

# Miami-Dade County CIP Investments in Our Community











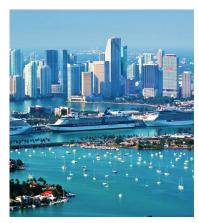


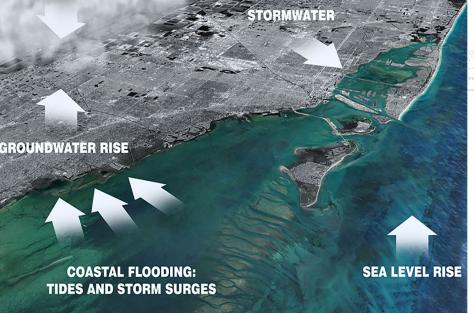


Miami-Dade County is a coastal community with 5,830 people per square mile within its urban area. The WASD CIP is focused on the following projects to improve system resilience throughout our service area:

- Upgrading our aging infrastructure through replacement and renewal
- Addressing critical needs across our water treatment plants and distribution system
- Fast-tracking projects to connect more than 12,000 groundwater compromised septic tanks to our sanitary sewer system as part of our recently launched Connect 2 Protect program







#### The "One Water" Approach to Water Sector Resilience



The simple truth is that all water has value — drinking water, wastewater, stormwater, and everything in between — and should be managed in a sustainable, inclusive, integrated way.

We call this perspective One Water.

And while our focus is water, our goals are thriving local economies, vibrant communities, and healthy ecosystems.

# WASD Capital Improvement Program BUILDING FOR OUR FUTURE



Through the Capital Improvement Program, the Miami-Dade Water & Sewer Department will continue to ensure the sustainable delivery of high-quality drinking water and wastewater services to the residents of Miami-Dade County.



## WASD at a glance

The Miami-Dade Water & Sewer Department is the largest water utility in the Southeastern United States, providing high-quality, affordable water & wastewater services to the people of Miami-Dade County.









2.3 Million Residents Served



1,057 Pump Stations & 6,300 Miles of Collection System



2,791 Positions



3 Wastewater Plants Treating Almost 300 MGD



3 Regional Water Plants & 1 Shared Reverse Osmosis Plant Producing 300+ MGD

### Strategic Initiatives



### WASD Key Capital Improvement Programs

### Consent Decree

To achieve full compliance with the US EPA Clean Water Act

#### Water Reset

To address critical needs across water treatment plants & the distribution system

### Pump Station Resilience

To manage the improvement to pump stations, force mains, and gravity lines



### Ocean Outfall Legislation

To comply with State of Florida legislation requiring elimination of ocean outfalls to dispose of treated wastewater

#### Connect 2 Protect

To protect Biscayne Bay and the environment by implementing septic to sewer conversions

#### **Asset Management**

To address aging infrastructure through systemic renewal & replacement

### Capital Plan

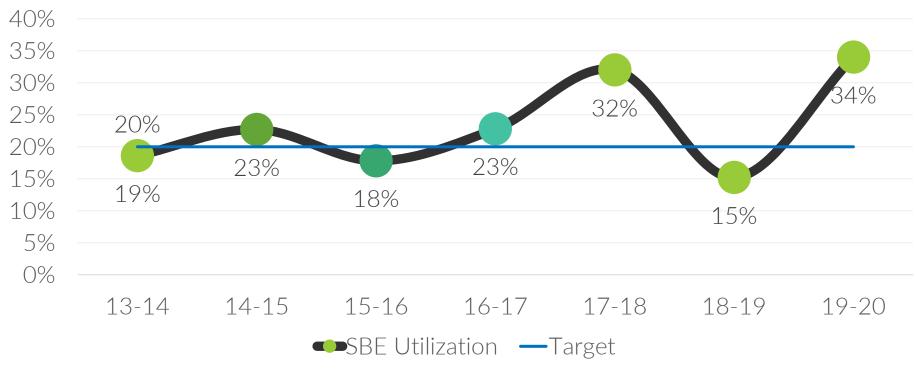


Investment Drivers	ADOPTED BUDGET FY 20
Consent Decree	\$1,817
Program Occan Outfall	
Ocean Outfall Legislation	\$2,177
Pump Stations &	\$389
Flow Reduction	ΨΟΟΟ
WASD Capital	\$3,141
Projects	ΨΟ, ΤΤΙ
Totals	\$7,524 M



