US) L.L.P., Miami, Florida D. Seaton and Associates, P.A., Miami, Florida
Disclosure Counsel:	Nabors, Giblin & Nickerson, P.A., Tampa, Florida Lieber, Gonzalez & Portuondo. Miami, Florida

Original Ratings:

Moody's:	Aa3
Standard & Poor's:	A+
Fitch:	A+

Current Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch (as of April 15, 2024):	AA-

Call Provisions:

Optional Redemption:

The Series 2017A Bonds maturing on October 1, 2030 through October 1, 2034 shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2025, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption price equal to 100% of the principal amount of the Series 2017A Bonds to be redeemed, plus accrued interest to the date of redemption and without premium.

The Series 2017A Bonds maturing on or after October 1, 2035 shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2027, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption price equal to 100% of the principal amount of the Series 2017A Bonds to be redeemed, plus accrued interest to the date of redemption and without premium

Mandatory Redemption:

The Series 2017A Bonds maturing on October 1, 2044 are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2017A bonds, commencing on October 1, 2041 and on each October 1 thereafter, in the year's amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2041	\$ 23,065,000
2042	24,005,000
2043	24,985,000
2044 (Final Maturity)	26,005,000

The Series 2017A Bonds maturing on October 1, 2047 and bearing interest at 3.375% are subject to mandatory sinking fund redemption in part prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2017A Bonds to be redeemed, commencing on October 1, 2045, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2045	\$ 17,270,000
2046	17,860,000
2047 (Final Maturity)	18,475,000

The Series 2017A Bonds maturing on October 1, 2047 and bearing interest at 4.000% are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2017A Bonds to be redeemed, commencing on October 1, 2045, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2045	\$ 9,740,000
2046	10,140,000
2047 (Final Maturity)	10,555,000

Projects Funded with Proceeds:

The proceeds from the Series 2017A were used to refund all the outstanding County's Water and Sewer System Commercial Paper Notes, Series A-1 and Series B-1.

\$381,355,000
Miami-Dade County, Florida
Water and Sewer System Revenue Bonds
Series 2017A

Debt Service Schedule

Fiscal Year Ending Sept. 30,	Type	CUSIP Number	Interest Rate	Principal	Interest	Total Debt Service
2024					\$ 15,705,869	\$ 15,705,869
2025					15,705,869	15,705,869
2026					15,705,869	15,705,869
2027					15,705,869	15,705,869
2028					15,705,869	15,705,869
2029					15,705,869	15,705,869
2030					15,705,869	15,705,869
2031	Serial	59334DJD7	5.000%	\$ 14,200,000	15,350,869	29,550,869
2032	Serial	59334DJE5	5.000	14,930,000	14,622,619	29,552,619
2033	Serial	59334DJF2	5.000	15,695,000	13,856,994	29,551,994
2034	Serial	59334DJG0	5.000	16,500,000	13,052,119	29,552,119
2035	Serial	59334DJH8	5.000	17,345,000	12,205,994	29,550,994
2036	Serial	59334DJJ4	4.000	18,140,000	11,409,569	29,549,569
2037	Serial	59334DJK1	4.000	18,885,000	10,669,069	29,554,069
2038	Serial	59334DJL9	4.000	19,655,000	9,898,269	29,553,269
2039	Serial	59334DJM7	4.000	20,455,000	9,096,069	29,551,069
2040	Serial	59334DJN5	4.000	21,290,000	8,261,169	29,551,169
2041	Serial	59334DJP0	4.000	22,160,000	7,392,169	29,552,169
2042	Term	59334DJQ8	4.000	23,065,000	6,487,669	29,552,669
2043	Term	59334DJQ8	4.000	24,005,000	5,546,269	29,551,269
2044	Term	59334DJQ8	4.000	24,985,000	4,566,469	29,551,469
2045	Term	59334DJQ8	4.000	26,005,000	3,546,669	29,551,669
2046	Term	59334DJR6	3.375	27,010,000	2,540,338	29,550,338
2047	Term	59334DJR6	3.375	28,000,000	1,549,919	29,549,919
2048	Term	59334DJS4	4.000	29,030,000	522,866	29,552,866
Totals				\$ 381,355,000	\$ 260,516,185	\$ 641,871,185



Delivering Excellence Every Day

\$548,025,000
Miami-Dade County, Florida
Water and Sewer System Revenue Refunding Bonds
Series 2017B

Dated: December 17, 2017

Final Maturity: October 1, 2039

Purpose:

The Series 2017B Bonds were issued pursuant to Ordinance Nos. 93-134 and 09-67, and Resolution No. R-417-13 to advance refund \$567,580,000 principal amount of the outstanding Series 2010 Bonds maturing on and after October 1, 2021; make a deposit of the Reserve Account; and pay costs of issuance.

