

FY 2017 - 18 Adopted Budget and Multi-Year Capital Plan

Solid Waste Management

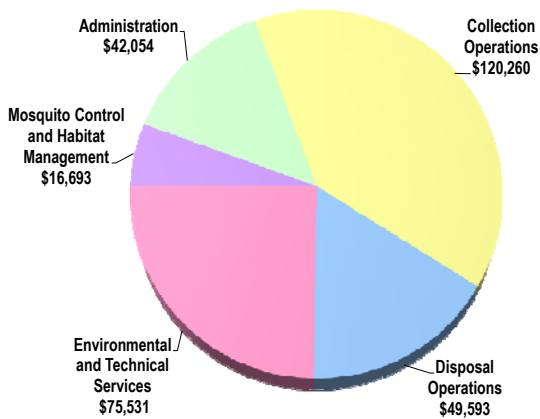
The Department of Solid Waste Management (DSWM) collects garbage and trash in the Waste Collection Service Area (WCSA), performs a series of waste disposal tasks countywide, and provides mosquito control services and enforces County ordinances as appropriate countywide.

As part of the Neighborhood and Infrastructure strategic area, DSWM provides a variety of services for residents, including garbage and trash collection and curbside collection of recyclable materials. In addition, DSWM operates 13 Trash and Recycling (T&R) Centers in the WCSA and provides waste transfer and disposal services countywide to municipalities and private haulers. DSWM is also responsible for the operation and management of three regional transfer stations and associated fleet, two operating landfills, and the Resources Recovery facility (one of the largest waste-to-energy facilities in the world) and a co-located ashfill. Other services provided include residential and commercial code enforcement, litter clean-up, transit bus stop litter collection, maintenance of two County-owned closed landfills, illegal dumping enforcement and removal, and storm debris removal. Additionally, DSWM has countywide responsibility for the regulation of private waste collection, transportation of waste and recycling activities. DSWM also provides a full range of mosquito control activities including education and outreach, abatement (larviciding and adulticiding programs), mosquito population surveillance, and enforcement of industry standard protocols throughout Miami-Dade County.

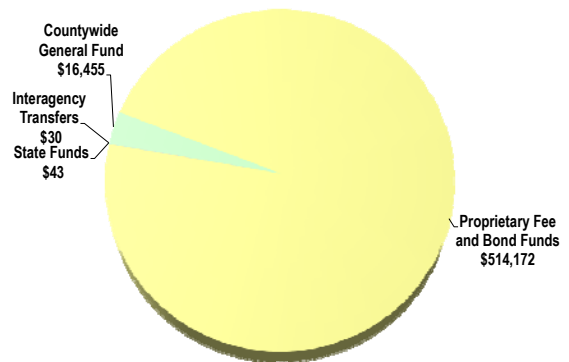
In fulfilling its purpose, DSWM provides disposal services to municipalities and private haulers and manages an agreement for the operation of the Resources Recovery facility. Landscape businesses also obtain permits from DSWM for use of the T&R Centers, landfills and the waste-to-energy facility. The Department coordinates with federal and state regulators, other County departments, and municipalities for the implementation of disposal site mitigation. DSWM also works with community stakeholders, such as homeowners' associations, to maximize customer satisfaction, as well as the Department of Health on mosquito control issues, which impact public health and welfare.

FY 2017-18 Adopted Budget

Expenditures by Activity
(dollars in thousands)

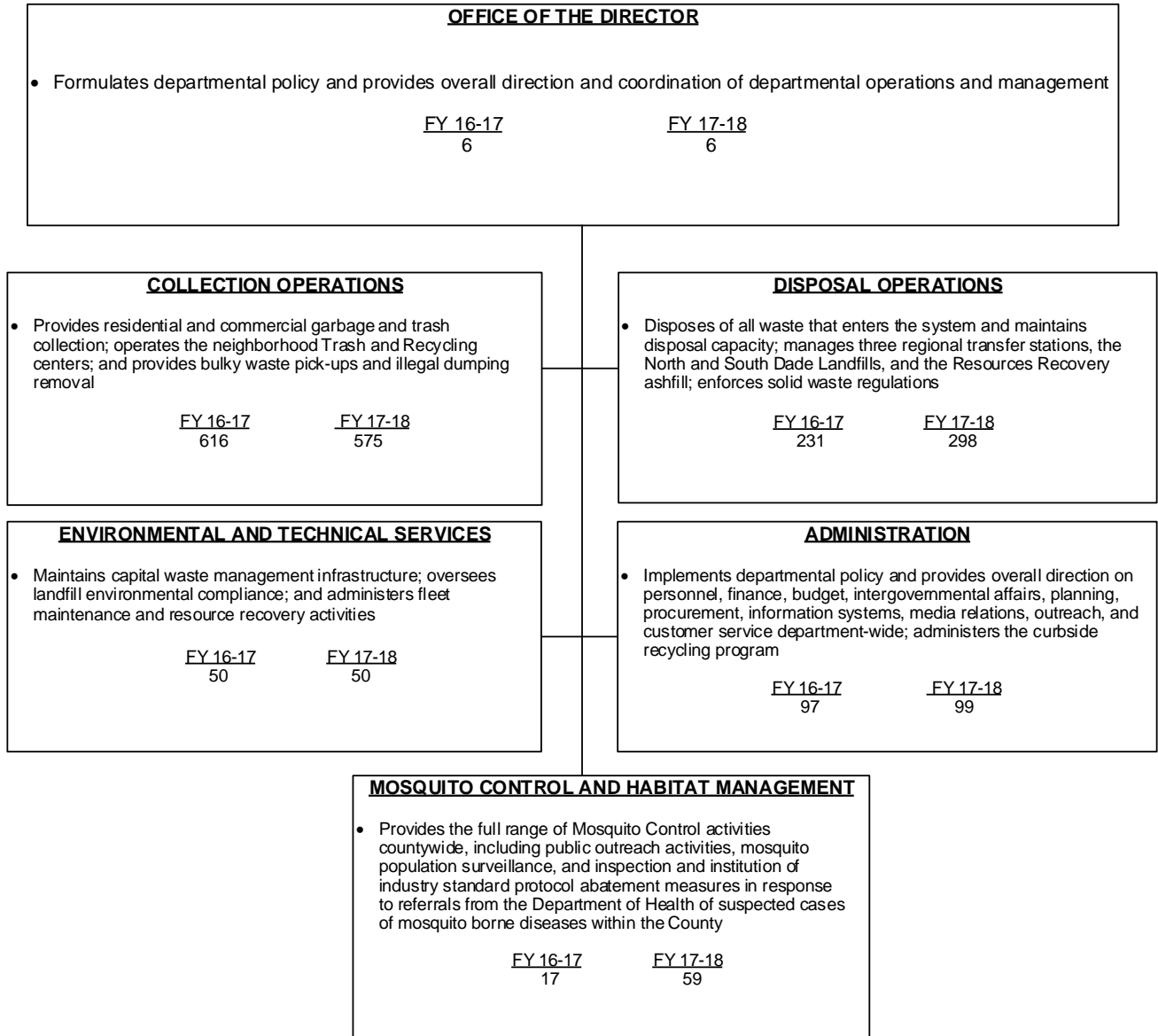


Revenues by Source
(dollars in thousands)



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TABLE OF ORGANIZATION



The FY 2017-18 total number of full-time equivalent positions is 1,100.25

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FINANCIAL SUMMARY

| (dollars in thousands) | Actual FY 14-15 | Actual FY 15-16 | Budget FY 16-17 | Adopted FY 17-18 |
|--------------------------------------|--------------------|--------------------|--------------------|---------------------|
| Revenue Summary | | | | |
| General Fund Countywide | 0 | 1,408 | 1,844 | 16,455 |
| Carryover | 0 | 179,479 | 190,500 | 210,405 |
| Collection Fees and Charges | 0 | 147,060 | 139,850 | 155,474 |
| Disposal Fees and Charges | 0 | 130,959 | 122,050 | 113,885 |
| Fees and Charges | 0 | 0 | 4,252 | 0 |
| Interest Earnings | 0 | 766 | 390 | 436 |
| Interest/ Rate Stabilization Reserve | 0 | 0 | 54 | 0 |
| Intradepartmental Transfers | 0 | 165 | 165 | 165 |
| Recyclable Material Sales | 0 | 1,611 | 1,763 | 1,466 |
| Resource Recovery Energy Sales | 0 | 7,311 | 6,498 | 9,014 |
| Transfer Fees | 0 | 7,650 | 7,869 | 7,895 |
| Utility Service Fee | 0 | 30,784 | 26,600 | 15,432 |
| Carryover | 0 | 51 | 0 | 0 |
| Mosquito State Grant | 0 | 0 | 43 | 43 |
| State Grants | 0 | 6,877 | 0 | 0 |
| Interagency Transfers | 0 | 57 | 30 | 30 |
| Total Revenues | 0 | 514,178 | 501,908 | 530,700 |