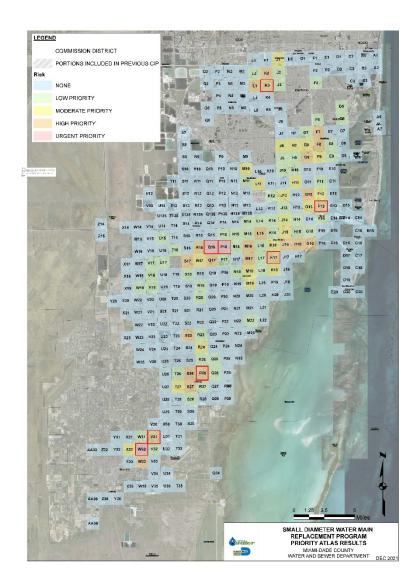
#### **Small Business Commitment**

Historical SBE Participation (% of WASD Contract Value)





### Small Water Main Replacement



- ☐ Square Miles Under Design 8
- Urgent Priorities 3
- High Priorities 24
- Moderate Priorities 21
- Low Priorities -55



# CONNECT PROTECT

- Countywide Program
- Conversion of 9,000 Septic Tanks
- Protects Biscayne Bay



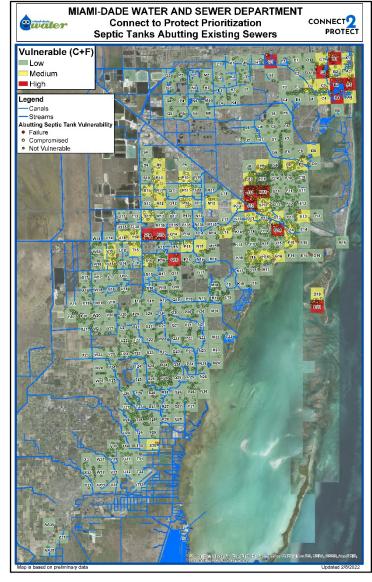
Protect your home from damage, reduce maintenance, and get more use from your yard



Protect your health from exposure to overflows and flood water



Protect our natural resources, including our drinking water and Biscayne Bay





#### Water Infrastructure Reset

#### **Estimated Investment**

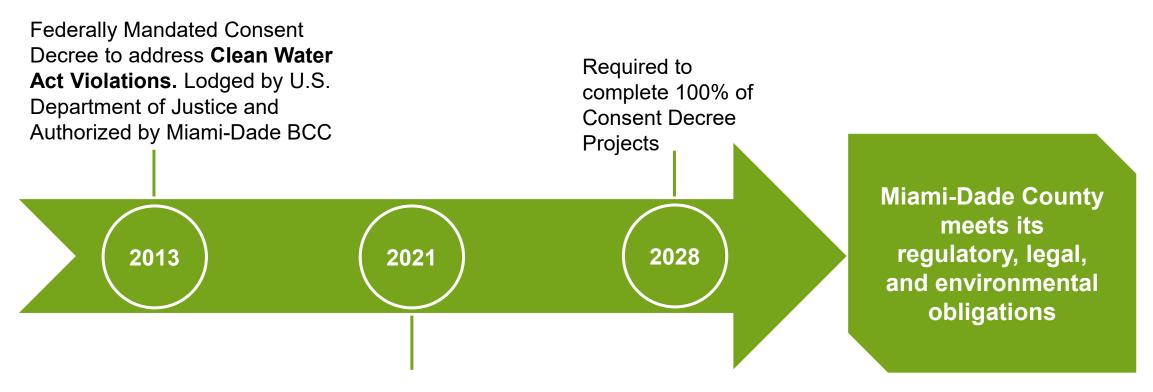


#### \$300 Million Investment

- Increases sustainability & resilience
- Prioritized through asset management
- 33 Projects