Security:

The Series 2017B Bonds are limited obligations of the County payable solely from and secured by Net Operating Revenues of the System and any funds and accounts established on behalf of the Bondholders and investment earnings on those funds and accounts.

Form:

The Series 2017B Bonds were issued as fully registered bonds in denominations of \$5,000 or any integral multiples of \$5,000. The Series 2017B Bonds are in book-entry form and are registered initially to the Depository Trust Company, New York, New York. Interest is payable semi-annually on April 1 and October 1, commencing April 1, 2018. The principal is payable October 1, for each maturity, commencing October 1, 2030.

Agents:

Registrar:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Paying Agent:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Bond Counsel:	Squire Patton Boggs (US) L.L.P., Miami, Florida D. Seaton and Associates, P.A., Miami, Florida
Disclosure Counsel:	Nabors, Giblin & Nickerson, P.A., Tampa, Florida Lieber, Gonzalez & Portuondo. Miami, Florida

Original Ratings:

Moody's:	Aa3
Standard & Poor's:	A+
Fitch:	A+

Current Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch (as of April 15, 2024):	AA-

Call Provisions:

Optional Redemption:

The Series 2017A Bonds maturing on or before October 1, 2027 shall not be subject to optional redemption prior to maturity. The Series 2017B Bonds maturing on October 1, 2028, October 1, 2029 and on or after October 1, 2034 shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2027, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption equal to 100% of the principal amount of the Series 2017B to be redeemed, plus accrued interest to the date of redemption and without premium.

The Series 2017B Bonds maturing on October 1, 2030 through October 1, 2033 shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2025, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption price equal to 100% of the principal amount to be redeemed, plus accrued interest to the date of the redemption and without premium.

Mandatory Redemption:

The Series 2017A Bonds are not subject to mandatory redemption.

Projects Funded with Proceeds:

The proceeds from the Series 2010 Bonds were used for the design, construction and construction management expenses associated with the capital improvements related to the expansion of the waste water treatment and collection facilities, the expansion and improvements to the water treatment plants and facilities including pumping stations, water and main rehabilitation, and other similar projects.

Refunded Bonds:

A portion of County's outstanding Series 2010 in the amount of \$567,580,000 and maturing on and after October 1, 2021.

\$548,025,000
Miami-Dade County, Florida
Water and Sewer System Revenue Refunding Bonds
Series 2017B

Debt Service Schedule

Fiscal Year			Interest		Total Debt	
Ending Sept. 30,	Type	CUSIP Number	Rate	Principal	Interest	Service
2024	Serial	59334DJV7	5.000%	\$ 3,355,000	\$ 23,530,769	\$ 26,885,769
2025	Serial	59334DJW5	5.000	3,525,000	23,358,769	26,883,769
2026	Serial	59334DJX3	5.000	3,700,000	23,178,144	26,878,144
2027	Serial	59334DJY1	5.000	3,885,000	22,988,519	26,873,519
2028	Serial	59334DJZ8	5.000	30,370,000	22,132,144	52,502,144
2029	Serial	59334DKA1	5.000	31,890,000	20,575,644	52,465,644
2030	Serial	59334DKB9	5.000	33,485,000	18,941,269	52,426,269
2031	Serial	59334DKC7	5.000	35,225,000	17,223,519	52,448,519
2032	Serial	59334DKD5	5.000	36,920,000	15,419,894	52,339,894
2033	Serial	59334DKE3	5.000	38,765,000	13,527,769	52,292,769
2034	Serial	59334DKF0	5.000	40,705,000	11,541,019	52,246,019
2035	Serial	59334DKG8	3.000	24,500,000	9,797,994	52,192,994
	Serial	59334DKH6	4.000	17,895,000		
2036	Serial	59334DKJ2	4.000	43,945,000	8,193,694	52,138,694
2037	Serial	59334DKK9	4.000	45,685,000	6,401,094	52,086,094
2038	Serial	59334DKL7	4.000	47,485,000	4,537,694	52,022,694
2039	Serial	59334DKM5	4.000	49,360,000	2,600,794	51,960,794
2040	Serial	59334DKP8	3.125	37,335,000	806,797	51,891,797
	Serial	59334DKN3	3.250	13,750,000		
Totals				\$ 541,780,000	\$ 244,755,522	\$ 786,535,522



Delivering Excellence Every Day

\$233,305,000
Miami-Dade County, Florida
Water and Sewer System Revenue Bonds
Series 2019

Dated: January 31, 2019

Final Maturity: October 1, 2048

Purpose:

The Series 2019 Bonds were issued pursuant to Ordinance Nos. 93-134 and 09-67, and Resolution No. R-417-13 to refund all of the outstanding Miami-Dade County, Florida Water and Sewer System Commercial Paper Notes, Series A-1 (Tax-Exempt) and all of the outstanding Miami-Dade County, Florida, Water and Sewer System Commercial Paper Notes, Series B-1 (Tax-Exempt); (ii) make a deposit to the Reserve Account; and (iii) pay the costs of issuance of the Series 2019 Bonds.

