

Fort Lauderdale: Sustainability and Resiliency Initiatives

CITY OF FORT LAUDERDALE Nancy J. Gassman, Ph.D.
Sustainability Advisory Board Public Forum

Sustainability and Climate Resilience

AWARDS	INITIATIVES	PERFORMANCE METRICS
 	 	 20% BY 2020 2010-2018, ↓16% Greenhouse Gas Emissions 2013-2019, ↑5% Tree Canopy

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Fleet Services

AWARDS	INITIATIVES	PERFORMANCE METRICS
 Vehicle Tracking Program	 	 Since 2010, fuel usage ↓ while Fleet inventory ↑ 8% fleet are low emission vehicles

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Solid Waste and Recycling

AWARDS	INITIATIVES	PERFORMANCE METRICS
 Winner 2015 Honorable Mention 2017	 Recycling Contamination Reduction 	38% total residential waste stream diverted From 2015-2019, recouped \$200,179 for scrap metal diversion


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Stormwater Operations

<p><u>INITIATIVES</u></p> <ul style="list-style-type: none"> Watershed Asset Management Stormwater Master Plan implementation* Street sweeping Program Tidal Valve Program Save our Swales Program 	<p><u>PERFORMANCE METRICS</u></p> <p>All 165 tidal valves inspected and maintained quarterly.</p> <p>Cleaning ~50% of our 9,000 catch basins annual.</p> <p>Removal of 3.5 M pounds of debris thru Street Sweeping</p>
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TIDAL VALVES



SEAWALL REPAIRS & UPGRADES


* Commission Priority for FY2019




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Environmental And Regulatory Affairs

<p><u>INITIATIVES</u></p> <ul style="list-style-type: none"> Environmental Inspections (500/month) Monitoring for Algal Blooms* NPDES –Protect environmental water quality* Backflow prevention to protect the potable water supply Environmental Permit Tracking 	<p><u>PERFORMANCE METRICS</u></p> <p>Steward 214 environmental permits, tracking compliance with permit conditions.</p> <p>Assures proper reporting to regulatory agencies.</p>
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* Commission Priorities for FY2019





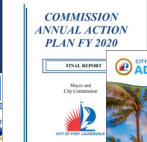





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A Culture of Resiliency


GOAL: To be a sustainable and resilient community

Objective: Reduce flooding and adapt to sea level rise



2020-2024



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Master Planning for Resiliency

Seawalls



Stormwater



Utilities



Parks



Comprehensive Utility Strategic Master Plan



CLIMATE CHANGE



FAKES AN SYSTEM



ADOPTED COMMUNITY INVESTMENT PLAN



2020-2024

Investments in Resiliency

↑

Cemetery



FORT LAUDERDALE CEMETERY MASTER PLAN



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How do you Fund Resiliency?

- **Revenue Bonds**
 - Water/Sewer Utility
 - Stormwater Utility
 - Utility Fees
 - (R. Bond Debt Service)
 - Special Revenue Funds
 - Impact Fees
 - Grant Funding
 - Energy Service Contracts
 - Operating funds
- **General Obligation Bonds**
 - Authorized by the Public
 - Property Tax
 - (G.O. Bond Debt Service)
 - Property Tax Millage
 - Special Assessments
 - Private Investment
 - p³



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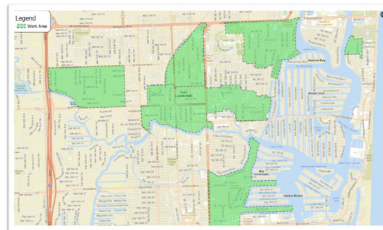


Inflow/Infiltration (I/I)

Most cost-effective method to improve the level of service for a wastewater utility while addressing rising groundwater

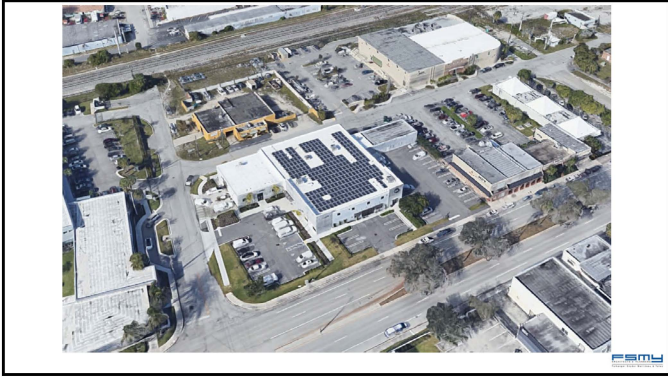
I/I program highlights:

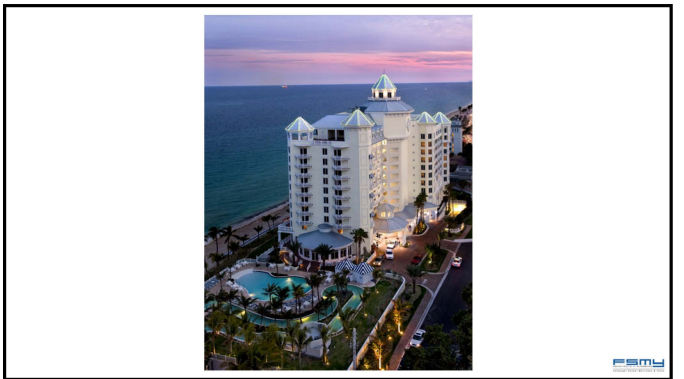
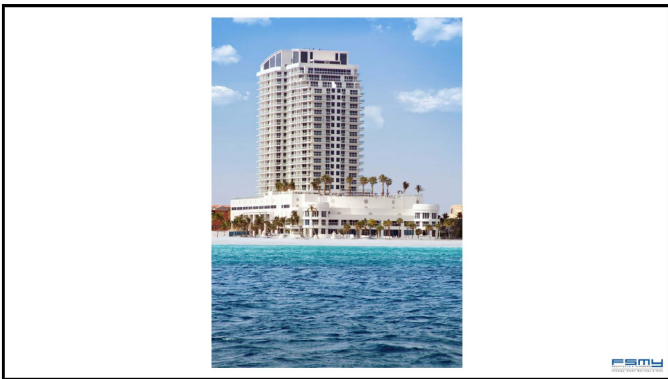
- Lowers risk of sewer backups
- Reduces investment in larger pipes and facilities
- Improves public health and environment by reducing overflows
- Six critical basins
- 216,000 feet (41 miles) with over 4,300 laterals to be completed by September 2020



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PUBLIC WORKS DEPARTMENT









Mr. Joe O'Donnell, Owner Parrot Lounge Fort Lauderdale, FL

- Plastic Free Restaurant
- Voluntary Commercial Recycling

OCEAN FRIENDLY RESTAURANTS
JUNE 26 2019
Ocean Friendly Restaurant Spotlight:
Parrot Lounge in Fort Lauderdale



Parrot Lounge become the first Ocean Friendly Restaurant in Broward

Ms. Shannon Estenoz, Vice President of Policy & Public Affairs/Chief Operating Officer for the Everglades Foundation. Shannon Estenoz's Everglades career spans twenty-one years, during which she served as the Executive Director of the Environmental and Land Use Law Center, the Everglades Program Director for the World Wildlife Fund and the Sun Coast Regional Director for the National Parks Conservation Association. Shannon served three terms as the National Co-Chair of the Everglades Coalition, including during the authorization of the Comprehensive Everglades Restoration Plan (CERP). Shannon served on Governor Lawton Chiles' Commission for a Sustainable South Florida and Governor Jeb Bush's Commission for the Everglades. In 2007, Governor Charlie Crist appointed Shannon to represent Broward County on the Governing Board of the South Florida Water Management District where she served as Vice Chair of the Board, Chair of the Water Resources Advisory Commission, founding Chair of the Broward Water Resources Task Force, and a member of the Broward County Water Advisory Board. During Shannon's tenure on the Governing Board, the District purchased 27,000 acres of land in the Everglades Agricultural Area for Everglades restoration and placed another 150,000 acres under option for purchase.

In 2010, Shannon was appointed by the US Department of the Interior Secretary, Ken Salazar, as the Department's Director of Everglades Restoration Initiatives, where she served as the Secretary's senior representative in Florida coordinating the Department's restoration programs and served as the Executive Director of the South Florida Ecosystem Restoration Task Force. During her tenure at the Department of the Interior, Shannon played a key leadership role in the conceptualization, initiation and completion of the Central Everglades Planning Project (CEPP). She also led the effort to secure a \$90 million partnership with Governor Rick Scott for the construction of a 2.6-mile bridge on Tamiami Trail (US Highway 41) to allow water to flow into Everglades National Park. In her role as Executive Director of the South Florida Ecosystem Restoration Task Force, Shannon convened, moderated or led numerous interagency negotiations over issues including water quality, listed species, operations, policy, project budgets and project planning. Shannon regularly delivers public addresses, speeches, testimony and presentations about the Everglades to elected officials, civic and professional organizations, foreign dignitaries and visitors, and at academic and professional conferences. Shannon also has extensive experience briefing decision-makers on Everglades policy, including two Governors, three Interior Secretaries, numerous members of Congress, and the Vice-President and President of the United States.