Operating Expenditures Summary

| | | | | |
|-------------------------------------|----------|----------------|----------------|----------------|
| Salary | 0 | 57,981 | 57,927 | 59,970 |
| Fringe Benefits | 0 | 20,847 | 23,053 | 25,844 |
| Court Costs | 0 | 7 | 12 | 10 |
| Contractual Services | 0 | 144,407 | 148,633 | 149,208 |
| Other Operating | 0 | 12,692 | 14,393 | 19,208 |
| Charges for County Services | 0 | 44,557 | 47,816 | 49,579 |
| Grants to Outside Organizations | 0 | 25 | 21 | 121 |
| Capital | 0 | 6,582 | 5,989 | 3,651 |
| Total Operating Expenditures | 0 | 287,098 | 297,844 | 307,591 |

Non-Operating Expenditures Summary

| | | | | |
|---|----------|---------------|----------------|----------------|
| Transfers | 0 | 1,710 | 13,516 | 32,492 |
| Distribution of Funds In Trust | 0 | 1,402 | 1,401 | 1,462 |
| Debt Service | 0 | 17,136 | 16,230 | 15,536 |
| Depreciation, Amortizations and Depletion | 0 | 0 | 0 | 0 |
| Reserve | 0 | 0 | 172,917 | 173,619 |
| Total Non-Operating Expenditures | 0 | 20,248 | 204,064 | 223,109 |

SELECTED ITEM HIGHLIGHTS AND DETAILS

| Line Item Highlights | (dollars in thousands) | | | | |
|-------------------------|------------------------|--------------------|--------------------|--------------------|--------------------|
| | Actual FY 14-15 | Actual FY 15-16 | Budget FY 16-17 | Actual FY 16-17 | Budget FY 17-18 |
| Advertising | 435 | 1,120 | 725 | 1,305 | 1,625 |
| Fuel | 7,775 | 5,778 | 6,576 | 6,502 | 6,777 |
| Overtime | 6,080 | 6,906 | 3,039 | 7,723 | 3,046 |
| Rent | 1,068 | 1,338 | 1,943 | 1,564 | 1,932 |
| Security Services | 2,022 | 2,066 | 2,050 | 2,086 | 2,163 |
| Temporary Services | 1,640 | 1,693 | 737 | 1,390 | 457 |
| Travel and Registration | 36 | 65 | 106 | 54 | 118 |
| Utilities | 70,106 | 71,539 | 72,523 | 76,616 | 69,643 |

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ADOPTED FEE ADJUSTMENTS FOR SERVICES

| Fee Adjustments | Current Fee FY 16-17 | Adopted Fee FY 17-18 | Dollar Impact FY 17-18 |
|---|-------------------------|-------------------------|---------------------------|
| • Waste Collection Fees | \$439 | \$464 | \$8,062,000 |
| • Disposal Contract Tipping Fee Rate Fee per Ton | \$66.79 | \$61.01 | \$-9,119,000 |
| • Transfer Fee Rate Per Ton | \$13.13 | \$13.33 | \$118,000 |
| • Clean Yard Trash Disposal by Permitted Landscapers per cubic yard (at North Dade Landfill, South Dade Landfill and Resource Recovery) | \$8.03 | \$8.15 | \$0 |
| • Safety Vest Fee | 0 | \$3.00 | \$39,900 |

DIVISION: ADMINISTRATION

Formulates departmental policy and provides overall direction and coordination of departmental operations and management; implements departmental policy and provides overall direction on personnel, finance, budget, intergovernmental affairs, planning, procurement, information systems, media relations, outreach, and customer service department-wide; administers the curbside recycling program.

DIVISION COMMENTS

- In FY 2017-18, the Department will continue to receive payments from other County departments to include parking revenues from the Hickman Garage (\$793,000), rent from Juvenile Services (\$605,000) and Parks, Recreation and Open Spaces (\$921,000) for use of the Hickman Building, coupled with the last annual payment for land acquisition of the West-Dade Soccer Park over the last ten years (\$169,000); the FY 2017-18 Adopted Budget also includes payments to the Communications Department (\$752,000) to provide website maintenance and updates, to the Office of the Inspector General (\$50,000) for expenses associated with audits and reviews and to Audit and Management Services (\$125,000) for audit services
- The FY 2017-18 Adopted Budget includes funding for residential curbside recycling (\$9.043 million), providing more than 350,000 households with service every other week
- The FY 2017-18 Adopted Budget includes a reimbursement to the Human Resources Department for 50 percent of a Personnel Specialist 2 position (\$39,000) to assist with expediting a high volume of compensation position reviews
- The FY 2017-18 Adopted Budget includes two approved DSWM Manager overage positions approved in FY 2016-17 in the Budget and Fiscal Management and Procurement and Contracts sections to provide critical back office support

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DIVISION: COLLECTION OPERATIONS

The Collection Operations Division provides residential and commercial garbage and trash collection, operates neighborhood Trash and Recycling Centers, and provides bulky waste pick-ups and illegal dumping removal.

Strategic Objectives - Measures

- NI4-2: Promote livable and beautiful neighborhoods

| Objectives | Measures | | | FY 14-15 | FY 15-16 | FY 16-17 | FY 16-17 | FY 17-18 |
|---|---|----|---|----------|----------|----------|----------|----------|
| | | | | Actual | Actual | Budget | Actual | Target |
| Improve programs that promote neighborhood and rights-of-way aesthetics | Average illegal dumping pick-up response time (in calendar days) | EF | ↓ | 4 | 4 | 4 | 4 | 3 |
| Improve collection of residential curbside garbage and trash | Trash and Recycling Center: tons collected (in thousands) | IN | ↔ | 125 | 128 | 135 | 125 | 136 |
| | Bulky waste complaints per 1,000 regular bulky waste orders created | OC | ↓ | 7 | 7 | 6 | 8 | 8 |
| | Average bulky waste response time (in calendar days) | EF | ↑ | 7 | 7 | 8 | 8 | 7 |
| | Bulky waste trash tons collected (in thousands) | IN | ↔ | 111 | 120 | 114 | 131 | 128 |

DIVISION COMMENTS

- The FY 2017-18 Adopted Budget includes a per household residential curbside collection fee increase of \$25 from \$439 to \$464; this increase will allow the Department to maintain current service levels and provide additional resources to assist with illegal dumping through improved response time and frequency
- The FY 2017-18 Adopted Budget includes the addition of 13 positions (One Waste Supervisor 1, Four Trash Crane Operators, Four Trash Truck Driver 1s, and Four Waste Attendant 1s) to provide enhanced response time for illegally dumped trash collection and will alleviate the need to divert bulky waste crews to pick up illegal dumping (\$1.5 million)
- In FY 2017-18, the Department will continue to provide trash collection services (\$41.462 million), which includes the UMSA litter program along corridors and at hotspots (\$1.241 million)
- In FY 2017-18, the Department will continue to provide curbside garbage collection services (\$76.044 million) to include commercial garbage collection by contract (\$2.611 million) and waste collection pick-ups at specific non-shelter bus stops (\$627,000)
- In FY 2017-18, the Department will continue to pay the Greater Miami Service Corps (\$202,000) for litter pickup, cart repairs, and other special projects; the FY 2017-18 Adopted Budget also includes a payment to the Corrections and Rehabilitation Department (\$330,000) for supervision of litter pick-up crews
- The FY 2017-18 Adopted Budget continues to fund three Disposal Technicians within the Animal Services Department (\$186,000)
- The FY 2017-18 Adopted Budget includes the transfer of the transportation and disposal Trash and Recycling Center (TRC) Roll Off operations to Disposal Operations (\$6.344 million), including 49 Trash Truck Drivers 1s and six Trash Truck Driver 2s
- During FY 2016-17, an overage position (Waste Enforcement Officer 1) was approved to oversee the last remaining vacant enforcement zone
- In FY 2016-17, as a result of Hurricane Irma, the Department incurred pre-storm hurricane protective measures and shortly after the storm began its hurricane recovery efforts with debris removal throughout the Waste Collection Service Area (WCSA) and along County rights-of-way (\$140,000,000); currently, the Department is pursuing FEMA reimbursements to offset the costs; it is estimated that the final reimbursement will be approximately 90 percent of the total costs