Security:

The Series 2019 Bonds are limited obligations of the County payable solely from and secured by Net Operating Revenues of the System and any funds and accounts established on behalf of the Bondholders and investment earnings on those funds and accounts.

Form:

The Series 2019 Bonds were issued as fully registered bonds in denominations of \$5,000 or any integral multiples of \$5,000. The Series 2019 Bonds are in book-entry form and are registered initially to the Depository Trust Company, New York, New York. Interest is payable semi-annually on April 1 and October 1, commencing April 1, 2019. The principal is payable October 1, for each maturity, commencing October 1, 2021.

Agents:

Registrar:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Paying Agent:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Bond Counsel:	Squire Patton Boggs (US) LLP, Miami, Florida D. Seaton and Associates, P.A., Miami, Florida
Disclosure Counsel:	Hunton Andrews Kurth L.L.P, Miami, Florida DiFalco & Fernandez L.L.L.P, Miami, Florida

Original Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch:	A+

Current Ratings

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch (as of April 15, 2024):	AA-

Call Provisions:

Optional Redemption:

The Series 2019 Bonds shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2028, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption price equal to 100% of the principal amount of the Series 2019 Bonds to be redeemed, plus accrued interest to the date of redemption and without premium.

Mandatory Redemption:

The Series 2019 Bonds maturing on October 1, 2043, are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2019 Bonds to be redeemed, commencing on October 1, 2039, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2039	\$ 7,080,000
2040	12,470,000
2041	13,110,000
2042	13,780,000
2043 (Final Maturity)	14,485,000

The Series 2019 Bonds maturing on October 1, 2046, are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2019 Bonds to be redeemed, commencing on October 1, 2044, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2044	\$ 15,230,000
2045	16,010,000
2046 (Final Maturity)	8,400,000

The Series 2019 Bonds maturing on October 1, 2048, are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2019 Bonds to be redeemed, commencing on October 1, 2046, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2046	\$ 8,390,000
2047	17,520,000
2048 (Final Maturity)	18,230,000

\$233,305,000
Miami-Dade County, Florida
Water and Sewer System Revenue Bonds
Series 2019

Debt Service Schedule

Fiscal Year Ending Sept. 30,	Type	CUSIP Number	Interest Rate	Principal	Interest	Total Debt Service
2024					\$ 11,223,850	\$ 11,223,850
2025					11,223,850	11,223,850
2026					11,223,850	11,223,850
2027					11,223,850	11,223,850
2028					11,223,850	11,223,850
2029					11,223,850	11,223,850
2030					11,223,850	11,223,850
2031	Serial	59334DKU7	5.000%	\$ 7,560,000	11,034,850	18,594,850
2032	Serial	59334DKV5	5.000	7,950,000	10,647,100	18,597,100
2033	Serial	59334DKW3	5.000	8,360,000	10,239,350	18,599,350
2034	Serial	59334DKX1	5.000	8,785,000	9,810,725	18,595,725
2035	Serial	59334DKY9	5.000	9,235,000	9,360,225	18,595,225
2036	Serial	59334DKZ6	5.000	9,710,000	8,886,600	18,596,600
2037	Serial	59334DLA0	5.000	10,210,000	8,388,600	18,598,600
2038	Serial	59334DLB8	5.000	10,730,000	7,865,100	18,595,100
2039	Serial	59334DLC6	5.000	11,280,000	7,314,850	18,594,850
2040	Serial	59334DLD4	5.000	4,780,000	6,736,350	18,596,350
	Term1	59334DLE2	5.000	7,080,000		
2041	Term1	59334DLE2	5.000	12,470,000	6,128,100	18,598,100
2042	Term1	59334DLE2	5.000	13,110,000	5,488,600	18,598,600
2043	Term1	59334DLE2	5.000	13,780,000	4,816,350	18,596,350
2044	Term1	59334DLE2	5.000	14,485,000	4,109,725	18,594,725
2045	Term2	59334DLF9	5.000	15,230,000	3,366,850	18,596,850
2046	Term2	59334DLF9	5.000	16,010,000	2,585,850	18,595,850
2047	Term2	59334DLF9	5.000	8,400,000	1,807,800	18,597,800
	Term3	59334DLG7	4.000	8,390,000		
2048	Term3	59334DLG7	4.000	17,520,000	1,079,600	18,599,600
2049	Term3	59334DLG7	4.000	18,230,000	364,600	18,594,600
Totals				\$ 233,305,000	\$ 198,598,175	\$ 431,903,175



