## Fort Lauderdale Infrastructure Management



## CITY OF FORT LAUDERDALE

# Issues and Challenges In Managing Infrastructure

- Aging, deteriorating, or obsolete infrastructure/technology
- Deferred maintenance due to limited funding
- Infrastructure designed for smaller population with different expectations
- Changing regulatory environment and costs of compliance
- Higher levels of service desired
- Jurisdictional issues with County/State
- Public / Private Interface
- Infrastructure needs to support economic growth
- Evolving infrastructure standards for sustainable, balanced solutions
- Balancing capital investments with maintenance/operational costs
- Changing the built environment to accommodate alternative travel modes
- Impacts on staff resources due to large amount of needed projects



# **Infrastructure Areas**

#### **General Fund**

- Seawalls
- Neighborhood Mobility
- Roads
- Bridges
- Sidewalks
- Canal Dredging
- Facilities

#### Parking Fund

• Parking

#### <u>Airport Fund</u>

• Airport

#### Stormwater Fund

• Stormwater Program

#### Water and Sewer Fund

- Water Utility
- Sewer Utility





## CITY OF FORT LAUDERDALE

# **General Fund**

(In Millions)

	F١	Y 2017
	А	dopted
Revenues	\$	330.9
Operating Expenditures	\$	316.5
Community Investment Plan (CIP)	\$	14.4
CIP as a percent of total Operating Expenses <sup>1</sup>		<b>4.6</b> %
Fund Balance In Millions	\$	71.7
Fund Balance as a percent of Operating Expenditures <sup>2</sup>		<b>23.6</b> %

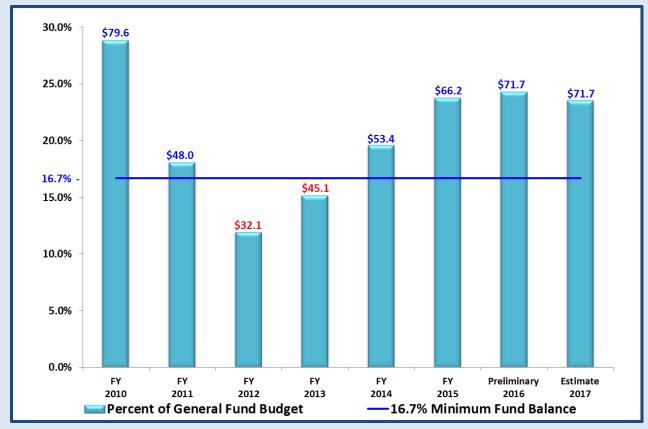
<sup>1</sup> It is the policy of the City that annual contributions to the Community Investment Plan (CIP) from the General Fund are a minimum of 1% of the total General Fund expenses.

<sup>2</sup> It is the policy of the City that the General Fund requires a minimum available fund balance of two (2) months or 16.7% of the General Fund budget, including necessary transfers.



## **General Fund Balance<sup>1</sup>**

(In Millions)



<sup>1</sup>The City's policy is that the General Fund requires a minimum available fund balance of two (2) months or 16.7% of the General Fund budget, including necessary transfers.



# **Seawalls**

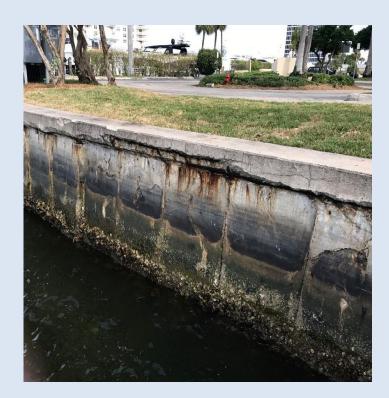
#### <u>Overview</u>

- Approximately 200 miles of seawalls and banks
- 4.8 miles City-owned seawalls
- 2.0 miles City-owned natural banks
- Revised Seawall Ordinance adopted June 21, 2016
- Developing Seawall Master Plan