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DIVISION: DISPOSAL OPERATIONS

The Disposal Operations Division is responsible for disposal of all waste that enters the system and maintaining disposal capacity; managing three regional transfer stations, the North and South Dade Landfills, and the Resources Recovery ashfill; and permitting and enforcing solid waste regulations.

Strategic Objectives - Measures

- NI2-3: Provide adequate solid waste disposal capacity that meets adopted level-of-service standard

| Objectives | Measures | | | FY 14-15 | FY 15-16 | FY 16-17 | FY 16-17 | FY 17-18 |
|--|--|----|---|----------|----------|----------|----------|----------|
| | | | | Actual | Actual | Budget | Actual | Target |
| Ensure ongoing availability and capacity that meets demand at transfer and disposal facilities | Disposal tons accepted at full fee (in thousands)* | IN | ↔ | 1,680 | 1,659 | 1,610 | 1,686 | 1,810 |
| | Years of remaining disposal capacity (Level of Service) | IN | ↔ | 16 | 16 | 16 | 15 | 14 |
| | Total (Revenue) Tons Transferred in (in thousands)* | IN | ↔ | 612 | 587 | 612 | 618 | 663 |
| | Enforcement related complaints responded to within two business days | EF | ↑ | 94% | 96% | 95% | 90% | 95% |
| | Number of Residential Enforcement actions undertaken (in thousands) | OP | ↔ | 52 | 53 | 55 | 51 | 57 |

*FY 2016-17 Actual and FY 2017-18 Target increase due to Hurricane Irma recovery efforts

DIVISION COMMENTS

- The FY 2017-18 Adopted Budget includes a net reduction of approximately 8.654 percent (a 10 percent decrease partially offset by the Consumer Price Index (CPI) South All Urban Consumers increase of 1.5 percent) to the Disposal Contract Rate from \$66.79 to \$61.01 for all customers to encourage increased throughput at the Disposal facilities and to align long term Disposal revenues with Disposal expenses
- The FY 2017-18 Adopted Budget includes the addition of two positions (one Waste Operations Clerk position needed to perform administrative duties on the night shift of the Transfer Division and one Waste Service Clerk 1 position for the Permitting Section in the Enforcement Division replacing the use of temporary employees)
- The FY 2017-18 Adopted Budget includes the addition of 10 positions, including six Landscape Attendants to maintain the grounds at all active and closed landfills, and four Waste Attendant 1s to provide traffic control and 'spotting' for incoming traffic on the landfill; these positions will replace the use of temporary employees
- The FY 2017-18 Adopted Budget includes the transfer of the transportation and disposal Trash and Recycling Center (TRC) Roll Off operations from Collection Operations (\$6.344 million), including 49 Trash Truck Drivers 1s and six Trash Truck Driver 2s
- In FY 2017-18, the Department will continue to fund the daily performance and management of the Community Service Program (\$196,000), the use of local, state and federal corrections agencies to perform debris collection from the right-of-way, in the Department of Transportation and Public Works

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DIVISION: ENVIRONMENTAL AND TECHNICAL SERVICES

The Environmental and Technical Services Division is responsible for maintaining capital waste management infrastructure and overseeing facilities maintenance, environmental compliance, fleet management and the Resources Recovery contract.

Strategic Objectives - Measures

- NI3-6: Preserve and enhance natural areas

| Objectives | Measures | | | FY 14-15 | FY 15-16 | FY 16-17 | FY 16-17 | FY 17-18 |
|--|---|----|---|----------|----------|----------|----------|----------|
| | | | | Actual | Actual | Budget | Actual | Target |
| Ensure compliance with Florida Department of Environmental Protection (FDEP) | Percentage of FDEP reporting deadlines met | EF | ↑ | 100% | 100% | 100% | 100% | 100% |
| | Compliance inspections performed | OP | ↔ | 541 | 490 | 504 | 508 | 505 |
| | Patrons served by Home Chemical Collection program | OC | ↑ | 5,097 | 5,429 | 5,600 | 6,223 | 5,970 |
| Present at least 24 public household waste outreach events each year | Average quantity of household chemical waste collected per patron (in pounds) | OC | ↑ | 99 | 110 | 95 | 133 | 110 |

DIVISION COMMENTS

- The FY 2017-18 Adopted Budget includes a two percent reduction of the Utility Service Fee (USF) currently applied to all retail Water and Sewer customers' bills to fund landfill remediation and other USF eligible projects (\$15.432 million), the total USF was previously eight percent, with four percent going to the Regulatory and Environmental Resources Department for ground water protection activities and four percent going to DSWM for landfill remediation; increased collections due to escalation of Water and Sewer rates has generated revenues in excess of that needed for debt service payments and other landfill remediation activities in DSWM
- ☛ In FY 2017-18, the Department will continue environmental and technical service operations that include facilities maintenance (\$3.44 million), fleet management (\$1.23 million), and environmental services (\$3.745 million)
- ☛ In FY 2017-18, the Department will continue the operation of two Home Chemical Collection Centers (\$800,000)
- The FY 2017-18 Adopted Budget includes the financing of 122 vehicles for Waste Collection Operations (\$2.614 million annual debt service payment) and of 93 vehicles for Waste Disposal Operations (\$1.127 million annual debt service payment)
- ☛ In FY 2017-18, DSWM will continue to pursue options to replace the expired power purchase agreement associated with the Waste-to-Energy Plant to obtain long-term energy rates; in June 2017, DSWM entered into an Electric Power Purchase Agreement with the City of Homestead through December 31, 2029 (\$4.52 million); the FY 2017-18 Adopted Budget also includes the continuation of the contract with Covanta Dade Renewable Energy, Ltd. to operate and maintain the County's Resources Recovery facility (\$65.376 million), including other supplemental contracts to support the Resources Recovery operation (\$460,000)
- In FY 2017-18, the Department will provide funding for Environment Protection and Education grant programs administered by the Office of Management and Budget's Grants Coordination Division (\$100,000)

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DIVISION: MOSQUITO CONTROL AND HABITAT MANAGEMENT

The Mosquito Control and Habitat Management Division performs a full range of Mosquito Control activities Countywide including public outreach, mosquito population surveillance, and inspection and institution of industry standard protocol abatement measures in response to referrals from the Department of Health of suspected cases of mosquito borne diseases within the County.