Delivering Excellence Every Day

\$663,860,000
Miami-Dade County, Florida
Water and Sewer System Revenue Bonds
Series 2019B

Dated: November 6, 2019

Final Maturity: October 1, 2049

Purpose:

The Series 2019B Bonds were issued pursuant to Ordinance No. 13-47 and Resolution No. R-1005-19, and the proceeds, together with certain other available funds of the Miami-Dade County Water and Sewer Department were used to (i) refund all of the outstanding Miami Dade County, Florida Water and Server System Commercial Paper Notes, Series A-1 (Tax-Exempt) and all of the outstanding Miami-Dade County, Florida, Water and Sewer System Commercial Paper Notes, Series B-1 (Tax-Exempt); (ii) pay the costs of the Series 2019B Project (iii) make a deposit to the Reserve Account, and (iv) pay the costs of issuance of the Series 2019B Bonds.

Security:

The Series 2019B Bonds are limited obligations of the County payable solely from and secured by Net Operating Revenues of the System and any funds and accounts established on behalf of the Bondholders and investment earnings on those funds and accounts.

Form:

The Series 2019B Bonds were issued as fully registered bonds in denominations of \$5,000 or any integral multiples of \$5,000. The Series 2019B Bonds are in book-entry form and are registered initially to the Depository Trust Company, New York, New York. Interest is payable semi-annually on April 1 and October 1, commencing April 1, 2020. The principal is payable October 1, for each maturity, commencing October 1, 2043.

Agents:

Registrar:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Paying Agent:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Bond Counsel:	Squire Patton Boggs (US) LLP, Miami, Florida D. Seaton and Associates, P.A., Miami, Florida
Disclosure Counsel:	Gray Robison, P.A., Miami, Florida Law Offices Thomas H, Williams, Jr., P.L., Miami, Florida

Original Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch:	A+

Current Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch (as of April 15, 2024):	AA-

Call Provisions:

Optional Redemption:

The Series 2019 Bonds shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2029, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption price equal to 100% of the principal amount of the Series 2019B Bonds to be redeemed, plus accrued interest to the date of redemption and without premium.

Mandatory Redemption:

The Series 2019B Bonds maturing on October 1, 2044, and bearing interest at 4.00% are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2019B Bonds to be redeemed, commencing on October 1, 2043, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2043	\$ 50,000,000
2044 (Final Maturity)	50,000,000

The Series 2019B Bonds maturing on October 1, 2044, and bearing interest at 5.00% are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2019B Bonds to be redeemed, commencing on October 1, 2043, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2043	\$ 32,175,000
2044 (Final Maturity)	35,875,000

The Series 2019B Bonds maturing on October 1, 2049, and bearing interest at 3.00% are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2019B Bonds to be redeemed, commencing on October 1, 2045, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2045	\$ 13,000,000
2046	13,000,000
2047	13,000,000
2048	13,000,000
2049 (Final Maturity)	13,000,000

The Series 2019B Bonds maturing on October 1, 2049, and bearing interest at 4.00% are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2019B Bonds to be redeemed, commencing on October 1, 2045, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2045	\$ 76,495,000
2046	80,015,000
2047	83,680,000
2048	97,300,000
2049 (Final Maturity)	93,320,000

\$663,860,000
Miami-Dade County, Florida
Water and Sewer System Revenue Bonds
Series 2019B

Debt Service Schedule

Fiscal Year Ending Sept. 30,	Type	CUSIP Number	Interest Rate	Principal	Interest	Total Debt Service
2024					\$ 26,584,900	\$ 26,584,900
2025					26,584,900	26,584,900
2026					26,584,900	26,584,900
2027					26,584,900	26,584,900
2028					26,584,900	26,584,900
2029					26,584,900	26,584,900
2030					26,584,900	26,584,900
2031					26,584,900	26,584,900
2032					26,584,900	26,584,900
2033					26,584,900	26,584,900
2034					26,584,900	26,584,900
2035					26,584,900	26,584,900
2036					26,584,900	26,584,900
2037					26,584,900	26,584,900
2038					26,584,900	26,584,900
2039					26,584,900	26,584,900
2040					26,584,900	26,584,900
2041					26,584,900	26,584,900
2042					26,584,900	26,584,900
2043					26,584,900	26,584,900
2044	Term1	59334DLT9	4.000%	\$ 50,000,000	24,780,525	106,955,525
	Term2	59334DLU6	5.000	32,175,000		
2045	Term1	59334DLT9	4.000	50,000,000	21,079,275	106,954,275
	Term2	59334DLU6	5.000	35,875,000		
2046	Term3	59334DLW2	3.000	13,000,000	17,457,500	106,952,500
	Term4	59334DLV4	4.000	76,495,000		
2047	Term3	59334DLW2	3.000	13,000,000	13,937,300	106,952,300
	Term4	59334DLV4	4.000	80,015,000		
2048	Term3	59334DLW2	3.000	13,000,000	10,273,400	106,953,400
	Term4	59334DLV4	4.000	83,680,000		
2049	Term3	59334DLW2	3.000	13,000,000	6,263,800	116,563,800
	Term4	59334DLV4	4.000	97,300,000		
2050	Term3	59334DLW2	3.000	13,000,000	2,061,400	108,381,400
	Term4	59334DLV4	4.000	93,320,000		
Totals				\$ 663,860,000	\$ 627,551,200	\$ 1,291,411,200



