

FY 2019 - 20 Proposed Budget and Multi-Year Capital Plan

Water and Sewer

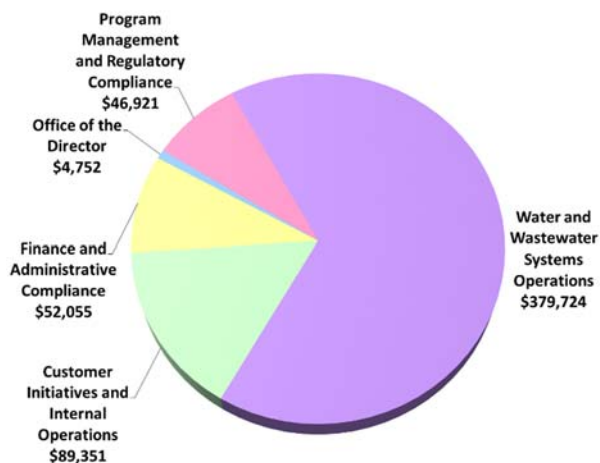
The Miami-Dade Water and Sewer Department (WASD) provides high-quality drinking water and wastewater services, safeguarding public health and the environment, while planning for future growth, implementing water conservation measures and providing for process improvements and cost efficiencies.

As part of the Neighborhood and Infrastructure strategic area, the Department's main functions are water production and distribution, as well as wastewater collection, treatment, reuse and disposal. WASD operates three regional, one shared City of Hialeah reverse osmosis, and five local water treatment plants, with a total permitted capacity of 464 million gallons per day (MGD) and three regional wastewater treatment plants with a total permitted capacity of 376 MGD. Additionally, WASD operates and maintains 94 water supply wells (grouped into 14 wellfields) in the Biscayne Aquifer; five aquifer storage and recovery wells in the Floridian Aquifer; more than 1,000 sewer pump stations; more than 8,700 miles of water distribution mains; and 6,400 miles of wastewater mains and lateral collection pipes. The Department implements water conservation measures, provides high quality drinking water and plans and improves infrastructure for future growth.

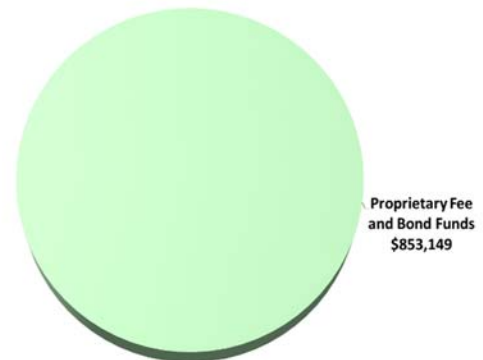
The Department delivers water and sewer services to most residents and businesses within Miami-Dade County, serving approximately 447,000 water and 363,000 wastewater retail customers as of September 30, 2018. Additionally, service is provided to 15 wholesale (municipal) water customers and to 13 wholesale (12 municipal and the Homestead Air Reserve Base) wastewater customers within Miami-Dade County on a daily basis. The total combined population served at the retail and wholesale level is approximately 2.3 million residents. In providing these services, the Department interacts with and is regulated by the United States Environmental Protection Agency, the Florida Department of Environmental Protection, the Miami-Dade County Health Department, the South Florida Water Management District and the Regulatory and Economic Resources Department (RER).

FY 2019-20 Proposed Operating Budget

Expenditures by Activity
(dollars in thousands)



Revenues by Source
(dollars in thousands)



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TABLE OF ORGANIZATION

<p><u>OFFICE OF THE DIRECTOR</u> Formulates and establishes departmental policy; directs overall operations</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 18-19</u> 12</td> <td style="text-align: center;"><u>FY 19-20</u> 12</td> </tr> </table>	<u>FY 18-19</u> 12	<u>FY 19-20</u> 12
<u>FY 18-19</u> 12	<u>FY 19-20</u> 12	
<p><u>WATER AND WASTEWATER SYSTEMS OPERATIONS</u> Operates and maintains water and wastewater systems: treatment plants, transmission/distribution systems and pump stations</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY18-19</u> 1,622</td> <td style="text-align: center;"><u>FY19-20</u> 1,635</td> </tr> </table>	<u>FY18-19</u> 1,622	<u>FY19-20</u> 1,635
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<p><u>FINANCE AND ADMINISTRATIVE COMPLIANCE</u> Directs financial, budget, capital funding coordination, and information technology functions; directs contractual compliance and quality assurance of construction/contractual work as well as compliance with the Small Business Enterprise Program</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 18-19</u> 240</td> <td style="text-align: center;"><u>FY 19-20</u> 238</td> </tr> </table>	<u>FY 18-19</u> 240	<u>FY 19-20</u> 238
<u>FY 18-19</u> 240	<u>FY 19-20</u> 238	
<p><u>PROGRAM MANAGEMENT AND REGULATORY COMPLIANCE</u> Manages capital improvement program and consent decree projects; directs compliance with state and federal agreements and utilities development</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 18-19</u> 319</td> <td style="text-align: center;"><u>FY 19-20</u> 329</td> </tr> </table>	<u>FY 18-19</u> 319	<u>FY 19-20</u> 329
<u>FY 18-19</u> 319	<u>FY 19-20</u> 329	
<p><u>CUSTOMER INITIATIVES AND INTERNAL OPERATIONS</u> Directs legislative activities, municipal policies, and public information dissemination; directs customer service, procurement, personnel, fleet and general activities</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>FY 18-19</u> 598</td> <td style="text-align: center;"><u>FY 19-20</u> 602</td> </tr> </table>	<u>FY 18-19</u> 598	<u>FY 19-20</u> 602
<u>FY 18-19</u> 598	<u>FY 19-20</u> 602	

The FY 2019-20 total number of full-time equivalent positions is 2,817.6.

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DIVISION: OFFICE OF THE DIRECTOR

Formulates and establishes departmental policy; directs overall operations and legal support.

- Defines department policies and strategic goals
- Provides legal support

DIVISION COMMENTS

- The FY 2019-20 Proposed Budget includes a water and wastewater rate restructuring to all customer revenue tiers that results in a rate which is reflective of actual usage combined with the consideration of fiscal requirements related to capital investments that are mandated; rates for usage tiers representing customers with the highest poverty rates were reduced or held flat; although the rate structures for other tiers for residential, multi-family and non-residential customers were increased, the non-residential customer rate increase is higher
- Effective October 1, 2019, the wholesale water rate will decrease to \$1.6904 from \$1.7628, or by \$0.0724 per thousand gallons; the wastewater wholesale rate will increase to \$3.1954 from \$3.0937, or by \$0.1017 per thousand gallons; wholesale customers' bills include a true-up adjustment to recover actual cost for FY 2017-18
- The FY 2019-20 Proposed Budget includes a Memorandum of Understanding with the Office of the Inspector General to perform specialized audits as required (\$75,000) and payments to the Audit and Management Services Department for expenses associated with audits and reviews (\$500,000)

DIVISION: WATER AND WASTEWATER SYSTEMS OPERATIONS

Operates and maintains the water and wastewater treatment plants, pump stations, and water distribution, wastewater collection and transmission lines.

- Directs water and wastewater systems operating goals and procedures
- Directs and oversees operation of water system including installations, repairs and maintenance of water infrastructure
- Directs and oversees operation of wastewater system including treatment and disposal as well as the maintenance of wastewater pumping and collection systems
- Installs, repairs, relocates, maintains and replaces water mains, valves, and fire lines countywide
- Installs, repairs, relocates, maintains and replaces wastewater gravity sewer lines, force mains, valves, sewer laterals, and manholes countywide
- Manages the Water Cross Connection Control program
- Installs, repairs, relocates, maintains and replaces water meters
- Performs mechanical, electrical, and structural maintenance of water and wastewater plants and wastewater lift stations
- Administers the SCADA system, telemetry and radios
- Provides laboratory analysis to comply with regulatory agencies' requirements

Key Department Measures, Strategic Objectives, and Resiliency Drivers

Measures	SO	RD	Type	Good	FY 16-17	FY 17-18	FY 18-19	FY 18-19	FY 19-20
					Actual	Actual	Budget	Projection	Target
Average time to respond to sewage overflows (in minutes)	NI2-1	HW-1	EF	↓	37	49	45	45	45
Percentage of pumps in service	NI2-1	HW-1	EF	↑	98%	100%	100%	100%	100%
Wastewater mainline valves exercised	NI2-1	HW-1	OP	↔	6,346	6,484	6,000	6,000	6,000
Estimated gallons of water saved per day (GPD) through the Water Use Efficiency Program (in thousands)*	NI2-1	HW-1	OC	↑	271	189	166	163	160
Percentage compliance with drinking water standards	NI2-1	HW-1	OC	↑	100%	100%	100%	100%	100%

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DIVISION COMMENTS

- The FY 2019-20 Proposed Budget includes the establishment of 14 new positions to enhance water transmission and pump stations divisions, plant operations and maintenance
- The FY 2019-20 Proposed Budget includes the transfer of one position to Customer Initiatives and Internal Operations to support general maintenance functions

DIVISION: FINANCE AND ADMINISTRATIVE COMPLIANCE

Directs financial, budget and capital funding coordination, and information technology functions.

