

# Water Supply Protection Rules for Biscayne Bay and the Caloosahatchee River

December 15, 2011

Governing Board Meeting

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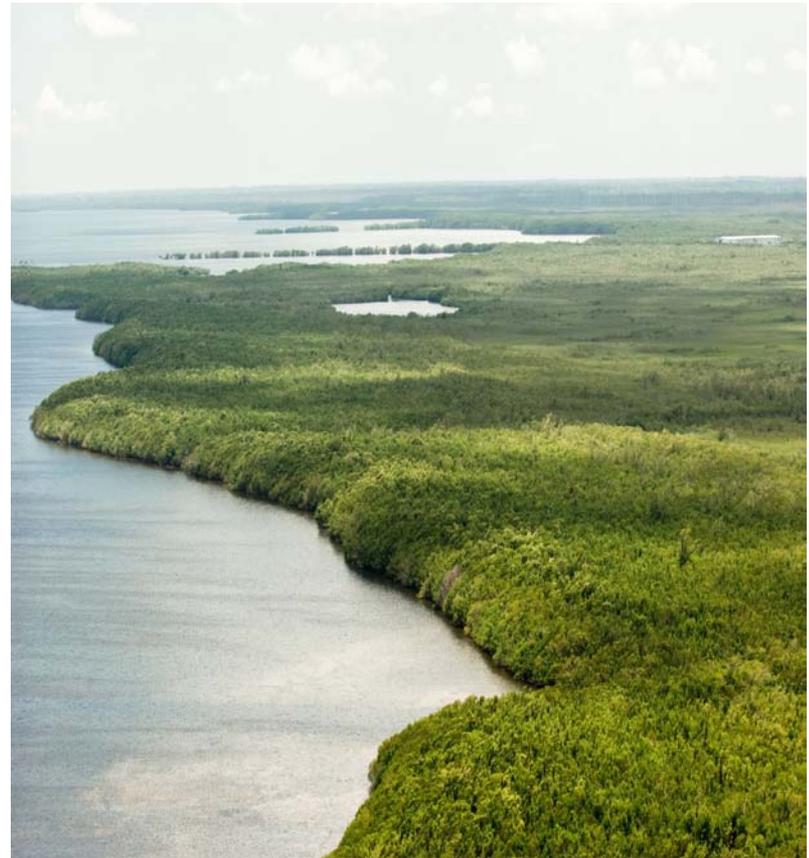
# Presentation Overview

- Options for Rule Application to Biscayne Bay and the Caloosahatchee Estuary
- Summary of Comments Received from Stakeholders
- Seek Governing Board Direction on Scope of Water Supply Protection Rules for Biscayne Bay and the Caloosahatchee River



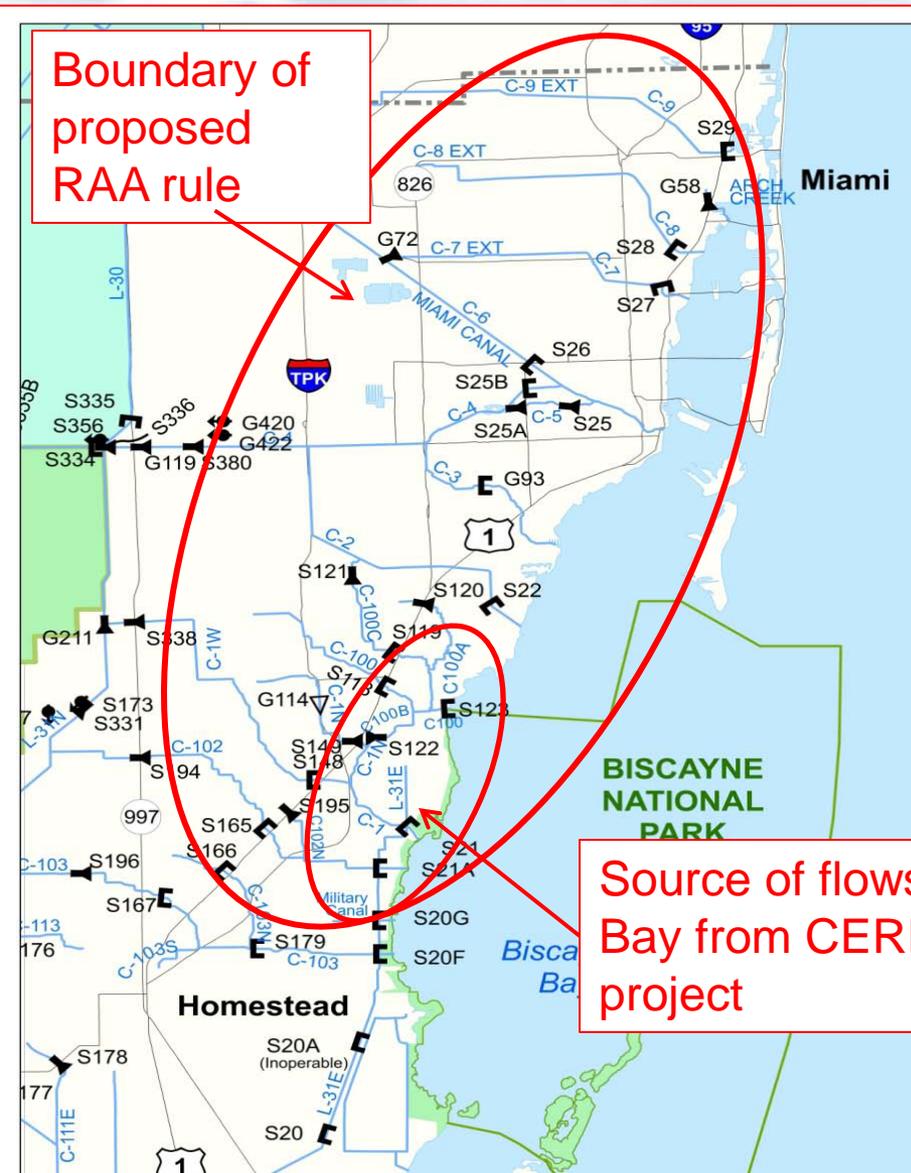
# Protecting Water for Biscayne Bay – Current Considerations