## Commission Priorities / Strategic Plan

- Goal 2: Be a sustainable and resilient community
  - Objective 2: Reduce flooding and adapt to sea level rise
  - > Objective 3: Improve climate change resiliency by incorporating local and regional plans





## **Seawalls**

#### CIP

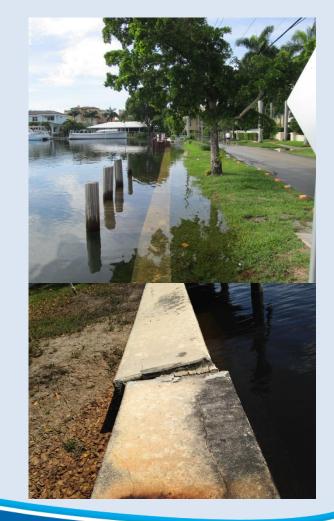
PREVIOUS FY	\$1,079,501
FY2017	\$142,690
FY2018	\$392,975
FY2019	\$892,975
FY2020	\$0
FY2021	\$4,776,270
FIVE YEAR CIP TOTAL	\$7,284,411

#### UNFUNDED

\$33,584,550

#### **Active Projects**

- **Riverwalk Seawall Replacement Northside**
- Bayview Drive Seawall Between NE 59th ٠ and NE 60<sup>th</sup> Street
- Seawall Master Plan
- **Marine Facilities Maintenance**





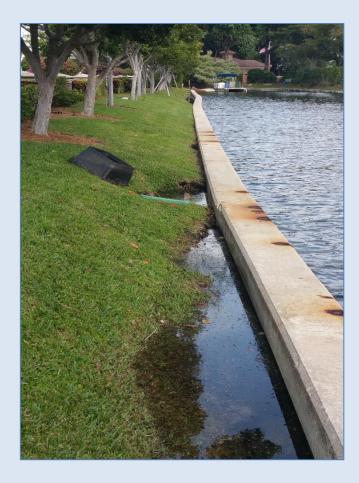
# **Seawalls**

#### **Issues and Challenges**

- Building resiliency
- New ordinance criteria and guidelines
- King tide and floods
- Limited access

#### **Opportunities**

- Enhance level of service
- Improve community resiliency
- Increase community engagement





## CITY OF FORT LAUDERDALE

## PEDESTRIAN, BICYCLE, TRANSIT AND NEIGHBORHOOD MOBILITY IMPROVEMENTS

#### **Overview**

- For the past three years overall flow of traffic has been identified as one of the highest priorities for the City of Fort Lauderdale
- The City has been working towards addressing this priority through various infrastructure projects throughout the City

#### **Challenges**

- Limited funding for high cost capital projects
- Increasing neighbor dissatisfaction with traffic flow
- Increasing fatality and serious injuries from traffic crashes
- Providing vehicle, transit, pedestrian, and bicycle infrastructure improvements to accommodate increasing daily employee, resident, and visitor populations
- Significant staff resource impacts due to the high number of projects requiring management and implementation

#### **Opportunities**

 Through collaborating with partners on projects such as the Wave Streetcar, Dixie Highway and A1A we have been able to address many of these needs throughout the City







## PEDESTRIAN, BICYCLE, TRANSIT AND NEIGHBORHOOD MOBILITY IMPROVEMENTS

#### **Current Initiatives**

- Implementation of over 12 programmed City CIP
  Projects targeted specifically at improving public
  mobility and safety including:
  - Downtown Walkability Projects
  - Las Olas Improvement Project
  - NE 13th Street
  - Wave Streetcar (utility relocation funded through water and sewer fund)
  - And more...
- Participation in Broward County and FDOT projects to ensure mobility needs are met
- Conducting neighborhood mobility master plans in order to identify needs that remain unfunded







## PEDESTRIAN, BICYCLE, TRANSIT AND NEIGHBORHOOD MOBILITY IMPROVEMENTS

## **Needs**

21 projects costing approximately **\$12.8 million** in total were identified as needed improvements within the proposed ten year infrastructure tax spending plan including:

- Bayview Drive Bike/Pedestrian Project
- Birch Road Complete Streets Project
- Breakers Avenue Complete Streets
- Las Olas Blvd At SE 8th And 9th Avenues
- NE 13th Street Complete Streets Phase II
- NE 26th Street Complete Streets
- Neighborhood Traffic Calming & Ped Safety Projects
- North Beach Village Shoppes Streets Improvements
- NW 15th Avenue Complete Streets Project
- NW 7th Avenue Corridor Project

- NW 9 Avenue Enhancement Project
- SE 16th Street Complete Streets Project
- SE 17th Street Improvements
- Neighborhood Mobility Master Plan Improvements (Coral Ridge Country Club, Lake Ridge, Palm Aire Village West, Shady Banks and Tarpon River)

Flamingo Park, Coral Ridge Isles and Palm Aire Village East Speed Humps

- SE 6<sup>th</sup> Avenue Improvements
- Neighborhood Traffic Calming Construction



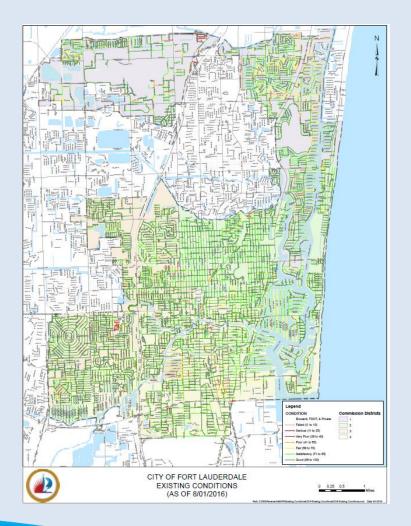
# Roads

#### <u>Overview</u>

- 525 miles of roadway under City jurisdiction
- Road conditions based on 2013 Pavement Condition Index (PCI):
  - ➢ Good (86 − 100) 212 miles
  - Satisfactory (71 85) 185 miles
  - ➢ Fair (56 − 70) 98 miles
  - Poor to failed (0 55) 30 miles

#### **Commission Priorities / Strategic Plan**

- Goal 2: Be a sustainable and resilient community.
  - Objective 1: Proactively maintain our water, wastewater, road, and bridge infrastructure.





## CITY OF FORT LAUDERDALE

## Roads

CIP	
PRIOR FY	\$169,431
FY2017	\$710,000
FY2018	\$710,000
FY2019	\$710,000
FY2020	\$710,000
FY2021	\$710,000
FIVE YEAR CIP TOTAL	\$3,719,431

#### **Active Projects**

Micro-surface 2014 through 2017

- Paved 69 of 98 miles of fair rating (PCI 56-70)
- Remaining 29 miles of fair rating (PCI 56-70) Mill and Overlay 2016 through 2017
- Paved 15 of 30 miles of poor rating
- Remaining 15 miles of poor to failed rating



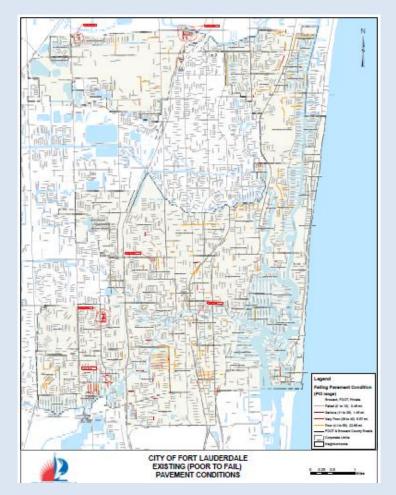
# Roads

#### **Issues / Challenges**

- Maintenance of pavers in major roadways
- Staff training on PCI
- Lack of funding and deferred maintenance
- Utility adjustments on FDOT projects

#### **Opportunities**

- Policy for use and maintenance of pavers on roadways
- Incorporate roadway paving with other types of projects (e.g., stormwater, sewer)
- Master agreement for utility adjustments with dedicated annual funding



