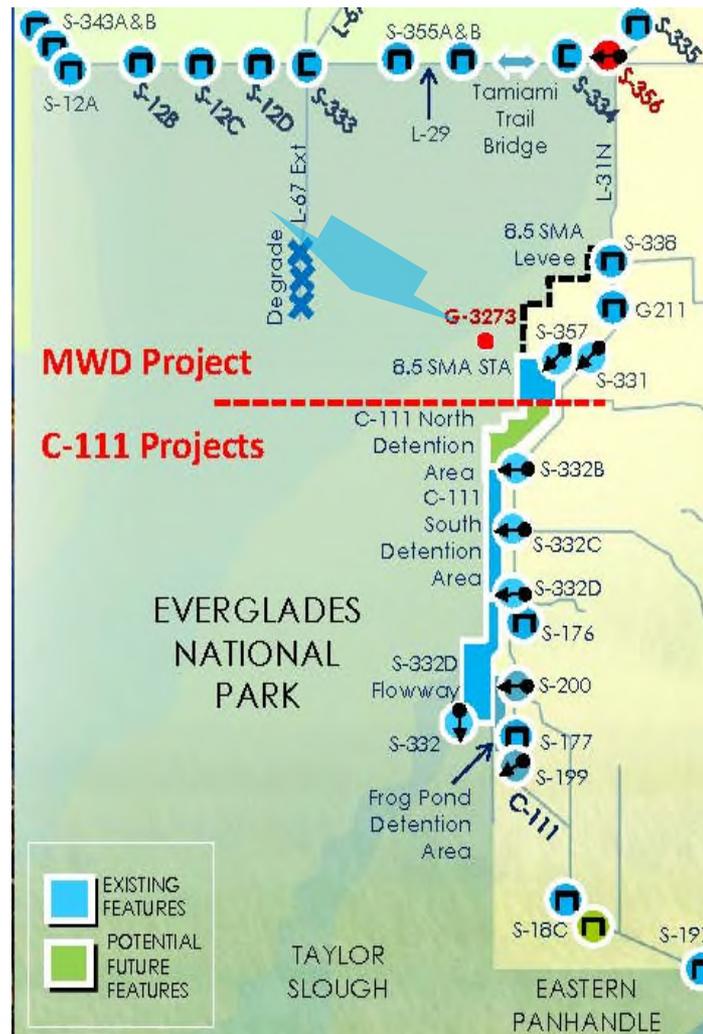
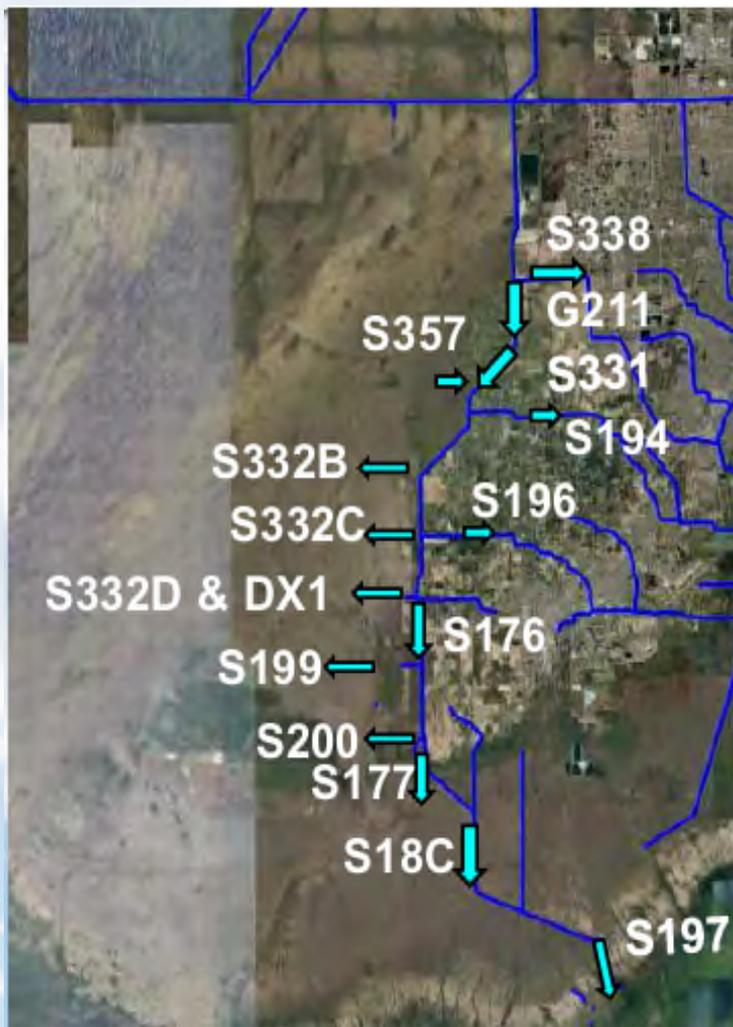