- Protect water for the CERP Biscayne Bay Coastal Wetlands Project
- Protect existing surface water flows to Biscayne Bay
- Phased approach possible



# Options for Biscayne Bay Water Protection

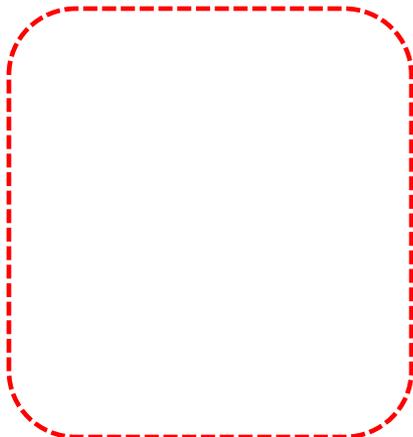
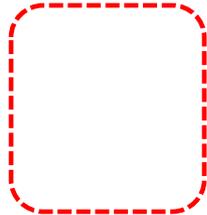
Boundary of proposed RAA rule



Source of flows to Bay from CERP project

- Protect the existing surface water flows from the S-29 at C-9 Canal South to S-22
- Tool: Restricted Allocation Area Rule

# Options for Biscayne Bay Water Protection



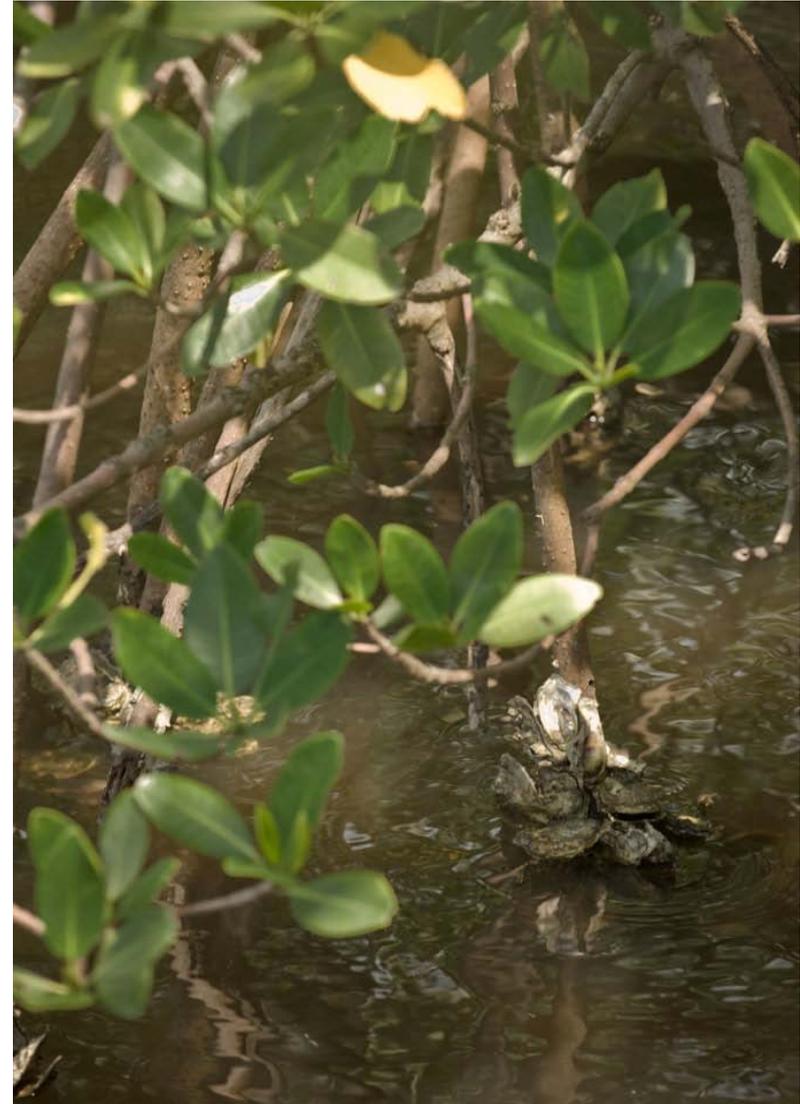
- Protect the existing surface water flows identified in the Biscayne Bay Coastal Wetlands PIR: S-123, S-21, S21A, S-20G & S-20F
- Tool: Project Water Reservation Rule
- Project features covered:
  - Deering Estates
  - Cutler Flow Way
  - L-31E Flow Way