# **Bridges**

#### **Overview**

- 51 City owned bridges
- Bridge Master Plan completed August 2014
- 2 bridges planned for replacement (Coconut Isle and South Ocean Drive)
- Bridges repaired
  - NE 55<sup>th</sup> Street Bridge
  - Laguna Terrace Bridge
  - South Gordon Bridge
- Bridges pending repair
  - Solar Plaza
  - NE 1<sup>st</sup> St
  - West Lake Drive

#### **Commission Priorities / Strategic Plan**

- Goal 2: Be a sustainable and resilient community.
  - Objective 1: Proactively maintain our water, wastewater, road, and bridge infrastructure.





# **Bridges**

#### <u>CIP</u>

PREVIOUS FY	\$3
FY2017	\$2
FY2018	
FY2019	
FY2020	
FY2021	
FIVE YEAR CIP TOTAL	\$

\$3,300,421 \$1,606,445 \$750,000 \$750,000 \$100,000 \$500,000 \$7,006,866

#### **Active Projects**

- Coconut Isle Bridge Replacement
- South Ocean Drive Replacement
- 2 Solar Plaza Bridge Repairs
- SW 11<sup>th</sup> Street Bridge Repair
- NE 1<sup>st</sup> Street Bridge Repair/Replacement
- West Lake Drive Bridge Replacement



Coconut Isle



# **Bridges**

#### **Issues and Challenges**

- Effects of salt and brackish water
- Tides and sea level rise impacts
- Aging infrastructure
- Access during improvements
- Tide and sea level rise impacts on structure and navigability

#### **Opportunities**

- Enhance level of service and reduce risk to traveling public
- Introduce new materials and processes



S Ocean Dr



# **Sidewalks**

#### **Overview**

- Sidewalk Inspection and Management System assessed 465 miles of sidewalks
- Identified 106 miles in need of repairs
- Damages compiled into 5 categories
  - C-1, Vertical displacement >1/4 inch
  - C-2, Wide cracks >1/8 inch
  - C-3, Vertical displacement < 1/4 inch</p>
  - C-4, Surface defects (concrete spalling)
  - C-5, Narrow cracks < 1/8 inch</p>



#### **Commission Priorities/Strategic Plan**

- Goal 1: Be a pedestrian friendly, multi-model City.
  - Objective 2: Improve transportation land use and planning to create a walkable and bikeable community



# **Sidewalks**

CIP	
PREVIOUS FY	\$2,878,797
FY2017	\$344,000
FY2018	\$0
FY2019	\$2,150,000
FY2020	\$1,400,000
FY2021	\$0
FIVE YEAR CIP TOTAL	\$6,772,797

UNFUNDED

\$5,936,378

#### **Active Projects**

- Sidewalk and ADA Ramps Bayview Dr between Sunrise Blvd and Oakland Park Blvd
- Sidewalk and Paver Brick Repairs
- Sidewalk and ADA ramp installation in CDBG eligible neighborhoods





## CITY OF FORT LAUDERDALE

# **Sidewalks**

#### **Issues/Challenges**

- Sidewalk maintenance responsibility
- Tree roots
- Current funding level for repairs

#### **Opportunities**

- Amend the Code of Ordinances to clarify responsibility for repair
- Streamline enforcement procedures for private sidewalk repairs
- New sidewalks





## CITY OF FORT LAUDERDALE

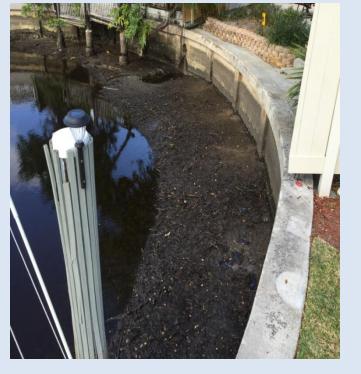
# **Canal Dredging**

#### **Overview**

- 101 miles of canals within City limits
- 55 miles City owned
- 13.5 miles need dredging based on 2011 Marine Advisory Board accepted canal dredging criteria
- Rate study contract awarded November 2016