- Coordinates financial activities including debt administration, investments, grants and cash management
- Administers Controller's functions, general ledger, assets control and accounts payable; prepares retail, wholesale and special billings and collection
- Manages the Department's operating and capital budgets
- Manages business process support for customer care and billing, enterprise resource planning financial and enterprise asset management software systems
- Manages information technology
- Oversees contract compliance, provides strategic planning, and directs performance improvement and efficiency savings programs

Key Department Measures, Strategic Objectives, and Resiliency Drivers

Measures	SO	RD	Type	Good	FY 16-17	FY 17-18	FY 18-19	FY 18-19	FY 19-20
					Actual	Actual	Budget	Projection	Target
Bond rating evaluation by Fitch	GG4-1	ES-3	OC	↑	A+	A+	A+	A+	A+
Bond rating evaluation by Standard and Poor's*	GG4-1	ES-3	OC	↑	A+	A+	A+	Aa-	Aa-
Bond rating evaluation by Moody's	GG4-1	ES-3	OC	↑	Aa3	Aa3	Aa3	Aa3	Aa3

*The change in the bond rating in FY 2018-19 from A+ to Aa- reflects an improvement.

DIVISION COMMENTS

- The FY 2019-20 Proposed Budget includes the transfer of two positions to Customer Initiatives and Internal Operation to support customer service and general operations
- The FY 2019-20 Proposed Budget includes payments to the Finance Department for expenses associated with cash management services (\$50,000)
- The FY 2018-19 year-end combined fund balance is projected to be \$105 million in rate stabilization and general reserve funds; in FY 2019-20, these reserves are expected to increase to a combined balance of \$106.9 million and the Department is projecting a year-end fund balance of \$80 million in the operating budget as required for bond ordinances

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DIVISION: PROGRAM MANAGEMENT AND REGULATORY COMPLIANCE

Directs compliance with state and federal agreements and utilities development.

- Directs planning of water and wastewater facilities and infrastructure
- Directs design and construction activities for both the water and wastewater systems
- Oversees environmental regulations and compliance with federal and state agreements
- Directs Water Use Efficiency and Water Loss Reduction programs
- Processes applications for new water services, mains, pump stations and fire hydrant installations by private contractors

Key Department Measures, Strategic Objectives, and Resiliency Drivers

Measures	SO	RD	Type	Good	FY 16-17	FY 17-18	FY 18-19	FY 18-19	FY 19-20
					Actual	Actual	Budget	Projection	Target
Percentage of Consent Decree Wastewater Projects on Schedule	NI2-1	IE-1	OC	↑	95%	99%	97%	97%	97%
Percent compliance with 20-Year Water Use Permit (WUP) as scheduled	NI2-1	IE-1	OC	↑	100%	100%	100%	100%	100%
Percentage of Comprehensive Development Master Plan and Development Impact Committee comments provided in a timely manner	NI2-1	LS-3	EF	↑	100%	100%	100%	100%	100%
Percentage of Ocean Outfall Legislation projects on schedule	NI2-1	IE-1	OC	↑	100%	100%	100%	100%	100%

DIVISION COMMENTS

- **The FY 2019-20 Proposed Budget includes the establishment of four positions to enhance surveying, planning and regulatory compliance functions and seven positions to enhance plans reviews and service locator functions**
- The FY 2019-20 Proposed Budget includes the transfer of one position to Customer Initiatives and Internal Operations to enhance general maintenance operations
- In FY 2019-20, the Department will continue a program to reduce energy consumption encompassing facilities lighting and controls, operational equipment energy consumption, the implementation of the Energy Star Power plan, and an employee awareness program, which includes an energy conservation website, newsletter, and workshops
- The FY 2019-20 Proposed Budget includes funding to the Parks, Recreation and Open Spaces (PROS) Department for Cooperative Extension's Florida Yards and Neighborhoods Program (\$285,000) and funding for CBO environmental related grants (\$200,000)

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DIVISION: CUSTOMER INITIATIVES AND INTERNAL OPERATIONS

Directs legislative and municipal policies, public information dissemination, and security services and emergency communication; Directs retail customer services, meter installations and maintenance, procurement, human resources, fleet, and other general maintenance services.

- Manages retail customer services, human capital planning and general maintenance.
- Coordinates communications with media and customers
- Coordinates state and federal legislative actions and liaises with municipalities
- Coordinates items submitted to the Board of County Commissioners

Key Department Measures, Strategic Objectives, and Resiliency Drivers

Measures	SO	RD	Type	Good	FY 16-17	FY 17-18	FY 18-19	FY 18-19	FY 19-20
					Actual	Actual	Budget	Projection	Target
Training hours per employee	NI2-1	LS-1	OP	↔	15	15	15	17	19
Average call wait time (in minutes)*	NI2-1	LS-2	EF	↓	2.3	3.0	2.5	2.5	2.5
Percentage of calls answered within two minutes (monthly)*	NI2-1	LS-2	OC	↑	65%	53%	75%	59%	70%
Percentage of non-emergency requests dispatched in less than three business days	NI2-1	HW-1	OC	↑	88%	78%	99%	83%	99%

*Due to higher than budgeted attrition, the percentage of calls answered within two minutes decreased in FY 2017-18.

DIVISION COMMENTS

- The FY 2019-20 Proposed Budget includes the transfer of four positions from Water and Wastewater Systems Operations, Program Management and Regulatory Compliance and Finance and Administrative Compliance to enhance customer service and general maintenance activities
- The Department continues working on an outreach campaign that includes branding of the Department for community recognition and will inform the citizens on water and wastewater services and the Multi-Year Capital Improvements Plan
- The FY 2019-20 Proposed Budget includes a payment to the Human Resources Department for testing and validation services (\$17,000)
- The FY 2019-20 Proposed Budget includes a payment to the Community Action and Human Services Department for landscape maintenance by the Greater Miami Service Corps (\$100,000)

CAPITAL BUDGET HIGHLIGHTS AND OPERATIONAL IMPACTS

- 👉 In FY 2018-19, while developing the FY 2019-20 Proposed Budget, the Department re-evaluated all capital projects; with an emphasis on all federal, state, and local requirements, the scope and timing of many projects were modified; based on changes in scope, new projects were added in the amount of \$873 million, the completion or removal of some projects decreased the capital plan by \$273 million, reclassifying some projects that are now unfunded, decreased the capital plan by \$2.251 billion, changes to active projects based on pricing and scope revisions by \$2.243 billion, based on all project modifications, the multi-year capital plan decreased by \$3.871 billion
- 👉 The Department continues to evaluate every project in the capital budget for scope, timeframe and revisions to estimates with the most current industry cost data; this continuous diligence has resulted in the Multi-Year Capital Plan being reduced from \$13.3 billion in FY 2017-18 to \$11.4 billion in FY 2018-19, and the Proposed to \$7.5 billion dollars

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- ☛ The Department's FY 2019-20 Proposed Budget and Multi-Year Capital Plan is systematic and responsible in addressing regulatory requirements related to aging infrastructure such as pump stations, treatment plants, and transmission lines and necessary upgrades (\$7.524 billion); the capital plan addresses \$5.8 billion in wastewater needs, \$1.5 billion in water needs and BBC-GOB Water and Wastewater projects of \$166 million dollars
- ☛ The Department's FY 2019-20 Proposed Budget and Multi-Year Capital Plan includes the continued implementation of various water system capital projects; FY 2019-20 includes \$196 million of projects such as the Hialeah/Preston Water Treatment Plant (\$21.358 million), Alexander Orr Water Treatment Plant (\$15.462 million), Small Diameter Water Main Replacement Program (\$35.354 million), and Water Distribution System (\$21.087 million)
- ☛ The Department's FY 2019-20 Proposed Budget and Multi-Year Capital Plan also addresses the continued implementation of various wastewater systems capital projects (\$446 million); major demands include: Pump Station Improvement Program (\$14.250 million), Ocean Outfalls Program (\$13.269 million), Consent Decree (\$191.843 million), and Pump Station Resilience Program (\$15.991 million)
- ☛ In FY 2012-13, the Department negotiated a consent agreement with the Federal Environmental Protection Agency (EPA) to address regulatory violations resulting from failing wastewater infrastructure for approximately \$1.6 billion; the agreement was adopted by the Board of County Commissioners on May 21, 2013; on April 9, 2014, the U.S. District Court for the Southern District approved the Consent Decree, replacing and superseding the two existing Consent Decrees issued in the early-mid 1990s; all projects contained in the Consent Decree are currently included in the capital plan, but as projects advance, schedules for completion may need to be modified, with the approval of the EPA; increased debt requirements will lead to future rate adjustments
- ☛ In FY 2019-20, the Department is continuing to increase its focus on Inflow/Infiltration (I&I) to reduce flows into the wastewater system from ground water and rain; this will result in a reduction of conveyed and treated flows at Wastewater treatment plants resulting in a capital and operational savings; a study will begin to quantify this savings; the FY 2019-20 budget for I&I is \$13.431 million
- ☛ The Department's FY 2019-20 Proposed Budget and Multi-Year Capital Plan includes the purchase of 539 vehicles to replace its aging fleet (heavy fleet - \$8.515 million and light fleet - \$6.510 million); the fleet replacement plan will provide operational savings to the Department in the long-term as it will reduce maintenance costs, fuel consumption, and overtime as a result of addressing equipment failure; the County's fleet replacement plan is included under Non-Departmental project #2000000511