Strategic Objectives - Measures

- NI2-2: Provide functional and well maintained drainage to minimize flooding

| Objectives | Measures | | | FY 14-15 | FY 15-16 | FY 16-17 | FY 16-17 | FY 17-18 |
|--------------------------------------|--|----|---|----------|----------|----------|----------|----------|
| | | | | Actual | Actual | Budget | Actual | Target |
| Maintain drain cleaning requirements | Percentage of service requests responded to within two business days | EF | ↑ | N/A | 87% | 95% | 95% | 95% |

DIVISION COMMENTS

- The FY 2017-18 Adopted Budget includes allocated resources for a large surveillance program to monitor the mosquito population through an array of traps located throughout Miami Dade County (\$875,000)
- In FY 2017-18, DSWM will continue a proactive larviciding-based program in areas previously impacted by the Zika virus and other areas where residents and visitors are known to congregate (\$11.971 million)
- The FY 2017-18 Adopted Budget includes 42 overage positions approved in FY 2016-17: one Division Director who will provide overall leadership and formulate and implement effective mosquito control policies; two Mosquito Control Supervisors, 14 Mosquito Control Inspectors, one Senior Inspector, one Scheduler/Router and two Inspection Clerks responsible for property inspection enforcement action, truck larviciding and the adulticide aspects of the program; one Mosquito Control Operations Manager, two Light Equipment Technicians, one Biologist 2, four Lab Technicians and six Environmental Technician 2s responsible for developing DSWM's response protocol for mosquito control, documentation and evaluation of trap data as well as deploying and servicing all traps; and one GIS Special Projects Administrator 1, one Accountant 3, one Administrative Secretary, two Education Outreach Information Officers and two Safety Officers responsible for the day-to-day administrative duties of the division
- The FY 2017-18 Adopted Budget includes a robust public information campaign to inform residents of Miami-Dade County on effective measures that prevent mosquito breeding on their properties and in their communities (\$1.227 million)
- The FY 2017-18 Adopted Budget includes a reimbursement for mosquito spraying from the Seaport, Homestead Air Reserve Base, and the Water and Sewer Department (\$30,000); as well as a reimbursement from the Department of Transportation and Public Works (DTPW) for treating drains in the Road and Bridge Division (\$165,000)
- The FY2017-18 Adopted Budget funds 13 mosquito spraying crews, five days a week, from December through April and 20 mosquito spraying crews, seven days a week, from May through November

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CAPITAL BUDGET SUMMARY

| (dollars in thousands) | PRIOR | FY 17-18 | FY 18-19 | FY 19-20 | FY 20-21 | FY 21-22 | FY 22-23 | FUTURE | TOTAL |
|---|----------------|---------------|---------------|---------------|---------------|--------------|--------------|---------------|----------------|
| Revenue | | | | | | | | | |
| BBC GOB Financing | 3,619 | 2,649 | 0 | 0 | 0 | 0 | 0 | 0 | 6,268 |
| BBC GOB Series 2005A | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| BBC GOB Series 2008B | 780 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 780 |
| BBC GOB Series 2008B-1 | 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 |
| BBC GOB Series 2011A | 917 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 917 |
| BBC GOB Series 2013A | 1,791 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,791 |
| BBC GOB Series 2014A | 1,320 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,320 |
| Donations | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 |
| Future Solid Waste Disp. Notes/Bonds | 0 | 0 | 8,075 | 12,080 | 9,870 | 5,550 | 0 | 46,000 | 81,575 |
| Interest Earnings | 4,673 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,673 |
| Solid Waste System Rev. Bonds Series 2001 | 2,655 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,655 |
| Solid Waste System Rev. Bonds Series 2005 | 21,431 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21,431 |
| Solid Waste System Rev. Bonds Series 2015 | 39,361 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39,361 |
| Utility Service Fee | 350 | 5,680 | 401 | 0 | 0 | 0 | 0 | 0 | 6,431 |
| Waste Collection Operating Fund | 3,080 | 2,638 | 530 | 500 | 500 | 500 | 500 | 2,382 | 10,630 |
| Waste Disposal Operating Fund | 29,903 | 26,874 | 22,245 | 23,598 | 860 | 555 | 525 | 819 | 105,379 |
| Total: | 111,054 | 37,841 | 31,251 | 36,178 | 11,230 | 6,605 | 1,025 | 49,201 | 284,385 |
| Expenditures | | | | | | | | | |
| Strategic Area: NI | | | | | | | | | |
| Waste Collection | 1,610 | 2,038 | 500 | 500 | 500 | 500 | 500 | 2,382 | 8,530 |
| Waste Collection and Disposal | 2,450 | 1,000 | 50 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| Waste Disposal | 21,019 | 23,113 | 21,180 | 22,553 | 200 | 100 | 90 | 90 | 88,345 |
| Waste Disposal Environmental Projects | 50,714 | 24,646 | 24,496 | 15,175 | 12,580 | 8,035 | 1,485 | 46,879 | 184,010 |
| Total: | 75,793 | 50,797 | 46,226 | 38,228 | 13,280 | 8,635 | 2,075 | 49,351 | 284,385 |

CAPITAL HIGHLIGHTS AND OPERATIONAL IMPACTS

- Included in the Department's FY 2017-18 Adopted Budget and Multi-Year Capital Plan is the continued construction of Cell 5 at the South Dade Landfill; this project will have a neutral operational impact to the Department because once Cell 4 has reached maximum capacity for disposal, the operations will shift to Cell 5 (total project cost \$23 million; \$12.973 million in FY 2017-18)
- The Department's FY 2017-18 Adopted Budget and Multi-Year Capital Plan includes \$49.348 million for the replacement of its aging fleet funded with lease purchase financing (\$48.540 million for heavy fleet and \$808,000 for light fleet); 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 which result from open routes caused by equipment failure
- The FY 2017-18 Adopted Multi-Year Capital Plan includes USF-supported bond proceeds for the Munisport Landfill Closure (total project cost \$35.7 million; \$2.028 million in FY 2017-18) and Virginia Key Closure (total project cost \$46.360 million; \$10.828 million in FY 2017-18); these projects have no fiscal impact to the Department as these capital costs are related to remediating the landfill sites

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FUNDED CAPITAL PROJECTS

(dollars in thousands)

58 STREET HOME CHEMICAL COLLECTION CENTER

PROJECT #: 507960

DESCRIPTION: Renovate the 58 Street maintenance shop for use as the new Home Chemical Collection (HC2) Center; construct drainage improvements to address on-going flooding; improve vehicle flow to include resurfacing and striping
 LOCATION: 8701 NW 58 St District Located: 12
 Unincorporated Miami-Dade County District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|------------|------------|--------------|------------|----------|----------|----------|----------|--------------|
| Waste Disposal Operating Fund | 517 | 200 | 2,000 | 283 | 0 | 0 | 0 | 0 | 3,000 |
| TOTAL REVENUES: | 517 | 200 | 2,000 | 283 | 0 | 0 | 0 | 0 | 3,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 165 | 0 | 1,787 | 273 | 0 | 0 | 0 | 0 | 2,225 |
| Planning and Design | 332 | 200 | 118 | 0 | 0 | 0 | 0 | 0 | 650 |
| Project Contingency | 20 | 0 | 95 | 10 | 0 | 0 | 0 | 0 | 125 |
| TOTAL EXPENDITURES: | 517 | 200 | 2,000 | 283 | 0 | 0 | 0 | 0 | 3,000 |

CENTRAL TRANSFER STATION - COMPACTOR REPLACEMENT

PROJECT #: 5058000

DESCRIPTION: Replace two compactors and push pits at the Central Transfer Station
 LOCATION: 1150 NW 20 St District Located: 3
 City of Miami District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---|--------------|--------------|------------|----------|----------|----------|----------|----------|--------------|
| Solid Waste System Rev. Bonds Series 2001 | 1,395 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,395 |
| Waste Disposal Operating Fund | 3,121 | 1,084 | 100 | 0 | 0 | 0 | 0 | 0 | 4,305 |
| TOTAL REVENUES: | 4,516 | 1,084 | 100 | 0 | 0 | 0 | 0 | 0 | 5,700 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 1,323 | 228 | 85 | 0 | 0 | 0 | 0 | 0 | 1,636 |
| Furniture Fixtures and Equipment | 2,260 | 610 | 0 | 0 | 0 | 0 | 0 | 0 | 2,870 |
| Planning and Design | 723 | 226 | 10 | 0 | 0 | 0 | 0 | 0 | 959 |
| Project Contingency | 210 | 20 | 5 | 0 | 0 | 0 | 0 | 0 | 235 |
| TOTAL EXPENDITURES: | 4,516 | 1,084 | 100 | 0 | 0 | 0 | 0 | 0 | 5,700 |