For her contributions to the Everglades, Shannon received the 2016 Ecological Society of America Regional Policy Award, the 2010 Marjory Stoneman Douglas Environmental Award from Friends of the Everglades, the 2010 Champion of the Everglades Award from Audubon of Florida, the 2009 George Barley Conservationist of the Year Award from the Everglades Coalition, the 2003 Conservationist of the Year Award from the Florida Wildlife Federation and a 2000 National Wetland Award from the Environmental Law Institute. Shannon is a fifth generation native of Key West, Florida. She holds degrees in International Affairs and Civil Engineering from Florida State University, and is expected to complete a PhD in Public Administration from Florida Atlantic University in the summer of 2018. She and her husband Richard Grosso have lived in Broward County for 24 years and have two sons – Nick, a freshman at Carnegie Mellon University in Pittsburgh, PA; and Spencer, a freshman at Nova High School in Davie, Florida.

Dr. Nancy J. Gassman received her Ph.D. from the University of Miami researching a variety of issues impacting coastal ecosystems. Her public service started with Broward County, Florida, in 1995 working on integrated water resources planning. She transitioned to directing the county's environmental monitoring program, including fostering construction of a LEED-certified environmental chemistry laboratory. Her main focus from 2009-2013 was supporting the development and implementation of

Broward County's Climate Change Action Plan and managing the County's Energy and Sustainability Program. She has been a major contributor to developing technical tools for the Southeast Florida Regional Climate Change Compact including the Unified Sea Level Rise Projection for Southeast Florida. In January 2014, she joined the City of Fort Lauderdale. As the Assistant Public Works Director for Sustainability, she provides program oversight for Fleet Services; Solid Waste and Recycling; Stormwater Operations; Environmental and Regulatory Affairs; and Sustainability and Climate Resilience. In her current role, she is implementing sustainability, climate mitigation and adaptation strategies within government operations and throughout the City. She regularly presents on the City's integration of sustainability and resiliency into the organizational culture, infrastructure master plans, ordinances and policies.

Mr. Jiro Yates received his Bachelor of Design with Honors in 1990 from the University of Florida and his Master of Architecture with Honors in 1995 also from the University of Florida. Mr. Yates attended the Vicenza Institute of Architecture in 1995 in Italy and has accomplished independent studies in Japan. As a Florida registered architect and the Vice President and Director of Design for FSMY Architects & Planners for over 25 years, he has completed projects in Fort Lauderdale including Tower 101, Strada 315 Condominiums, Pelican Grand Beach Resort, Hilton Fort Lauderdale Beach Resort, Westin & Sheraton Fort Lauderdale Beach Resort, BMW of Fort Lauderdale, and Riva Condominiums. He currently has several projects under construction and in development including SIX13 Apartments on Sistrunk, 550 Office Building, Society Las Olas, and Dunes Hotel Fort Lauderdale Beach. Mr. Yates is currently involved in the redevelopment of the Searstown site, bringing the new RK Center to Fort Lauderdale. Mr. Yates has been published in several local publications including HOME Fort Lauderdale, Travelhost Fort Lauderdale, Tropic Magazine Fort Lauderdale, as well as the Journal of Architectural Education. He was awarded the Florida AIA Bronze medal and has been a Greater Fort Lauderdale Chamber of Commerce Salute to Business Winner. Since 1977, FSMY has been a full-service architectural firm that provides a wide variety of design services ranging from commercial, residential, medical, educational, financial and industrial projects, with a majority of their work coming from referrals. FSMY recruits and maintains the best young talent and couples them with the vast experience of its principals to provide innovative, sustainable designs anchored in pragmatic values.

Mr. Joe O'Donnell, owner of The Parrot Lounge. Just off Ft. Lauderdale's idyllic sandy beachfront where snowbirds and locals come to worship our Florida sunshine, you'll find the The Parrot Lounge. This vintage beach pub is a local institution with a strong community of locals and annual visitors who are faithful patrons. It's been open since 1978 and Mr. O'Donnell has been the owner of the Parrot for the last four years. His kids grew up in the ocean where his son is a lifeguard. He and his family have been a part of beach cleanups in the past and he didn't realize just how bad the plastic trash was until recently. He began seeing the impact of plastics on his local beaches but also started learning about how they're impacting our planet from local newspapers, news media, and online sources. He took action and thanks to Mr. O'Donnell, the restaurant and bar has eliminated all plastic products and switched to paper.