Delivering Excellence Every Day

\$548,090,000
Miami-Dade County, Florida
Water and Sewer System Revenue Refunding Bonds
Series 2019C (Taxable)

Dated: November 6, 2019

Final Maturity: October 1, 2042

Purpose:

The Series 2019C Bonds were issued pursuant to Ordinance No. 93-134, as amended by Ordinance No. 13-47, and Resolution No. R-1005-19, and the proceeds, together with certain other available funds of the Miami-Dade County Water and Sewer Department were used to (i) refund all of the outstanding Miami Dade County, Florida Water and Server System Revenue Bonds, Series 2013A and all the outstanding Miami Dade County Florida Water and Sewer System Revenue Refunding Bonds 2013B; and (ii) pay the costs of issuance of the Series 2019C Bonds.

Security:

The Series 2019C Bonds are limited obligations of the County payable solely from and secured by Net Operating Revenues of the System and any funds and accounts established on behalf of the Bondholders and investment earnings on those funds and accounts.

Form:

The Series 2019C Bonds were issued as fully registered bonds in denominations of \$5,000 or any integral multiples of \$5,000. The Series 2019C Bonds are in book-entry form and are registered initially to the Depository Trust Company, New York, New York. Interest is payable semi-annually on April 1 and October 1, commencing April 1, 2020. The principal is payable October 1, for each maturity, commencing October 1, 2027.

Agents:

Registrar:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Paying Agent:	U.S. Bank Trust Company, National Association, Fort Lauderdale, Florida
Bond Counsel:	Squire Patton Boggs (US) LLP, Miami, Florida D. Seaton and Associates, P.A., Miami, Florida
Disclosure Counsel:	Gray Robison, P.A., Miami, Florida Law Offices Thomas H, Williams, Jr., P.L., Miami, Florida

Original Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch:	A+

Current Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch (as of April 15, 2024):	AA-

Call Provisions:

Optional Redemption:

The Series 2019C Bonds maturing on or after October 1, 2030 shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2029, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption price equal to 100% of the principal amount of the Series 2019C Bonds to be redeemed, plus accrued interest to the date of redemption and without premium.

Mandatory Redemption:

The Series 2019C Bonds maturing on October 1, 2042, are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2019C Bonds to be redeemed, commencing on October 1, 2035, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2035	\$ 17,295,000
2036	17,960,000
2037	18,670,000
2038	19,400,000
2039	20,160,000
2040	73,690,000
2041	76,315,000
2042 (Final Maturity)	79,035,000

Projects Funded with Proceeds:

Proceeds of the Series 2013A Bonds were used to pay the costs of acquiring certain improvements under the departments Multi Year Plan, pay capitalized interest, make a deposit to the Reserve Account, and pay costs of issuance. Proceeds of the Series 2013B Bonds were used to current refund all of the County's Water and Sewer Revenue Bonds, Series 1999A, make a deposit to the Reserve Account, and pay costs of issuance, including the cost of the premium for a municipal bond insurance policy.

Refunded Bonds:

Series 2013A and Series 2013B

Refunded Bonds Call Date:

Series 2013A were called for redemption on October 1, 2022 at 100% and Series 2013B were called for redemption on October 1, 2023 at 100%.