#### Consent Decree



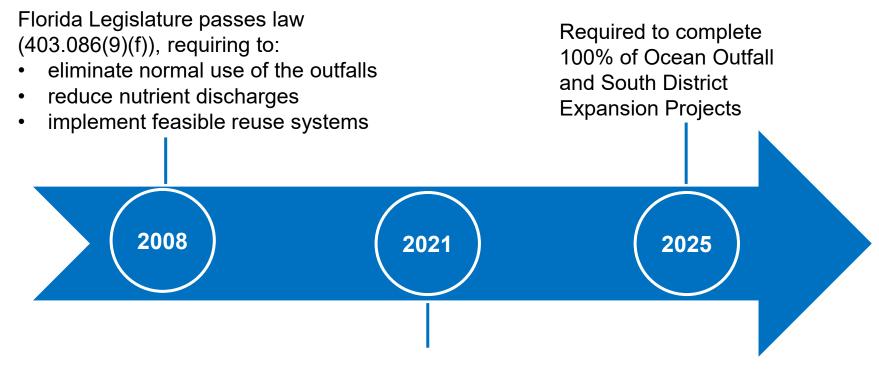
#### 65% of projects completed

Expenditures to Date: \$1.3 Billion

Remaining to Complete: \$0.6 Billion



### Ocean Outfall Legislation



Miami-Dade County
meets its
regulatory and
environmental
obligations to the
Florida Legislature

#### 12.5% completed

Expenditure to Date: \$0.3 Billion

• Remaining to Complete: \$2.1 Billion



### **Ensuring Capacity for Growth**



**Increasing Wastewater Treatment Capacity** 

Increasing SDWWTP AADF from 112.5 MGD \_\_\_\_\_\_ 131 MGD

Increasing SDWWTP PHF from 285 MGD 305 MGD



**Increasing Water Supply** 

Increasing water supply by optimizing Biscayne Aquifer wellfield operations and the C-51 reservoir project.



#### **A&E Contracts**

#### 2022

- Engineering Services for Grant funded projects
- Standards / Specs
- South Dade Maintenance Facility

#### 2023

- Water/WW
   Collection &
   Distribution
   System
- Wastewater
   Treatment
   Plant
   Consultants
- Water
   Treatment
   Plant
   Consultants

#### 2024

General
 Planning for Water &
 Sewer

#### 2025+

- 1. Hydrogeology
- 2. Geotechnical& MaterialTesting
- 3. Land Surveying



### FEMA & Grant Consulting

\$42.7M

**FDEP Grants** 

- Drinking Water
   Resilience Hardening
- Schenley ParkConnect 2 Protect



#### **Treatment Plants PSA**

All treatment process and facilities



#### Collection & Distribution System PSA

All pipelines, pumpstations, and sewer conversions



### Standards & Specifications



### South Dade Maintenance Facility







#### **Construction Contracts**

#### **Emergency Pool**

- SmallDiameter Pool
- LargeDiameter Pool

#### **Trenchless**

- Pool for New Installation of Trenchless Pipeline
- Pool for Rehabilitation of Trenchless Pipeline

### Miscellaneous Construction Contract 7040

- Small Businesses
- Local office
- Local Business Tax Receipt
- Qualifier Minimum 10% Ownership

### Miscellaneous Construction Contract 7360

- Open to all contractors
- To be considered must respond to RTQ
- Must be registered as a vendor before award

### **Executing Together**

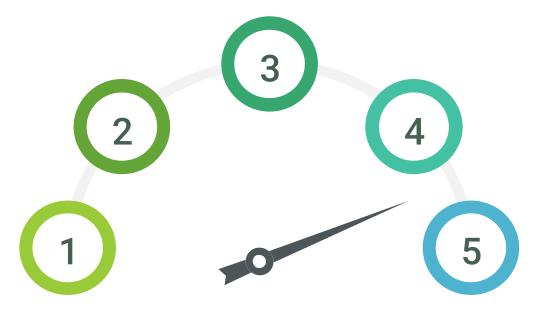
#### Increased collaboration

- Industry Reviews prior to NTPC's
- Industry Reviews for large projects prior to Bids
- Evaluations & Feedback from Project Managers
- Enhance Our Website with CIP
- Keeping projects on track.
- Minimizing changes.
- Engaging the community.

SCHEDULE

BUDGET

STAKEHOLDERS





### Quarterly Industry Forum Meetings

Late May

Second Quarter 2022

Late August

Third Quarter 2022

Mid-to-Late November

Fourth Quarter 2022