SELECTED ITEM HIGHLIGHTS AND DETAILS

Line Item Highlights	(dollars in thousands)				
	Actual FY 16-17	Actual FY 17-18	Budget FY 18-19	Projection FY 18-19	Proposed FY 19-20
Advertising	731	619	920	932	992
Fuel	2,584	2,913	2,837	2,803	3,069
Overtime	14,795	16,053	15,994	16,084	16,082
Rent	1,201	798	1,327	707	838
Security Services	12,905	11,888	16,000	13,769	14,000
Temporary Services	1,235	773	1,500	635	1,527
Travel and Registration	210	222	509	256	402

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PROPOSED FEE ADJUSTMENTS FOR SERVICES

Fee Adjustments	Current Fee FY 18-19	Proposed Fee FY 19-20	Dollar Impact FY 19-20
• Waste Haulers Calibration Certificate	0	\$100.00	\$9,800
• Hauled Waste Receiving Station Clean-up	0	\$414.00	\$1,500
• Departmental review of Other Waste Load Disposal	0	\$111.00	\$2,666
• Laboratory sampling of Other Waste Load disposal. Fee is charged per sample.	0	\$563.00	\$2,812
• Septic Tank Disposal Fee - After Hours. Fee per 100 gallons.	0	\$10.00	\$2,473
• Grease Trap Disposal Fee - After Hours. (Per 100 gallons)	0	\$14.00	\$11,475
• Backflow Prevention Assembly test Report submission	0	\$5.00	\$130,000
• Douglas Road Building - space rental per square footage. Price per square foot	0	\$35.00	\$495,000
• Septic Tank Waste Disposal Fee per 100 gallons	\$3.25	\$5.00	\$1,500,000
• Water Retail Rate Adjustments	various	various	\$32,927,000
• Wastewater Retail Rate Adjustments	various	various	\$3,498,000
• Water Wholesale Rate per one thousand gallons	\$1.76	\$1.66	\$-2,288,000
• Wastewater Wholesale Rate per one thousand gallons	\$3.09	\$3.19	\$-1,723,000

OPERATING FINANCIAL SUMMARY

(dollars in thousands)	Actual FY 16-17	Actual FY 17-18	Budget FY 18-19	Proposed FY 19-20
Revenue Summary				
Carryover	68,551	71,638	74,199	78,099
Miscellaneous Non-Operating	3,144	9,566	7,788	14,150
Other Revenues	28,932	30,275	30,404	32,322
Retail Wastewater	288,910	295,564	314,420	317,918
Retail Water	265,636	268,275	269,552	302,479
Transfer From Other Funds	0	0	18,440	1,793
Wholesale Wastewater	88,938	78,425	77,991	76,268
Wholesale Water	34,916	39,310	32,408	30,120
Total Revenues	779,027	793,053	825,202	853,149

Operating Expenditures Summary	Actual FY 16-17	Actual FY 17-18	Budget FY 18-19	Proposed FY 19-20
Salary	166,400	181,390	174,843	191,971
Fringe Benefits	57,782	65,547	73,474	75,514
Contractual Services	88,675	70,399	109,953	94,684
Other Operating	32,380	38,798	46,259	41,017
Charges for County Services	53,293	58,057	64,063	77,176
Capital	93,102	112,395	92,373	92,441
Total Operating Expenditures	491,632	526,586	560,965	572,803

Non-Operating Expenditures Summary	Actual FY 16-17	Actual FY 17-18	Budget FY 18-19	Proposed FY 19-20
Transfers	18,498	9,843	0	0
Distribution of Funds In Trust	0	0	0	0
Debt Service	175,086	183,672	186,138	200,286
Depreciation, Amortizations and Depletion	0	0	0	0
Reserve	0	0	78,099	80,060
Total Non-Operating Expenditures	193,584	193,515	264,237	280,346

(dollars in thousands)	Total Funding		Total Positions	
Expenditure By Program	Budget FY 18-19	Proposed FY 19-20	Budget FY 18-19	Proposed FY 19-20
Strategic Area: Neighborhood and Infrastructure				
Office of the Director	4,075	4,752	12	12
Water and Wastewater	368,262	379,724	1,622	1,635
Systems Operations				
Finance and Administrative Compliance	50,048	52,055	240	238
Program Management and Regulatory Compliance	48,279	46,921	319	329
Customer Initiatives and Internal Operations	90,301	89,351	598	602
Total Operating Expenditures	560,965	572,803	2,791	2,816

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CAPITAL BUDGET SUMMARY

(dollars in thousands)	PRIOR	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FUTURE	TOTAL
Revenue									
BBC GOB Financing	32,036	12,152	16,579	19,484	20,796	30,900	34,287	0	166,234
Fire Hydrant Fund	9,971	2,500	2,500	2,500	2,500	2,500	2,500	2,500	27,471
Future WASD Revenue Bonds	0	346,494	447,026	508,070	572,287	608,232	559,610	1,483,791	4,525,510
Miami Springs Wastewater Construction Fund	867	0	207	252	0	0	0	0	1,326
Miami Springs Water Construction Fund	8,657	4,653	0	0	0	0	0	0	13,310
State Revolving Loan Wastewater Program	41,046	0	0	0	0	0	0	0	41,046
State Revolving Loan Water Program	40,788	6,560	6,958	307	0	0	0	0	54,613
WASD Revenue Bonds Sold	1,122,673	0	0	0	0	0	0	0	1,122,673
Wastewater Connection Charges	129,977	51,038	64,820	31,491	18,453	20,753	18,000	0	334,532
Wastewater Renewal Fund	224,186	42,701	55,500	55,000	55,000	55,000	55,000	55,000	597,387
Wastewater Special Construction Fund	8,517	0	0	0	0	0	0	0	8,517
Water Connection Charges	25,338	10,867	289	0	0	0	0	0	36,494
Water Renewal and Replacement Fund	201,279	47,299	34,500	35,000	35,000	35,000	40,000	40,000	468,078
Water Special Construction Fund	24,397	500	500	500	500	500	500	0	27,397
WIFIA Loan	99,700	0	0	0	0	0	0	0	99,700
Total:	1,969,432	524,764	628,879	652,604	704,536	752,885	709,897	1,581,291	7,524,288
Expenditures									
Strategic Area: NI									
GOB Water and Wastewater Projects	32,036	12,152	16,579	19,484	20,796	30,900	34,287	0	166,234
Wastewater Projects	1,285,969	434,645	505,701	535,352	582,625	618,523	568,625	1,316,149	5,847,589
Water Projects	409,593	194,646	157,035	137,702	122,322	110,462	109,613	269,092	1,510,465
Total:	1,727,598	641,443	679,315	692,538	725,743	759,885	712,525	1,585,241	7,524,288

FUNDED CAPITAL PROJECTS

(dollars in thousands)

CENTRAL DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES

PROJECT #: 9653421



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

LOCATION: Virginia Key District Located: 7
City of Miami District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	750	2,500	1,550	500	200	500	8,500	14,500
WASD Revenue Bonds Sold	500	0	0	0	0	0	0	0	500
TOTAL REVENUES:	500	750	2,500	1,550	500	200	500	8,500	15,000
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	465	698	2,325	1,441	465	186	465	7,905	13,950
Planning and Design	35	52	175	109	35	14	35	595	1,050
TOTAL EXPENDITURES:	500	750	2,500	1,550	500	200	500	8,500	15,000

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CENTRAL MIAMI-DADE - WASTEWATER TRANSMISSION MAINS AND PUMP STATION

PROJECT #: 9650241



IMPROVEMENTS

DESCRIPTION: Construct a force main crossing Bear Cut, a force main in Flagler St from SW 37 Ave to SW 10 Ave and a force main from Miami Beach to the Central District Wastewater Treatment Plant

LOCATION: Wastewater System - Central District Area District Located: Systemwide
 City of Miami District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	7,964	4,246	3,000	1,000	0	0	0	16,210
WASD Revenue Bonds Sold	11,369	0	0	0	0	0	0	0	11,369
TOTAL REVENUES:	11,369	7,964	4,246	3,000	1,000	0	0	0	27,579
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	10,005	7,009	3,737	2,640	880	0	0	0	24,271
Land Acquisition/Improvements	227	159	85	60	20	0	0	0	551
Planning and Design	1,137	796	424	300	100	0	0	0	2,757
TOTAL EXPENDITURES:	11,369	7,964	4,246	3,000	1,000	0	0	0	27,579

Estimated Annual Operating Impact will begin in FY 2019-20 in the amount of \$2,253,000 and includes 0 FTE(s)

CENTRAL MIAMI-DADE - WATER TRANSMISSION MAINS IMPROVEMENTS

PROJECT #: 9654041



DESCRIPTION: Replace various low-pressure water mains; install a 20-inch water main at railroad crossings via microtunneling method

LOCATION: Central Miami-Dade County Area District Located: Systemwide
 City of Miami District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	0	254	700	1,000	4,220	4,271	10,445
Water Renewal and Replacement Fund	266	0	0	0	0	0	0	0	266
TOTAL REVENUES:	266	0	0	254	700	1,000	4,220	4,271	10,711
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	255	0	0	241	665	950	4,009	4,058	10,178
Planning and Design	11	0	0	13	35	50	211	213	533
TOTAL EXPENDITURES:	266	0	0	254	700	1,000	4,220	4,271	10,711