COLLECTION FACILITY - IMPROVEMENTS

PROJECT #: 5056840

DESCRIPTION: Provide various improvements to collection facilities to include stormwater, water and sewer systems, and drainage to comply with state and federal Environmental Protection Agency codes and rules
 LOCATION: Collection Facilities District Located: Systemwide
 Various Sites District(s) Served: Systemwide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Waste Collection Operating Fund | 164 | 100 | 100 | 100 | 100 | 100 | 100 | 236 | 1,000 |
| TOTAL REVENUES: | 164 | 100 | 100 | 100 | 100 | 100 | 100 | 236 | 1,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 117 | 87 | 84 | 86 | 86 | 86 | 86 | 208 | 840 |
| Planning and Design | 41 | 5 | 8 | 6 | 6 | 6 | 6 | 12 | 90 |
| Project Contingency | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 16 | 70 |
| TOTAL EXPENDITURES: | 164 | 100 | 100 | 100 | 100 | 100 | 100 | 236 | 1,000 |

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ENVIRONMENTAL IMPROVEMENTS

PROJECT #: 5050251

DESCRIPTION: Install groundwater monitoring wells and other equipment to perform FDEP/USEPA/RER required test studies
 LOCATION: To Be Determined District Located: Countywide
 Various Sites District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|--------------|
| Waste Disposal Operating Fund | 530 | 80 | 80 | 80 | 80 | 75 | 75 | 0 | 1,000 |
| TOTAL REVENUES: | 530 | 80 | 80 | 80 | 80 | 75 | 75 | 0 | 1,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 465 | 60 | 55 | 55 | 55 | 55 | 55 | 0 | 800 |
| Permitting | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 30 |
| Planning and Design | 10 | 5 | 10 | 10 | 10 | 5 | 5 | 0 | 55 |
| Project Contingency | 55 | 10 | 10 | 10 | 10 | 10 | 10 | 0 | 115 |
| TOTAL EXPENDITURES: | 530 | 80 | 80 | 80 | 80 | 75 | 75 | 0 | 1,000 |

MIAMI GARDENS LANDFILL - CLOSURE

PROJECT #: 200000352

DESCRIPTION: Close five acre Miami Garden's landfill site
 LOCATION: NW 37 Ave and NW 183 St District Located: 1
 Miami Gardens District(s) Served: 1

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|----------------------------|----------|--------------|------------|----------|----------|----------|----------|----------|--------------|
| Utility Service Fee | 0 | 2,800 | 200 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| TOTAL REVENUES: | 0 | 2,800 | 200 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 1,650 | 100 | 0 | 0 | 0 | 0 | 0 | 1,750 |
| Planning and Design | 0 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 350 |
| Project Administration | 0 | 800 | 100 | 0 | 0 | 0 | 0 | 0 | 900 |
| TOTAL EXPENDITURES: | 0 | 2,800 | 200 | 0 | 0 | 0 | 0 | 0 | 3,000 |

MUNISPORT LANDFILL - CLOSURE GRANT

PROJECT #: 5010690

DESCRIPTION: Close the Munisport Landfill through the Municipal Landfill Closure Grant
 LOCATION: NE 145 St and Biscayne Blvd District Located: 3
 North Miami District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|---------------|
| Interest Earnings | 4,673 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,673 |
| Solid Waste System Rev. Bonds Series 2005 | 17,999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,999 |
| Solid Waste System Rev. Bonds Series 2015 | 13,028 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,028 |
| TOTAL REVENUES: | 35,700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35,700 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 24,672 | 2,028 | 2,000 | 2,000 | 2,000 | 2,000 | 1,000 | 0 | 35,700 |
| TOTAL EXPENDITURES: | 24,672 | 2,028 | 2,000 | 2,000 | 2,000 | 2,000 | 1,000 | 0 | 35,700 |

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NORTH DADE LANDFILL - EAST CELL CLOSURE

PROJECT #: 509110

DESCRIPTION: Design and construct closure of the North Dade Landfill East Cell per Florida Department of Environmental Protection regulations

LOCATION: 21500 NW 47 Ave District Located: 1
 Unincorporated Miami-Dade County District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|---------------|---------------|
| Future Solid Waste Disp. Notes/Bonds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21,500 | 21,500 |
| TOTAL REVENUES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21,500 | 21,500 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,350 | 17,350 |
| Planning and Design | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,650 | 2,650 |
| Project Contingency | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,500 | 1,500 |
| TOTAL EXPENDITURES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21,500 | 21,500 |

NORTH DADE LANDFILL - GAS EXTRACTION SYSTEM (PHASE II)

PROJECT #: 50510091

DESCRIPTION: Design and construct an active gas extraction system to the East Cell of the North Dade Landfill including piping and flare retrofit per Florida Department of Environmental Protection regulations

LOCATION: 21500 NW 47 Ave District Located: 1
 Unincorporated Miami-Dade County District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Solid Waste System Rev. Bonds Series 2001 | 783 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 783 |
| Waste Disposal Operating Fund | 193 | 100 | 100 | 100 | 100 | 100 | 100 | 224 | 1,017 |
| TOTAL REVENUES: | 976 | 100 | 100 | 100 | 100 | 100 | 100 | 224 | 1,800 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 771 | 70 | 70 | 70 | 70 | 70 | 70 | 149 | 1,340 |
| Planning and Design | 74 | 5 | 5 | 5 | 5 | 5 | 5 | 21 | 125 |
| Project Contingency | 131 | 25 | 25 | 25 | 25 | 25 | 25 | 54 | 335 |
| TOTAL EXPENDITURES: | 976 | 100 | 100 | 100 | 100 | 100 | 100 | 224 | 1,800 |

NORTH DADE LANDFILL - GROUNDWATER REMEDIATION

PROJECT #: 5057380

DESCRIPTION: Construct a ground water remediation system around North Dade Landfill

LOCATION: 21500 NW 47 Ave District Located: 1
 Unincorporated Miami-Dade County District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---|--------------|------------|--------------|-----------|-----------|-----------|-----------|------------|--------------|
| Solid Waste System Rev. Bonds Series 2015 | 1,480 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,480 |
| Waste Disposal Operating Fund | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 |
| TOTAL REVENUES: | 1,480 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 1,500 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 0 | 943 | 42 | 42 | 42 | 42 | 142 | 1,253 |
| Planning and Design | 0 | 95 | 50 | 0 | 0 | 0 | 0 | 0 | 145 |
| Project Contingency | 0 | 5 | 57 | 8 | 8 | 8 | 8 | 8 | 102 |
| TOTAL EXPENDITURES: | 0 | 100 | 1,050 | 50 | 50 | 50 | 50 | 150 | 1,500 |

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NORTH DADE LANDFILL - LAND PURCHASE

PROJECT #: 609860

DESCRIPTION: Buy 215 acres of land west of NW 47 Ave for future expansion improvements or as a buffer to the landfill
 LOCATION: 21500 NW 47 Ave District Located: 1
 Unincorporated Miami-Dade County District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|----------|----------|----------|--------------|----------|----------|----------|----------|--------------|
| Waste Disposal Operating Fund | 0 | 0 | 0 | 6,800 | 0 | 0 | 0 | 0 | 6,800 |
| TOTAL REVENUES: | 0 | 0 | 0 | 6,800 | 0 | 0 | 0 | 0 | 6,800 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Land Acquisition/Improvements | 0 | 0 | 0 | 6,500 | 0 | 0 | 0 | 0 | 6,500 |
| Planning and Design | 0 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | 300 |
| TOTAL EXPENDITURES: | 0 | 0 | 0 | 6,800 | 0 | 0 | 0 | 0 | 6,800 |

NORTHEAST TRANSFER STATION - IMPROVEMENTS

PROJECT #: 509100

DESCRIPTION: Design tipping floor expansion by using a retaining wall and privacy screening for new development
 LOCATION: 18701 NE 6 Ave District Located: 1
 Unincorporated Miami-Dade County District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|--------------|--------------|--------------|----------|----------|----------|----------|----------|--------------|
| Waste Disposal Operating Fund | 1,113 | 3,487 | 1,000 | 0 | 0 | 0 | 0 | 0 | 5,600 |
| TOTAL REVENUES: | 1,113 | 3,487 | 1,000 | 0 | 0 | 0 | 0 | 0 | 5,600 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 688 | 3,242 | 970 | 0 | 0 | 0 | 0 | 0 | 4,900 |
| Planning and Design | 358 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 500 |
| Project Contingency | 67 | 103 | 30 | 0 | 0 | 0 | 0 | 0 | 200 |
| TOTAL EXPENDITURES: | 1,113 | 3,487 | 1,000 | 0 | 0 | 0 | 0 | 0 | 5,600 |

