

# WATER QUALITY BISCAYNE BAY TASK FORCE

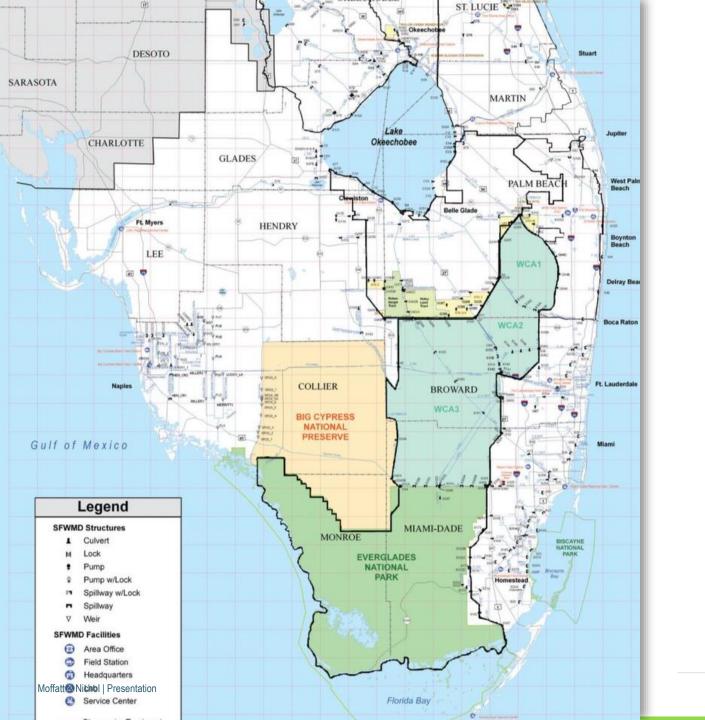
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Lynette Cardoch, PhD Task Force Member Director, Resilience & Adaptation, Moffatt & Nichol