#### **Commission Priorities and Strategic Plan**

- **Goal**: Be a sustainable and resilient community
- **Objective**: Proactively maintain our water, wastewater, road and bridge infrastructure
- Strategic Initiative: Conduct an analysis of canal dredging needs and examine funding scenarios





# **Canal Dredging**

CIP	
PRIOR FY	\$373,135
FY2017	\$0
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
FIVE YEAR CIP TOTAL	\$373,135

#### **Active Projects**

Citywide Waterway Surveys Masterplan





## CITY OF FORT LAUDERDALE

# **Canal Dredging**

#### Issues and Challenges

- Implementation of fee schedule to cover annual dredging costs
- Local dry site locations for material disposal
- Environmental considerations

#### **Opportunities**

- Increase in accessible and navigable waterways
- Reduce flood risk
- Improve storm water drainage and runoff
- Stimulate aquatic life
- Beneficial use of dredging material
- Water quality improvements







## CITY OF FORT LAUDERDALE

# **Facilities**

#### **Overview**

- 146 major buildings
  - 1,232,825 sq.ft. total living area
  - ➢ 862,115 sq.ft of roofing
  - ➢ 36 facilities built prior to 1971
- 104 parks with different structures
- Roughly 2000 City owned street lights and an unknown number of pedestrian lights throughout the City

#### **Commission Priorities/Strategic Plan**

- Goal 3: Be a community that finds opportunities and leverages partnerships to create unique, inviting, and connected gathering places that highlight our beaches, waterways, urban areas, and parks
  - Objective One: Improve access to and enjoyment of our open spaces for everyone. In the next five years improve the landscape, level of maintenance and attention paid to our public spaces



# **Facilities**

#### <u>CIP</u>

- \$58,721,000 unfunded infrastructure needs identified in Parks Master Plan over the next ten years.
- \$4,500,000 in current budget available
- \$10,475,000 identified needs through 2020 in facility assessment
- (General Funded only excluding police, aquatic center)
  - \$812K in roofs
  - \$3.5 million in Air Conditioner Repair/Replacement

#### **Active Projects**

- War Memorial Electrical Improvements
- New River Electrical Improvements
- Air-conditioning replacement: DSD, Fire Station #2, City Hall Data Center, War Memorial

- Fire Bond Projects (Stations 8, 13, & 54)
- Mills Pond Soccer & Lacrosse Fields



# **Facilities**

#### **Issues/Challenges**

- 40 year inspections to certify buildings continue to meet life safety minimums (roofs, structure, electrical systems, etc)
- Budgeting for upcoming improvements and unexpected required repairs.
- Retaining resources and design teams to meet these challenges.
- Repair/replace decisions

#### **Opportunities**

- Improving amenities for the use by neighbors
- Safeguarding facilities against threats; natural or man-made
- Improving efficiency of facilities through improved technologies and new materials
- Replacement Police Station





# **Parking System Fund**

(In Millions)

	FY 2017	
	Α	dopted
Revenues	\$	17.8
Operating Expenditures	\$	15.8
Community Investment Plan (CIP)	\$	1.6
CIP as a percent of Operating Expenses		<b>10.0%</b>
Fund Balance In Millions	\$	2.6
Fund Balance as a percent of total Operating Expenditures <sup>1</sup>		<b>16.6%</b>
Fund Balance in days		60

<sup>1</sup> It is the policy of the City that the Parking System Fund requires a minimum available fund balance of 45 days or 12.5% of the Parking System Fund operating budget.



# Parking

In order to address the increase parking needs of our neighbors the City has allocated 1.6 million dollars in CIP Parking projects including:

- City Park Garage Rehabilitation and Signage
- CPG and PACA Garage Lighting Improvements
- Sustainable Parking Lot Improvements
- South Andrews Parking Space and Meter Installation
- Mobile Parking Enforcement
- City Park Garage Structural Repairs
- And more....