\$548,090,000
Miami-Dade County, Florida
Water and Sewer System Revenue Refunding Bonds
Series 2019C (Taxable)

Debt Service Schedule

Fiscal Year Ending Sept. 30,	Type	CUSIP Number	Interest Rate	Principal	Interest	Total Debt Service
2024					\$ 17,285,515	\$ 17,285,515
2025					17,285,515	17,285,515
2026					17,285,515	17,285,515
2027					17,285,515	17,285,515
2028	Serial	59334DLJ1	2.501%	\$ 48,055,000	16,684,587	64,739,587
2029	Serial	59334DLK8	2.551	49,085,000	15,457,580	64,542,580
2030	Serial	59334DLL6	2.601	50,195,000	14,178,715	64,373,715
2031	Serial	59334DLM4	2.741	14,625,000	13,325,493	27,950,493
2032	Serial	59334DLN2	2.841	15,140,000	12,909,994	28,049,994
2033	Serial	59334DLP7	2.911	15,630,000	12,467,436	28,097,436
2034	Serial	59334DLQ5	2.981	16,145,000	11,999,300	28,144,300
2035	Serial	59334DLR3	3.011	16,690,000	11,507,390	28,197,390
2036	Term	59334DLS1	3.490	17,295,000	10,954,325	28,249,325
2037	Term	59334DLS1	3.490	17,960,000	10,339,125	28,299,125
2038	Term	59334DLS1	3.490	18,670,000	9,699,932	28,369,932
2039	Term	59334DLS1	3.490	19,400,000	9,035,610	28,435,610
2040	Term	59334DLS1	3.490	20,160,000	8,345,288	28,505,288
2041	Term	59334DLS1	3.490	73,690,000	6,707,606	80,397,606
2042	Term	59334DLS1	3.490	76,315,000	4,090,018	80,405,018
2043	Term	59334DLS1	3.490	79,035,000	1,379,161	80,414,161
Totals				\$ 548,090,000	\$ 238,223,617	\$ 786,313,617



Delivering Excellence Every Day

\$605,600,000
Miami-Dade County, Florida
Water and Sewer System Revenue Bonds
Series 2021

Dated: April 20, 2021

Final Maturity: October 1, 2051

Purpose:

The Series 2021 Bonds were issued pursuant to Ordinance No. 93-134, as amended by Ordinance No. 13-47, and Resolution No. R-207-21, and proceeds of the Series 2021 Bonds will be used to (i) fund certain costs of the Department's multi-year capital plan; (ii) make a deposit to the Reserve Account; and (iii) pay the costs of issuance of the Series 2021 Bonds.

Security:

The Series 2021 Bonds are limited obligations of the County payable solely from and secured by Net Operating Revenues of the System and any funds and accounts established on behalf of the Bondholders and investment earnings on those funds and accounts.

Form:

The Series 2021 Bonds were issued as fully registered bonds in denominations of \$5,000 or any integral multiples of \$5,000. The Series 2021 Bonds are in book-entry form and are registered initially to the Depository Trust Company, New York, New York. Interest is payable semi-annually on April 1 and October 1, commencing October 1, 2021. The principal is payable October 1, commencing October 1, 2030.

Agents:

Registrar:	The Bank of New York Mellon, New York, New York
Paying Agent:	The Bank of New York Mellon, New York, New York
Bond Counsel:	Squire Patton Boggs (US) LLP, Miami, Florida D. Seaton and Associates, P.A., Miami, Florida
Disclosure Counsel:	Nabors, Giblin & Nickerson, P.A., Tampa, Florida Manuel Alonso-Poch, PA., Miami, Florida

Original Ratings:

Moody's:	Aa3
Standard & Poor's:	AA-
Fitch (as of April 15, 2024):	AA-

Call Provisions:

Optional Redemption:

The Series 2021 Bonds maturing on October 1, 2030 shall not be subject to optional redemption prior to maturity. The Series 2021 Bonds maturing on and after October 1, 2031 shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after April 1, 2031, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption price equal to 100% of the principal amount of the Series 2021 Bonds to be redeemed, plus accrued interest to the date of redemption and without premium.

Mandatory Redemption:

The Series 2021 Bonds maturing on October 1, 2046, are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2021 Bonds to be redeemed, commencing on October 1, 2045, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2045	\$ 31,665,000
2046 (Final Maturity)	32,950,000

The Series 2021 Bonds maturing on October 1, 2048, are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2021 Bonds to be redeemed, commencing on October 1, 2047, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2047	\$ 34,295,000
2048 (Final Maturity)	35,695,000

The Series 2021 Bonds maturing on October 1, 2051, bearing interest at 3.00% are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2021 Bonds to be redeemed, commencing on October 1, 2049, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2049	\$ 17,065,000
2050	18,395,000
2051 (Final Maturity)	19,770,000

The Series 2021 Bonds maturing on October 1, 2051, and bearing interest at 4.00% are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2021 Bonds to be redeemed, commencing on October 1, 2049, and on each October 1 thereafter, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2049	\$ 20,000,000
2050	20,000,000
2051 (Final Maturity)	20,000,000

\$605,600,000
Miami-Dade County, Florida
Water and Sewer System Revenue Bonds
Series 2021