OLD SOUTH DADE LANDFILL - NEW TRANSFER STATION

PROJECT #: 200000353

DESCRIPTION: Construct a new transfer station on the closed Old South Dade Landfill
 LOCATION: 9350 SW 248 St District Located: 8, 9
 Unincorporated Miami-Dade County District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|-----------|--------------|--------------|---------------|------------|----------|----------|----------|---------------|
| Waste Disposal Operating Fund | 50 | 2,100 | 9,600 | 14,150 | 100 | 0 | 0 | 0 | 26,000 |
| TOTAL REVENUES: | 50 | 2,100 | 9,600 | 14,150 | 100 | 0 | 0 | 0 | 26,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 200 | 8,800 | 13,700 | 0 | 0 | 0 | 0 | 22,700 |
| Planning and Design | 50 | 1,850 | 400 | 0 | 0 | 0 | 0 | 0 | 2,300 |
| Project Contingency | 0 | 50 | 400 | 450 | 100 | 0 | 0 | 0 | 1,000 |
| TOTAL EXPENDITURES: | 50 | 2,100 | 9,600 | 14,150 | 100 | 0 | 0 | 0 | 26,000 |

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OLD SOUTH DADE LANDFILL - STORMWATER PUMP STATION MODIFICATIONS

PROJECT #: 601660

DESCRIPTION: Modify the old South Dade Landfill stormwater pump station
 LOCATION: 23707 SW 97 Ave District Located: 8
 Unincorporated Miami-Dade County District(s) Served: 8

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|------------|------------|----------|----------|----------|----------|----------|----------|------------|
| Waste Disposal Operating Fund | 135 | 415 | 0 | 0 | 0 | 0 | 0 | 0 | 550 |
| TOTAL REVENUES: | 135 | 415 | 0 | 0 | 0 | 0 | 0 | 0 | 550 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 45 | 370 | 0 | 0 | 0 | 0 | 0 | 0 | 415 |
| Planning and Design | 84 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 85 |
| Project Contingency | 6 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| TOTAL EXPENDITURES: | 135 | 415 | 0 | 0 | 0 | 0 | 0 | 0 | 550 |

REMEDIATION - TAYLOR PARK

PROJECT #: 606750

DESCRIPTION: Remediate contaminated areas within Taylor Park
 LOCATION: 15450 W Dixie Hwy District Located: 2
 North Miami Beach District(s) Served: 2

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|------------|--------------|------------|----------|----------|----------|----------|----------|--------------|
| Utility Service Fee | 350 | 2,880 | 201 | 0 | 0 | 0 | 0 | 0 | 3,431 |
| Waste Disposal Operating Fund | 69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| TOTAL REVENUES: | 419 | 2,880 | 201 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 2,600 | 101 | 0 | 0 | 0 | 0 | 0 | 2,701 |
| Planning and Design | 409 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 499 |
| Project Contingency | 10 | 190 | 100 | 0 | 0 | 0 | 0 | 0 | 300 |
| TOTAL EXPENDITURES: | 419 | 2,880 | 201 | 0 | 0 | 0 | 0 | 0 | 3,500 |

RESOURCES RECOVERY - VARIOUS CAPITAL IMPROVEMENTS

PROJECT #: 508640

DESCRIPTION: Continue on-going capital improvements to include but not limited to a new transformer, turbine control upgrades, enhanced boiler protection, parking lot lighting and storm drainage improvements, installation of fire hoses at the Bio Mass building, replacement of trailers with permanent structures, and purchase 10 acres of land south of Resources Recovery
 LOCATION: 6990 NW 97 Ave District Located: 12
 Unincorporated Miami-Dade County District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|---------------|--------------|------------|------------|------------|----------|----------|----------|---------------|
| Donations | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 |
| Waste Disposal Operating Fund | 12,708 | 3,872 | 600 | 600 | 220 | 0 | 0 | 0 | 18,000 |
| TOTAL REVENUES: | 13,708 | 3,872 | 600 | 600 | 220 | 0 | 0 | 0 | 19,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 5,740 | 860 | 500 | 500 | 200 | 0 | 0 | 0 | 7,800 |
| Land Acquisition/Improvements | 7,100 | 2,900 | 0 | 0 | 0 | 0 | 0 | 0 | 10,000 |
| Planning and Design | 555 | 45 | 50 | 50 | 0 | 0 | 0 | 0 | 700 |
| Project Contingency | 313 | 67 | 50 | 50 | 20 | 0 | 0 | 0 | 500 |
| TOTAL EXPENDITURES: | 13,708 | 3,872 | 600 | 600 | 220 | 0 | 0 | 0 | 19,000 |

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RESOURCES RECOVERY ASH LANDFILL - CELL 19 CLOSURE

PROJECT #: 507690

DESCRIPTION: Design and construct closure of Resources Recovery Cell 19 per Florida Department of Environmental Protection regulations
 LOCATION: 6990 NW 97 Ave Doral District Located: 12 District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|--------------|--------------|----------|----------|----------|----------|----------|----------|--------------|
| Waste Disposal Operating Fund | 2,931 | 1,269 | 0 | 0 | 0 | 0 | 0 | 0 | 4,200 |
| TOTAL REVENUES: | 2,931 | 1,269 | 0 | 0 | 0 | 0 | 0 | 0 | 4,200 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 2,000 | 1,055 | 0 | 0 | 0 | 0 | 0 | 0 | 3,055 |
| Planning and Design | 581 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | 695 |
| Project Contingency | 350 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 450 |
| TOTAL EXPENDITURES: | 2,931 | 1,269 | 0 | 0 | 0 | 0 | 0 | 0 | 4,200 |

RESOURCES RECOVERY ASH LANDFILL - CELL 20 CLOSURE

PROJECT #: 503220

DESCRIPTION: Design and construct closure of Resources Recovery Cell 20 per Florida Department of Environmental Protection regulations
 LOCATION: 6990 NW 97 Ave Doral District Located: 12 District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|--------------|--------------|
| Future Solid Waste Disp. Notes/Bonds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,000 | 6,000 |
| TOTAL REVENUES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,000 | 6,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,650 | 4,650 |
| Planning and Design | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 850 | 850 |
| Project Contingency | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 500 |
| TOTAL EXPENDITURES: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,000 | 6,000 |

SCALE HOUSE - CANOPIES

PROJECT #: 200000630

DESCRIPTION: Install canopies over all scales
 LOCATION: Disposal Sites Various Sites District Located: Countywide District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|----------|------------|--------------|--------------|----------|----------|----------|----------|--------------|
| Waste Disposal Operating Fund | 0 | 450 | 1,230 | 1,120 | 0 | 0 | 0 | 0 | 2,800 |
| TOTAL REVENUES: | 0 | 450 | 1,230 | 1,120 | 0 | 0 | 0 | 0 | 2,800 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 0 | 1,180 | 1,060 | 0 | 0 | 0 | 0 | 2,240 |
| Planning and Design | 0 | 440 | 0 | 0 | 0 | 0 | 0 | 0 | 440 |
| Project Contingency | 0 | 10 | 50 | 60 | 0 | 0 | 0 | 0 | 120 |
| TOTAL EXPENDITURES: | 0 | 450 | 1,230 | 1,120 | 0 | 0 | 0 | 0 | 2,800 |

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SCALEHOUSE - EXPANSION PROJECT

PROJECT #: 505670

DESCRIPTION: Expand and improve disposal system scalehouses at the North Dade and South Dade landfills and West and Central transfer stations