## CITY OF FORT LAUDERDALE

# **Airport Fund**

(In Millions)

	F	Y 2017
	F	Adopted
Revenues	\$	8.5
Operating Expenditures <sup>1</sup>	\$	8.1
Community Investment Plan (CIP)	\$	1.1
CIP as a percent of Operating Expenses		<b>13.6%</b>
Fund Balance In Millions	\$	12.6
Fund Balance as a percent of total Operating Expenditures <sup>2</sup>		<b>156.0%</b>
Fund Balance in days		562

<sup>1</sup>Adopted operating expenditures were decreased by \$1.3 million to remove the Airport Payment in lieu of taxes (PILOT) payment.

<sup>2</sup> It is the policy of the City that the Airport Fund requires a minimum available fund balance of 45 days or 12.5% of the Airport Fund operating budget.



# Airport

#### <u>Overview</u>

- Two runways w/ fifteen taxiways
- Navigational aides, guidance signs & lights
- 24-Hour Air Traffic Control Tower
- Aircraft Rescue & Fire Fighting Facility
- Administration Building
- U.S. Customs & Border Protection Facility
- Observation Area
- Aviation Equipment & Service Facility
- 900 acre property w/ 200-Acre Industrial Park

#### **Commission Priorities and Strategic Plan**

- Operate, maintain, and improve the Airport and Downtown Helistop in a manner that optimizes safety, security and efficiency.
- Serve the aviation needs of the citizens while addressing community and neighborhood issues related to the Airport.





## Airport

<u>CIP</u>	
PREVIOUS FY	\$8,818,463
FY2017	\$6,260,001
FY2018	\$4,035,836
FY2019	\$5,433,820
FY2020	\$3,340,753
FY2021	\$2,820,530
FIVE YEAR CIP TOTAL	\$31,021,203



#### **Active Projects**

Taxiway Foxtrot Pavement Rehabilitation Master Plan Update Taxiway Intersection Improvements Administration Building Renovation Electrical Vault Improvements Relocate Taxiway Foxtrot



## CITY OF FORT LAUDERDALE

# Airport

#### **Issues/Challenges**

- Limited areas for tenant development
- Zoning restrictions limit the airport to developed properly
- Runway length limits types of aircraft that can use the airport

#### **Opportunities**

- Deploying technological advancements to improve Airport efficiencies
- Exploring new avenues to generate nonaviation revenue
- Promotion of Airport business incentives and Foreign-Trade Zone 241
- Develop Sustainability Management Plan
- Update Airport Master Plan to determine future development options





## CITY OF FORT LAUDERDALE

# **Stormwater Fund**

(In Millions)

	F۱	( 2017
	Α	dopted
Revenues	\$	11.9
Operating Expenditures	\$	7.5
Community Investment Plan (CIP)	\$	6.5
CIP as a percent of Operating Expenses		<b>87.1</b> %
Fund Balance In Millions	\$	1.3
Fund Balance as a percent of total Operating Expenditures <sup>1</sup>		<b>17.8%</b>
Fund Balance in days		64

<sup>1</sup> It is the policy of the City that the Stormwater Fund requires a minimum available fund balance of 45 days or 12.5% of the Stormwater Fund operating budget.



## **Stormwater Utility**

#### **Overview**

- 171 miles of storm pipe
- 2,324 manholes
- 1,258 outfalls
- 37 drainage wells
- 8,288 catch basins
- 116 tidal valves

#### **Commission Priorities / Strategic Plan**

#### Goal 2: Be a sustainable and resilient community

- Objective 2: Reduce Flooding and adapt to sea level rise
- Objective 3: Improve climate change resiliency by incorporating local and regional plans