## Coastal and Inland Waterways







## **One System**







Miami Herald, 09/08/2019







SEPTIC



Image Courtesy of Miami Waterkeeper

SEWER

Image Courtesy of Miami Waterkeeper

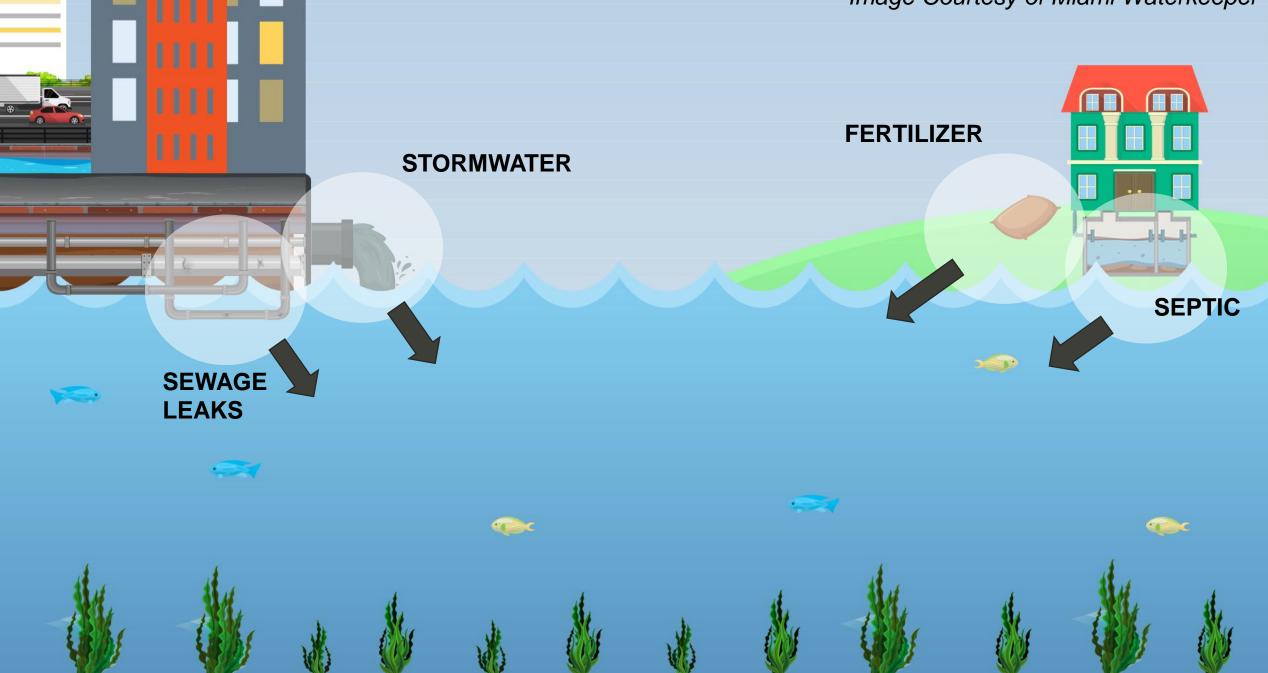
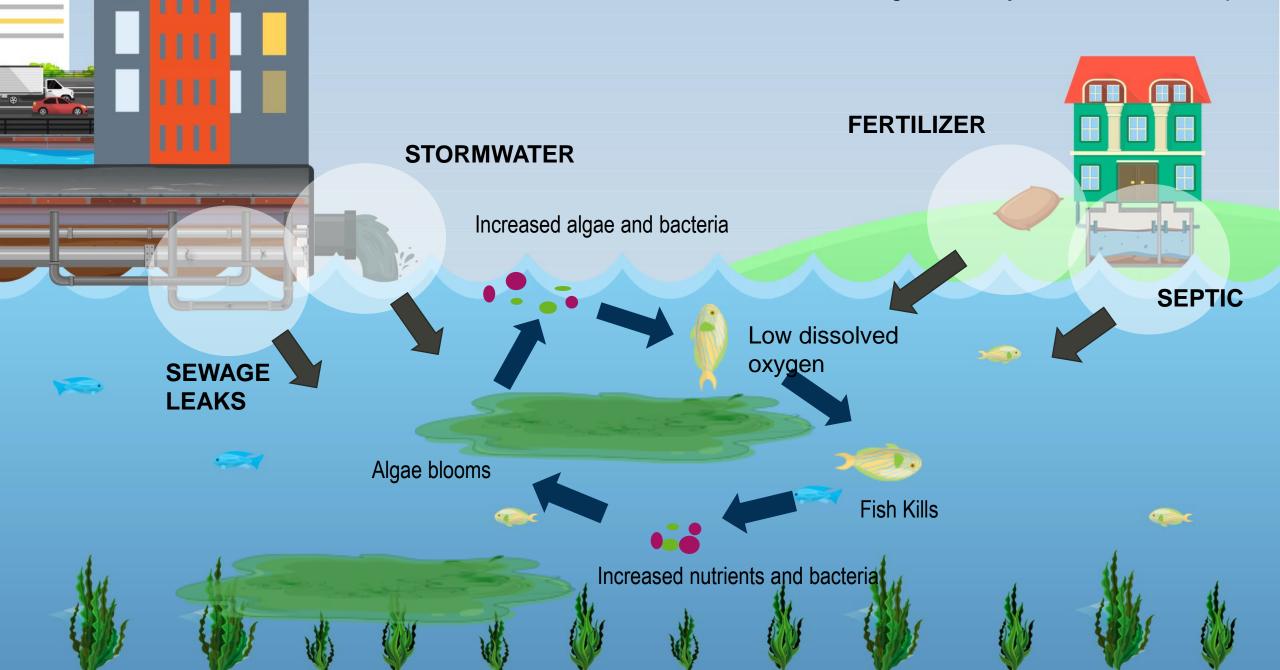