# Options – Biscayne Bay Water Protection

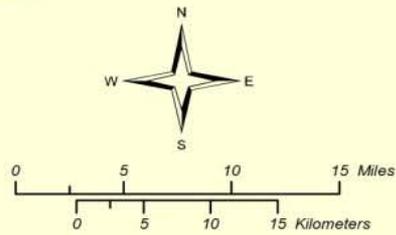
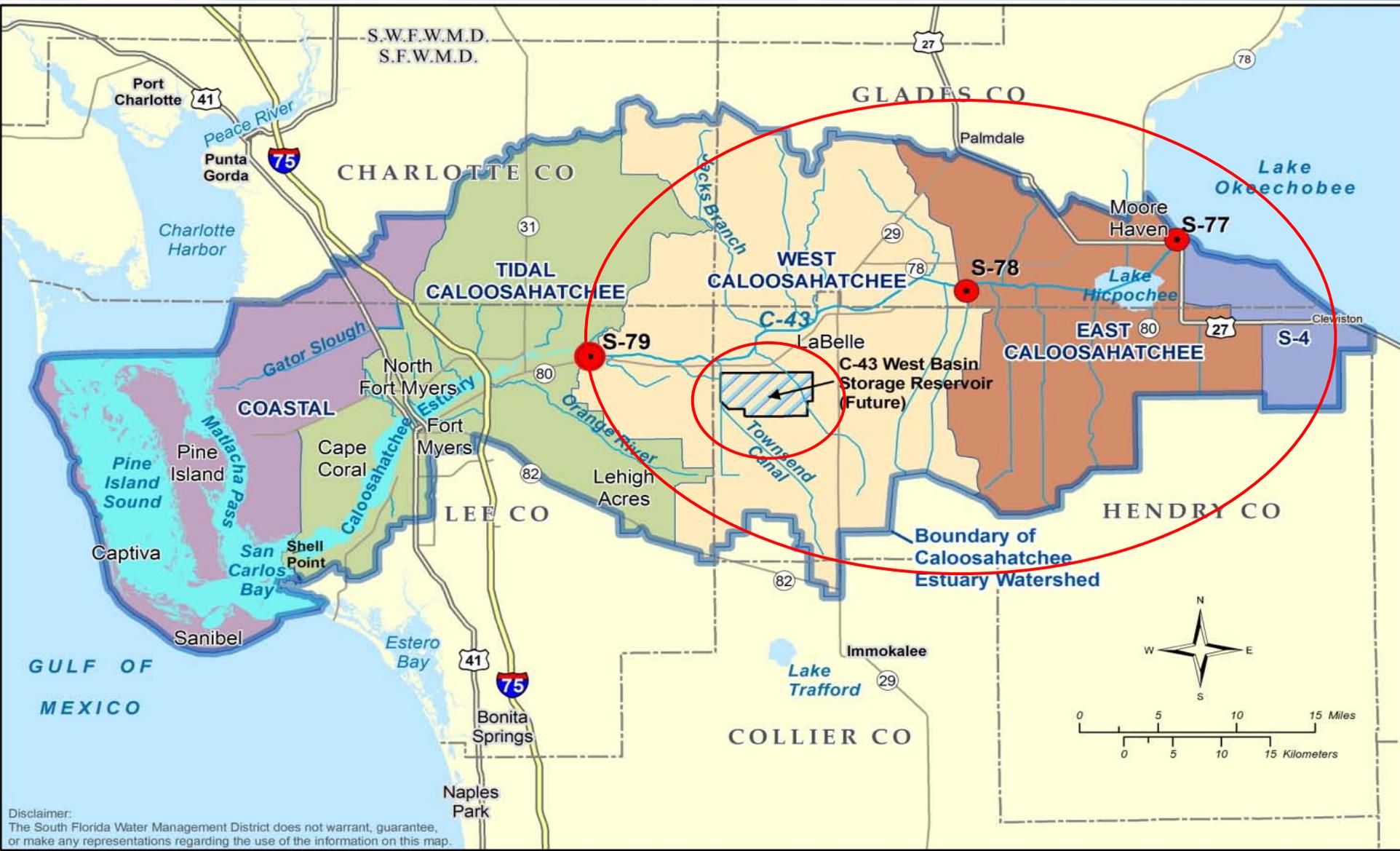
Factors	CERP Project Only Reservation	Reservation	Restricted Allocation Rule
<b>Fish &amp; Wildlife Linkages –Hydro/Sci</b>	PIR – Science work Completed	Ongoing studies & data collection	Resource issues identified
<b>Modeling</b>	PIR - Completed	Multiple models	Regulatory models
<b>Peer Review</b>	Peer review of PIR completed	Peer review anticipated	Rulemaking Review Process
<b>Regulatory implications</b>	Project water protected; limited effect on permit applicants	Surface water flows from large geographic area protected; potential effects on permit applicants	Surface water flows from large geographic area protected; potential effects on permit applicants; (OR SW & GW flows )
<b>SERC Issues</b>	Limited economic effect on regulated entities/ small business	Potential economic issues and affected entities TBD	Potential economic issues and affected entities TBD
<b>Legislative Ratification</b>	Not Anticipated	Anticipated	Anticipated
<b>Timeline</b>	9 -12 months	24 - 36+ months	24 - 36+ months