After

**Before** 





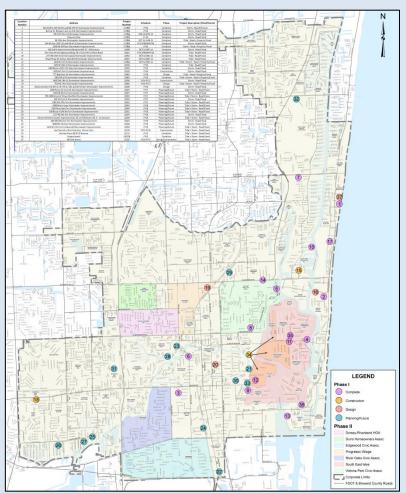
## CITY OF FORT LAUDERDALE

# **Stormwater Utility**

<u>CIP</u>	
PREVIOUS FY	\$10,367,759
FY2017	\$6,523,597
FY2018	\$1,811,579
FY2019	\$3,021,957
FY2019 (revenue bond)	\$148,200,000
FY2020	\$582,538
FY2021	\$1,971,000
FIVE YEAR CIP TOTAL	\$172,474,430

#### Stormwater Master Plan (FY 2014- FY2024)

- Phase I 37 CIP Projects
- Phase II Modeling & Design of 7 Neighborhoods
- Phase III Construction of Phase II projects





## CITY OF FORT LAUDERDALE

## **Stormwater Utility**

#### **CIP Projects**

777 Bayshore DR – \$766,000 915 NE 3<sup>rd</sup> AVE - \$708,280 1436 Ponce De Leon DR - \$340,000 700 – 1000 Block of W Las Olas BLVD - \$272,000 Riverland Road @ SW 27<sup>th</sup> TER - \$170,000

#### **Issues / Challenges**

- Sea level rise impacts
- Funding for Phase II Master Plan projects
- Increased funding for maintenance

#### **Opportunities**

- Stormwater Master Plan is a citywide planning and design tool
- Acquisition of an asset management system
- Utility fee increase





## CITY OF FORT LAUDERDALE

# Water and Sewer Fund

(In Millions)

	F۱	<b>í 2017</b>
	Α	dopted
Revenues <sup>1</sup>	\$	111.0
Operating Expenditures	\$	109.2
Community Investment Plan (CIP)	\$	16.0
CIP as a percent of total Expenses		<b>14.6%</b>
Fund Balance In Millions	\$	25.1
Fund Balance as a percent of total Operating Expenditures <sup>2</sup>		<b>23.0%</b>
Fund Balance in days		83

<sup>1</sup> Water and Sewer revenues are reduced by sewer charges paid to the Central Region Fund as a Large User.

<sup>2</sup> It is the policy of the City that the Water and Sewer Fund requires a minimum available fund balance of 90 days or 25.0% of the Water and Sewer Fund operating budget.



# **Central Region/Wastewater Fund**

(In Millions)

	F۱	( 2017
	Adopted	
Revenues	\$	27.3
Operating Expenditures	\$	19.4
Community Investment Plan (CIP)	\$	7.8
CIP as a percent of total Expenses		40.4%
Fund Balance In Millions	\$	2.3
Fund Balance as a percent of total Operating Expenditures <sup>1</sup>		<b>11.6%</b>
Fund Balance in days <sup>2</sup>		42

<sup>1</sup> It is the policy of the City that the Central Region/Wastewater Fund requires a minimum available fund balance of 90 days or 25.0% of the Central Region/Wastewater Fund operating budget.

<sup>2</sup> At the close of each fiscal year the Large Users are refunded or charged based on actual system expenses and usage.



## Water and Sewer Charges

Effect of each 1% Monthly Increase for Neighbors (Based on Average usage of 5,000 gallons/month)

5/8 Inch Meter	Current Rate	Proposed Rate	\$ Change	% Change
Water Charge (monthly)	\$22.46	\$22.68	\$0.22	1%
Sewer Charge (monthly)	\$37.63	\$38.01	\$0.38	1%
Total (monthly)	\$60.09	\$60.69	\$0.60	1%
Water and Sewer Charges (annual)	\$127,000,000	\$128,163,652	\$1,163,652	1%

\* May be slightly lower than 1% due to elasticity adjustment related to consumption