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COMMERCIAL AND INDUSTRIAL CORRIDORS - EXTENSION OF SEWER SYSTEM (BUILDING BETTER COMMUNITIES BOND PROGRAM) PROJECT #: 967090

DESCRIPTION: Extend sewer service to developed commercial and industrial corridors in Miami-Dade County as per BCC Resolution R-537-14

LOCATION: Various Sites	District Located: Countywide	
Throughout Miami-Dade County	District(s) Served: Countywide	

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
BBC GOB Financing	9,298	10,383	15,476	18,975	20,470	30,900	20,498	0	126,000
TOTAL REVENUES:	9,298	10,383	15,476	18,975	20,470	30,900	20,498	0	126,000
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	8,799	10,272	15,476	18,975	20,470	27,900	17,423	0	119,315
Planning and Design	499	111	0	0	0	3,000	3,075	0	6,685
TOTAL EXPENDITURES:	9,298	10,383	15,476	18,975	20,470	30,900	20,498	0	126,000

FLOW REDUCTION PROGRAM (FRP) PROJECT #: 9650201

DESCRIPTION: Implementation of the Flow Reduction Program which is comprised of two main components: Inflow and Infiltration (I&I) reduction and Pump Station Optimization (PSO) by implementing real time controls at pump stations

LOCATION: Systemwide	District Located: Systemwide	
Various Sites	District(s) Served: Systemwide	

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	7,277	8,725	10,700	10,900	11,200	13,700	194,764	257,266
WASD Revenue Bonds Sold	5,525	0	0	0	0	0	0	0	5,525
TOTAL REVENUES:	5,525	7,277	8,725	10,700	10,900	11,200	13,700	194,764	262,791
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	4,972	6,550	7,852	9,630	9,810	10,080	12,330	175,288	236,512
Planning and Design	553	727	873	1,070	1,090	1,120	1,370	19,476	26,279
TOTAL EXPENDITURES:	5,525	7,277	8,725	10,700	10,900	11,200	13,700	194,764	262,791

LIFT STATIONS - UPGRADES AND STRUCTURAL IMPROVEMENTS PROJECT #: 9650371

DESCRIPTION: Repair, replace and upgrade existing lift stations throughout the wastewater system

LOCATION: Systemwide	District Located: Systemwide	
Various Sites	District(s) Served: Systemwide	

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,381	0	0	0	0	0	0	2,381
WASD Revenue Bonds Sold	2,374	0	0	0	0	0	0	0	2,374
Wastewater Renewal Fund	8,505	3,500	3,500	3,500	3,500	3,500	3,500	3,500	33,005
TOTAL REVENUES:	10,879	5,881	3,500	3,500	3,500	3,500	3,500	3,500	37,760
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	7,940	5,467	2,800	2,800	2,800	2,800	2,800	2,800	30,207
Land Acquisition/Improvements	695	479	245	245	245	245	245	245	2,644
Major Machinery and Equipment	297	205	105	105	105	105	105	105	1,132
Planning and Design	994	683	350	350	350	350	350	350	3,777
TOTAL EXPENDITURES:	9,926	6,834	3,500	3,500	3,500	3,500	3,500	3,500	37,760

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MIAMI SPRINGS - PUMP STATION UPGRADES (BUILDING BETTER COMMUNITIES BOND PROGRAM) PROJECT #: 967730

DESCRIPTION: Upgrade electrical control panels, pumps and the proprietary supervisory control data acquisition (SCADA) system
 LOCATION: Various Sites District Located: 6
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
BBC GOB Financing	733	75	25	5	0	0	0	0	838
TOTAL REVENUES:	733	75	25	5	0	0	0	0	838
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	733	75	25	5	0	0	0	0	838
TOTAL EXPENDITURES:	733	75	25	5	0	0	0	0	838

MIAMI SPRINGS CONSTRUCTION FUND - WASTEWATER PROJECT #: 969110

DESCRIPTION: Construct wastewater collection system improvements in Miami Springs
 LOCATION: Miami Springs District Located: 6
 Miami Springs District(s) Served: 6

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Miami Springs Wastewater Construction Fund	867	0	207	252	0	0	0	0	1,326
TOTAL REVENUES:	867	0	207	252	0	0	0	0	1,326
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	789	0	188	229	0	0	0	0	1,206
Planning and Design	78	0	19	23	0	0	0	0	120
TOTAL EXPENDITURES:	867	0	207	252	0	0	0	0	1,326

MIAMI SPRINGS CONSTRUCTION FUND - WATER PROJECT #: 965450

DESCRIPTION: Repair and/or replace water transmission pipes in Miami Springs
 LOCATION: Miami Springs District Located: 6
 Miami Springs District(s) Served: 6

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Miami Springs Water Construction Fund	8,657	4,653	0	0	0	0	0	0	13,310
TOTAL REVENUES:	8,657	4,653	0	0	0	0	0	0	13,310
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	7,791	4,188	0	0	0	0	0	0	11,979
Planning and Design	866	465	0	0	0	0	0	0	1,331
TOTAL EXPENDITURES:	8,657	4,653	0	0	0	0	0	0	13,310

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NEEDS ASSESSMENT PROJECTS (BUILDING BETTER COMMUNITIES BOND PROGRAM)

PROJECT #: 964350



DESCRIPTION: Construction of water and sewer enhancements including water mains, pipelines and sewer collection systems
 LOCATION: Various Sites
 District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
BBC GOB Financing	10,812	1,394	789	504	326	0	0	0	13,825
TOTAL REVENUES:	10,812	1,394	789	504	326	0	0	0	13,825
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	9,267	1,394	789	504	326	0	0	0	12,280
Permitting	171	0	0	0	0	0	0	0	171
Planning and Design	1,374	0	0	0	0	0	0	0	1,374
TOTAL EXPENDITURES:	10,812	1,394	789	504	326	0	0	0	13,825

NORTH DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES

PROJECT #: 9653411



DESCRIPTION: Construct a chlorine improvement process, replace sluice gates in the pre-treatment bar screen room and provide for various upgrades and rehabilitation of the plant
 LOCATION: 2575 NE 151 St
 North Miami
 District Located: 4
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,008	4,912	5,800	4,500	3,500	18,000	0	38,720
WASD Revenue Bonds Sold	7,182	0	0	0	0	0	0	0	7,182
TOTAL REVENUES:	7,182	2,008	4,912	5,800	4,500	3,500	18,000	0	45,902
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	6,895	1,928	4,715	5,568	4,320	3,360	17,280	0	44,066
Planning and Design	287	80	197	232	180	140	720	0	1,836
TOTAL EXPENDITURES:	7,182	2,008	4,912	5,800	4,500	3,500	18,000	0	45,902

NORTH MIAMI-DADE - WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS

PROJECT #: 9652101



DESCRIPTION: Improve pump stations to increase system flexibility
 LOCATION: Wastewater System - North District Area
 Various Sites
 District Located: Systemwide
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	4,933	16,044	15,689	25,700	39,120	19,450	44,836	165,772
WASD Revenue Bonds Sold	1,821	0	0	0	0	0	0	0	1,821
Wastewater Connection Charges	262	750	1,591	3,032	6,365	0	0	0	12,000
TOTAL REVENUES:	2,083	5,683	17,635	18,721	32,065	39,120	19,450	44,836	179,593
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	1,875	5,115	15,872	16,849	28,858	35,208	17,504	40,352	161,633
Land Acquisition/Improvements	63	171	529	562	962	1,174	584	1,345	5,390
Planning and Design	145	397	1,234	1,310	2,245	2,738	1,362	3,139	12,570
TOTAL EXPENDITURES:	2,083	5,683	17,635	18,721	32,065	39,120	19,450	44,836	179,593

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NORTH MIAMI-DADE - WATER TRANSMISSION MAIN IMPROVEMENTS

PROJECT #: 9654031



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

LOCATION: North Miami-Dade County Area District Located: Systemwide
 Miami Gardens District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	9,383	31,956	12,364	1,731	551	386	0	56,371
WASD Revenue Bonds Sold	11,852	0	0	0	0	0	0	0	11,852
Water Connection Charges	20,092	9,220	289	0	0	0	0	0	29,601
Water Renewal and Replacement	240	0	0	0	0	0	0	0	240
Fund									
TOTAL REVENUES:	32,184	18,603	32,245	12,364	1,731	551	386	0	98,064
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	30,257	17,487	30,310	11,621	1,627	518	363	0	92,183
Planning and Design	1,927	1,116	1,935	743	104	33	23	0	5,881
TOTAL EXPENDITURES:	32,184	18,603	32,245	12,364	1,731	551	386	0	98,064