# **D) SOUTH DADE STUDY**

**Brenda Mills, Principal Scientist**

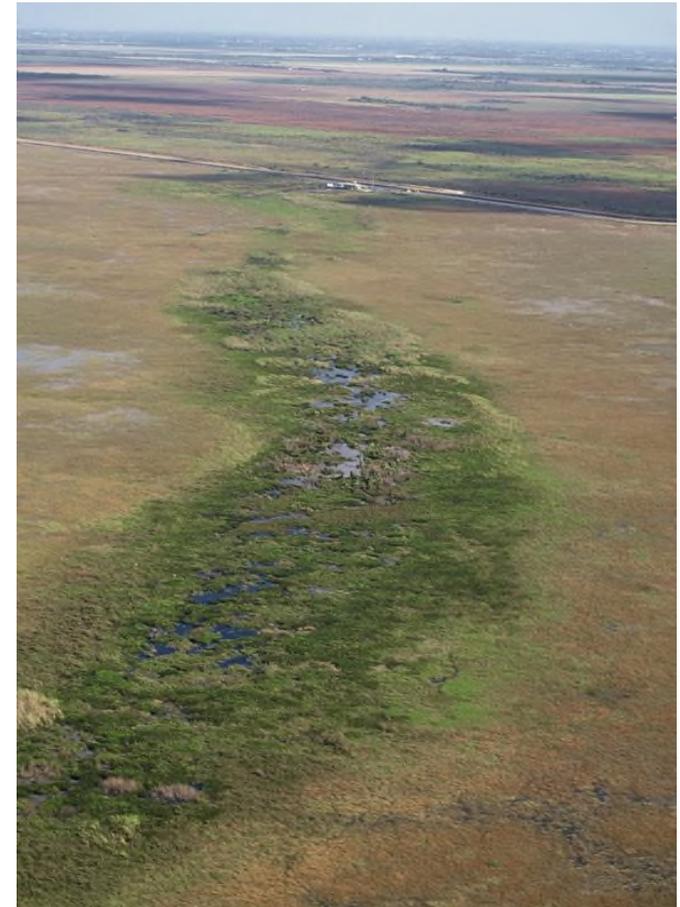
**Everglades Policy & Coordination Division**

# South Dade



# South Dade Study Update

- In February 2016, SFWMD Governing Board instructed staff to implement components identified in the South Dade study.
- This presentation will provide an update on progress made towards near-term, mid-term and longer-term recommendations based on the complexity and regulatory requirements for implementation.