LOCATION: Various Sites
Throughout Miami-Dade County

District Located: 1, 9, 10
District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|--------------|--------------|------------|----------|----------|----------|----------|----------|--------------|
| Waste Disposal Operating Fund | 1,186 | 1,314 | 500 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| TOTAL REVENUES: | 1,186 | 1,314 | 500 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 681 | 1,184 | 475 | 0 | 0 | 0 | 0 | 0 | 2,340 |
| Planning and Design | 453 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 560 |
| Project Contingency | 52 | 23 | 25 | 0 | 0 | 0 | 0 | 0 | 100 |
| TOTAL EXPENDITURES: | 1,186 | 1,314 | 500 | 0 | 0 | 0 | 0 | 0 | 3,000 |

SHOP 3A - NEW FACILITY BUILDING

PROJECT #: 505950

DESCRIPTION: Construct a new 7,500 square foot building at shop 3A to replace an existing temporary trailer, which will house both Disposal and Collection employees and contain storage for equipment and archived departmental files

LOCATION: 18701 NE 6 Ave
Unincorporated Miami-Dade County

District Located: 1
District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---------------------------------|--------------|--------------|-----------|----------|----------|----------|----------|----------|--------------|
| Waste Collection Operating Fund | 1,470 | 600 | 30 | 0 | 0 | 0 | 0 | 0 | 2,100 |
| Waste Disposal Operating Fund | 980 | 400 | 20 | 0 | 0 | 0 | 0 | 0 | 1,400 |
| TOTAL REVENUES: | 2,450 | 1,000 | 50 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 1,777 | 953 | 30 | 0 | 0 | 0 | 0 | 0 | 2,760 |
| Planning and Design | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 500 |
| Project Contingency | 173 | 47 | 20 | 0 | 0 | 0 | 0 | 0 | 240 |
| TOTAL EXPENDITURES: | 2,450 | 1,000 | 50 | 0 | 0 | 0 | 0 | 0 | 3,500 |

SOUTH DADE LANDFILL - CELL 4 CLOSURE

PROJECT #: 504370

DESCRIPTION: Design and construct the closure of South Dade Landfill Cell 4 per Florida Department of Environmental Protection regulations

LOCATION: 24000 SW 97 Ave
Unincorporated Miami-Dade County

District Located: 8
District(s) Served: Countywide



| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|--------------------------------------|----------|----------|----------|--------------|--------------|--------------|----------|----------|---------------|
| Future Solid Waste Disp. Notes/Bonds | 0 | 0 | 0 | 2,080 | 9,870 | 5,550 | 0 | 0 | 17,500 |
| TOTAL REVENUES: | 0 | 0 | 0 | 2,080 | 9,870 | 5,550 | 0 | 0 | 17,500 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 0 | 0 | 700 | 7,800 | 5,100 | 0 | 0 | 13,600 |
| Planning and Design | 0 | 0 | 0 | 1,280 | 1,320 | 300 | 0 | 0 | 2,900 |
| Project Contingency | 0 | 0 | 0 | 100 | 750 | 150 | 0 | 0 | 1,000 |
| TOTAL EXPENDITURES: | 0 | 0 | 0 | 2,080 | 9,870 | 5,550 | 0 | 0 | 17,500 |

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SOUTH DADE LANDFILL - GROUNDWATER REMEDIATION

PROJECT #: 5051580



DESCRIPTION: Construct a trench along the east side of South Dade Landfill cells 1 and 2 to prevent clogging and to collect the required quantity of groundwater for treatment to include the installation of a series of wells along the east berm
 LOCATION: 24000 SW 97 Ave District Located: 8
 Unincorporated Miami-Dade County District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|--------------------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|--------------|
| Solid Waste System Rev. Bonds Series | 477 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 477 |
| 2001 | | | | | | | | | |
| Waste Disposal Operating Fund | 238 | 80 | 80 | 80 | 80 | 80 | 80 | 105 | 823 |
| TOTAL REVENUES: | 715 | 80 | 80 | 80 | 80 | 80 | 80 | 105 | 1,300 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 527 | 75 | 75 | 75 | 75 | 75 | 75 | 53 | 1,030 |
| Planning and Design | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 200 |
| Project Contingency | 28 | 5 | 5 | 5 | 5 | 5 | 5 | 12 | 70 |
| TOTAL EXPENDITURES: | 715 | 80 | 80 | 80 | 80 | 80 | 80 | 105 | 1,300 |

SOUTH DADE LANDFILL - LAND PURCHASE

PROJECT #: 609120



DESCRIPTION: Purchase 175 acres of land west of SW 97 Ave for future expansion, improvements and/or as a buffer to the landfill
 LOCATION: 23707 SW 97 Ave District Located: 8
 Unincorporated Miami-Dade County District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|----------|----------|--------------|------------|----------|----------|----------|----------|--------------|
| Waste Disposal Operating Fund | 0 | 0 | 5,200 | 100 | 0 | 0 | 0 | 0 | 5,300 |
| TOTAL REVENUES: | 0 | 0 | 5,200 | 100 | 0 | 0 | 0 | 0 | 5,300 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Land Acquisition/Improvements | 0 | 0 | 5,000 | 0 | 0 | 0 | 0 | 0 | 5,000 |
| Planning and Design | 0 | 0 | 200 | 100 | 0 | 0 | 0 | 0 | 300 |
| TOTAL EXPENDITURES: | 0 | 0 | 5,200 | 100 | 0 | 0 | 0 | 0 | 5,300 |

SOUTH DADE TRANSFER STATION - IMPROVEMENTS

PROJECT #: 200000629



DESCRIPTION: Retrofit to Transfer Station at South Dade Landfill; provide improvements to the facility to include tipping floor restoration and expansion, replacement of fire suppression system, repairs to roof structure, and electrical upgrades
 LOCATION: 24000 SW 97 Ave District Located: 8
 Unincorporated Miami-Dade County District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|--------------|------------|-----------|----------|----------|----------|----------|----------|--------------|
| Waste Disposal Operating Fund | 2,300 | 650 | 50 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| TOTAL REVENUES: | 2,300 | 650 | 50 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 2,230 | 625 | 45 | 0 | 0 | 0 | 0 | 0 | 2,900 |
| Project Contingency | 70 | 25 | 5 | 0 | 0 | 0 | 0 | 0 | 100 |
| TOTAL EXPENDITURES: | 2,300 | 650 | 50 | 0 | 0 | 0 | 0 | 0 | 3,000 |

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TRASH AND RECYCLING CENTER - VARIOUS IMPROVEMENTS

PROJECT #: 5054061



DESCRIPTION: Construct improvements to the 13 trash and recycling centers to include new entrances, gates, stairs, fencing, storm water systems, and walls
 LOCATION: Trash and Recycling Centers District Located: Systemwide
 Various Sites District(s) Served: Systemwide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---------------------------------|--------------|--------------|------------|------------|------------|------------|------------|------------|--------------|
| Waste Collection Operating Fund | 1,162 | 1,938 | 400 | 400 | 400 | 400 | 400 | 400 | 5,500 |
| TOTAL REVENUES: | 1,162 | 1,938 | 400 | 400 | 400 | 400 | 400 | 400 | 5,500 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 944 | 1,571 | 360 | 360 | 360 | 360 | 360 | 360 | 4,675 |
| Planning and Design | 196 | 184 | 20 | 20 | 20 | 20 | 20 | 20 | 500 |
| Project Contingency | 22 | 183 | 20 | 20 | 20 | 20 | 20 | 20 | 325 |
| TOTAL EXPENDITURES: | 1,162 | 1,938 | 400 | 400 | 400 | 400 | 400 | 400 | 5,500 |

TRASH AND RECYCLING CENTER - WEST/SOUTHWEST

PROJECT #: 5054051



DESCRIPTION: Construct a new Trash and Recycling Center in an underserved neighborhood of the waste collection service area
 LOCATION: To Be Determined District Located: 11
 Unincorporated Miami-Dade County District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---------------------------------|------------|----------|----------|----------|----------|----------|----------|--------------|--------------|
| Waste Collection Operating Fund | 284 | 0 | 0 | 0 | 0 | 0 | 0 | 1,746 | 2,030 |
| TOTAL REVENUES: | 284 | 0 | 0 | 0 | 0 | 0 | 0 | 1,746 | 2,030 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,444 | 1,444 |
| Planning and Design | 269 | 0 | 0 | 0 | 0 | 0 | 0 | 175 | 444 |
| Project Contingency | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 142 |
| TOTAL EXPENDITURES: | 284 | 0 | 0 | 0 | 0 | 0 | 0 | 1,746 | 2,030 |