OUTFALL LEGISLATION

PROJECT #: 962670



DESCRIPTION: Eliminate outfall flows to the ocean

LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	42,577	43,687	81,836	151,655	206,305	239,376	515,628	1,281,064
State Revolving Loan Wastewater Program	41,046	0	0	0	0	0	0	0	41,046
WASD Revenue Bonds Sold	106,063	0	0	0	0	0	0	0	106,063
Wastewater Connection Charges	19,652	16,420	15,910	14,240	12,088	20,753	18,000	0	117,063
Wastewater Special Construction	1,064	0	0	0	0	0	0	0	1,064
Fund									
WIFIA Loan	99,700	0	0	0	0	0	0	0	99,700
TOTAL REVENUES:	267,525	58,997	59,597	96,076	163,743	227,058	257,376	515,628	1,646,000
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	150,284	70,850	90,724	118,689	163,714	208,893	236,786	474,378	1,514,318
Land Acquisition/Improvements	1,634	770	986	1,289	1,779	2,271	2,574	5,156	16,459
Planning and Design	11,436	5,391	6,903	9,032	12,457	15,894	18,016	36,094	115,223
TOTAL EXPENDITURES:	163,354	77,011	98,613	129,010	177,950	227,058	257,376	515,628	1,646,000

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OUTFALL LEGISLATION - CAPACITY

PROJECT #: 200000580

DESCRIPTION: Redirect flows to regional plants and account for peak flows through 2035
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	11,258	26,310	67,894	69,523	60,538	55,500	114,400	405,423
WASD Revenue Bonds Sold	7,201	0	0	0	0	0	0	0	7,201
Wastewater Connection Charges	41,468	25,000	41,691	11,000	0	0	0	0	119,159
TOTAL REVENUES:	48,669	36,258	68,001	78,894	69,523	60,538	55,500	114,400	531,783
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	45,262	33,720	63,241	73,371	64,656	56,301	51,615	106,392	494,558
Land Acquisition/Improvements	487	363	680	789	695	605	555	1,144	5,318
Planning and Design	2,920	2,175	4,080	4,734	4,172	3,632	3,330	6,864	31,907
TOTAL EXPENDITURES:	48,669	36,258	68,001	78,894	69,523	60,538	55,500	114,400	531,783

PEAK FLOW MANAGEMENT FACILITIES

PROJECT #: 9653371

DESCRIPTION: Evaluate and construct alternatives for peak flow management facilities and associated infrastructure
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	738	3,207	1,500	950	750	300	5,599	13,044
Wastewater Connection Charges	1,088	1,498	0	0	0	0	0	0	2,586
TOTAL REVENUES:	1,088	2,236	3,207	1,500	950	750	300	5,599	15,630
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	979	2,012	2,886	1,350	855	675	270	5,039	14,066
Planning and Design	109	224	321	150	95	75	30	560	1,564
TOTAL EXPENDITURES:	1,088	2,236	3,207	1,500	950	750	300	5,599	15,630

PUMP STATION RESILIENCE PROGRAM (PSRP)

PROJECT #: 200000784

DESCRIPTION: Implement a pump station resiliency program to improve pump stations systemwide
 LOCATION: Systemwide District Located: Countywide
 Various Sites District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	15,991	18,177	16,754	21,453	40,245	36,755	127,648	277,023
WASD Revenue Bonds Sold	11,883	0	0	0	0	0	0	0	11,883
Wastewater Connection Charges	46,945	0	0	0	0	0	0	0	46,945
TOTAL REVENUES:	58,828	15,991	18,177	16,754	21,453	40,245	36,755	127,648	335,851
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	51,180	13,912	15,814	14,576	18,664	35,014	31,976	111,054	292,190
Land Acquisition/Improvements	588	160	182	167	214	402	368	1,277	3,358
Major Machinery and Equipment	2,941	800	909	838	1,073	2,012	1,838	6,382	16,793
Planning and Design	4,119	1,119	1,272	1,173	1,502	2,817	2,573	8,935	23,510
TOTAL EXPENDITURES:	58,828	15,991	18,177	16,754	21,453	40,245	36,755	127,648	335,851

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PUMP STATIONS - GENERATORS AND MISCELLANEOUS UPGRADES

PROJECT #: 9652002

DESCRIPTION: Install emergency generators and construct miscellaneous upgrades at wastewater pump stations
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,229	1,605	1,634	1,590	1,601	1,645	1,750	11,054
WASD Revenue Bonds Sold	641	0	0	0	0	0	0	0	641
TOTAL REVENUES:	641	1,229	1,605	1,634	1,590	1,601	1,645	1,750	11,695
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	571	1,094	1,428	1,455	1,415	1,425	1,464	1,557	10,409
Major Machinery and Equipment	25	49	64	65	64	64	66	70	467
Planning and Design	45	86	113	114	111	112	115	123	819
TOTAL EXPENDITURES:	641	1,229	1,605	1,634	1,590	1,601	1,645	1,750	11,695

PUMP STATIONS - IMPROVEMENT PROGRAM

PROJECT #: 9651071

DESCRIPTION: Upgrade pump stations systemwide to meet departmental forecasted demands
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	8,993	1,699	0	0	0	0	0	10,692
WASD Revenue Bonds Sold	104,698	0	0	0	0	0	0	0	104,698
Wastewater Connection Charges	2,628	5,257	2,628	0	0	0	0	0	10,513
TOTAL REVENUES:	107,326	14,250	4,327	0	0	0	0	0	125,903
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	101,960	13,537	4,111	0	0	0	0	0	119,608
Planning and Design	5,366	713	216	0	0	0	0	0	6,295
TOTAL EXPENDITURES:	107,326	14,250	4,327	0	0	0	0	0	125,903

SAFE DRINKING WATER ACT MODIFICATIONS

PROJECT #: 9654061

DESCRIPTION: Modify water treatment to comply with Surface Water Treatment (SWT) and Disinfectant/Disinfection By Product (D-DBP) Regulations
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	2,250	5,341	7,500	6,794	3,000	1,000	43,250	69,135
WASD Revenue Bonds Sold	2,226	0	0	0	0	0	0	0	2,226
Water Connection Charges	246	1,647	0	0	0	0	0	0	1,893
Water Renewal and Replacement Fund	2,620	0	0	0	0	0	0	0	2,620
TOTAL REVENUES:	5,092	3,897	5,341	7,500	6,794	3,000	1,000	43,250	75,874
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	4,685	3,585	4,913	6,900	6,250	2,760	920	39,790	69,803
Planning and Design	407	312	428	600	544	240	80	3,460	6,071
TOTAL EXPENDITURES:	5,092	3,897	5,341	7,500	6,794	3,000	1,000	43,250	75,874

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SANITARY SEWER SYSTEM - EXTENSION

PROJECT #: 9653281



DESCRIPTION: Extend sewer system lines to include the existing sanitary sewer needs assessment
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
WASD Revenue Bonds Sold	163	0	0	0	0	0	0	0	163
Wastewater Renewal Fund	18,841	1,500	3,000	3,500	3,500	3,500	3,500	3,500	40,841
TOTAL REVENUES:	19,004	1,500	3,000	3,500	3,500	3,500	3,500	3,500	41,004
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	10,036	9,853	2,910	3,395	3,395	3,395	3,395	3,395	39,774
Planning and Design	310	305	90	105	105	105	105	105	1,230
TOTAL EXPENDITURES:	10,346	10,158	3,000	3,500	3,500	3,500	3,500	3,500	41,004

SANITARY SEWER SYSTEM - IMPROVEMENTS

PROJECT #: 9650221



DESCRIPTION: Construct sanitary sewer system improvements using funds from the special construction fund including special taxing districts
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
WASD Revenue Bonds Sold	10,535	0	0	0	0	0	0	0	10,535
Wastewater Special Construction Fund	4,454	0	0	0	0	0	0	0	4,454
TOTAL REVENUES:	14,989	0	0	0	0	0	0	0	14,989
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	11,870	495	495	495	495	495	495	0	14,840
Planning and Design	119	5	5	5	5	5	5	0	149
TOTAL EXPENDITURES:	11,989	500	500	500	500	500	500	0	14,989

SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS

PROJECT #: 964440



DESCRIPTION: Design, construct, and rehabilitate pump stations infrastructure systems to comply with EPA Consent Decree
 LOCATION: Various Sites District Located: Countywide
 Throughout Miami-Dade County District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	14,607	5,076	2,199	1,026	216	0	0	23,124
WASD Revenue Bonds Sold	84,841	0	0	0	0	0	0	0	84,841
Wastewater Connection Charges	2,759	0	0	0	0	0	0	0	2,759
TOTAL REVENUES:	87,600	14,607	5,076	2,199	1,026	216	0	0	110,724
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	75,337	12,562	4,365	1,891	883	186	0	0	95,224
Land Acquisition/Improvements	875	146	51	22	10	2	0	0	1,106
Major Machinery and Equipment	7,885	1,315	457	198	92	19	0	0	9,966
Planning and Design	3,503	584	203	88	41	9	0	0	4,428
TOTAL EXPENDITURES:	87,600	14,607	5,076	2,199	1,026	216	0	0	110,724

Estimated Annual Operating Impact will begin in FY 2019-20 in the amount of \$1,200,000 and includes 0 FTE(s)

FY 2019 - 20 Proposed Budget and Multi-Year Capital Plan

SMALL DIAMETER WATER MAINS - REPLACEMENT PROGRAM

PROJECT #: 200000072



DESCRIPTION: Design, construct and replace undersized water mains to improve fire flows, pressure to homes and quality of water

LOCATION: Systemwide	District Located: Countywide	
Throughout Miami-Dade County	District(s) Served: Countywide	