Taylor Slough, Everglades National Park

# Near-Term Operational and Structural Recommendations

- ✓ Implemented operating guidance within existing water control plan authority
  - Operate the S-332B, S-332C, S-332D, S-199 and S-200 pumps at the lower end of their current operating range
  - Operate the water control structures S-176 and S-177 based on rainfall event criteria
- ✓ Seasonal and lower operating ranges at S-199 and S-200 pump stations
- ✓ Seasonal and lower operating ranges at S-332 pump stations, S-176 and S-177 structures
- ✓ Modify high head cell at S-332D



# Modify S-332D High Head Cell Weir

Location of Weir



	Crest Elevation	Height above Grade
S-327 (High Head Cell Weir)	8.2 ft NGVD	3.0 ft
Cell Invert	6.5 ft NGVD	1.5 ft
S-329 (Cell Weir)	5.0 ft NGVD	1.0 ft
L-31W Level	4.0 ft NGVD	0.0 ft

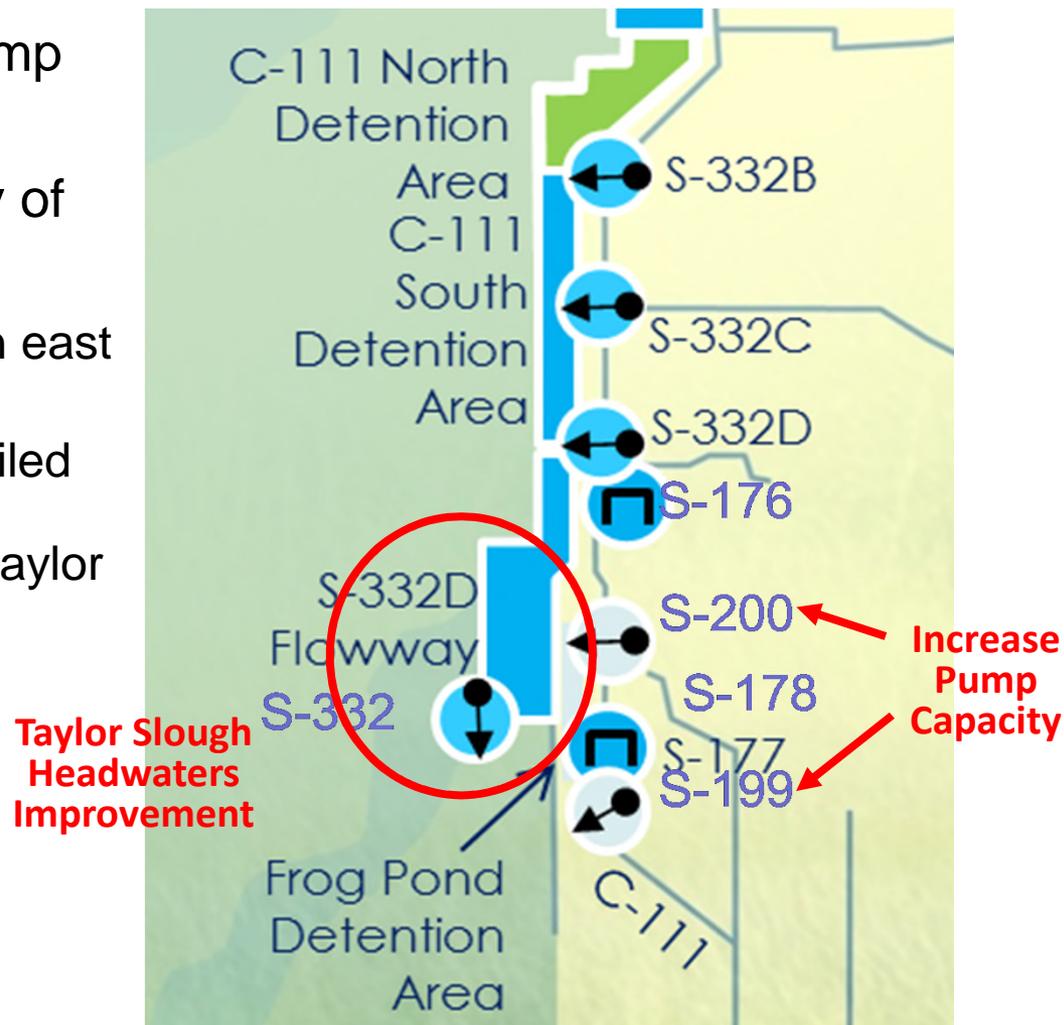
Source: 2012 Draft C-111SD EDR

S-327 (1900' weir)