Debt Service Schedule

Fiscal Year Ending Sept. 30,	Type	CUSIP Number	Interest Rate	Principal	Interest	Total Debt Service
2024					\$ 23,439,700	\$ 23,439,700
2025					23,439,700	23,439,700
2026					23,439,700	23,439,700
2027					23,439,700	23,439,700
2028					23,439,700	23,439,700
2029					23,439,700	23,439,700
2030					23,439,700	23,439,700
2031	Serial	59334DLZ5	5.000%	\$ 17,460,000	23,003,200	40,463,200
2032	Serial	59334DMA9	5.000	18,355,000	22,107,825	40,462,825
2033	Serial	59334DMB7	5.000	19,300,000	21,166,450	40,466,450
2034	Serial	59334DMC5	4.000	20,185,000	20,280,250	40,465,250
2035	Serial	59334DMD3	4.000	21,010,000	19,456,350	40,466,350
2036	Serial	59334DME1	4.000	21,865,000	18,598,850	40,463,850
2037	Serial	59334DMF8	3.000	22,645,000	17,821,875	40,466,875
2038	Serial	59334DMG6	4.000	23,450,000	17,013,200	40,463,200
2039	Serial	59334DMH4	4.000	24,410,000	16,056,000	40,466,000
2040	Serial	59334DMJ0	4.000	25,405,000	15,059,700	40,464,700
2041	Serial	59334DMK7	3.000	26,305,000	14,157,025	40,462,025
2042	Serial	59334DML5	4.000	27,245,000	13,217,550	40,462,550
2043	Serial	59334DMM3	4.000	28,360,000	12,105,450	40,465,450
2044	Serial	59334DMN1	4.000	29,365,000	11,097,775	40,462,775
2045	Serial	59334DMP6	4.000	30,415,000	10,049,000	40,464,000
2046	Term1	59334DMQ4	4.000	31,655,000	8,807,600	40,462,600
2047	Term1	59334DMQ4	4.000	32,950,000	7,515,500	40,465,500
2048	Term2	59334DMR2	4.000	34,295,000	6,170,600	40,465,600
2049	Term2	59334DMR2	4.000	35,695,000	4,770,800	40,465,800
2050	Term3	59334DMQ8	3.000	17,065,000	3,400,925	40,465,925
	Term4	59334DMQ9	4.000	20,000,000		
2051	Term3	59334DMS0	3.000	18,395,000	2,069,025	40,464,025
	Term4	59334DMT8	4.000	20,000,000		
2052	Term3	59334DMS0	3.000	19,770,000	696,550	40,466,550
	Term4	59334DMT8	4.000	20,000,000		
Totals				\$ 605,600,000	\$ 448,699,400	\$ 1,054,299,400



Delivering Excellence Every Day

\$236,135,000
Miami-Dade County, Florida
Subordinate Water and Sewer System Revenue Bonds
Series 2021

Dated: July 8, 2021

Final Maturity: October 1, 2051

Purpose:

The Subordinate Series 2021 Bonds were issued pursuant to Ordinance No. 20-1 and Resolution No. R-520-21, and proceeds of the Subordinate Series 2021 Bonds will be used to (i) fund a portion of the costs of the Department's Multi-Year Capital Plan, and (ii) pay the costs of issuance of the Series 2021 Subordinate Bonds.

Security:

The Series 2021 Subordinate Bonds: (a) constitute "Subordinate Obligations" as defined in the senior Obligations Bond Ordinance and "Additional Subordinate Obligations" as defined in the Subordinate Obligations Ordinance, (b) are subordinate to the Outstanding Senior Bonds (as defined) and any future Additional Bonds, Completion Bonds, and Refunding Bonds issued pursuant to the Senior Obligations Bond Ordinance and with any future Hedge Obligations (each as defined in the Senior Obligations Bond Ordinance)(collectively, the "Senior Obligations") as to the pledge of, and lien upon, the Pledged Revenues, which consist of the Net Operating Revenues (as such terms as defined) of the County's water and sewer utility system (the "Utility"), and (c) are on a parity with certain Outstanding Parity subordinate Obligations (as defined) and any future additional Bonds, Completion Bonds, and Refunding Bonds issued pursuant to the Subordinate Bonds Resolution and with any future Hedge Obligations (each as defined in the subordinate Bonds Resolution) as to the pledge of, and lien upon, the Pledged Revenues. The Series 2021 Subordinate Bonds are NOT secured by the Reserve Account or by any subaccount therein.