# **Water Utility**

#### **Overview**

Potable Water System

- Fiveash Regional Water Treatment Plant (70 MGD)
- Peele-Dixie Water Treatment Plant (12 MGD)
- Poinciana Park water tank and pump station
- NW 2<sup>nd</sup> AVE water tank and pump station
- 18,672 valves and 783 miles of water main pipe
- 37 water supply wells

#### **Commission Priorities / Strategic Plan**

- Goal 2: Be a sustainable and resilient community
  - Objective 1: Proactively maintain our water, wastewater, road, and bridge infrastructure
  - Objective 6: Secure our community's water supply



**Fiveash Water Treatment Plant** 



## CITY OF FORT LAUDERDALE

# Water Utility

CIP	
PREVIOUS FY	\$38,734,357
FY2017	\$7,079,836
FY2018	\$11,971,556
FY2019	\$10,733,221
FY2020	\$14,786,244
FY2021	\$6,549,073
FIVE YEAR CIP TOTAL	\$72,626,577
UNFUNDED	\$43,787,662



#### **CIP Projects**

Relocation of 16" WM at East Las Olas - \$4,241,819 Lake Estates Small Water Mains - \$2,424,011 FDOT Broward Blvd Bridge 30" WM Replacement - \$392,865 Port Condo Large Water Main Improvements - \$671,278 Fiveash Reliability Upgrades - \$30,756,977

# Water Utility

#### **Issues / Challenges**

- Aging infrastructure
- Increased development and residential demand
- Plant rehabilitation
- Evaluation and rehabilitation/replacement of 18,672 valves and 783 miles of pipe
- Increased maintenance funding

#### **Opportunities**

- Utility master plan
- Acquisition of an asset management system
- Utility fee increase





## CITY OF FORT LAUDERDALE

# **Sewer Utility**

#### <u>Overview</u>

- George T. Lohmeyer Wastewater Treatment Plant (56.6 MGD permitted capacity)
- 186 pump stations and 3 re-pump stations
- 1,150 valves and 135 miles of pressurized force main
- 368 miles of gravity and low pressure sewer mains
- Service provided to 250,000 people

## Commission Priorities / Strategic Plan

#### Goal 2: Be a sustainable and resilient community

- Objective 1: Proactively maintain our water, wastewater, road, and bridge infrastructure
- Inflow and Infiltration Reduction (\$10,370,392 budgeted in FY2017)







# **Sewer Utility**

# CIPPREVIOUS FY\$3FY2017\$1FY2018\$1FY2019\$1FY2020\$1FY2021\$2FIVE YEAR CIP TOTAL\$15

\$38,662,719 \$16,755,276 \$15,528,909 \$13,961,329 \$13,098,176 \$21,162,293 \$153,047,285

UNFUNDED

\$61,540,625

#### **CIP Projects**

Victoria Park Sewer Basin A-19 Rehab - \$1,620,912 Flagler Heights Basin A-21 Rehab - \$931,144 Downtown Sewer Basin A-7 Rehab - \$1,156,197 PS B-10 Rehabilitation - \$1,441,006 PS A-12 Rehabilitation - \$1,409,082





## CITY OF FORT LAUDERDALE

# **Sewer Utility**

#### Issues / Challenges

- Aging/deteriorating infrastructure
- Environmental violations
- Budget for Inflow and Infiltration Reduction
- Increased development and residential demand
- Evaluation and rehabilitation/replacement of 1,150 valves and 135 miles of force main pipe
- Increased funding for repair, replacement, and maintenance

#### **Opportunities**

- Utility master plan
- Acquisition of an asset management system
- Utility fee increase





## CITY OF FORT LAUDERDALE

## **Summary**

We are making significant infrastructure advances over the next five years to ensure the sound infrastructure necessary for future growth and economic prosperity.

Our strategic community investments, considering adaptation and resiliency, are important now and for future generations.

There are challenges with aging infrastructure and increasing maintenance needs, however our Community Investment Plan balances maintenance and infrastructure investments to provide for the long term needs of our neighbors.