S-332D High Head Cell

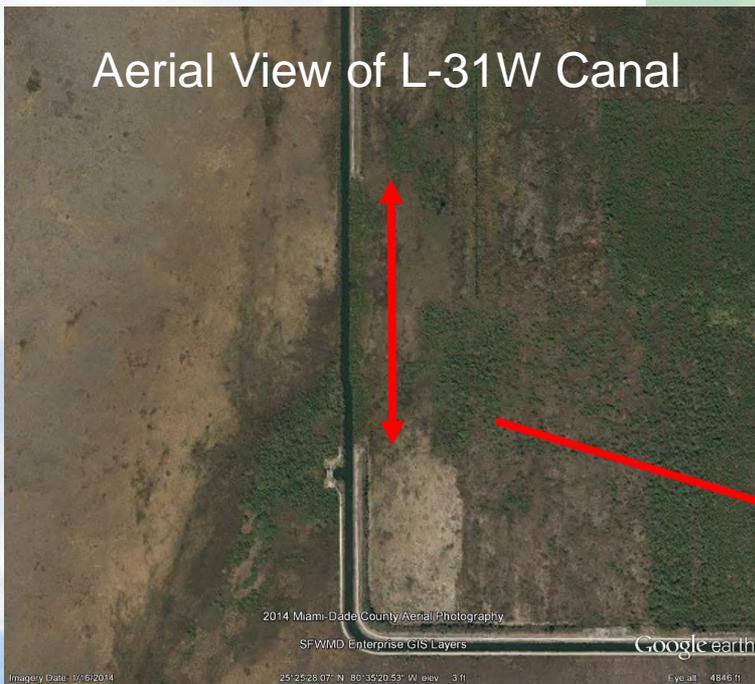
# Mid-Term Structural Recommendations

- ✓ Increase S-199 and S-200 pump capacity
- Modify infrastructure in vicinity of Taylor Slough Headwaters
  - ✓ Rebuild weir north of S-332 on east side of canal
  - ✓ Staff has initiated a more detailed assessment of the hydraulic conveyance in the vicinity of Taylor Slough headwaters