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Fire Hydrant Fund	464	0	0	0	0	0	0	0	464
Future WASD Revenue Bonds	0	23,795	21,045	33,238	33,964	25,508	17,096	25,101	179,747
State Revolving Loan Water Program	40,788	6,560	6,958	307	0	0	0	0	54,613
WASD Revenue Bonds Sold	38,904	0	0	0	0	0	0	0	38,904
Water Renewal and Replacement Fund	25,703	0	0	0	0	0	5,000	5,000	35,703
TOTAL REVENUES:	105,859	30,355	28,003	33,545	33,964	25,508	22,096	30,101	309,431
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	72,843	32,119	30,002	34,990	35,368	27,757	20,186	27,391	280,656
Planning and Design	8,017	3,235	3,001	3,555	3,596	2,751	1,910	2,710	28,775
TOTAL EXPENDITURES:	80,860	35,354	33,003	38,545	38,964	30,508	22,096	30,101	309,431

SOUTH DISTRICT - WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS

PROJECT #: 9651061



DESCRIPTION: Construct piping improvements to pump station number 536 and force main upgrade in SW 117 Ave

LOCATION: Wastewater System - South District Area	District Located: Systemwide	
Various Sites	District(s) Served: Systemwide	

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	50	100	2,299	7,500	10,572	0	0	20,521
TOTAL REVENUES:	0	50	100	2,299	7,500	10,572	0	0	20,521
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	0	45	90	2,069	6,750	9,515	0	0	18,469
Land Acquisition/Improvements	0	1	2	46	150	211	0	0	410
Planning and Design	0	4	8	184	600	846	0	0	1,642
TOTAL EXPENDITURES:	0	50	100	2,299	7,500	10,572	0	0	20,521

FY 2019 - 20 Proposed Budget and Multi-Year Capital Plan

SOUTH DISTRICT - WASTEWATER TREATMENT PLANT EXPANSION (PHASE 3)

PROJECT #: 9655481



DESCRIPTION: Expand the South District Wastewater Plant and injection wells and install emergency generators
 LOCATION: 8950 SW 232 St
 Unincorporated Miami-Dade County

District Located: 8
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	949	1,700	2,000	300	0	0	0	4,949
WASD Revenue Bonds Sold	108	0	0	0	0	0	0	0	108
Wastewater Connection Charges	72	186	0	0	0	0	0	0	258
TOTAL REVENUES:	180	1,135	1,700	2,000	300	0	0	0	5,315
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	165	1,029	1,530	1,800	270	0	0	0	4,794
Planning and Design	15	106	170	200	30	0	0	0	521
TOTAL EXPENDITURES:	180	1,135	1,700	2,000	300	0	0	0	5,315

SOUTH DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES

PROJECT #: 9653401



DESCRIPTION: Construct plant process improvements including injection and monitoring wells, installation of emergency generators, acquiring a land buffer, construction of a landfill gas pipeline, installation of co-generation units and construction of sludge handling facilities

LOCATION: 8950 SW 232 St
 Unincorporated Miami-Dade County

District Located: 8
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	699	5,626	10,102	4,250	500	250	54,378	75,805
WASD Revenue Bonds Sold	173	0	0	0	0	0	0	0	173
Wastewater Connection Charges	200	200	0	0	0	0	0	0	400
TOTAL REVENUES:	373	899	5,626	10,102	4,250	500	250	54,378	76,378
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	344	817	5,063	9,092	3,825	450	225	48,940	68,756
Planning and Design	29	82	563	1,010	425	50	25	5,438	7,622
TOTAL EXPENDITURES:	373	899	5,626	10,102	4,250	500	250	54,378	76,378

SOUTH MIAMI HEIGHTS - WATER TREATMENT PLANT AND WELLFIELD

PROJECT #: 9652821



DESCRIPTION: Construct water treatment plant, wellfields and various water transmission mains in south Miami-Dade County

LOCATION: 11800 SW 208 St
 Unincorporated Miami-Dade County

District Located: 9
 District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	4,548	1,100	1,075	1,000	1,000	10,300	0	19,023
WASD Revenue Bonds Sold	22,745	0	0	0	0	0	0	0	22,745
TOTAL REVENUES:	22,745	4,548	1,100	1,075	1,000	1,000	10,300	0	41,768
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	20,698	4,139	1,001	978	910	910	9,373	0	38,009
Planning and Design	2,047	409	99	97	90	90	927	0	3,759
TOTAL EXPENDITURES:	22,745	4,548	1,100	1,075	1,000	1,000	10,300	0	41,768

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SOUTH MIAMI-DADE - WATER TRANSMISSION MAINS IMPROVEMENTS

PROJECT #: 9650021



DESCRIPTION: Construct various water transmission mains to serve south Miami-Dade County after the new South Miami Heights water treatment plant is in service

LOCATION: South Miami-Dade County District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	500	379	3,735	149	0	0	0	4,763
WASD Revenue Bonds Sold	400	0	0	0	0	0	0	0	400
TOTAL REVENUES:	400	500	379	3,735	149	0	0	0	5,163

EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	384	450	341	3,362	134	0	0	0	4,671
Planning and Design	16	50	38	373	15	0	0	0	492
TOTAL EXPENDITURES:	400	500	379	3,735	149	0	0	0	5,163

SYSTEM IMPROVEMENTS PROJECT (BUILDING BETTER COMMUNITIES BOND PROGRAM)

PROJECT #: 962830



DESCRIPTION: Replace undersized water mains and install new fire hydrants

LOCATION: Various Sites District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
BBC GOB Financing	11,193	300	289	0	0	0	13,789	0	25,571
TOTAL REVENUES:	11,193	300	289	0	0	0	13,789	0	25,571

EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	10,239	300	289	0	0	0	13,789	0	24,617
Permitting	43	0	0	0	0	0	0	0	43
Planning and Design	847	0	0	0	0	0	0	0	847
Project Administration	64	0	0	0	0	0	0	0	64
TOTAL EXPENDITURES:	11,193	300	289	0	0	0	13,789	0	25,571

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WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT DECREE PROJECTS

PROJECT #: 968150



DESCRIPTION: Design, construct and rehabilitate collection and transmission infrastructure lines to comply with EPA Consent Decree

LOCATION: Various Sites
Throughout Miami-Dade County

District Located: Countywide
District(s) Served: Countywide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	16,729	11,700	11,936	10,414	8,700	8,700	8,700	76,879
WASD Revenue Bonds Sold	252,740	0	0	0	0	0	0	0	252,740
Wastewater Connection Charges	9,889	0	0	0	0	0	0	0	9,889
Wastewater Renewal Fund	3,907	0	0	0	0	0	0	0	3,907
TOTAL REVENUES:	266,536	16,729	11,700	11,936	10,414	8,700	8,700	8,700	343,415
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	245,213	15,391	10,764	10,981	9,581	8,004	8,004	8,004	315,942
Major Machinery and Equipment	18,657	1,171	819	836	729	609	609	609	24,039
Planning and Design	2,666	167	117	119	104	87	87	87	3,434
TOTAL EXPENDITURES:	266,536	16,729	11,700	11,936	10,414	8,700	8,700	8,700	343,415

WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT

PROJECT #: 968090



DESCRIPTION: Install new sewer service to commercial properties utilizing septic tanks

LOCATION: Various Sites
Throughout Miami-Dade County

District Located: Systemwide
District(s) Served: TBD

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	19	0	0	0	0	0	0	19
WASD Revenue Bonds Sold	5,280	0	0	0	0	0	0	0	5,280
TOTAL REVENUES:	5,280	19	0	0	0	0	0	0	5,299
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	4,699	17	0	0	0	0	0	0	4,716
Land Acquisition/Improvements	53	0	0	0	0	0	0	0	53
Planning and Design	528	2	0	0	0	0	0	0	530
TOTAL EXPENDITURES:	5,280	19	0	0	0	0	0	0	5,299

WASTEWATER - EQUIPMENT

PROJECT #: 9650301



DESCRIPTION: Acquire equipment and associated wastewater system capital support materials

LOCATION: Systemwide
Various Sites

District Located: Systemwide
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
WASD Revenue Bonds Sold	552	0	0	0	0	0	0	0	552
Wastewater Renewal Fund	48,914	10,184	16,000	15,000	15,000	15,000	15,000	15,000	150,098
TOTAL REVENUES:	49,466	10,184	16,000	15,000	15,000	15,000	15,000	15,000	150,650
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Furniture Fixtures and Equipment	1,147	0	0	0	0	0	0	0	1,147
Major Machinery and Equipment	45,468	9,573	19,462	15,000	15,000	15,000	15,000	15,000	149,503
TOTAL EXPENDITURES:	46,615	9,573	19,462	15,000	15,000	15,000	15,000	15,000	150,650

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WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS

PROJECT #: 968750



DESCRIPTION: Replace and install new pipelines in areas requiring service improvements
 LOCATION: Various Sites District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Wastewater Renewal Fund	15,835	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,835
TOTAL REVENUES:	15,835	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,835
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	14,251	2,700	2,700	2,700	2,700	2,700	2,700	2,700	33,151
Major Machinery and Equipment	792	150	150	150	150	150	150	150	1,842
Planning and Design	792	150	150	150	150	150	150	150	1,842
TOTAL EXPENDITURES:	15,835	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,835

WASTEWATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES

PROJECT #: 9653201



DESCRIPTION: Construct and/or renovate regional general maintenance centers, office facilities and storage warehouses
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	750	1,500	1,500	2,500	3,000	3,500	127,879	140,629
WASD Revenue Bonds Sold	3,081	0	0	0	0	0	0	0	3,081
Wastewater Renewal Fund	3,566	0	0	0	0	0	0	0	3,566
TOTAL REVENUES:	6,647	750	1,500	1,500	2,500	3,000	3,500	127,879	147,276
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	3,835	3,119	1,410	1,410	2,350	2,820	3,290	120,207	138,441
Land Acquisition/Improvements	41	33	15	15	25	30	35	1,279	1,473
Major Machinery and Equipment	163	133	60	60	100	120	140	5,114	5,890
Planning and Design	40	33	15	15	25	30	35	1,279	1,472
TOTAL EXPENDITURES:	4,079	3,318	1,500	1,500	2,500	3,000	3,500	127,879	147,276

WASTEWATER - SYSTEM MAINTENANCE AND UPGRADES

PROJECT #: 9650361



DESCRIPTION: Maintain and develop existing wastewater system facilities, structures and equipment
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Wastewater Renewal Fund	46,617	15,796	20,000	20,000	20,000	20,000	20,000	20,000	182,413
TOTAL REVENUES:	46,617	15,796	20,000	20,000	20,000	20,000	20,000	20,000	182,413
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	17,343	4,475	4,000	4,000	4,000	4,000	4,000	4,000	45,818
Major Machinery and Equipment	22,693	17,902	16,000	16,000	16,000	16,000	16,000	16,000	136,595
TOTAL EXPENDITURES:	40,036	22,377	20,000	20,000	20,000	20,000	20,000	20,000	182,413

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WASTEWATER - TELEMETERING SYSTEM

PROJECT #: 9652481

DESCRIPTION: Install a computer system to monitor and control wastewater flows and pressures at various pump stations
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
WASD Revenue Bonds Sold	1,279	0	0	0	0	0	0	0	1,279
Wastewater Renewal Fund	1,441	121	1,000	1,000	1,000	1,000	1,000	1,000	7,562
TOTAL REVENUES:	2,720	121	1,000	1,000	1,000	1,000	1,000	1,000	8,841
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	2,599	121	1,121	1,000	1,000	1,000	1,000	1,000	8,841
TOTAL EXPENDITURES:	2,599	121	1,121	1,000	1,000	1,000	1,000	1,000	8,841

WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS

PROJECT #: 964120

DESCRIPTION: Design, construct and rehabilitate infrastructure at wastewater treatment plants to comply with EPA Consent Decree
 LOCATION: Various Sites District Located: Countywide
 Throughout Miami-Dade County District(s) Served: Countywide



REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	99,162	184,101	177,782	180,704	155,823	97,449	57,067	952,088
WASD Revenue Bonds Sold	355,268	0	0	0	0	0	0	0	355,268
Wastewater Connection Charges	5,014	1,727	3,000	3,219	0	0	0	0	12,960
Wastewater Renewal Fund	37,064	0	0	0	0	0	0	0	37,064
TOTAL REVENUES:	397,346	100,889	187,101	181,001	180,704	155,823	97,449	57,067	1,357,380
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	324,236	154,069	179,617	173,761	173,475	149,590	93,552	54,784	1,303,084
Major Machinery and Equipment	3,377	1,605	1,871	1,810	1,808	1,558	974	571	13,574
Planning and Design	10,133	4,815	5,613	5,430	5,421	4,675	2,923	1,712	40,722
TOTAL EXPENDITURES:	337,746	160,489	187,101	181,001	180,704	155,823	97,449	57,067	1,357,380

WASTEWATER TREATMENT PLANTS - MISCELLANEOUS UPGRADES

PROJECT #: 9652061

DESCRIPTION: Upgrade wastewater treatment plants to meet regulatory requirements
 LOCATION: Wastewater Treatment Plants District Located: Systemwide
 Various Sites District(s) Served: Systemwide



REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,793	1,160	1,000	0	0	0	0	3,953
WASD Revenue Bonds Sold	688	0	0	0	0	0	0	0	688
TOTAL REVENUES:	688	1,793	1,160	1,000	0	0	0	0	4,641
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	647	1,685	1,090	940	0	0	0	0	4,362
Planning and Design	41	108	70	60	0	0	0	0	279
TOTAL EXPENDITURES:	688	1,793	1,160	1,000	0	0	0	0	4,641

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WASTEWATER TREATMENT PLANTS - REPLACEMENT AND RENOVATION

PROJECT #: 9653261



DESCRIPTION: Renovate and replace wastewater treatment plant facilities and structures within plant sites

LOCATION: Systemwide
Various Sites

District Located: Systemwide
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Wastewater Renewal Fund	39,496	8,600	9,000	9,000	9,000	9,000	9,000	9,000	102,096
Wastewater Special Construction Fund	2,999	0	0	0	0	0	0	0	2,999
TOTAL REVENUES:	42,495	8,600	9,000	9,000	9,000	9,000	9,000	9,000	105,095
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	36,774	11,767	8,550	8,550	8,550	8,550	8,550	8,550	99,841
Major Machinery and Equipment	387	124	90	90	90	90	90	90	1,051
Planning and Design	1,548	495	360	360	360	360	360	360	4,203
TOTAL EXPENDITURES:	38,709	12,386	9,000	9,000	9,000	9,000	9,000	9,000	105,095

WATER - DISTRIBUTION SYSTEM EXTENSION ENHANCEMENTS

PROJECT #: 9653311



DESCRIPTION: Install various water mains throughout the distribution system

LOCATION: Systemwide
Various Sites

District Located: Systemwide
District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Fire Hydrant Fund	306	0	0	0	0	0	0	0	306
Future WASD Revenue Bonds	0	16,713	12,470	12,535	10,797	5,500	4,500	0	62,515
WASD Revenue Bonds Sold	33,069	0	0	0	0	0	0	0	33,069
Water Renewal and Replacement Fund	34,416	3,874	1,500	1,500	1,500	1,500	1,500	1,500	47,290
Water Special Construction Fund	15,076	0	0	0	0	0	0	0	15,076
TOTAL REVENUES:	82,867	20,587	13,970	14,035	12,297	7,000	6,000	1,500	158,256
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	73,477	19,400	13,312	13,373	11,773	6,900	5,980	1,380	145,595
Land Acquisition/Improvements	799	211	145	145	128	75	65	15	1,583
Planning and Design	5,591	1,476	1,013	1,017	896	525	455	105	11,078
TOTAL EXPENDITURES:	79,867	21,087	14,470	14,535	12,797	7,500	6,500	1,500	158,256

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WATER - EQUIPMENT

PROJECT #: 9650141



DESCRIPTION: Acquire equipment and associated water system capital support materials
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,500	2,500	3,500	3,500	3,500	3,500	102,000	120,000
Water Renewal and Replacement Fund	27,451	8,799	8,000	8,000	8,000	8,000	8,000	8,000	84,250
TOTAL REVENUES:	27,451	10,299	10,500	11,500	11,500	11,500	11,500	110,000	204,250
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Furniture Fixtures and Equipment	491	1,500	2,500	3,500	3,500	3,500	3,500	102,000	120,491
Major Machinery and Equipment	26,960	8,799	8,000	8,000	8,000	8,000	8,000	8,000	83,759
TOTAL EXPENDITURES:	27,451	10,299	10,500	11,500	11,500	11,500	11,500	110,000	204,250

WATER - MAIN EXTENSIONS

PROJECT #: 9651051



DESCRIPTION: Construct water main extensions funded from the special construction fund, including special taxing districts
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Water Special Construction Fund	1,321	500	500	500	500	500	500	0	4,321
TOTAL REVENUES:	1,321	500	500	500	500	500	500	0	4,321
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	1,321	500	500	500	500	500	500	0	4,321
TOTAL EXPENDITURES:	1,321	500	500	500	500	500	500	0	4,321

WATER - PIPES AND INFRASTRUCTURE PROJECTS

PROJECT #: 967190



DESCRIPTION: Replace pipe and construct infrastructure repairs
 LOCATION: Countywide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	8,928	6,277	3,750	2,350	0	0	0	21,305
WASD Revenue Bonds Sold	2,267	0	0	0	0	0	0	0	2,267
Water Renewal and Replacement Fund	34,730	8,000	8,000	8,000	8,000	8,000	8,000	8,000	90,730
Water Special Construction Fund	8,000	0	0	0	0	0	0	0	8,000
TOTAL REVENUES:	44,997	16,928	14,277	11,750	10,350	8,000	8,000	8,000	122,302
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	28,392	13,267	11,305	9,435	8,399	6,660	7,124	5,920	90,502
Major Machinery and Equipment	8,442	3,944	3,361	2,805	2,497	1,980	2,119	1,760	26,908
Planning and Design	1,535	717	611	510	454	360	385	320	4,892
TOTAL EXPENDITURES:	38,369	17,928	15,277	12,750	11,350	9,000	9,628	8,000	122,302

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WATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES

PROJECT #: 9650271



DESCRIPTION: Construct regional general maintenance centers, office facilities, and storage warehouses
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	0	0	0	0	0	48,020	48,020
WASD Revenue Bonds Sold	394	0	0	0	0	0	0	0	394
TOTAL REVENUES:	394	0	0	0	0	0	0	48,020	48,414
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	370	0	0	0	0	0	0	45,139	45,509
Land Acquisition/Improvements	4	0	0	0	0	0	0	480	484
Major Machinery and Equipment	16	0	0	0	0	0	0	1,921	1,937
Planning and Design	4	0	0	0	0	0	0	480	484
TOTAL EXPENDITURES:	394	0	0	0	0	0	0	48,020	48,414

WATER - SYSTEM MAINTENANCE AND UPGRADES

PROJECT #: 9650181



DESCRIPTION: Maintain and develop existing water system facilities, structures, and equipment
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Water Renewal and Replacement Fund	36,920	16,485	14,304	15,000	15,000	15,000	15,000	15,000	142,709
TOTAL REVENUES:	36,920	16,485	14,304	15,000	15,000	15,000	15,000	15,000	142,709
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	33,143	17,458	14,400	14,400	14,400	14,400	14,400	14,400	137,001
Planning and Design	1,381	727	600	600	600	600	600	600	5,708
TOTAL EXPENDITURES:	34,524	18,185	15,000	15,000	15,000	15,000	15,000	15,000	142,709

WATER - TELEMETERING SYSTEM ENHANCEMENTS

PROJECT #: 9656780



DESCRIPTION: Acquire and install a centralized computer system at water treatment plants and wellfields
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Water Renewal and Replacement Fund	2,075	141	1,196	1,000	1,000	1,000	1,000	1,000	8,412
TOTAL REVENUES:	2,075	141	1,196	1,000	1,000	1,000	1,000	1,000	8,412
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	891	65	615	460	460	460	460	460	3,871
Major Machinery and Equipment	1,043	76	722	540	540	540	540	540	4,541
TOTAL EXPENDITURES:	1,934	141	1,337	1,000	1,000	1,000	1,000	1,000	8,412

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WATER SYSTEM - FIRE HYDRANT INSTALLATION

PROJECT #: 9653461



DESCRIPTION: Install fire hydrants and construct related system improvements
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Fire Hydrant Fund	9,201	2,500	2,500	2,500	2,500	2,500	2,500	2,500	26,701
TOTAL REVENUES:	9,201	2,500	2,500	2,500	2,500	2,500	2,500	2,500	26,701
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	5,146	2,450	2,450	2,450	2,450	2,450	2,450	6,321	26,167
Planning and Design	105	50	50	50	50	50	50	129	534
TOTAL EXPENDITURES:	5,251	2,500	2,500	2,500	2,500	2,500	2,500	6,450	26,701

WATER TREATMENT PLANT - ALEXANDER ORR, JR. EXPANSION

PROJECT #: 9650031



DESCRIPTION: Construct high service pumps, a 48-inch finished water line, install a new generator, and construct chlorine facilities
 LOCATION: 6800 SW 87 Ave District Located: 7
 Unincorporated Miami-Dade County District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	15,462	13,864	12,001	14,826	24,903	22,938	0	103,994
WASD Revenue Bonds Sold	16,669	0	0	0	0	0	0	0	16,669
Water Renewal and Replacement Fund	7,900	0	0	0	0	0	0	0	7,900
TOTAL REVENUES:	24,569	15,462	13,864	12,001	14,826	24,903	22,938	0	128,563
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	22,358	14,070	12,616	10,921	13,492	22,662	20,874	0	116,993
Major Machinery and Equipment	246	155	139	120	148	249	229	0	1,286
Planning and Design	1,965	1,237	1,109	960	1,186	1,992	1,835	0	10,284
TOTAL EXPENDITURES:	24,569	15,462	13,864	12,001	14,826	24,903	22,938	0	128,563

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WATER TREATMENT PLANT - FLORIDIAN REVERSE OSMOSIS

PROJECT #: 966620

DESCRIPTION: Construct a 10-million gallons per day (MGD) Reverse Osmosis Treatment Plant using Upper Floridian Aquifer; the jointly-owned plant will equally serve the City of Hialeah and WASD service areas; total cost of \$160 million, includes contribution and expenditures of \$80 million from City of Hialeah

LOCATION: 700 W 2 Ave Hialeah	District Located: 6 District(s) Served: Systemwide
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REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	1,200	1,000	800	0	0	0	0	3,000
WASD Revenue Bonds Sold	1,000	0	0	0	0	0	0	0	1,000
Water Connection Charges	5,000	0	0	0	0	0	0	0	5,000
Water Renewal and Replacement	1,867	0	0	0	0	0	0	0	1,867
Fund									
TOTAL REVENUES:	7,867	1,200	1,000	800	0	0	0	0	10,867
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	7,631	1,164	970	776	0	0	0	0	10,541
Planning and Design	236	36	30	24	0	0	0	0	326
TOTAL EXPENDITURES:	7,867	1,200	1,000	800	0	0	0	0	10,867

WATER TREATMENT PLANT - HIALEAH/PRESTON IMPROVEMENTS

PROJECT #: 9650041

DESCRIPTION: Construct pump station east of the reservoir outside the transmission loop; construct five-mega-gal elevated remote storage, new laboratory, filter backwash water tank; install two emergency generators; construct chlorine facilities; and various upgrades to plant and remote storage

LOCATION: 700 W 2 Ave and 1100 W 2 Ave Hialeah	District Located: 6 District(s) Served: Systemwide
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REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	21,358	9,019	1,914	1,011	0	0	0	33,302
WASD Revenue Bonds Sold	13,190	0	0	0	0	0	0	0	13,190
TOTAL REVENUES:	13,190	21,358	9,019	1,914	1,011	0	0	0	46,492
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	10,420	16,873	7,125	1,512	799	0	0	0	36,729
Land Acquisition/Improvements	1,846	2,990	1,263	268	141	0	0	0	6,508
Planning and Design	924	1,495	631	134	71	0	0	0	3,255
TOTAL EXPENDITURES:	13,190	21,358	9,019	1,914	1,011	0	0	0	46,492

Estimated Annual Operating Impact will begin in FY 2019-20 in the amount of \$15,000,000 and includes 0 FTE(s)

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WATER TREATMENT PLANTS - AUTOMATION

PROJECT #: 963110



DESCRIPTION: Construct facilities and install equipment to automate functions at water treatment plants
 LOCATION: Systemwide District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
WASD Revenue Bonds Sold	2,247	0	0	0	0	0	0	0	2,247
TOTAL REVENUES:	2,247	0	0	0	0	0	0	0	2,247
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	1,747	500	0	0	0	0	0	0	2,247
TOTAL EXPENDITURES:	1,747	500	0	0	0	0	0	0	2,247

WATER TREATMENT PLANTS - REPLACEMENT AND RENOVATIONS

PROJECT #: 9650161



DESCRIPTION: Renovate and replace water treatment plant facilities and structures within plant sites
 LOCATION: Water Treatment Plants District Located: Systemwide
 Various Sites District(s) Served: Systemwide

REVENUE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Future WASD Revenue Bonds	0	0	0	229	1,000	1,000	545	0	2,774
WASD Revenue Bonds Sold	3,745	0	0	0	0	0	0	0	3,745
Water Renewal and Replacement Fund	27,091	10,000	1,500	1,500	1,500	1,500	1,500	1,500	46,091
TOTAL REVENUES:	30,836	10,000	1,500	1,729	2,500	2,500	2,045	1,500	52,610
EXPENDITURE SCHEDULE:	PRIOR	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FUTURE	TOTAL
Construction	21,530	16,855	1,410	1,625	2,350	2,350	1,922	1,410	49,452
Major Machinery and Equipment	458	359	30	35	50	50	41	30	1,053
Planning and Design	917	717	60	69	100	100	82	60	2,105
TOTAL EXPENDITURES:	22,905	17,931	1,500	1,729	2,500	2,500	2,045	1,500	52,610

UNFUNDED CAPITAL PROJECTS

PROJECT NAME	LOCATION	(dollars in thousands) ESTIMATED PROJECT COST
CENTRAL DISTRICT WASTEWATER TREATMENT PLANT - IMPROVEMENTS	Throughout Miami Dade County	699
NEW WATER TREATMENT PLANTS - SOUTH MIAMI AND SURFACE	Throughout Miami Dade County	690,818
OCEAN OUTFALLS - CAPACITY PROJECTS	Throughout Miami Dade County	1,730,281
OCEAN OUTFALLS - LEGISLATION PROJECTS	Throughout Miami Dade County	3,469,517
SOUTH DISTRICT WASTEWATER TREATMENT PLANT - IMPROVEMENTS	Throughout Miami Dade County	6,075
UNDERSIZED WATER MAINS - REPLACEMENTS	Throughout Miami Dade County	15,963
WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	Throughout Miami Dade County	143,601
WATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	Throughout Miami Dade County	480,016
WATER INFRASTRUCTURE - VARIOUS IMPROVEMENTS	Throughout Miami Dade County	5,700
WATER TREATMENT PLANT - ALEX ORR	Throughout Miami Dade County	33,863
WATER TREATMENT PLANT - PRESTON	Throughout Miami Dade County	57,331
WATER TREATMENT PLANT - HIALEAH	Throughout Miami Dade County	21,620
UNFUNDED TOTAL		6,655,484