# Protecting Water for the Caloosahatchee River – Current Considerations

- Protect all water from the C-43 Reservoir as identified in CERP project
- Protect local basin runoff from the Caloosahatchee East, West and S-4 basins; in addition to the CERP project water
- Possible phased approach



# Overview of Caloosahatchee Watershed



Disclaimer: The South Florida Water Management District does not warrant, guarantee, or make any representations regarding the use of the information on this map.

# Options – Caloosahatchee Water Protection

Factors	CERP Project Only Reservation	Reservation
<b>Fish &amp; Wildlife Linkages – Hydrology / Science</b>	PIR – Science work completed	Ongoing studies & data collection
<b>Modeling</b>	PIR - Completed	Multiple Models
<b>Peer Review</b>	Public and agency review process completed	Peer review anticipated
<b>Regulatory Implications</b>	Project water protected; no effects on permit applicants	Surface water flows from large geographic area protected; potential effects on permit applicants
<b>SERC Issues</b>	Limited economic effects on regulated entities/small business	Potential economic issues and affected entities TBD
<b>Legislative Ratification</b>	Not anticipated	Anticipated
<b>Timeline</b>	9 – 12 months	24 – 36+ months

# Stakeholder Feedback

# WRAC Meeting – Discussion Summary – Biscayne Bay Water Protection

- Many members stated District should move forward with CERP project reservation
  - Phased approach to protecting water recommended
- Biscayne National Park concerned that protection of CERP project water not adequate to meet needs of Bay as a whole & additional protection is needed
- Environmental community concerned about District's commitment to protect water for Bay as a whole if a phased approach is used.



## WRAC Meeting – Discussion Summary – Protecting Water for Caloosahatchee Estuary

- Many members stated the District should move forward with CERP project reservation
  - Phased approach to protecting water recommended
- Environmental community would like a water reservation for the Caloosahatchee Estuary that protects water in addition to water identified for the CERP project
- Agricultural community would like District to focus on CERP project reservation and then evaluate need for additional protection



# Additional Outreach with Environmental Stakeholders – Biscayne Bay

- District should protect water for the Phase I project as a first step
- Stakeholders want firm commitment to next step to protect water for the Bay. Options discussed include:
  - Protecting water for the Phase II CERP Project
  - Water reservation for surface water inflows into the Bay
  - Minimum Flow and Level establishment for the Bay



# Additional Outreach with Environmental Stakeholders – Caloosahatchee River

- Timing of Reservation for CERP C-43 Reservoir
  - May not need to prioritize due to shift in focus to Central Everglades Planning Process
- Water Reservation should be comprehensive
  - District should evaluate all potential sources of water
    - local basin runoff
    - dispersed storage
    - any other project with storage components located in the Caloosahatchee watershed
    - Lake Okeechobee
    - LOSA terminated/reduced permit water

## Staff Recommendation:

- Complete water reservation for natural system water identified to be protected for the:
  - CERP Biscayne Bay Coastal Wetlands Phase I Project
  - CERP Caloosahatchee River C-43 West Basin Storage Reservoir Project
- Work with watershed stakeholders and with the WRAC to identify options for next phase of water protection efforts for Biscayne Bay and the Caloosahatchee River



# Discussion / Board Direction