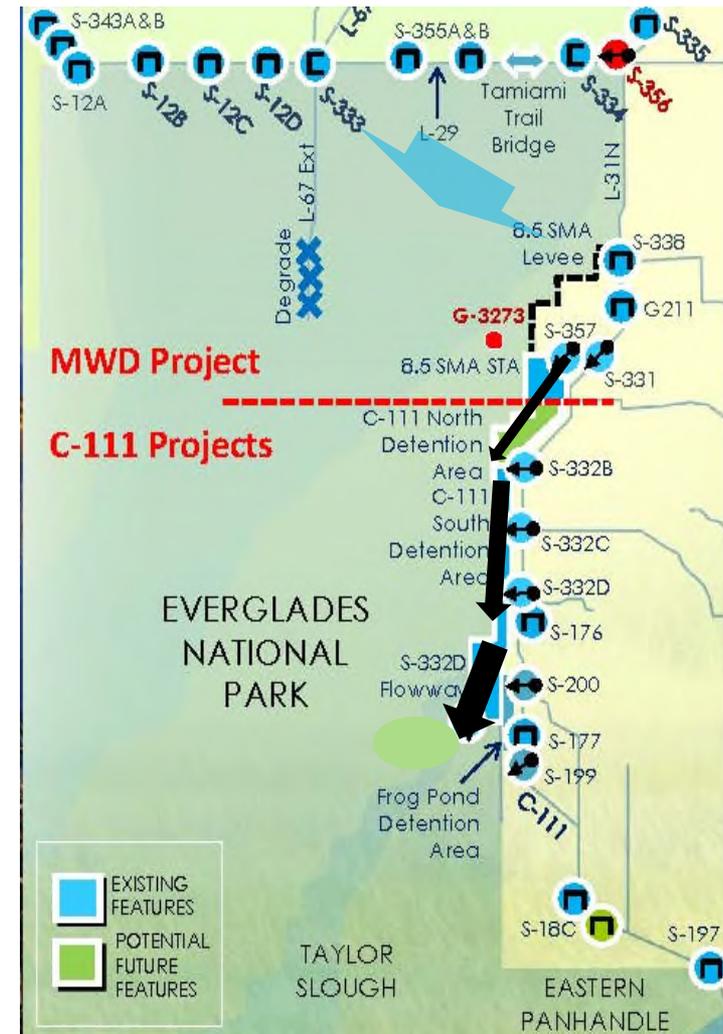
# Rebuild Weir Along L-31W Canal

Aerial View of L-31W Canal



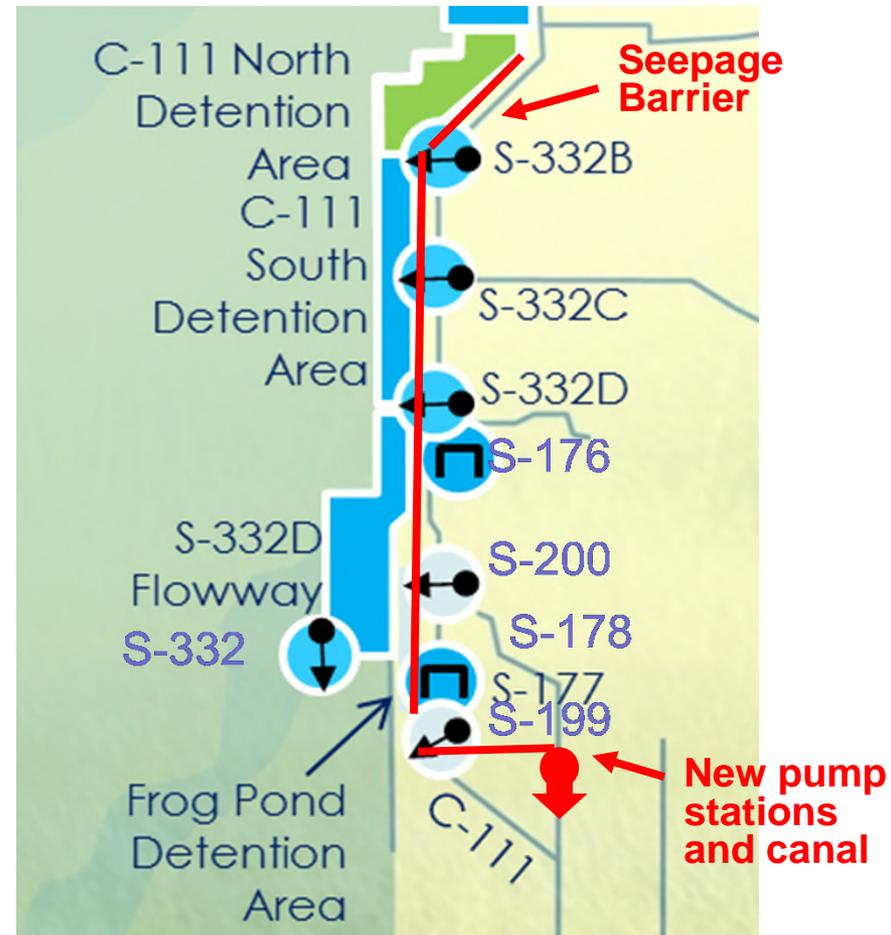
# Construction of C-111 South Dade Project

- Contract 8 construction by U.S. Army Corps of Engineers contractor is underway
- Contract 8A is expected to be awarded by U.S. Army Corps of Engineers in September 2016; Contract 9 to follow
- Once complete, the newly constructed flowways within the detention areas will move water more effectively



# Longer-Term Structural Recommendations

- Seepage collection canal and pump stations near S-178
- Seepage barrier – up to 15 miles in length
- Both projects will require additional planning, permitting and design





# Questions?