Form:

The Series 2021 Subordinate Bonds were issued as fully registered bonds in denominations of \$5,000 or any integral multiples of \$5,000. The Series 2021 Subordinate Bonds are in book-entry form and are registered initially to the Depository Trust Company, New York, New York. Interest is payable semi-annually on April 1 and October 1, commencing October 1, 2021. The principal is payable October 1, commencing October 1, 2027.

Agents:

Registrar:	U.S. Bank Trust Company, National Association, Fort Lauderdale, FL
Paying Agent:	U.S. Bank Trust Company, National Association, Fort Lauderdale, FL
Bond Counsel:	Squire Patton Boggs (US) LLP, Miami, Florida D. Seaton and Associates, P.A., Miami, Florida
Disclosure Counsel:	Nabors, Giblin & Nickerson, P.A., Plantation, Florida Manuel Alonso-Poch, P.A., Miami, Florida

Original Ratings:.

Moody's:	A1
Standard & Poor's:	A+

Call Provisions:

Optional Redemption:

The Series 2021 Subordinate Bonds maturing on or before October 1, 2028 are not subject to optional redemption prior to maturity. The Series 2021 Subordinate Bonds maturing on and after October 1, 2034 shall be subject to optional redemption prior to maturity, at the option of the County, in whole or in part at any time, on or after October 1, 2031, and if in part, in maturities determined by the County and by lot within a maturity, at a redemption price equal to 100% of the principal amount of the Series 2021 Subordinate Bonds to be redeemed, plus accrued interest to the date of redemption and without premium.

Mandatory Redemption:

The Series 2021 Bonds maturing on October 1, 2046, are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2021 Subordinate Bonds to be redeemed, commencing on October 1, 2043, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2043	\$ 12,880,000
2044	13,540,000
2045	14,235,000
2046 (Final Maturity)	14,965,000

The Series 2021 Bonds maturing on October 1, 2051, are subject to mandatory sinking fund redemption in part, prior to maturity, by lot, at a redemption price equal to the principal amount of the Series 2021 Subordinate Bonds to be redeemed, commencing on October 1, 2047, in the years and principal amounts set forth below:

<u>Redemption Date</u>	<u>Amount</u>
2047	\$ 15,655,000
2048	16,295,000
2049	16,290,000
2050	17,650,000
2051 (Final Maturity)	18,370,000

\$236,135,000
Miami-Dade County, Florida
Subordinate Water and Sewer System Revenue Bonds
Series 2021

Debt Service Schedule

Fiscal Year Ending Sept. 30,	Type	CUSIP Number	Interest Rate	Principal	Interest	Total Debt Service
2024					\$ 10,533,800	\$ 10,533,800
2025					10,533,800	10,533,800
2026					10,533,800	10,533,800
2027					10,533,800	10,533,800
2028	Serial	59334DMU5	5.000%	\$ 26,000,000	9,883,800	35,883,800
2029	Serial	59334DMV3	5.000	12,500,000	8,921,300	21,421,300
2030					8,608,800	8,608,800
2031					8,608,800	8,608,800
2032					8,608,800	8,608,800
2033					8,608,800	8,608,800
2034					8,608,800	8,608,800
2035	Serial	59334DMW1	5.000	2,860,000	8,537,300	11,397,300
2036	Serial	59334DMX9	5.000	3,005,000	8,390,675	11,395,675
2037	Serial	59334DMY7	5.000	3,705,000	8,222,925	11,927,925
2038	Serial	59334DMZ4	5.000	5,150,000	8,001,550	13,151,550
2039	Serial	59334DNA8	4.000	6,085,000	7,751,100	13,836,100
2040	Serial	59334DNB6	4.000	8,535,000	7,458,700	15,993,700
2041	Serial	59334DNC4	4.000	8,880,000	7,110,400	15,990,400
2042	Serial	59334DND2	4.000	9,245,000	6,747,900	15,992,900
2043	Serial	59334DNE0	4.000	9,620,000	6,370,600	15,990,600
2044	Term1	59334DNF7	5.000	12,880,000	5,856,200	18,736,200
2045	Term1	59334DNF7	5.000	13,540,000	5,195,700	18,735,700
2046	Term1	59334DNF7	5.000	14,235,000	4,501,325	18,736,325
2047	Term1	59334DNF7	5.000	14,965,000	3,771,325	18,736,325
2048	Term2	59334DNG5	4.000	15,655,000	3,084,100	18,739,100
2049	Term2	59334DNG5	4.000	16,295,000	2,445,100	18,740,100
2050	Term2	59334DNG5	4.000	16,960,000	1,780,000	18,740,000
2051	Term2	59334DNG5	4.000	17,650,000	1,087,800	18,737,800
2052	Term2	59334DNG5	4.000	18,370,000	367,400	18,737,400
Totals				\$ 236,135,000	\$ 200,664,400	\$ 436,799,400



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