VIRGINIA KEY - LANDFILL CLOSURE

PROJECT #: 606610




DESCRIPTION: Close the Virginia Key Landfill
 LOCATION: Virginia Key District Located: 7
 City of Miami District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|---|---------------|---------------|---------------|---------------|----------|----------|----------|----------|---------------|
| Future Solid Waste Disp. Notes/Bonds | 0 | 0 | 8,075 | 10,000 | 0 | 0 | 0 | 0 | 18,075 |
| Solid Waste System Rev. Bonds Series 2005 | 3,432 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,432 |
| Solid Waste System Rev. Bonds Series 2015 | 24,853 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24,853 |
| TOTAL REVENUES: | 28,285 | 0 | 8,075 | 10,000 | 0 | 0 | 0 | 0 | 46,360 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 3,574 | 7,802 | 19,400 | 10,000 | 0 | 0 | 0 | 0 | 40,776 |
| Planning and Design | 1,794 | 1,490 | 0 | 0 | 0 | 0 | 0 | 0 | 3,284 |
| Project Contingency | 164 | 1,536 | 600 | 0 | 0 | 0 | 0 | 0 | 2,300 |
| TOTAL EXPENDITURES: | 5,532 | 10,828 | 20,000 | 10,000 | 0 | 0 | 0 | 0 | 46,360 |

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WEST TRANSFER STATION - IMPROVEMENTS

PROJECT #: 501410 

DESCRIPTION: Renovate and replace tipping floor and entire drainage system at the West Transfer Station

LOCATION: 2900 SW 72 Ave
Coral Gables

District Located: 6
District(s) Served: Countywide

| REVENUE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
|-------------------------------|------------|------------|----------|----------|----------|----------|----------|----------|------------|
| Waste Disposal Operating Fund | 418 | 482 | 0 | 0 | 0 | 0 | 0 | 0 | 900 |
| TOTAL REVENUES: | 418 | 482 | 0 | 0 | 0 | 0 | 0 | 0 | 900 |
| EXPENDITURE SCHEDULE: | PRIOR | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | FUTURE | TOTAL |
| Construction | 210 | 470 | 0 | 0 | 0 | 0 | 0 | 0 | 680 |
| Planning and Design | 178 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 180 |
| Project Contingency | 30 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| TOTAL EXPENDITURES: | 418 | 482 | 0 | 0 | 0 | 0 | 0 | 0 | 900 |

UNFUNDED CAPITAL PROJECTS

| PROJECT NAME | LOCATION | (dollars in thousands) ESTIMATED PROJECT COST |
|---|------------------|--|
| HICKMAN GARAGE REMEDIATION | 270 NW 2 St | 2,600 |
| HUMAN RESOURCES TRAINING AND EDUCATION BUILDING | To Be Determined | 2,000 |
| MOSQUITO CONTROL BUILDING | 8901 NW 58 St | 5,000 |
| UNFUNDED TOTAL | | 9,600 |

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Neighborhood Trash and Recycling Centers

1. North Dade 21500 NW 47 Ave
2. Norwood 19901 NW 7 Ave
3. Palm Springs 7870 NW 178 St
4. Golden Glades 140 NW 160 St
5. West Little River 1830 NW 79 St
6. Snapper Creek 2200 SW 117 Ave
7. Sunset Kendall 8000 SW 107 Ave
8. Chapman Field 13600 SW 60 Ave
9. Richmond Heights 14050 Boggs Dr
10. West Perrine 16651 SW 107 Ave
11. Eureka Drive 9401 SW 184 St
12. South Miami Heights 20800 SW 117 Ct
13. Moody Drive 12970 SW 268 St

Resources Recovery Facility

14. Resources Recovery 6990 NW 97 Ave

Landfills

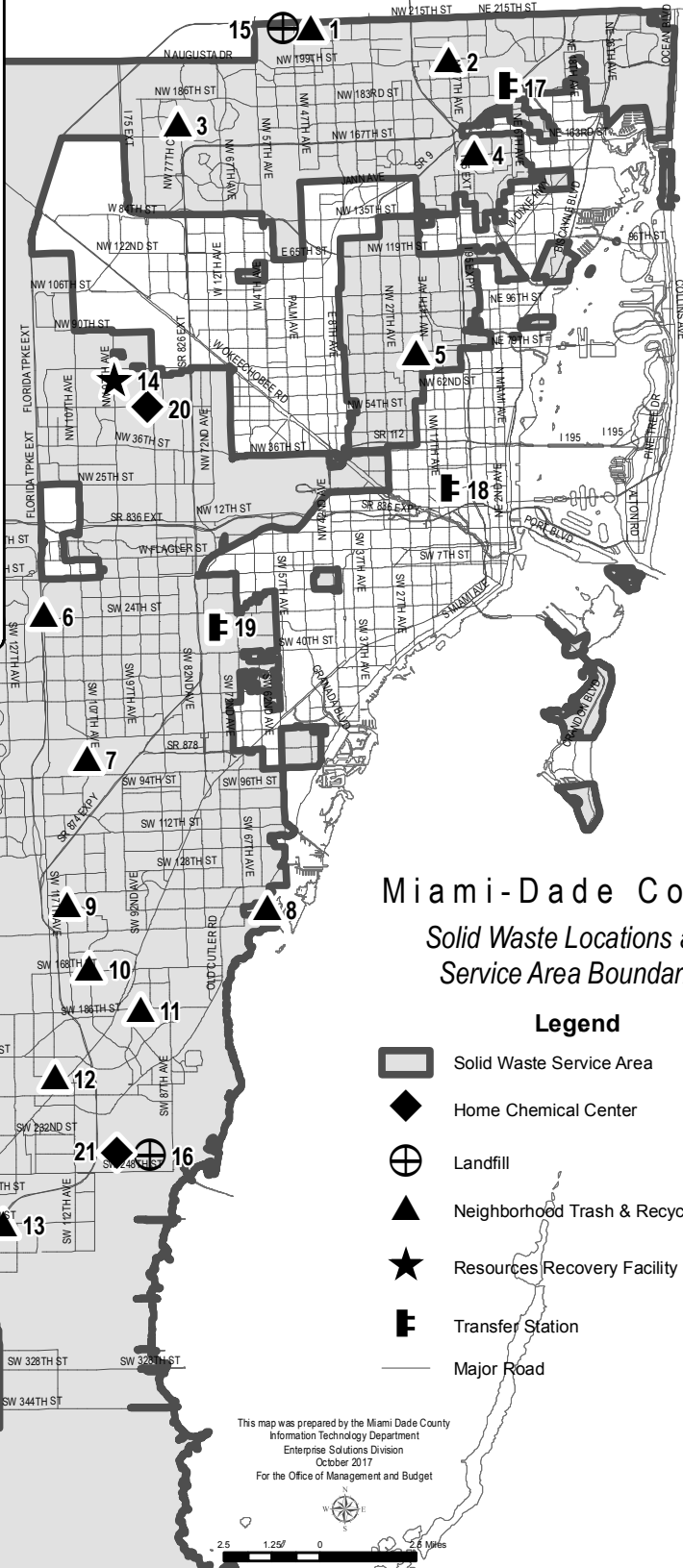
15. North Dade Landfill 21500 NW 47 Ave
16. South Dade Landfill 23707 SW 97 Ave

Transfer Stations

17. Northeast Regional 18701 NE 6 Ave
18. Central 1150 NW 20 St
19. West 2900 SW 72 Ave

Home Chemical Centers

20. North 8801 NW 58 St
21. South 23707 SW 97 Ave



Miami-Dade County
Solid Waste Locations and
Service Area Boundaries

Legend

- Solid Waste Service Area
- Home Chemical Center
- Landfill
- Neighborhood Trash & Recycling Center
- Resources Recovery Facility
- Transfer Station
- Major Road

This map was prepared by the Miami Dade County
Information Technology Department
Enterprise Solutions Division
October 2017
For the Office of Management and Budget