Image Courtesy of Miami Waterkeeper



## **Task Force**



- Created February 2019
- > Convened June 2019
- > 18 meetings
- **35 presentations**

# **7 Policy Themes**



Water quality



Watershed habit / natural infrastructure





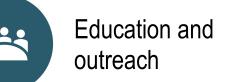
Governance



Marine debris



Infrastructure





# Water Quality

The activities on Biscayne Bay

2004 contributed about

## \$12.7 billion

in additional county production

## \$6.3 billion

In income to county residents

**137,600** jobs

## \$627 million

in tax revenue to Miami-Dade County

Reducing pollution reduces stress to our coastal ecosystems allowing them to regain their ability to bounce back from impact and provide more physical and economic protection for coastal communities



# Water Quality

## These values represent

**10%** of all income earned in the county

## 11%

of employment in the county

## 11%

of all excise taxes, property taxes, fees, licenses, and sales tax revenues collected in the county OVERARCHING RECOMMENDATIONS: UNIFIED & COLLABORATIVE APPROACH TO WATERSHED RESTORATION

Watershed Management Board Chief Bay Officer Watershed Restoration Plan



Summary of Biscayne Bay Task Force Recommendations



Working Together, We Can Help Save Biscayne Bay. Biscayne Bay is in trouble. Seagrass, the foundation of all life in the Bay, is dying. Scientists have studied Biscayne Bay's fragile ecosystem and have issued a call to action. We, the 2.8 million people who live and call Miami-Dade home, must answer that call.

## Biscayne Bay Actions Steps to Recovery

Benchmark Immediate (I) Short-Term (S) Mid-Term (M) Less than one year Between one and three years

## Action Type

Actions that can be accomplished additional policy considerations

Actions that require additional policy considerations



## A Unified Approach to Recovery for a Healthy & Resilient Biscayne Bay Biscayne Bay Task Force Report and Recommendations

June 2020

### **Biscayne Bay Task Force Members**

Irela Bagué, Task Force Chairperson, President, Bagué Group David Martin, Task Force Vice Chairperson, President, Terra Group Lynette Cardoch, Ph.D., Director of Resilience & Adaptation, Moffatt & Nichol Lee Hefty, Director, Division of Environmental Resources Management, Miami-Dade County James Murley, Chief Resilience Officer, Office of Resilience, Miami-Dade County John Pistorino, P.E., Principal, Pistorino and Alam Alyce Robertson, Executive Director, Downtown Development Authority Steve Sauls, Biscayne Bay Marine Health Summit Steering Committee Member Tiffany Troxler, Ph.D., Director of Science, Sea Level Solutions Center, Florida International University

# Education and Outreach to Help Citizens and Visitors Learn How to Protect Biscayne Bay

EDUCATION AND OUTREACH		
6A	Create a multi-lingual, multi-media campaign and educational outreach program	Immediate (I)
6B	Leverage the funding in the Community Based Organization grant program to create a special focus on Biscayne Bay education	Short-Term (S)
6C	Conduct an educational campaign to inform the public on the proper and improper ways to dispose of trash and the impacts of littering and marine debris to the health and management of Biscayne Bay	Immediate (I)
6D	Implement policies to reduce the amount of locally generated plastic marine debris	Short-Term (S)
6E	Build upon and increase volunteer clean-up activities county-wide	Immediate (I)
6F	Develop environmental sustainability and "plastic free" best practices	Short-Term (S)
6G	Support a "Living Laboratory for Bay Health"	Short-Term (S)
6H	Develop and implement a contractor and lawn care industry training program	Short-Term (S)
61	Expand the scope of Baynanza to add year-round activities and collaborate on Biscayne Bay Marine Health Summit activities.	Immediate (I)



# **Time for Action**

- > Environment = economy
- > Previous successful efforts
- > Watershed approach
- > No regrets



A Unified Approach to Recovery for a Healthy & Resilient Biscayne Bay Biscayne Bay Task Force Report and Recommendations June 2020

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